



ENOVIA DesignSync Command Reference - File

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ENOVIA Synchronicity Command Reference

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ENOVIA Synchronicity Command Reference

This document contains command descriptions for all ENOVIA Synchronicity DesignSync and ProjectSync® commands. You can run most DesignSync commands from any DesignSync client.

The commands in this reference, along with the Tcl scripting language, are referred to as Synchronicity tcl (stcl). You can include these commands in stcl scripts. For DesignSync, you can create scripts for clients and servers (SyncServers). For ProjectSync, you create server scripts. See the [Synchronicity stcl Programmer's Guide](#) to learn how to use the Synchronicity commands in Tcl scripts.

Using this Guide with Different Methodologies

DesignSync features three command references. This command reference is for a file based environment containing only or predominately file/vault based objects.

The file-based command set supports working in the file methodology. The file based command set supports working with individually managed file objects which each have a vault object on DesignSync server that can be directly manipulated and referenced. All the information include in this guide is applicable in a file-based environment. If you are working in a mixed environment containing module or legacy module objects in addition to file objects, you should use the [ENOVIA Synchronicity Command Reference: All](#).

Important: This guide only includes the commands, options, and arguments applicable to file-based usage. This may mean there are some differences from what you see as available commands or options in the DesignSync client.

Organization of the Command Reference

The Synchronicity commands are ordered by methodology and function within the Command Reference.

The command reference sections are organized into the following sections:

- Fundamental Topics - contains the commands that discuss the core concepts underlying the DesignSync system. Understanding these concepts provides a foundation that allows you to properly construct DesignSync Commands and maximize their functionality. These topics include [Understanding Fetch Preferences](#), [Using Interrupt](#), [Using Revision Control Keywords](#), [selectors](#), [server-side](#), [wildcards](#).
- Client Applications - contains the commands that launch DesignSync clients. These topics include [DesSync](#) (graphical user interface, or GUI), [dss](#) (DesignSync shell), [dssc](#) (concurrent version of dss), [stcl](#) (Synchronicity Tcl

shell), and [stcl](#) (concurrent version of stcl). See [DesignSync Help: DesignSync Command Line Shells](#) for details about the shells, as well as the types of command line editing supported by each shell.

- Client Shell Control - contains the commands used within the DesignSync clients to control the clients.
- Workspace Setup - commands used to initially set up a workspace.
- Primary Revision Control - primary commands used daily by the user to manage their data.
- Advanced Revision Control - advanced commands used less often by the user to support advanced revision control functionality.
- Navigational - commands that allow you to move around within the workspace or the server to locate your files.
- Informational - commands that provide information about the revision controlled objects, or the contents of the files.

- URL Sync Object Module - contains the commands that allow you to access (view and modify) the Synchronicity Object Model information.
- TCL Interface - contains the commands that provide additional TCL scripting functionality.
- Third-Party Integrations - contains the commands that provide an interface into the DSMW and DSDFII integrations.
- Administration - contains the commands that provide administration resources, such as data replication, caching, mirrors, authentication, command defaults setup, triggers, etc.
- DesignSync Web Interface - contains the commands that provide an interface into the DesignSync Web interface, including note and notetype manipulation, property type manipulation, etc.

Syntax Description

Every command description has a SYNOPSIS section that shows the syntax for the command. Material within square brackets [] is optional. Material within curly brackets { } is required. A vertical bar | indicates mutual exclusion. For example, [`-keep` | `-lock`] means that you can use the `-keep` option or the `-lock` option, but not both.

The command options descriptions are in alphabetical order in the TOC and within the options section. The syntax line also follows alphabetical order except when the command has exclusive options, as shown above. The exclusive options are shown together to improve readability.

Accessing Command Descriptions from Client Shells

The command descriptions in the **Synchronicity Command Reference** are identical to the command-line help you can access from any DesignSync client using the [help](#)

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command or `-help` option. For example, you can enter either of the following commands to get help for the `co` command:

```
dss> help co
```

```
dss> co -help
```

You can also launch this file from any DesignSync client by using the [webhelp](#) command. For example,

```
dss> webhelp co
```

Opens your default web browser on the [co](#) command page.

Note: Both the `help` and `webhelp` command respect the DesignSync methodology specified in SyncAdmin. When a methodology is specified, Designsync shows the custom help for the module specified. For more information on specifying methodology, see the *ENOVIA Synchronicity DesignSync Administrator's Guide*: [General Options](#).

Fundamental Topics

Understanding Fetch Preference

fetch preference

NAME

fetch preference - How to specify a default fetch state

DESCRIPTION

DesignSync supports five object states: locked copy (original), unlocked copy (replica), link to the cache, link to the mirror, and reference. You have a locked copy when you want to edit an object to create a new version. You can also have a locked reference to lock an object that you intend to regenerate without fetching the last version of the object. The state you want for unlocked objects -- objects you have fetched into your work area -- typically depends on your team's project methodology. For example, if your team employs a file cache to share files, you would generally have links in your work area to objects in the cache.

You can specify the object state each time you invoke a command that affects the state (ci, co, populate, cancel) -- for example, always specifying -share. To simplify specifying your team's recommended fetch state, your project leader can define a default fetch state for these commands. Your project leader uses the SyncAdmin tool to define a default fetch state.

DesignSync determines the fetch state for a given operation as follows:

1. Operations use the state option (-lock, -get/-keep, -share, -mirror, -reference) specified on the command line.
2. If no state option is specified, operations use the default fetch state as defined by your project leader.
3. If no default fetch state has been defined, operations use the command's default behavior (-get for 'co' and 'populate', -keep for ci and 'cancel').

The 'co' and 'populate' commands update the states of modified objects only. To update the states of all objects, use the -unifystate option.

Note:

Use of caches and mirrors is limited to UNIX machines. DesignSync displays an error message when a command tries to use an invalid default fetch preference.

SEE ALSO

ci, cancel

EXAMPLES

This example demonstrates the behavior of the 'co' command first without, then with a default fetch state defined.

```
- No default fetch state defined
dss> co top.v           # Fetches a copy (default behavior for 'co')
dss> co -get top.v     # Fetches a copy
dss> co -share top.v   # Creates link to top.v in the cache

- Default fetch state of 'mirror'
dss> co top.v         # Creates link to top.v in the mirror
dss> co -get top.v    # Fetches a copy (explicit option overrides default)
dss> co -share top.v  # Creates link to top.v in the cache
```

Understanding Server-Side Commands**server-side****NAME**

server-side - Understanding and using server-side commands

DESCRIPTION

Server-side only commands can be run only on the SyncServer. You run server-side scripts either from your browser, or using the rstcl command from a DesignSync client:

- o From your browser, specify a URL as follows:
http://<host>:<port>/scripts/isynch.dll?panel=TclScript&file=<filename>
- o From a DesignSync client, specify the following command:
rstcl -server sync://<host>:<port> -script <filename>

where <filename> is the name of your server-side script.

The SyncServer looks for stcl scripts in the following locations (in the order listed):

1. Server-specific Tcl scripts (UNIX only):
 <SYNC_DIR>/custom/servers/<host>/<port>/share/tcl

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2. Site-wide Tcl scripts:
`<SYNC_DIR>/custom/site/share/tcl`
3. Synchronicity-provided Tcl scripts:
`<SYNC_DIR>/share/tcl`

Do not put scripts in `<SYNC_DIR>/share/tcl` because this directory is reserved for Synchronicity scripts, and your scripts may be overwritten when you upgrade your Synchronicity software.

Important: If you make modifications to your script, use the ProjectSync Reset Server menu option to force the SyncServer to reread your script.

When specifying 'sync:' URLs within scripts that are run on the server, do not specify the host and port. For example, specify:

```
sync:///Projects/Asic
not
sync://holzt:2647/Projects/Asic
```

Because the script is run on the server itself, host:port information is unnecessary and is stripped out by the server, which may lead to incorrect behavior during object-name comparisons.

You must verify access controls explicitly in server-side scripts. Access controls are generally ignored in server-side scripts; the script itself must call the 'access verify' command for access controls it wishes to honor. The following server-side script verifies the built-in AdministrateServer access control:

```
if [access verify AdministrateServer $SYNC_User] {
    access reset
    puts "AccessControl files reread."
} else {
    puts "Permission denied."
}
```

If your server-side script operates on RevisionControl notes, you need to protect the integrity of your data by blocking access to the server while the script runs:

1. Edit your custom AccessControl file to deny all actions that operate on RevisionControl notes, for example:

```
access deny Checkin everyone
access deny Tag everyone
```

2. Load the modified AccessControl file by using the ProjectSync Access Reset menu item.
3. Run your server-side script.
4. Edit your custom AccessControl file and remove the 'access deny' commands.
5. Load the modified AccessControl file by using the ProjectSync Access

Reset menu item.

See the 'access' commands for more information about custom AccessControl files.

The following are examples (but not the exhaustive list) of server-side only commands:

```
url users
url notes
note setprops
note query
access verify
access reset
```

For more information on server-side development, see the ENOVIA Synchronicity stcl Programmer's Guide.

SEE ALSO

rstcl

EXAMPLES

The following is an example of passing parameters into a server side Tcl script.

Assuming the script uses the TclScript panel, the arguments are passed using the same syntax that browsers use to pass parameters to CGI scripts. This makes it simple to invoke TclScript panels from HTML forms.

All of the arguments are packaged as members of an array variable named SYNC_Parm. The index to the array is the name of the argument, and the value is the argument value.

For example, to pass the color and shape of an object to a script called 'DrawShapes.tcl', you would have something like this:

The URL to invoke the script (this example is meant to be a single line but is displayed across two for enhanced readability):

```
http://holzt:2647/scripts/isynch.dll?panel=TclScript&file=DrawShapes.tcl
    &color=red&shape=triangle
```

Within DrawShapes.tcl, you might print out the parameters:

```
puts "Color = $SYNC_Parm(color) <br>"
puts "Shape = $SYNC_Parm(shape) "
```

In this example, submitting the URL should produce the output:

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```
Color = red  
Shape = triangle
```

You could also execute this script using the `rstcl` command from a DesignSync client (dssc in this example):

```
dss> rstcl -server sync://holzt:2647 -script DrawShapes.tcl \  
-urlparams color=red&shape=triangle
```

Using Interrupt (Control-c)

interrupt

NAME

```
interrupt          - How to interrupt commands
```

DESCRIPTION

To interrupt DesignSync commands, press Control-c. Not all DesignSync commands can be interrupted; you can only interrupt commands that perform multiple operations and do not complete immediately. These commands include `cancel`, `ci`, `co`, `import`, `ls`, `populate`, `retire`, `setvault`, `setmirror`, `tag`, and `unlock`.

When a command is run on multiple files or directories, the command operates on multiple files or directories at once, as opposed to processing one file at a time, one directory at a time. When a command is interrupted, before the command stops it will complete its processing of the current files or directories being operated on.

SYNOPSIS

```
Control-c
```

EXAMPLES

The following is an example of interrupting a recursive checkin:

```
dss> ci -recursive -nocomment -force Sportster  
Beginning Check in operation...  
  
Checking in: Sportster/code/samp.asm  
Checking in: Sportster/code/samp.lst  
Checking in: Sportster/code/samp.mem  
Checking in: Sportster/code/samp.s19
```

```

Interrupt detected!

Checking in: Sportster/code/sample1.asm

Command Interrupted!

dss>

```

Using Revision Control Keywords

keywords

NAME

```
keywords          - How to use revision control keywords
```

DESCRIPTION

The revision control engine used by DesignSync is RCE. DesignSync supports RCE revision control keywords (or keys) in your design files. By including keywords in your files, you can access revision information (such as revision number, author, and comment log), which is stored in the RCE archive that underlies your vault.

You use revision control keywords by inserting them in your files, typically within comments to keep programs that operate on your files from interpreting the keywords. Keywords are delimited by preceding and trailing dollar signs (\$). There cannot be a space between a keyword and its dollar-sign delimiters. Keywords are expanded (keyword substitution) based on the version of the file that you are checking out. Because the keyword expansion usually changes the length of the file, keywords should only be used with files whose format is position independent, such as text files. You can control keyword expansion using the `-keys` option to the `ci`, `co`, and `populate` commands.

Note: Revision control keyword expansion is not supported for:

- o files belonging to collections
- o the initial checkin of module data from "mkmod -checkin"

The following are the revision control keywords. The keywords are case sensitive.

```

$Aliases$ List of tag names assigned to the revision
$Author$   Who checked the revision in
$Date$     The date and time the revision was checked in
           For modules and module member objects, the time is
           displayed in GMT. For DesignSync objects, the time is
           displayed in the server's local time.

```


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`$Header$` Concatenation of Source, Revision, Date, Author, and Locker
`Id` Concatenation of RCSfile, Revision, Date, Author, and Locker
`$KeysEnd$` Not expanded, and stops further expansion of keys
`$Locker$` Who has locked this revision. If the revision is not locked, this value is empty (null).
`Log` The full name of the archive file (`$Source$`) followed by the comment log (see Notes)
`$RCSfile$` The name of the archive file, without the path
`$Revision$` The revision number. For modules, the version provided is that of the module member.
`$Source$` The full name of the archive file, including the path

Notes:

- The `Log` keyword, when expanded, permanently adds log information to your file -- later collapsing the keyword leaves the log information in your file. Existing log messages are not replaced. Instead, the new log information is inserted each time the keyword is expanded. `Log` is useful for accumulating a complete change log in a source file, but can result in differences or conflicts when doing merges or file comparisons. `Log` is the only keyword with this behavior.
- When a keyword expansion requires spans multiple lines, the comment delimiter at the beginning of the line is repeated on subsequent lines. Therefore, make sure that the resulting syntax is valid. For example, in a C file, do not specify:

```
/* $Log$  
*/
```

The resulting expansion has invalid comment syntax:

```
/* $Log: /home/syncmgr/syncdata/adams/2647/Projects/Test/test.c.rca $  
/*  
/* Revision: 1.6 Wed Jun 20 09:12:07 2001 Adams  
/* *** empty comment string *** */
```

Whereas if you specify:

```
/*  
* $Log$  
*/
```

The resulting expansion is valid:

```
/*  
* $Log: /home/syncmgr/syncdata/adams/2647/Projects/Test/test.c.rca $  
*  
* Revision: 1.6 Wed Jun 20 09:12:07 2001 Adams  
* *** empty comment string ***  
*/
```

SEE ALSO

co, populate

EXAMPLES

The following is an example of keywords in a file before and after expansion. Note that the keywords appear within comment delimiters, in this case `/*` and `*/`, such as a C file.

```
/*
 * $Aliases$
 * $Author$
 * $Date$
 * $Header$
 * $Id$
 * $Locker$
 * $Log$
 *
 *
 * $RCSfile$
 * $Revision$
 * $Source$
 * $KeysEnd$
 * $Id$
 */
```

Following substitution:

```
/*
 * $Aliases: Key-Example $
 * $Author: ja $
 * $Date: Wed Jun 20 11:47:20 2001 $
 * $Header: /home/syncmgr/syncdata/adams/2647/Projects/Test/test.c.rca 1.1
Wed Jun 20 11:47:20 2001 ja Stable $
 * $Id: test.c.rca 1.1 Wed Jun 20 11:47:20 2001 ja Stable $
 * $Locker: $
 * $Log: /home/syncmgr/syncdata/adams/2647/Projects/Test/test.c.rca $
 *
 * Revision: 1.1 Wed Jun 20 11:47:20 2001 ja
 * Initial revision
 *
 * $RCSfile: test.c.rca $
 * $Revision: 1.1 $
 * $Source: /home/syncmgr/syncdata/adams/2647/Projects/Test/test.c.rca $
 * $KeysEnd$
 * $Id$
 */
```

Using Selectors

selectors

NAME

selectors - How to use selectors and selector lists

DESCRIPTION

- [What Are Selectors?](#)
- [Static Selectors Versus Dynamic Selectors](#)
- [How Does DesignSync Resolve Branch and Version Selectors?](#)
- [What Are Selector Lists?](#)
- [What Are Persistent Selector Lists?](#)
- [Selector Formats](#)
- [File-Based Specific Formats](#)
- [Date Formats](#)

DesignSync uses selectors and selector lists to determine the branch or version of an object to use for revision-control operations. Understanding and properly using selectors and selector lists is critical in multi-branch environments, but is also important when using a single branch.

Note:

DesignSync supports two distinct features: 'select lists' and 'selector lists'. Select lists, as managed by the 'select' and 'unselect' commands and used by commands that support the '-selected' option, are an optional way to specify on which objects DesignSync commands should operate. Selector lists, as managed by the "setselector" command and the '-version' and '-branch' options to various commands, specify on which version or branch of a given object DesignSync commands should operate.

What Are Selectors?

A selector is an expression that identifies a branch and version of a managed object. For example, the version selector 'gold', the branch selector 'Rel2:Latest', the version number '1.4', and the reserved keyword 'Latest' are all selectors.

Static Selectors Versus Dynamic Selectors

Static selectors denote a set of objects whose contents are fixed. These fixed objects might constitute a group of objects being prepared for release. Static selectors include version selectors such as 'gold' and branch selectors with fixed versions, such as 'Rel2:gold'. The objects denoted by a static selector do not change

with subsequent checkins.

Dynamic selectors denote a set of objects whose contents are not fixed. A branch selector such as 'Rel2:Latest' is a dynamic selector because the objects denoted by the selector change; a new 'Latest' version is created on the Rel2 branch with each subsequent checkin.

How Does DesignSync Resolve Branch and Version Selectors?

Branch tags and version tags share the same name space. To distinguish version selectors from branch selectors, you append '<versiontag>' to the branch name; for example, 'Gold:Latest' is a valid branch selector. You can leave off the 'Latest' keyword as shorthand; for example, 'Gold:' is equivalent to 'Gold:Latest'. The selector 'Trunk' is also a valid branch selector; 'Trunk' is a shorthand selector for 'Trunk:Latest'.

You cannot assign the same tag name to both a version and a branch of the same object. For example, a file called 'top.v' cannot have both a version tagged 'Gold' and a branch tagged 'Gold'. However, 'top.v' can have a version tagged 'Gold' while another file, 'alu.v', can have a branch tagged 'Gold'.

Consider adopting a consistent naming convention for branch and version tags to reduce confusion. For example, you might have a policy that branch tags always begin with an initial uppercase letter ('Rel2.1', for example) whereas version tags do not ('gold', for example).

If the selector identifies a version, DesignSync resolves the selector to both the object's version number and branch number. For example, if version 1.2.1.3 is tagged 'Gold', DesignSync resolves 'Gold' as both version 1.2.1.3 and branch 1.2.1. A version selector only resolves if the object has a version tag of the same name; it does not resolve if the tag is a branch tag.

If the selector identifies a branch, DesignSync resolves the selector to both that branch and the Latest version on that branch. If branch 1.2.4 has branch tag 'Rel2', DesignSync resolves 'Rel2:Latest' as both branch 1.2.4 and the Latest version on that branch (say, 1.2.4.5). This behavior is important because some commands (such as 'co') operate on a version, some (such as 'ci') operate on a branch, and others (such as 'tag') operate on either a version or branch. If the tag cannot be resolved as a branch, DesignSync searches for a version of the same name, determines which branch the version is on, and resolves to the Latest version on that branch. For example, suppose an object, 'netlist.txt', has a version tagged 'beta' on its 1.2.4 branch. If the selector is 'beta', DesignSync first searches for a 'beta' branch. Finding no beta branch, DesignSync searches for a 'beta' version. DesignSync finds the 'beta' version, determines its branch, 1.2.4, and resolves to the Latest version on the 1.2.4 branch.

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A selector can also specify both a branch and a version, for example, 'Rel2:gold'. This selector resolves if there is a branch 'Rel2' and if a version tagged 'gold' exists on the 'Rel2' branch.

A selector might not match any branch or version of a given object. For example, a file may not have a branch or version tagged 'Gold'. Because selectors can fail, it is common to specify selector lists.

Note: To resolve a selector, DesignSync does not search above the first folder that has a vault association. Thus, if a folder has no selector or persistent selector set, DesignSync searches up the hierarchy only as far as the first folder that has a vault association.

What Are Selector Lists?

You can combine selectors into a selector list, a comma-separated list of selectors. No whitespace between items is allowed.

Examples of selector lists are:

```
gold,silver,bronze,Trunk:Latest
auto(Test),Main:Latest
Dev2.1:Latest,Rel2.1:Latest,Trunk
gold, 1.2, 1.2.1:Latest, Trunk
```

Selector lists are used by commands that fetch objects ('co', 'populate', and 'import'). They provide a search order for identifying and retrieving versions. DesignSync operates on each element of a selector list in the same way it operates on an individual selector. If the first selector in the list does not resolve to a version, then DesignSync looks at the next selector in the list. The first matching version is used. The command fails if none of the selectors in the list resolves to a version. In the case of tags, DesignSync first looks for a branch with the specified tag, and if found, resolves to the Latest version on that branch. Otherwise, DesignSync looks for a version with that tag.

For example, if you want to populate with "the most stable configuration", you might define your selector list as 'Green,Yellow,Red,Trunk', where your team's development methodology is to use version tags of 'Green', 'Yellow', and 'Red' to indicate decreasing levels of stability. With this selector list, DesignSync retrieves the first of the following versions it locates:

1. The version tagged 'Green'.
2. The version tagged 'Yellow'.
3. The version tagged 'Red'.
4. The Latest version on the branch tagged Trunk. Trunk (shorthand for Trunk:Latest) is the default tag name for branch 1.

If your team is using a branching methodology and you want to populate with "the most stable configuration", you might define your selector list instead as 'Green:Latest,Yellow:Latest,Red:Latest,Trunk'.

With this selector list, DesignSync retrieves the first of the following versions it locates:

1. The Latest version on the branch tagged 'Green'.
2. The Latest version on the same branch as the version tagged 'Green'.
3. The Latest version on the branch tagged 'Yellow'.
4. The Latest version on the same branch as the version tagged 'Yellow'.
5. The Latest version on the branch tagged 'Red'.
6. The Latest version on the same branch as the version tagged 'Red'.
7. The Latest version on the branch tagged Trunk.

Selector lists are a powerful mechanism, but can also add complexity. To avoid accidental checkins to unintended branches when you have complicated selector lists, the 'ci' and 'co -lock' commands consider only the first selector in a selector list. If the first selector resolves to a branch, the operation continues, otherwise the operation fails.

Note: Using CONFIG statements in sync_project.txt files, you can map a configuration to a single selector or a selector list. See the DesignSync help topic "Using Vault References for Design Reuse" for information.

What Are Persistent Selector Lists?

Some commands (ci, co, populate, import) support persistent selector lists. Persistent selector lists specify what branch or version a command operates on in the absence of an explicit -version or -branch option. Commands that do not obey the persistent selector list typically operate on the current version or current branch of the object in your work area.

You explicitly set the persistent selector list, typically on an entire work area, using the 'setselector' command. You can also set the selector at the same time you set the vault with the 'setvault' command. DesignSync also sets the persistent selector list in the following cases:

- o When populating a configuration-mapped folder. This behavior is a performance optimization. See the "populate" help topic for details.
- o When populating or checking out with the -overlay option and an object exists on the overlay branch but not on the branch being overlaid (the work area branch). DesignSync may augment the object's persistent selector list with the Auto() selector so that the object is automatically branched when checked in. See the -overlay option description for details.

A persistent selector list is stored in an object's local metadata, or it is inherited from its parent folder. If a persistent selector list has not been defined, the default is 'Trunk'.

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You can override the persistent selector list on a per-operation basis with the `-version` option (for `populate`, `co`, and `import`) or `-branch` option (for `ci`). The persistent selector list is not updated when you use the `-version` or `-branch` option.

The 'P' data key for the 'ls' command and the 'url selector' command report an object's persistent selector list.

Note: Using CONFIG statements in `sync_project.txt` files, you can map a configuration to a single selector or a selector list. See the DesignSync help topic "Using Vault References for Design Reuse" for information.

Selector Formats

A selector can have one of several formats:

o <number>

A branch or version number. Branch and version numbers are also known as "dot numerics". Using branch or version numbers as selectors is typically less convenient than using tags or date-based selectors.

A version <number> selector is a static selector; the objects denoted by the version <number> selector are fixed. A branch <number> selector is a dynamic selector; the objects denoted by the branch <number> selector change upon subsequent checkins.

Examples: 1.1, 1.3.2.3 -- version <number> selectors
1, 1.3.4, 1.1.1 -- branch <number> selectors

o <versiontag>

A version selector. If you specify a version selector, DesignSync resolves the selector to both the object's version number and branch number. For more details, see "How Does DesignSync Resolve Branch and Version Selectors?"

A <versiontag> selector is a static selector; the objects denoted by the <versiontag> selector are fixed.

A given tag name might be applied to a branch or to a version (but never both at the same time for the same object). Branch selectors use the syntax '<branchtag>:<versiontag>', for example, 'Rel2:Latest' to differentiate them from version selectors.

If you specify a version selector during the check-in of a new object, the object is created, by default, on the Trunk branch. If you instead intend to check the object into a different branch, be sure to specify a branch selector rather than a version selector.

Examples of version selectors: gold
alpha

o <branchtag>:Latest

A branch selector that specifies the most recent version on the branch. A given tag name might be applied to a branch or to a version (but never both at the same time for the same object). To specify a branch selector, append '<versiontag>', in this case, ':Latest' to the branch tag name, for example, 'Rel2.1:Latest'. You can leave off the 'Latest' keyword as shorthand. For example, 'Rel2.1:' is equivalent to 'Rel2.1:Latest'.

A <branchtag>:Latest (or <branchtag>:) selector is a dynamic selector; the objects denoted by this selector change upon subsequent checkins.

If <branchtag> cannot be resolved as a branch tag, DesignSync searches for a version tag of that name and resolves to the Latest version on that version's branch. For more details, see "How Does DesignSync Resolve Branch and Version Selectors?"

The tag 'Trunk' (shorthand for 'Trunk:Latest') has special significance; it is the default tag name for branch 1.

Examples of branch selectors: Trunk	-- branch 1 default (shorthand for Trunk:Latest)
Rel2.1:Latest	-- branch selector of most recent Rel2.1 version
Rel2.1:	-- shorthand for Rel2.1:Latest

Notes about using Latest and Date():

- <branchtag>:Date(<a_date_in_the_future>) is equivalent to <branchtag>:Latest. Meaning that as long as the specified date is in the future, the <branchtag>:Date selector will resolve to the <branchtag>:Latest. Once the date has been reached, however; the last checked in version for the date becomes the version indicated for that selector.
- When used with the 'setselector' command or as part of a selector list argument (more than one selector) to -version, Latest and Date() must be qualified with a branch: <branchtag>:Latest, <branchtag>:Date(<date>)
- When used as the only selector to a -version option, DesignSync augments the selector with the persistent selector list. For example, if the persistent selector list is 'Gold:,Trunk' and you specify 'co -version Latest', the selector list used for the operation is 'Gold:Latest,Trunk:Latest'; the persistent selector list remains 'Gold:,Trunk' after the operation.

Exception: When you check in an object whose branch you have locked (having done a 'co' or 'populate' with the

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-lock option), the date selector augments the current branch, not the persistent selector list. You typically want to remain working on the locked branch even if the persistent selector list has changed.

These restrictions are required to avoid ambiguity about which branch a Latest or Date() selector applies to.

o <branchtag>:<versiontag>

A specific version on a specific branch. The <branchtag> and <versiontag> values are themselves selectors.

Unlike the dynamic <branchtag>:Latest selector, a <branchtag>:<versiontag> selector is a static selector; the objects denoted by the <branchtag>:<versiontag> selector are fixed.

Examples: Rel2:alpha
Trunk:Date(yesterday)

Notes:

- To specify a specific branch and version, the selector must contain both the branch and version. ':<versiontag>' is illegal. '<branchtag>:' resolves to the Latest version on the specified branch.
- A selector such as 'Trunk:gold' is valid and indicates a version tagged 'gold' only if it is on a branch called 'Trunk'; otherwise, the selector fails.
- A selector of the form 'Gold:Latest' looks for a branch tagged Gold, and if found, fetches the Latest version on that branch. If a 'Gold' branch is not found, DesignSync looks for a version tagged 'Gold', and if found, retrieves the Latest version on the branch that the 'Gold' version is on. Selectors of the form 'Gold:Date(<date>)' behave similarly.
- For backward compatibility, DesignSync supports selectors of the form '<version_number>:Latest' and <version_number>:Date(<date>). DesignSync uses the branch of the specified version, and then applies the Latest or Date() selector. For example, 1.2:Latest resolves to 1:Latest, and 1.3.2.1:Date(yesterday) resolves to 1.3.2:Date(yesterday).

o <branchtag>:Date(<date>)

The most recent version on the specified branch that was created on or before the specified date. The 'Date' keyword is case insensitive. Note that if you specify a date in the future, the selector is equivalent to using the the 'Latest' version selector until the date is reached.

A <branchtag>:Date(<date>) selector is a static selector; the objects denoted by this selector date are fixed provided the specified date has been reached. If the date is in the future, the selector is dynamic until the date is reached.

For example, <branchtag>:Date(yesterday) will always resolve to

yesterday's last checked in version. But `<branchtag>:Date(<futureDate>)` will match `<branchtag>:Latest` until the date specified has been reached, at which point the selector will resolve to the last checked in version before the date.

You specify the Date selector as follows:

```
<branchtag>:Date(<date>)
```

where `<branchtag>` is a branch tag. If `<branchtag>` cannot be resolved as a branch tag, DesignSync searches for a version tag of that name and resolves to the most recent version created on or before the specified date on that version's branch.

```
Examples: Trunk:Date(yesterday)  -- Resolves to the last version
                                         checked in yesterday on the
                                         Trunk branch
          gold:date(4/11/00)      -- If no branch is named 'gold',
                                         but there is a version selector
                                         'gold', DesignSync resolves
                                         this selector to the last version
                                         checked in on or before 4/11/00
                                         on the branch containing the
                                         'gold' version
          Rel2:Date(today)        -- Resolves to the last version
                                         checked in today on the Rel2
                                         branch
```

See the "Date Formats" section below for details on how to specify dates. See `<branchtag>:Latest` for more information about specifying date selectors.

o VaultDate(<date>)

The most recent version on any branch that was created on or before the specified date. The 'VaultDate' keyword is case insensitive. Like the Date selector, the VaultDate specification can accept a branch tag, in the format:

```
<branchtag>:VaultDate(<date>)
```

where `<branchtag>`: is optional.

A VaultDate(<date>) selector is a dynamic selector; the objects denoted by this selector are dependent on the date.

```
Examples: VaultDate(yesterday)
          VaultDate(4/11/00)
          Rel40:VaultDate(today)
```

See the "Date Formats" section for details on how to specify dates.

File-Based Specific Formats

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o Auto(<tag>)

Used for auto-branching, which creates branches on an as-needed basis as opposed to branching an entire project. This methodology is useful for "what if" scenarios. In general, Auto(<tag>) is equivalent to just <tag>. The 'Auto' is significant only for operations that can create branches (ci, co -lock, populate -lock). An Auto(<tag>) selector is a dynamic selector.

The Auto keyword is case insensitive.

Examples: Auto(Dev)
 auto(Rel2.1_p1)

Notes:

- The value supplied to the auto-branch selector must be a branch or version name, not a branch selector. 'Auto(Golden:)' and 'Auto(Golden:Latest)' are illegal selectors.
- The current version is always the branch-point version when Auto() creates a new branch.
- If present, Auto(<tag>) must be the first selector in a selector list.
- The auto(<branch>) option is only applicable for legacy modules and DesignSync objects. It is not a valid selector for modules.

Date Formats

This section describes how you can specify dates when using Date(<date>) and VaultDate(<date>) selectors. DesignSync uses a public-domain date parser that supports a wide range of date and time specifications. The parser is the same one used by the Gnu family of tools. Visit a Gnu website for a complete specification. This section documents the more common formats.

Note: If the date specification contains spaces, you must surround the entire selector list with double quotes.
For example: 'Gold:Date(last Tuesday),Trunk'

Year Format:

You can specify the year using 2 or 4 digits. DesignSync interprets 2-digit year specifications between 00 and 69, inclusive, as 2000 to 2069, and specifications between 70 and 99, inclusive, as 1970 to 1999.

If you omit the year, the default is the current year.

Month Format:

You can specify the month as a number (1 through 12), or using the following names and abbreviations:

January	Jan	Jan.
February	Feb	Feb.
March	Mar	Mar.
April	Apr	Apr.
May	May	May.

June	Jun	Jun.		
July	Jul	Jul.		
August	Aug	Aug.		
September	Sep	Sep.	Sept	Sept.
October	Oct	Oct.		
November	Nov	Nov.		
December	Dec	Dec.		

Note: September is the only month for which a 4-letter abbreviation is valid.

If you omit the month, the default is the current month.

Day Format:

You can specify days of the week in full or with abbreviations:

Sunday	Sun	Sun.		
Monday	Mon	Mon.		
Tuesday	Tue	Tue.	Tues	Tues.
Wednesday	Wed	Wed.	Wednes	Wednes.
Thursday	Thu	Thu.	Thurs	Thurs.
Friday	Fri	Fri.		
Saturday	Sat	Sat.		

You can add words such as 'last' or 'next' before a day of the week to specify a date other than the nearest day of the same name. For example:

Thursday	Specifies the most recent past Thursday, or today, if today is Thursday.
next Thursday	Specifies one week after the most recent Thursday (includes the current day if today is Thursday).
last Thursday	Specifies one week before the most recent Thursday (includes the current day if today is Thursday).

If you omit the day, the default is the current day.

Note: A comma after a day of the week item is ignored.

Time Format:

You specify the time of the day as hour:minute:second, where hour is a number between 0 and 23, minute is a number between 0 and 59, and second is a number between 0 and 59.

Any portion not specified defaults to '0', so a date specification of 03/04/00 defaults to a time of 00:00:00, which is the start of the day (end of the previous day).

SEE ALSO

select, setselector, setvault, unselect, url selector

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EXAMPLES

All of the following examples specify the same calendar date:

Note: The preferred order in the U.S. may be ambiguous compared to other countries usage of DD-MM-YY if the number of either the month or the day is less than 10. For example, a date such as 9/12/00 means September 12, 2000 in the U.S. but December 9, 2000 in many other countries.

```
2000-09-24      # ISO 8601.
00-09-24       # 00 indicates year 2000.
00-9-24        # Leading zeros are not required. For
                # example, '9' is equivalent to '09'.
09/24/00       # U.S. preferred order. See previous note.
24-sep-00      # Three-letter month abbreviations
                # are allowed.
24sep00        # Hyphen and slashes are not required
                # delimiters.
23 sep 00      # Spaces are permitted, but the entire
                # selector list must be placed within double
                # quotes.
```

Note: The following three times represent local time, because no time zone is specified.

```
20:02:0        # 2 minutes after 20 (8 PM)
20:02          # 2 minutes after 20 (8 PM), zero seconds implied
8:02pm         # 2 minutes after 8 PM
```

Note: The following time applies to Eastern U.S. Standard Time because the -0500 means 5 hours behind UTC (Coordinated Universal Time, also known as Greenwich Mean Time) time. The -0500 is a 'time zone item'.

```
20:02-0500     # 2 minutes after 8 PM Eastern U.S. Time
```

Note: You can combine a time and a date as follows:

```
01/24/00 20:02 # 2 minutes after 8 PM on January 24th 2000.
                # Contains spaces, so the entire selector
                # list must be placed within double quotes.
```

Using Wildcards

wildcard

NAME

```
wildcard      - Using wildcard characters in filenames
```

DESCRIPTION

Wildcards are useful when you want to specify a large number of files without having to specify the name of each file. The following wildcards can be used in the filename portion of pathnames and URLs:

?	Matches any single character
[list]	Matches any single character present in list
*	Matches any pattern

Note: In stcl/stclc mode, you need to use a backslash (\) to escape the left bracket ([).

Depending on where wildcards are specified, they are either immediately resolved (static list) or are resolved at the time of an operation (dynamic list).

Exclude lists (-exclude option) are dynamic; wildcards are stored as the actual wildcard characters. When an operation is to be performed on files or directories, each file or directory is checked against the exclude list. If any object matches one of the names in the exclude list, that object is not processed. In addition to specifying -exclude on a per-operation basis, you can also define exclude lists, which apply to all revision-control operations that accept the -exclude option, from the DesignSync graphical interface (Tools->Options->General->Exclude Lists).

Select lists (-selected option) are static; the select list resolves all wildcards to the exact names of the files or directories at the time the select list is created. This static select list can then be used by any revision-control operation that accepts the -selected option. Note that when wildcards are used in a list of objects to be processed by the unselect command, the wildcards are matched against objects in the select list, not against objects in the current directory.

Note: If you use a wildcard with a -recursive option of a DesignSync command, DesignSync first matches that wildcard against the contents of the starting directory, and then processes any matching objects and recurses through any matching directories. DesignSync applies the wildcard only at the starting point, and not throughout the directory hierarchy.

EXAMPLES

This example lists any object in the directory mydir that begins with the 'a', '3', or '#' character, and ends with a '.' followed by any three characters.

```
dss> ls /mydir/[a3#]*.???
```

In stcl, you need to escape the left bracket:

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```
stcl> ls /mydir/[a3#]*.???
```

Example of wildcards in exclude lists:

CVS	Ignore any files or directories named "CVS".
foo.obj	Ignore any files or directories named "foo.obj".
src/foo.obj	Ignore any files named "foo.obj" in a directory named "src".
src/foo*	Ignore any files or directories beginning with "foo" in a directory named "src".

Client Applications

DesSync

DesSync Command

NAME

DesSync - Invokes the DesignSync graphical interface

DESCRIPTION

This command invokes the DesignSync graphical user interface (GUI). You execute DesSync from your operating system shell, not from a Synchronicity client shell (dss/dssc/stcl/stclc). On Windows platforms, you can also invoke DesSync from the Windows Start menu, typically:

Start->Programs->Dassault Systems <VersionNumber>->DesignSync

You can also execute all DesignSync command-line commands from the GUI.

DesignSync Data Manager User's Guide describes the GUI. From the GUI, select Help->Help Topics, or click the book icon in the Tool Bar.

SYNOPSIS

DesSync [-nosplash] [path]

OPTIONS

- [-nosplash](#)
- [-path](#)

-nosplash

-nosplash Prevents the DesignSync splash screen from displaying at startup.

You can also disable the splash screen site-wide or by user:

Site Wide

 Change the last line of SYNC_DIR/bin/DesSync to the include the flag:

```
exec .runjava -jar $SYNC_DIR/classes/dsj.jar -nosplash $*:q
```

User

Create a script with the following contents, and put it in the path ahead of SYNC_DIR/bin:

```
#!/bin/csh -f
exec ${SYNC_DIR}/bin/DesSync -nosplash $*:q
```

Note: If you use spaces in your path arguments to the command, you must place them in quotes.

-path

path The path to the directory/folder that you want DesignSync to expand at startup. You can specify an absolute or relative path. You can also set the DesignSync initial folder through a SyncAdmin option (GUI Options->Initial Folder).

RETURN VALUE

none

SEE ALSO

dss, dssc, stcl, stclc, SyncAdmin

EXAMPLES

- [Example of Starting the DesignSync GUI](#)
- [Example of Starting the DesignSync GUI without the Splash Screen](#)
- [Example of Starting the DesignSync GUI Opened to the Current Directory](#)
- [Example of Starting the DesignSync GUI Opened to Specified Path](#)

Example of Starting the DesignSync GUI

This example invokes the DesignSync GUI:
 % DesSync

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Example of Starting the DesignSync GUI without the Splash Screen

This example invokes the GUI in background mode without displaying the splash screen:

```
% DesSync -nosplash &
```

Example of Starting the DesignSync GUI Opened to the Current Directory

This example invokes the GUI and specifies the current directory as the initial folder:

```
% DesSync .
```

Example of Starting the DesignSync GUI Opened to Specified Path

This example invokes the GUI and specifies a specific project directory as the initial folder:

```
% DesSync /home/projects/chip/alu
```

dss

dss Command

NAME

dss - Invokes the DesignSync shell (dss)

DESCRIPTION

This command invokes the DesignSync shell (dss), a DesignSync command-line interface. dss is one of the DesignSync client applications (along with dssc, stcl, stclc, and the DesSync graphical interface).

You invoke dss from your operating-system (OS) shell in one of the following ways:

- o Specify no arguments to the dss command to enter the dss environment, indicated by the 'dss>' prompt. You remain in the dss shell until you issue the 'exit' command, which returns you to your OS shell.
- o Specify a DesignSync command to execute. DesignSync executes the command, then returns you to your OS shell.

On Windows platforms, you can also invoke `dss` from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <Version>  
->DesignSync Shell (dss)
```

The `dss` and `stcl` clients communicate with a Synchronicity server (`SyncServer`) through `syncd`, the Synchronicity daemon. If you do not already have a `syncd` process running, `dss` attempts to start one.

The `syncd` process can manage multiple `dss/stcl` requests per user, allowing one user to run parallel `dss/stcl` sessions. However, `syncd` handles requests serially, which can cause operations from one `dss` session to be blocked while operations from another session execute. It is therefore recommended that you use `dssc`, the concurrent version of `dss`. The `dssc` and `stclc` clients do not use `syncd`; they communicate directly with a `SyncServer`. The `dssc` and `stclc` clients also have the advantage of supporting more robust command-line editing, including command and filename completion. The `dss` client does support DesignSync command abbreviations, like the `dssc` and `stclc` clients.

The only advantage of `dss` over `dssc` is that `dss` start-up time when a `syncd` is already running is less than `dssc` start-up time. If you frequently run DesignSync commands from your OS shell using the form "`dssc <command>`" instead of staying in the `dssc` shell, use `dss` instead of `dssc`.

If you want to use programming constructs (such as variables, loops, and conditionals) in conjunction with DesignSync commands, use `stcl` or `stclc`, the Synchronicity Tcl clients.

Note: Both `dss` and `stcl` inherit their environments, such as environment variable definitions, from `syncd`. Therefore, you must stop and restart `syncd` (see the `syncdadmin` command) for your `dss` and `stcl` sessions to pick up environment changes.

SYNOPSIS

```
dss [<command>]
```

OPTIONS

none

RETURN VALUE

Returns the success status of the last executed command: zero (0)

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indicates success, non-zero indicates failure. You can specify a return value as an argument to the exit command, which is typically the last command executed.

SEE ALSO

dssc, stcl, stclc, DesSync, syncdadmin, exit

EXAMPLES

- [Example of Invoking DSS \(DesignSync Shell\)](#)
- [Example of Running a DSS Command From OS Shell](#)

Example of Invoking DSS (DesignSync Shell)

This example invokes the DesignSync shell, from which you can enter any number of dss commands. Use 'exit' to return to your OS shell.

```
% dss
Logging to /home/tgoss/dss_01192000_161324.log
V3.0

dss> spwd
file:///home/tgoss/Projects/Sportster/code
dss> exit
%
```

Example of Running a DSS Command From OS Shell

This example executes the 'co' command while remaining in your OS shell.

```
% dss co -nocomment -lock samp.mem
Logging to /home/tgoss/dss_01192000_160958.log
V3.0

Beginning Check out operation...

Checking out: samp.mem : Success - Checked Out version: 1.1 -> 1.2

Checkout command finished...
%
```

dssc

dssc Command

NAME

dssc - Invokes the concurrent version of dss

DESCRIPTION

This command invokes the concurrent version of the DesignSync shell (dssc), a DesignSync command-line interface. dssc is one of the DesignSync client applications (along with dss, stcl, stclc, and the DesSync graphical interface).

You invoke dssc from your operating-system (OS) shell in one of the following ways:

- o Specify no arguments to the dssc command to enter the dssc environment, indicated by the 'dss>' prompt. You remain in the dssc shell until you issue the 'exit' command, which returns you to your OS shell.
- o Specify a DesignSync command to execute. DesignSync executes the command, then returns you to your OS shell.

Note: The UNIX shell does not pass a null string ("") to the DesignSync client when dssc is specified with a DesignSync command argument. If your command requires a null string, use the stcl or stclc client with the -exp option.

On Windows platforms, you can also invoke dssc from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <version>
-> DesignSync Concurrent Shell (dssc)
```

The dssc and stclc clients communicate directly with a Synchronicity server (SyncServer). Unlike dss and stcl, no Synchronicity daemon process (syncd) is used. Because syncd handles requests serially, using dssc eliminates a potential bottleneck when you have multiple shells communicating with a SyncServer. The one advantage dss has over dssc is that dss start-up time when a syncd is already running is less than dssc start-up time. If you frequently run DesignSync commands from your OS shell using the form "dssc <command>" instead of staying in the dssc shell, use dss instead of dssc.

The dssc shell supports command-line editing:

Behavior	Control Keys	Special Keys
Forward one character	Ctrl-f	Right arrow
Back one character	Ctrl-b	Left arrow
Beginning of line	Ctrl-a	Home (only supported for Windows platforms)
End of line	Ctrl-e	End (only supported for Windows platforms)

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Kill rest of line	Ctrl-k	
Kill line	Ctrl-u	Esc
		(Note: The Esc key instead invokes vi command mode if your <EDITOR> environment variable is set to vi or your ~/.inputrc file contains the line 'set editing-mode vi'. Note also that the DesignSync GUI default editor setting does not affect the behavior of the Esc key.)
Delete character	Ctrl-d	Delete
Previous command from command history	Ctrl-p	Up arrow
Next command from command history	Ctrl-n	Down arrow
Exit stcl/dssc shell	Ctrl-d	

The dssc shell also supports command, option, and filename completion, as well as DesignSync command abbreviations. See DesignSync Data Manager User's Guide for details.

If you want to use programming constructs (such as variables, loops, and conditionals) in conjunction with DesignSync commands, use stcl or stclc, the Synchronicity Tcl clients.

SYNOPSIS

```
dssc [<command>]
```

OPTIONS

none

RETURN VALUE

Returns the success status of the last executed command: zero (0) indicates success, non-zero indicates failure. You can specify a return value as an argument to the exit command, which is typically the last command executed.

SEE ALSO

```
dss, stcl, stclc, DesSync, exit
```

EXAMPLES

- [Example of Invoking DSSC \(DesignSync Concurrent Shell\)](#)
- [Example of Running a DSSC Command From OS Shell](#)

Example of Invoking DSSC (DesignSync Concurrent Shell)

This example invokes the DesignSync shell, from which you can enter any number of dss commands. Use 'exit' to return to your OS shell.

```
% dssc
Logging to /home/tgoss/dss_01192000_161324.log
V3.0

dss> spwd
file:///home/tgoss/Projects/Sportster/code
dss> exit
%
```

Example of Running a DSSC Command From OS Shell

This example executes the 'co' command while remaining in your OS shell.

```
% dssc co -nocomment -lock samp.mem
Logging to /home/tgoss/dss_01192000_160958.log
V3.0

Beginning Check out operation...

Checking out: samp.mem      : Success - Checked Out  version: 1.1 -> 1.2

Checkout command finished...
%
```

stcl

stcl Command

NAME

```
stcl          - Invokes the Synchronicity Tcl interface
```

DESCRIPTION

ENOVIA Synchronicity Command Reference - File

This command invokes the Synchronicity Tcl (stcl) shell. stcl is one of the DesignSync client applications (along with dss, dssc, stclc, and the DesSync graphical interface). All DesignSync commands and commercial Tcl commands are available in the stcl environment. Note: To determine the version of Tcl included in your Synchronicity installation's stcl interpreter, use the Tcl 'info tclversion' and 'info patchlevel' commands within an stcl/stclc client shell.

You invoke stcl from your operating-system (OS) shell in one of the following ways:

- o Specify no arguments to the stcl command to enter the stcl shell, indicated by the 'stcl>' prompt. You remain in the stcl shell until you issue the 'exit' command, which returns you to your OS shell.
- o Specify a script name to execute a Tcl script, which is equivalent to sourcing a Tcl script from within the stcl environment. For example:

```
% stcl myscript.tcl
...script executes
%
```

is equivalent to

```
% stcl
stcl> source myscript.tcl
...script executes...
stcl> exit
%
```
- o Specify the -exp option to directly execute one or more DesignSync or Tcl commands. Use a semicolon (;) to separate multiple commands, and surround the entire command string with single quotes.

On Windows platforms, you can also invoke stcl from the Windows Start menu, typically:

```
Start->Programs-> Dassault Systems <version>->
-> DesignSync Tcl Shell (stcl)
```

Use the stcl shell when you need the scripting constructs of Tcl, such as conditionals (if/then/else), loops (while, for, foreach), and variable assignment (set). If you do not need Tcl constructs, dss provides a simpler command environment. With stcl:

- You cannot abbreviate DesignSync commands. For example, you cannot abbreviate 'populate' to 'pop' as you might in dss/dssc/stclc.
- You must use double quotes around objects that contain a semicolon (;), such as vaults, branches, and versions. The semicolon is the Tcl (and therefore stcl) command separator.
- You must specify the -exp option to execute a DesignSync command from the OS shell. Because stcl is primarily a scripting shell, an argument specified without -exp is assumed to be a script. With dss, the syntax for specifying a single command is simpler.

For more information on Tcl, including documentation for Tcl commands, visit these Web sites:

<http://www.tcl.tk>
<http://tcl.sourceforge.net>

The stcl and dss clients communicate with a Synchronicity server (SyncServer) through syncd, the Synchronicity daemon. If you do not already have a syncd process running, stcl attempts to start one.

The syncd process can manage multiple dss/stcl requests per user, allowing one user to run parallel dss/stcl sessions. However, syncd handles requests serially, which can cause operations from one dss/stcl session to be blocked while operations from another session execute. It is therefore recommended that you use stclc, the concurrent version of stcl. The stclc and dssc clients do not use syncd; they communicate directly with a SyncServer. The stclc client also has the advantage of supporting more robust command-line editing, including command and filename completion, as well as command history search and DesignSync command abbreviations.

One advantage of stcl over stclc is that stcl start-up time when a syncd is already running is less than stclc start-up time. If you are frequently running DesignSync commands from your OS shell using the form "stclc -exp '<command>'" instead of staying in the stclc shell, use stcl instead of stclc.

Note: Both stcl and dss inherit their environments, such as environment variable definitions, from syncd. Therefore, you must stop and restart syncd (see the syncdadmin command) for your stcl and dss sessions to pick up environment changes.

SYNOPSIS

```
stcl [--] [-exp '<command>' | <scriptname>]
```

OPTIONS

- [-exp](#)
- [--](#)

-exp

-exp '<command>' Executes one or more commands. Separate multiple commands with a semicolon, and surround the command expression with single quotes. Using double quotes works, but single quotes facilitate including double quotes within the command expression.

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--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

Returns the success status of the last executed command: zero (0) indicates success, non-zero indicates failure (an exception was thrown). You can specify a return value as an argument to the exit command, which is typically the last command executed.

SEE ALSO

stclc, dss, dssc, DesSync, syncdadmin, rstcl, exit

EXAMPLES

- [Example of Invoking the stcl shell](#)
- [Example of Using stcl to Run a Script](#)
- [Example of Invoking Commands in stcl without Using the Shell](#)
- [Example of Invoking Commands that Include a Quoted String](#)

Example of Invoking the stcl shell

```
This example invokes the stcl shell:  
% stcl  
stcl>
```

Example of Using stcl to Run a Script

```
This example invokes a Tcl script that populates a work area:  
% stcl update.tcl
```

Example of Invoking Commands in stcl without Using the Shell

```
This example executes the 'ls' command followed by the 'spwd' command:  
% stcl -exp 'ls;spwd'
```

Example of Invoking Commands that Include a Quoted String

This example shows a command string that includes double quotes:
`% stcl -exp 'ci -keep -comment "Fixed defect 4354" file.c'`

stclc

stclc Command

NAME

`stclc` - Invokes the concurrent version of `stcl`

DESCRIPTION

This command invokes the concurrent version of the Synchronicity Tcl (`stclc`) shell. `stclc` is one of the DesignSync client applications (along with `dss`, `dssc`, `stcl`, and the DesSync graphical interface). All DesignSync commands and commercial Tcl commands are available in the `stcl` environment. Note: To determine the version of Tcl included in your Synchronicity installation's `stcl` interpreter, use the Tcl `'info tclversion'` and `'info patchlevel'` commands within an `stcl/stclc` client shell.

You invoke `stclc` from your operating-system (OS) shell in one of the following ways:

- o Specify no arguments to the `stclc` command to enter the `stclc` shell, indicated by the `'stcl>'` prompt. You remain in the `stclc` shell until you issue the `'exit'` command, which returns you to your OS shell.
- o Specify a script name to execute a Tcl script, which is equivalent to sourcing a Tcl script from within the `stclc` environment. For example:


```
% stclc myscript.tcl
...script executes
%
```

 is equivalent to


```
% stclc
stcl> source myscript.tcl
...script executes...
stcl> exit
%
```
- o Specify the `-exp` option to directly execute one or more DesignSync or Tcl commands. Use a semicolon (`;`) to separate multiple commands, and surround the entire command string with single quotes.

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On Windows platforms, you can also invoke `stclc` from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <version>
->DesignSync Concurrent Tcl Shell (stclc)
```

Use the `stclc` shell when you need the scripting constructs of Tcl, such as conditionals (if/then/else), loops (while, for, foreach), and variable assignment (set). If you do not need Tcl constructs, `dssc` provides a simpler command environment. With `stclc`:

- You must use double quotes around objects that contain a semicolon (;), such as vaults, branches, and versions. The semicolon is the Tcl (and therefore `stclc`) command separator.
- You must specify the `-exp` option to execute a DesignSync command from the OS shell. Because `stclc` is primarily a scripting shell, an argument specified without `-exp` is assumed to be a script. With `dssc`, the syntax for specifying a single command is simpler.

For more information on Tcl, including documentation for Tcl commands, visit these Web sites:

```
http://www.tcl.tk
http://tcl.sourceforge.net
```

The `stclc` and `dssc` clients communicate directly with a Synchronicity server (SyncServer). Unlike `dss` and `stcl`, no Synchronicity daemon process (`syncd`) is used. Because `syncd` handles requests serially, using `stclc` eliminates a potential bottleneck when you have multiple shells communicating with a SyncServer. The one advantage `stcl` has over `stclc` is that `stcl` start-up time when a `syncd` is already running is less than `stclc` start-up time. If you are frequently running `stcl` commands from your OS shell using the form "`stclc -exp '<command>'`" instead of staying in the `stclc` shell, use `stcl` instead of `stclc`.

The `stclc` shell supports command-line editing:

Behavior	Control Keys	Special Keys
-----	-----	-----
Forward one character	Ctrl-f	Right arrow
Back one character	Ctrl-b	Left arrow
Beginning of line	Ctrl-a	Home (only supported for Windows platforms)
End of line	Ctrl-e	End (only supported for Windows platforms)
Kill rest of line	Ctrl-k	
Kill line	Ctrl-u	Esc
		(Note: The Esc key instead invokes vi command mode if your <EDITOR> environment variable is set to vi or your ~/.inputrc file contains the line 'set editing-mode vi'. Note also that the

Delete character	Ctrl-d	DesignSync GUI default editor setting does not affect the behavior of the Esc key.) Delete
Previous command from command history	Ctrl-p	Up arrow
Next command from command history	Ctrl-n	Down arrow
Exit stclc/dssc shell	Ctrl-d	

The stclc shell also supports command, option, and filename completion, as well as command history search and DesignSync command abbreviations. See DesignSync Data Manager User's Guide for details.

The stclc shell also supports Unix commands; if you enter a Unix command which is not also an stcl function, the interpreter automatically calls the Unix command. In this way, you can execute Unix programs without using the Tcl 'exec' command. Note: If you do not want Unix commands to be executed automatically, you can set the global variable, `auto_noexec`, to disable this behavior. For details, refer to Tcl documentation of the Tcl 'unknown' command.

SYNOPSIS

```
stclc [--] [-exp '<command>' | <scriptname>]
```

OPTIONS

- [-exp](#)
- [--](#)

-exp

`-exp '<command>'` Executes one or more commands. Separate multiple commands with a semicolon, and surround the command expression with single quotes. Using double quotes works, but single quotes facilitate including double quotes within the command expression.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

Returns the success status of the last executed command: zero (0) indicates success, non-zero indicates failure (an exception was thrown). You can also specify a return value as an argument to the exit command, which is typically the last command executed.

A failure results when an exception is thrown.

SEE ALSO

stcl, dss, dssc, DesSync, rstcl, exit

EXAMPLES

- [Example of Invoking the stclc shell](#)
- [Example of Invoking a Tcl Script](#)
- [Example of Invoking Commands with stclc](#)
- [Example of Invoking Commands including a Quoted String](#)

Example of Invoking the stclc shell

```
This example invokes the stclc shell:  
% stclc  
stcl>
```

Example of Invoking a Tcl Script

```
This example invokes a Tcl script that populates a work area:  
% stclc update.tcl
```

Example of Invoking Commands with stclc

```
This example executes the 'ls' command followed by the 'spwd' command:  
% stclc -exp 'ls;spwd'
```

Example of Invoking Commands including a Quoted String

```
This example shows a command string that includes double quotes:  
% stclc -exp 'ci -keep -comment "Fixed defect 4354" file.c'
```


Client Shell Control

alias

alias Command

NAME

alias - Creates, shows, or removes a command alias

DESCRIPTION

This command defines an alias for a command or series of commands. The alias persists from one DesignSync session to the next unless you use the `-temporary` option.

The symbols `$1` through `$n` provide placeholders for argument substitution. You can create an alias for a sequence of commands. Use the symbol `'&&'` to separate commands on the command line.

You cannot use the alias command to redefine the behavior of built-in DesignSync commands. For example, if you define an alias called `'co'`, DesignSync ignores the alias definition when you use the `'co'` command.

Alias definitions remember the mode, `dss/dssc` or `stcl/stclc`, in which they were defined. For example, if while in `stcl/stclc` mode you create an alias containing Tcl constructs, the alias will always execute in `stcl/stclc` mode even if you change to `dss/dssc` mode. Aliases provide the mechanism for you to define new `stcl` commands and make them available from `dss/dssc`.

SYNOPSIS

```
alias [-args <#>] {-list | -delete <alias_name> | <alias_name>
{<cmd> [&& <cmd> ...]}} [-temporary] [--]
```

OPTIONS

- [-args](#)
- [-delete](#)
- [-list](#)
- [-temporary](#)
- [--](#)

-args

`-args <#>` Number of arguments accepted by the alias. A value of "*" represents any number of arguments.

-delete

`-delete <name>` Delete the specified alias.

-list

`-list` Display a list of known aliases.

-temporary

`-temporary` Temporarily create or delete an alias. Without the `-temporary` option, the alias definition or deletion persists through future sessions.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

EXAMPLE

This example creates a command called 'lss', which lists a directory using the "-report status" switch to report whether objects are up to date.

```
stcllc> alias -args * -- lss ls -report status {$*}
```

exit

exit Command

NAME

exit - Ends a DesignSync session, or an stcl script

DESCRIPTION

This command ends your DesignSync shell (dss/dssc/stcl/stclc) session, or an stcl script. This command is the Tcl exit command with one extension: the ability to bring down syncd using the `-daemon` option.

Note that 'exit' within a script not only stops script execution, but also exits your DesignSync shell session. To avoid this behavior, stcl programmers should use 'return' and 'error' in their scripts instead of 'exit'.

You can optionally specify an integer exit status to pass to the parent process (OS shell). The default exit status is 0, which indicates success.

SYNOPSIS

```
exit [-daemon [-force]] [<status>]
```

OPTIONS

- [-daemon](#)
- [-force](#)

-daemon

`-daemon` Brings down syncd when exiting stcl or dss. This option has no effect when specified from the DesignSync graphical interface, stclc, or dssc, none of which communicates with syncd. The syncd process will not exit if there is another active dss/stcl session connected to syncd or if syncd is locked (see the 'syncdadmin lock' command) unless you specify `-force`.

-force

`-force` Valid only when `-daemon` is specified, forces `syncd` to exit even if there is another active `dss/stcl` session connected to `syncd` or if `syncd` is locked (see the `'syncdadmin lock'` command).

RETURN VALUE

The return value is not of the `'exit'` command itself, but of the shell or script that `'exit'` is terminating. The default is `'0'` (success), but you can specify an alternative value using the `status` argument.

SEE ALSO

`syncdadmin`

EXAMPLES

- [Example of Exiting a dssc Session](#)
- [Example of Exiting a stcl Session and Stopping the syncdaemon](#)

Example of Exiting a dssc Session

This example exits a `dssc` session. The default exit status is `0` (success).

```
dss> exit
% echo $status
0
%
```

Example of Exiting a stcl Session and Stopping the syncdaemon

This example exits an `stcl` session, returns a failure exit status, and brings down `syncd`.

```
stcl> exit -daemon 1
% echo $status
1
%
```

log

log Command

ENOVIA Synchronicity Command Reference - File

NAME

log - Logs DesignSync commands and results to a file

DESCRIPTION

This command controls the logging of DesignSync commands and command output. Use the run command to execute log files (no editing is needed) in order to repeat a series of commands.

The log file is put in your home directory (as defined by \$HOME on UNIX or your user profile, which is managed by the User Manager tool, on Windows platforms) unless you change the default using the -defaultdir option. Note that the run command and the log command use the same default directory to locate files.

The default log filename is dss_<date>_<time>.log, where <date> and <time> reflect when the log file was created. For example, a log file of dss_04052000_111258.log was created on April 5, 2000, at 11:12:58 AM. The time stamp ensures filename uniqueness so that log files from previous DesignSync sessions are retained. If you prefer to always use the same filename so that you do not collect log files from past sessions, you can do so with the log command. If a file with the same name as the specified log file already exists, then it is overwritten without warning. If you do not specify an extension for the log file, a '.log' extension is used by default.

The default file size for the log file is 10MB. If the log file grows beyond the maximum log file size, the contents of the log file is moved to dss_<date>_<time>.bak.log, the log file is zeroed out, and the client continues logging. This process repeats every time the session log limit is reached. DesignSync only maintains one backup file, which essentially has the same maximum size as the log file. For information on changing the default log size, see the DesignSync Data Manager Administrator's Guide.

To prevent large numbers of dss_<date>_<time>.log files from collecting in your log directory, DesignSync automatically deletes log files that are older than 2 days. If more than 20 log files remain, DesignSync deletes all log files older than 1 hour. If you want to retain a log file indefinitely, you must move or rename the file.

If you are an administrator, you can change the logging settings for all users on a LAN or for all users of a particular project. See "The Logging Tab" topic in SyncAdmin online help for more information.

SYNOPSIS

```
log [-defaultdir <dir>] [-off | -on] [-nooutput | -output] [-state]
    [--] [<logFileName>]
```

ARGUMENTS

- [Log File Name](#)

Log File Name

<logFileName> Optionally enter a log file name. If no name is specified, DesignSync uses the default log name, as detailed in the DESCRIPTION section.

OPTIONS

- [-defaultdir](#)
- [-nooutput](#)
- [off](#)
- [-on](#)
- [-output](#)
- [-state](#)
- [--](#)

-defaultdir

-defaultdir <dir> Set the default log directory. This value is saved between sessions. If you have not set a default log directory, then your home directory is used.

-nooutput

-nooutput Record only the commands being executed. The default is for logging of both commands and command output (-output).

off

-off Turn logging off. When you specify this option, information is displayed indicating not only that logging is disabled, but also the state of logging if it were enabled (what is being logged, the current log file, and the default log directory).

ENOVIA Synchronicity Command Reference - File

-on

-on Turn logging on. Turning logging off and then back on appends to the current log file if you do not specify a log filename.

-output

-output Record command results as comments in addition to the commands themselves. This behavior is the default.

-state

-state Display current logging state. Shows what log file is currently in use, whether logging is enabled, how much detail is being logged, and the name of the default log file directory. Specifying the log command without options has the same behavior as specifying -state.

--

-- Indicates that the command should stop looking for command options. Use this option when you specify a log file whose name begins with a hyphen (-).

RETURN VALUE

none

SEE ALSO

run

EXAMPLES

- [Example of Setting the Default Log File Directory](#)
- [Example Showing the Current Logging State](#)

Example of Setting the Default Log File Directory

This example sets the default directory for the creation of log files for this and future sessions, and specifies the log file for the current session as 'pcimaster.log'. Specifying a default log directory and a log file are mutually exclusive operations, so two log commands must be used:

```
dss> log -defaultdir c:\Logs
dss> log pcimaster.log
```

Example Showing the Current Logging State

This example displays the current logging state:

```
dss> log -state      (-state is optional)
Logging: ON
Output: Commands Only
LogFile: c:\Logs\pcimaster.log
Default Logging Dir: c:\Logs
```

more

more Command

NAME

```
more                - Controls the paging of command output
```

DESCRIPTION

This command controls the paging of command output. You can precede any DesignSync command with "more" to prevent the command output from scrolling off the window. Output pauses after the number of lines determined as follows:

1. As specified by the -lines option.
2. If -lines is not specified, as determined by the size of your window.
3. If "more" is unable to determine the size of your window (for example, you are using a telnet session), the default is 20 lines.

To see the next block of output, press the Return (Enter) key. To stop the "more" command, use Ctrl-c; the command whose output you are paging may or may not be interrupted depending on if and when the command checks for interrupts.

Important: The command whose output you are paging is suspended when the output is paused. The operation continues when you press the Return key.

SYNOPSIS

```
more [-lines <n>] [--] <command>
```

OPTIONS

- [-lines](#)
- [--](#)

-lines

`-lines <n>` Specifies the number of lines to display in the window before pausing. A value of "0" means scrolling is not controlled; all output is displayed without pauses.

If you do not specify `-lines`, the "more" command defaults to the number of lines that can be displayed in your window. In cases where "more" cannot determine your window size, the default is 20 lines.

Note: You must specify `-lines` before the command you are executing. For example, "more ls -lines 5" is invalid and must instead be "more -lines 5 ls".

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

EXAMPLES

- [Example Showing More With a Specified Amount of Lines](#)
- [Example Showing More with the Default Amount of Lines](#)

Example Showing More With a Specified Amount of Lines

The following example pauses the "ci" operation after each 15 lines of output.

```
dss> more -lines 15 ci -nocomment -recursive .
```

Example Showing More with the Default Amount of Lines

The following example lists all objects in the current folder, pausing after each window of output. For example, if your window size is 40 lines, then each block of output is 40 lines.

```
dss> more ls
```

```
...
```

prompt

prompt Command

NAME

```
prompt          - Sets the dss/dssc command-line prompt
```

DESCRIPTION

This command sets the dss or dssc shell command-line prompt. The prompt can be either the URL of the current working directory, or the default prompt of 'dss>'.

Note: You can only specify the prompt for dss and dssc shells, not for stcl or stclc shells.

SYNOPSIS

```
prompt [-default | -url]
```

OPTIONS

- [-default](#)
- [-url](#)

-default

ENOVIA Synchronicity Command Reference - File

`-default` Sets the prompt to the string 'dss>'.

-url

`-url` Sets the prompt to the current working directory URL. If you change working directories, the prompt automatically updates.

RETURN VALUE

none

SEE ALSO

dss, dssc, scd, spwd

EXAMPLES

This example demonstrates the prompt command:

```
dss> prompt -url
file:///home/goss/Projects/Sportster/code> scd ..
file:///home/goss/Projects/Sportster> prompt -default
dss>
```

rstcl

rstcl Command

NAME

`rstcl` - Runs server-side stcl scripts

DESCRIPTION

This command runs server-side stcl scripts from DesignSync clients. You can also execute server-side scripts by passing a URL to the SyncServer from your browser. See the 'server-side' topic or the ProjectSync User's Guide for details.

You run client-side scripts using the DesignSync run command or the

Tcl source command. The choice of whether to implement a script as client-side or server-side depends on what you are trying to accomplish. You can use client scripts to automate user tasks or implement enhancements to the built-in user command set. You create server-side scripts for any of the following reasons:

- To set server-wide policies (such as triggers or access controls)
- To create server customizations (such as customized ProjectSync panels or data sheets)
- To reduce the amount of client/server traffic that a client-side script accessing vault data would require
- To execute commands that are only available as server-side commands (such as 'access reset' and most ProjectSync commands)

When you execute a script with `rstcl`, the SyncServer looks for the specified script in the following locations (in the order listed):

1. Server-specific Tcl scripts (UNIX only):
`<SYNC_CUSTOM_DIR>/servers/<host>/<port>/share/tcl`
2. Site-wide Tcl scripts:
`<SYNC_CUSTOM_DIR>/site/share/tcl`
3. Enterprise-wide Tcl scripts:
`<SYNC_CUSTOM_DIR>/enterprise/share/tcl`
4. Synchronicity-provided Tcl scripts:
`<SYNC_DIR>/share/tcl`

Do not put scripts in `<SYNC_DIR>/share/tcl` because this directory is reserved for Synchronicity scripts, and your scripts may be overwritten when you upgrade your Synchronicity software.

`rstcl` requests mutually exclude each other. I.e. They all acquire the same exclusive lock, named `smdSrvrMetaDataLock`. If you analyze your script and know it to be safe to run in parallel with other scripts, you may release the exclusive lock from within your script by using `'url syslock -release smdSrvrMetaDataLock'`. If your script reads or writes an external file, it is probably not parallelizable. `rstcl` requests and `panel=` requests (invoked via ProjectSync) never mutually exclude each other; `panel` requests are entirely independent of `rstcl`'s lock.

Notes:

- If you make modifications to your script, use the ProjectSync Reset Server menu option to force the SyncServer to reread your script.
- When specifying 'sync:' URLs within scripts that are run on the server, do not specify the host and port. For example, specify:
`sync:///Projects/Asic`
not
`sync://holzt:2647/Projects/Asic`
Because the script is run on the server itself, `host:port` information is unnecessary and is stripped out by the server, which may lead to incorrect behavior during object-name comparisons.
- The `SYNC_ClientInfo` variable is not defined when running

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server-side scripts with `rstcl --` you must use the browser-based invocation. All other `SYNC_*` variables (`SYNC_Host`, `SYNC_Port`, `SYNC_Domain`, `SYNC_User`, and `SYNC_Param` if parameters are passed into the script) are available when using `rstcl`.

SYNOPSIS

```
rstcl [-output <file>] -server <serverURL> -script <script>
      [-urlparams <name>=<value>[&<name>=value[...]]]
```

OPTIONS

- [-output](#)
- [-server](#)
- [-script](#)
- [-urlparams](#)

-output

`-output <file>` Specifies the file to which script output is written. If omitted, the output is displayed.

-server

`-server <serverURL>` Specifies the URL of the SyncServer that will execute the script. Specify the URL as follows:
`sync://<host>[:<port>]`
where 'sync://' is required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (if omitted, defaults to 2647/2679). For example, you might specify the following:
`-server sync://serv1.abco.com:1024`

-script

`-script <script>` Specifies the name of the script to be executed. This script must be in one of the Tcl script directories on the SyncServer specified by the `-server` option. The Tcl directories are (in the order in which they are searched):

1. Server-specific Tcl scripts (UNIX only):
`<SYNC_DIR>/custom/servers/<host>/<port>/share/tcl`

2. Site-wide Tcl scripts:
<SYNC_DIR>/custom/site/share/tcl
3. Enterprise-wide Tcl scripts:
<SYNC_DIR>/custom/enterprise/share/tcl
4. Synchronicity-provided Tcl scripts:
<SYNC_DIR>/share/tcl

The script can contain Tcl constructs and Synchronicity commands, including server-side only commands.

-urlparams

`-urlparams <params>` Specifies the parameters that are passed into the script. Specify each parameter as a name/value pair separated by an equal sign (=), and separate multiple parameters with an ampersand (&):

```
<param1>=<value1>&<param2>=<value2>...
```

For example:

```
-urlparams Name=Joe&IDNum=1234
```

Parameters are passed into the script using the global variable `SYNC_Parm`, which is a Tcl array. The array keys are the names of the parameters. To access the value of a parameter from within the script, use the following syntax:

```
$SYNC_Parm(<param_name>)
```

For example, the following Tcl line would display the value of the 'name' parameter:

```
puts "The name is: $SYNC_Parm(name)"
```

Note: If any parameter name or value contains whitespace, surround the entire parameter list with double quotes. For example:

```
-urlparams "name=Joe Black&IDNum=1234"
```

RETURN VALUE

- o If `-output` is not specified, returns (and displays) the script output.
- o If `-output` is specified, output is written to the specified file and the return value is an empty string.

If the script has an error, a Tcl exception is thrown from the client side and the Tcl stack trace is output. Proper usage for handling exceptions would be to provide an exception handler

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when you use the rstcl command:

```
if [catch {rstcl -server ...} result] {
    # Something bad happened.
    # 'result' contains the output generated by the script
    # prior to the error and the Tcl stack trace.
} else {
    # All is fine.
    # 'result' contains whatever output is generated
    # by the script.
}
```

If the `-output` option to the `rstcl` command was specified, then the exception is still thrown, but the script output and Tcl stack trace are written to the specified output file.

SEE ALSO

server-side, run, url syslock

EXAMPLES

A common use of `rstcl` is to run the `'access reset'` command, which restarts the `SyncServer`. See the `'access reset'` command for details.

Most `ProjectSync`-related scripts must be run on the server and could therefore use `rstcl`. This example creates a `ProjectSync` note using the `'note create'` command, which is a server-side only command, and displays the URL of the new note. This output is then returned to the `rstcl` command in `callNoteCreate.tcl`.

1. In the `<SYNC_CUSTOM_DIR>/site/share/tcl` directory on the `holzt:2647` server is the `noteCreate.tcl` script, which contains the following:

```
set noteUrl [note create -type Note \
    [list Title $SYNC_Parm(title)] [list Body $SYNC_Parm(body)] \
    [list Author $SYNC_Parm(author)] ]
puts "$noteUrl"
```

2. On the client side, the `callNoteCreate.tcl` script provides an exception catcher in case the `noteCreate.tcl` script fails.

```
if [catch {rstcl -server sync://holzt:2647 -script noteCreate.tcl \
    -urlparams "author=Goss&title=This is a note.&body=New note."} \
    result] {
    puts "Couldn't create the note!"
} else {
    puts "Created note: $result"
}
```

3. From `stcl`, run the client script:

```
stcl> source callNoteCreate.tcl
Created note: sync:///Note/SyncNotes/Note/3
```

You could also run the `rstcl` command directly from the command line (no exception catcher). Doing so creates a second note:

```
stcl> rstcl -server sync://holzt:2647 -script noteCreate.tcl \
  -urlparams "author=Goss&title=Another note.&body=New note."
sync:///Note/SyncNotes/Note/4
```

record

record Command

NAME

`record` - Captures command output

DESCRIPTION

This command captures the output from a command and stores it in a variable. `stcl` programmers can use this command as a debugging aid.

The two required arguments to the `record` command are the command to execute and the variable in which to store the command output. Note that `'record'` differs from `'set'` in that `'record'` stores the command output whereas `'set'` would store the command's return value (see Examples for an illustration).

The `record` command returns or throws whatever the command being executed produces. Therefore, replacing any command with a corresponding `record` command does not affect script execution.

The `record` command runs in transaction mode and caches data about a file in memory. Subsequent operations may use the cached data, even when file has been updated on the disk.

SYNOPSIS

```
record <command> <variable>
```

OPTIONS

none

RETURN VALUE

Same as the command being executed.

SEE ALSO

puts

EXAMPLES

- [Example of Recording to a Variable](#)
- [Example Showing Typical Usage of Record](#)
- [Example Showing Using Command Arguments with Record](#)

Example of Recording to a Variable

The following example stores the result of an ls command in the variable 'listing':

```
stcl> record ls listing
```

Example Showing Typical Usage of Record

This example shows how grouping operators are commonly used with the record command:

```
catch {record {ci -new -keep -rec -com $comment *.cds} text} ret
```

Example Showing Using Command Arguments with Record

This example demonstrates the different behavior of the 'record' command:

```
stcl> record {co -lock -nocom top.v} x  
{Objects succeeded (1)} {}  
stcl> puts $x
```

Beginning Check out operation...

Checking out: top.v : Success - Checked Out version: 1.1 -> 1.2

Versus the 'set' command:

```
stcl> set x [co -lock -nocom top.v]
```

Beginning Check out operation...

```
Checking out: top.v : Success - Checked Out version: 1.1 -> 1.2
{Objects succeeded (1)} {}
stcl> puts $x
{Objects succeeded (1)} {}
stcl>
```

Workspace Setup

Enterprise DesignSync Development Area

sda

sda Command

sda - Synchronicity development area commands

DESCRIPTION

The sda commands allow you to manage your DesignSync development areas. For more information on development areas, see the Enterprise Design Administration User's Guide.

Note: The sda commands must be run from your OS shell, not from within the DesignSync interfaces.

SYNOPSIS

```
sda <sub_command> [<sub_command_options>]
```

```
Usage: sda [cd|gui|join|ls|mk|rm]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

sda cd, sda gui, sda join, sda ls, sda mk, sda rm

EXAMPLES

See specific "sda" commands.

sda cd

sda cd Command

NAME

sda cd - Change development area and launch a tool command

DESCRIPTION

This command allows the user to launch a tool from a development area they have created via "sda mk" or joined via "sda join". The tool runs using the development setting defined for the area.

The sda cd command performs the following sequence of actions:

1. If the -update option is selected, updates the development instance directory associated with an external development area.
2. Sets up the environment by setting the following environment variables:
 - o SYNC_DEVAREA_DIR - set to the requested development area directory.
 - o SYNC_DEVAREA_TOP - set to the leaf name of the top module or directory in the development area.
 - o SYNC_DEV_ASSIGNMENT - set to the assignment associated with the development area.
 - o SYNC_DEVELOPMENT_DIR - set to the top of the development instance directory.
 - o SYNC_PROJECT_CFGDIR - set to the directory holding the development setting for the assignment associated with the development area.
 - o SYNC_WS_DEVAREA_TOP - set to the leaf name of the top module or directory in the development area. This variable can then be used for the starting directory in any commands you construct within the specified tool.
3. Runs all of the set up scripts defined for the tools associated with the development area. Running all the scripts is required to support inter-tool dependencies and shell tools.
 Note: When a shell is defined as a tool, it should be defined to ignore the startup script for the shell. Any aliases, etc. defined in the startup script will not be available; however when a tool suite is defined, the admin can specify a script with the desired environment settings.
4. Sets the current directory for the tool to the starting directory. The starting directory is the directory defined in the tool's definition. If no starting directory is specified, then the directory defined in the tool suite is used. If no starting

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directory is specified in the tool suite either, the development area is used.

The starting directories can be specified with environment variables and may be relative to the development area.

5. Starts the requested tool. If the tool is graphical, the tool is spawned (detached) from sda. If the tool is non-graphical, on UNIX, the tool runs in the same shell as sda.

Note: When a non-graphical tool is started, the sda process ends.

If you run the command without specifying a development area or a tool, or the user specified an ambiguous argument, the command starts in interactive mode. In interactive mode, the user is prompted for the command arguments and options needed. Any arguments specified with the `-gui` command option are passed to the GUI and the appropriate fields are selected on the "Change Area" tab.

SYNOPSIS

```
sda cd [<area_name>] [<tool>] [-development <name>] [-gui]
      [-suite <suite_name>] [-[no]update] [-version <version>]
```

ARGUMENTS

- [Development Area Name](#)
- [Tool](#)

Development Area Name

`area_name` The development area name of the DesignSync Development. This argument is required and the development area must already exist.

Tool

`tool` The tool name specified must be a tool that is defined for use with the specified development area. The list of available tools can be viewed from the development instance for the assignment associated with the area.

Note: When a shell is defined as a tool, it should be defined to ignore the startup script for the shell. Any aliases, etc. defined in the startup script will not be available.

OPTIONS

- [-development](#)
- [-gui](#)
- [-suite](#)
- [-\[no\]update](#)
- [-version](#)

-development

`-development <name>` Specify the name of the development if the area name is not unique for the user. Area names are unique within a development for a given user, but are not required to be unique across all developments.

-gui

`gui` Starts the sda graphical user interface mode with the "Change Area" tab selected.

If this option is used with the tool argument, the tool argument is silently ignored.

-suite

`-suite <suite>` Specify the suite name for the tool suite, if the tool name is not unique across all tool suites for the development assignment.

-[no]update

`-[no]update` Specifies whether the development instance definition should be updated, if it is an external area.

`-noupdate` does not update the external development instance from the server before setting the environment variables for the area and starting the tool. (Default when the development setting is 'Mirror=False')

`-update` performs the update of the external area before performing any other actions. (Default when 'Mirror=True')

If the area is not an external area and this option is specified, the tool exits without launching the tool.

Note: If `-update` is explicitly specified, and no

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tool is specified, DesignSync assumes the desired action is the update and does not prompt for tool in interactive mode.

-version

-version <version> Specify the version number of the tool suite if the tool suite name is not unique within the development assignment. This option must be specified if there are multiple tools with the same name in multiple tool suites with the same name.

RETURN VALUE

There is no TCL return value for this command.

SEE ALSO

sda gui, sda join, sda ls, sda mk, sda rm

EXAMPLES

- [Running sda cd in Interactive Mode](#)
- [Running sda cd in non-interactive mode](#)

Running sda cd in Interactive Mode

This example runs sda cd in interactive mode, supplying no arguments. It is run from a Windows client and launches the DesignSync GUI which is configured as a tool for this development area.

Note that the list of areas is prefixed with the development name for ease of identification.

```
C:\workspaces\chipNZ214> sda cd
Logging to C:\Users\fyl\dss_11042013_100431.log
V6R2014x
```

```
Which development area would you like to work with?
```

```
[1] (Chip-NZ214) documenter-1_rmsith
[2] (Chip-QR2) verifier-1_thopkins
[3] (Chip-NZ214) developer-1_rsmith
[E] <EXIT sda>
```

```
Select the number preceding the development area name or 'E' to exit
[1-3,E]: 1
```

```
Synchronizing the local development with the server ...  
Contacting host: serv1.ABCo.com:2164 ...  
Synchronization complete
```

```
Which tool would you like to launch?
```

```
[1] Authoring Tool
```

```
[2] DesSync
```

```
[E] <EXIT sda>
```

```
Select the number preceding the tool name or 'E' to exit (1-2,E): 2
```

```
c:\workspaces\chipNZ214>
```

Running sda cd in non-interactive mode

This example specifies the area and tool and the -nouupdate option. Note that it does not enter interactive mode, nor does it attempt to synchronize the development area. This example automatically launches the GUI tool, without requiring the -GUI option because of the way the tool is defined.

```
C:\workspaces\chipNZ214> sda cd Chip-NZ214 DesSync -nouupdate  
Logging to C:\Users\fyl\dss_11042013_103110.log  
V6R2014x  
[The DesignSync Development Area Manager launches in separate window]  
c:\workspaces\chipNZ214>
```

sda gui

sda gui Command

NAME

```
sda gui          - Start the sda area management graphical user  
                  interface
```

DESCRIPTION

This command is used to start the graphical user interface sda tool. The sda GUI tool is a tabbed dialog based tool for development area management. When the GUI is opened from this command, it displays the most recently used tab.

For information on using the sda GUI tool, see the Enterprise DesignSync Administration User's Guide

Note: If you are running this from UNIX, you must use an environment that supports running graphical clients.

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SYNOPSIS

```
sda gui
```

RETURN VALUE

This command has no TCL return value. If the GUI is unable to launch, the command returns an appropriate error message.

SEE ALSO

```
sda cd, sda join, sda ls, sda mk, sda rm
```

EXAMPLES

- [Starting sda GUI in the Background](#)

Starting sda GUI in the Background

This example starts the sda GUI as a background process on UNIX, leaving the terminal free to type additional commands if needed.

```
> sda GUI &
```

sda join

sda join Command

NAME

```
sda join          - Allow the user to join an existing development area
```

DESCRIPTION

This command allows the user to join an existing eligible shared area of a development. Eligible shared areas are located by finding the participating development servers, looking at the developments on those servers and identifying the shared areas that have a local path and have not already been joined. For information on defining a development server, see the DesignSync Data Manager Administrator's Guide.

If you don't specify arguments to `sda join`, it starts in interactive mode, prompting you for any information needed that was not provided on the command line.

SYNOPSIS

```
sda join [<area_name>] [-development <name>] [-gui]
```

ARGUMENTS

- [Area Name](#)

Area Name

`area_name` The name of the DesignSync development area. The area must already exist. If the area is not provided, or cannot be uniquely identified from the name, you are prompted for the area name in interactive mode.

If an invalid area is specified, and the `-gui` option is used, the GUI starts on the "Join Area" tab and allows you to select a valid Area.

OPTIONS

- [-development](#)
- [-gui](#)

-development

`-development <name>` Specify the development name if the area name is not unique for the user. Area names are unique within a development for a given user, but are not required to be unique across all developments.

-gui

`-gui` Starts the `sda` graphical user interface mode with the "Join Area" tab selected.

RETURN VALUE

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There is no TCL return value for this command. If the command fails, DesignSync returns an appropriate error.

SEE ALSO

sda cd, sda gui, sda ls, sda mk, sda rm

EXAMPLES

sda ls

sda ls Command

NAME

```
sda ls          - List the areas or developments relevant to the
                  user
```

DESCRIPTION

This command lists the areas or developments that are currently active for the user, or registered with the development servers defined in SyncAdmin. For more information on defining development servers, see the DesignSync Data Manager Administrator's Guide.

SYNOPSIS

```
sda ls [-area | -development] [-gui] [-noheader]
        [-report brief | normal | verbose]
```

OPTIONS

- [-area](#)
- [-development](#)
- [-gui](#)
- [-noheader](#)
- [-report](#)

-area

-area Show all of the areas, sorted by name, that are currently active for the user.

-development

-development Show all the developments available from the development servers associated with the distribution. Development servers are associated with a distribution using SyncAdmin.

-gui

-gui Starts the sda graphical user interface mode with the "List Areas," or "List Developments" tab selected.

-noheader

-noheader Specifies omitting column headers for the command line reports. This option is silently ignored when the **-gui** option is specified. If this option is not specified, the command line reports include column headers.

-report

-report brief|normal|verbose Specifies the amount of output supplied by the command.

When **-area** is specified:

- report brief** - lists area names.
- report normal** - lists the area name, development name, and assignment associated with the area.
- report verbose** - includes all the information from **-report normal** and the path to the area directory, development's local instance directory, and status (enabled, disabled, or deleted.)

When **-development** is specified:

- report brief** - lists development names.
- report normal** - lists the development name and its supported assignments.
- report verbose** - includes all the information in **-report normal** and the data URL, selector, development path, server URL, and status (enabled, disabled, or deleted.)

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RETURN VALUE

This command does not return any TCL values. If the command succeeds, it displays the list of development areas. If the command fails, it fails with an appropriate error.

SEE ALSO

sda cd, sda gui, sda join, sda mk, sda rm

EXAMPLES

- [Example Showing the List of Development Areas](#)

Example Showing the List of Development Areas

This example shows a list of the defined development areas. Note that this command runs at the shell, not in the dss/stcl environment.

```
$> sda ls
Logging to /home/rsmith/dss_08112016_103913.log
3DEXPERIENCER2021x
```

Development	Development Area	Assignment
-----	-----	-----
ChipNZ214	documenter-1_rsmith	QATester

sda mk

sda mk Command

NAME

sda mk - Make a new development area

DESCRIPTION

- [Running in Interactive Mode](#)
- [Tips for Naming Your Development Area](#)
- [External Development Areas](#)
- [Note for File-Based Development](#)

This command creates a new development area in the specified location and registers the development area with the development server managing the development. The development server and the development the area uses must already exist. For more information on defining a development server, see the DesignSync Data Manager Administrator's Guide. For more information on development areas, see the Enterprise DesignSync Administrator's Guide.

The `sda mk` command performs the following sequence of actions.

- o Creates the development area directory, if necessary.

- o Sets up the environment by creating environment variables to point to the new development area. The environment variables are:
 - * `SYNC_DEVAREA_DIR` - the new development area directory.
 - * `SYNC_DEVELOPMENT_DIR` - the top-level of the development instance directory.
 - * `SYNC_PROJECT_CFGDIR` - the setting for the assignment associated with the development area.
- o Populates the development area with the development's data using the development URL from the development instance definition; the selector from the assignment associated with the development area; the version of DesignSync tools specified with the assignment; and any settings specified in the setting for the assignment, for example, the fetch state setting. The development data is populated into a sub-directory of the development area named by using the leaf name of the containing server data. For more information see the appropriate note for your usage model.

Note: For Windows development areas, the fetch state is automatically set to `-get mode (Fetch Unlocked Copies)`.

Note: Server access may require a username and password. If your password for the server is not already saved by the client, you may be prompted to enter it in order to access the server data. For more information, see the notes section.

For information on defining a development server, see the DesignSync Data Manager Administrator's Guide.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

Running in Interactive Mode

Running `sda mk` with no arguments causes the command to enter the interactive mode. In interactive mode, you are prompted for the command arguments and options needed.

If you specify ambiguous or incomplete arguments, `sda mk` will enter interactive mode only to resolve the unspecified or ambiguous arguments.

Any arguments that are specified with the `-gui` command option will be passed to the GUI and the appropriate fields will be pre-filled or

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selected on the "Make Area" tab.

Tips for Naming Your Development Area

A development area name must start with an alphanumeric character and be composed of alphanumeric characters, including dot (.), dash (-), or underscore (_). Development names must be unique within a development server. Development area names must be unique for a development instance.

The command provides a unique default development area name in the following format:

```
<Assignment>-<count>_<creator>
```

Where:

<assignment> corresponds to the assignment selected previously, or entered with the -assignment option.

<count> is the next available number, starting from 1, of areas created. This is used to ensure the uniqueness of the name.

<creator> Username of the creator of the development area.

For example, User rsmith creating the first development area for the assignment Developer, has a default development area name of "Developer-1_rsmith"

Note: Development areas are checked for uniqueness in the name/instance pair. You cannot have two development areas for the same instance using the same name. You can have two development areas with the same name if they are for different development instances.

External Development Areas

An external development area is a development area whose physical presence is on a different network from the development server that it is associated with. External development areas are only allowed if the "Allow External Development Areas" parameter from the development definition on the development server is set to TRUE.

When a user creates a new development area, the sda mk command looks up the development instance path from the development definition on the development server. If the sda mk is run on a different network and can't find the development instance path, the command knows to create an external development area. The command then verifies that there is a local development instance directory for the development to host the new development area by checking for the existence of the directory located in the "External Path" parameter of the development definition on the development server. If this directory does not already exist, the command creates it.

The external development directory is similar in structure to the development instance created locally by the development server. The data replication root directory is replaced by a simple

file cache directory. None of the external development's directory hierarchy is mirrored and no data is pushed to this directory directly from the development server. This is simply a local copy.

If the external development directory does already exist, its local development definition and the setting for the selected assignment is updated.

After the external development directory is in place and up to date, the normal development area creation procedure continues with the creation of the relevant environment variables and the data population.

Note for File-Based Development

If the development data is file based, the data is populated into a sub-directory of the development area directory with the leaf name of the development URL, which is the directory name of the directory holding the data on the server. This structure allows the user to place unmanaged, peer, or derived data in the development area outside the data's directory cone.

Server authentication for Windows systems using file-based methodology requires that any servers referenced (by REFERENCE statements in sync_project.txt files) are pre-authenticated by saving the username/password for the server in order to populate the referenced data. To pre-authenticate your server, use the password -save command to save the username/password for the server.

SYNOPSIS

```
sda mk [<area_name> [<dev_name>]] [-assignment <assignment>] [-gui]
      [-path <path>] [-shared]
```

ARGUMENTS

- [Area Name](#)
- [Development Name](#)

Area Name

<area_name> The new area name for the development.
If no area name is specified, and the command is not run interactively, DesignSync uses the default name, in the format:
<Assignment>-<count>_<creator>
Where:
<assignment> corresponds to the assignment selected previously, or entered with the -assignment

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option.
<count> is the next available number, starting from 1, of areas created. This is used to ensure the uniqueness of the name.
<creator> User name of the creator of the development area.

Development Name

<dev_name> The development name of the DesignSync development instance to which the new development area is associated. The development must already exist.

OPTIONS

- [-assignment](#)
- [-gui](#)
- [-path](#)
- [-shared](#)

-assignment

-assignment <assignment> Specifies an assignment from a predefined list of available assignments for the development. The assignment can be used to specify a module view or a different selector, one other than the default defined with the development, for the populate. If no assignment is specified, the "<Default>" assignment is assumed. The assignment determines the settings associated with the development area.

-gui

-gui Starts the sda graphical user interface mode with the "Make Area," tab selected.

-path

-path <path> Specifies the area directory; the local directory path where the development data will be populated. If the directory already contains managed data, the URL and selector of the data already fetched into the directory must match the URL and selector of the development combined with the assignment.

Note: If you specify this option and the "Allow user-defined development area paths" parameter is set to FALSE, the command exits with an error.

-shared

-shared Designates the development area as a shared development area. Shared development areas can be joined by other users. All users of a shared development area conduct their work in the same development area directory.

RETURN VALUE

This command does not return any TCL values. The command output displays information about success or failure of the command and status messages.

SEE ALSO

sda cd, sda gui, sda join, sda ls, sda rm, replicate

EXAMPLES

- [Example of Running sda mk in Interactive Mode](#)

Example of Running sda mk in Interactive Mode

```
$> sda mk
Logging to C:\home\rsmith\logs\dss_03132014_103149.log
V6R2019x
Contacting host: serv1.ABCo.com:2647 ...

Which development would you like to create a development area for?
[1] Chip-NZ8
[2] Chip-QR2
[3] ROM-NZx
Select the number preceding the development name or 'E' to exit (1-3): 1

Which assignment will be assigned to this development area?
[1] developer
[2] documenter
[3] verifier
Select the number preceding the assignment or 'E' to exit (1-3): 2

Please specify the name for the new development area
[documenter-1_rsmith]:
```

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```
Please specify the path for the development area directory
[c:\Developments\rsmith\documenter-1_rsmith]:
C:\User\rsmith\DevAreas\nz8ChipDev
```

```
Should this be a shared development area (y/n) [n]:
```

```
The development area 'nz8ChipDev' for development 'Chip-NZ8' has been
created at c:\User\rsmith\DevAreas\nz8ChipDev
```

sda rm

sda rm Command

NAME

```
sda rm          - Remove an existing development area and its
                  contents
```

DESCRIPTION

This command removes a development area from its development definition on the development server and attempts to remove the local development area directory. If the development area is a shared development area, only the last user to remove the development area is allowed to remove the local development area directory. The command does not remove any design data from the repository server.

Invoking `sda rm` without any arguments, or with incomplete or ambiguous arguments, causes the command to enter the interactive mode. In interactive mode, the user is prompted for the command arguments and options needed and must confirm the answers.

In interactive mode, orphaned development areas, development areas where a development instance can't be found; are displayed preceded with a "!" and shared development areas are displayed preceded with a "*".

Any arguments specified with the `-gui` command option are passed to the GUI and the appropriate fields are pre-filled on the Remove Area tab. The GUI ignores the `-noconfirm` option if it is used.

SYNOPSIS

```
sda rm [<area_name>] [-development <name>] [-gui] [-noconfirm]
```

OPTIONS

- [-development](#)
- [-gui](#)
- [-noconfirm](#)

-development

`-development <name>` Specify the development name if the area name is not unique for the user. Area names are unique within a development for a given user, but are not required to be unique across all developments.

-gui

`-gui` Starts the sda graphical user interface mode with the "Remove Area," tab selected.

-noconfirm

`-noconfirm` By default, the removal requires confirmation. Use the `-noconfirm` option to perform the removal without confirmation.

Note: The GUI interface always requires confirmation. If `-noconfirm` is specified with `-gui`, the `-noconfirm` option is silently ignored.

RETURN VALUE

This command does not return any TCL values. The command output displays information about success or failure of the command and status messages.

SEE ALSO

`sda cd`, `sda gui`, `sda join`, `sda ls`, `sda mk`

EXAMPLES

- [Example Showing Removing a Development](#)
- [Example Showing Removing a Development in Interactive Mode](#)

Example Showing Removing a Development

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```
$> sda rm nz8ChipDev
** You are removing both the development area definition and the
development area directory. **
Are you sure you want the remove development area 'nz8ChipDev' from
development 'Chip-NZ8'? (y/n) [n]:y
You have successfully removed development area 'nz8ChipDev' from
development 'Chip-NZ8'.
$>
```

Example Showing Removing a Development in Interactive Mode

```
$> sda rm
Which development area would you like to remove?
[1] nz8ChipDev (Chip-NZ8)
[2] nz8ChipDev (ROM-NZx)
[3] Chip-QR2
[4] ROM-NZx
* Shared development area
Select the number preceding the development area name (1-5):1

** You are removing both the development area definition and the
directory. **
Are you sure you want the remove development area 'nz8ChipDev' from
development 'Chip-NZ8'? (y/n) [n]:y
You have successfully removed development area 'nz8ChipDev' from
development 'Chip-NZ8'.
```

Exclude from Workspace

exclude

exclude Command

NAME

exclude - Commands for excluding objects from operations

DESCRIPTION

The exclude command allow you to control which unmanaged objects are automatically excluded from check in or add operations on a per directory basis.

Using the exclude commands, you can add, remove, or display the glob-style exclusion patterns. The exclusions are stored in one or more syncexclude files.

Note: These exclusions are only applicable to unmanaged files. If a

file is managed by the SyncServer, and you wish to exclude it from an operation, such as populate, ci, or tag, you must use exclude lists or filters (for example "populate -exclude *.doc").

The exclude files can be maintained either using these commands, a graphical interface in the DesSync client, or by manually editing the exclude file. For more information on the files, the file format, and using the various interfaces, see the DesignSync User's Guide: Working with Exclude Files.

SYNOPSIS

```
exclude <exclude_command> [<exclude_command_options>]
```

Usage: exclude [add | list | remove]

ARGUMENTS

See individual commands.

OPTIONS

See individual commands.

RETURN VALUE

See individual commands.

SEE ALSO

ci

EXAMPLES

See individual commands.

exclude add

exclude add Command

ENOVIA Synchronicity Command Reference - File

NAME

exclude add - Add objects to exclude from operations

DESCRIPTION

This command appends the supplied pattern(s) to the end of the specified `.syncexclude[*]` file. If the specified file doesn't already exist, DesignSync will create it and place the supplied pattern(s) in it. Exclusions are processed in the order they appear in the file. You can edit the file to adjust the positioning of the exclusions or add an exclusion pattern with a higher priority.

Specify the pattern in one of the following forms:

```
-<pattern>  
+<pattern>
```

When you use the `"-<pattern>"` form, you exclude objects that match the specified pattern at the folder level.

When you use the `"- ../<pattern>"` form, you exclude objects that match the specified pattern at the folder level and any subfolders.

When you use the `"+[.../]<pattern>"` you create an exception to a previously excluded pattern. An example of using an exclude with an exception might be excluding all `.doc` files unless they're in the documentation subdirectory. So in the base-level `.syncexclude`, you could have this:

```
# Exclude all doc files -"../*.doc"  
and in a .syncexclude file within the documentation directory, you  
could have this:  
  
+"../*.doc"
```

Any other sub-folders of the base folder would inherit excepting the unmanaged `.doc` files from revision control operations. The documentation directory and any subfolders of the documentation directory would allow `.doc` files to be included in revision control operations.

Note: Any changes to exclude files affect only unmanaged files. If a managed object matches the pattern, it remains unaffected. To exclude managed files, you must use `-exclude` or `-filter`, or an exclude list, as applicable. For more information on other types of exclusions, see the DesignSync User's Guide.

You must have write permissions in order to create or append to the file.

This command supports the command defaults system.

SYNOPSIS

```
exclude add <argument> [--] <pattern>[ <pattern>...]
```

ARGUMENTS

- [File Path Argument](#)
- [Folder Path Argument](#)

File Path Argument

<FilePath> The path and name of the .syncexclude file. All .syncexclude files must begin with ".syncexclude" but can contain an extension which must begin with a "." character. For example, you could create a .syncexclude file that contains the module name, such as ".syncexclude.Chip." This allows you to include multiple .syncexclude files in the same directory. If the file extension does not begin with a period, ".", it will not be understood by the system as a .syncexclude file.

If the specified file does not exist, DesignSync automatically creates it. If you do not have write permissions to create or modify the file, the command fails with an appropriate error.

Folder Path Argument

<FolderPath> The path to the location of the .syncexclude file(s). If there are multiple .syncexclude files within the directory, the pattern is added to all of the .syncexclude files.

The command does not operate in a folder recursive manner. Only files at the specified directory level are updated.

If there is no .syncexclude file in that folder, DesignSync automatically creates a new file called .syncexclude. If you do not have write permissions to create or modify the file, the command fails with an appropriate error.

OPTIONS

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- [=](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the pattern supplied to the command begins with a dash (-).

PATTERN

- [Pattern for Exclude](#)

Pattern for Exclude

<pattern> Specifies a space-separated list of patterns that
[...<pattern>] exclude or include unmanaged objects (collections, folders, or files) from check in or add operations, which would change the object from an unmanaged to a versionable object.

Specify any pattern to exclude from operations that create managed objects or display unmanaged objects. Wildcards are allowed. Any patterns that end in forward-slash (/) apply to the folder and any files within the folder. Do not use the backslash (\) character as a folder indicator. For specific usage information, see the Examples.

RETURN VALUE

No TCL value is returned. If the command succeeds, DesignSync displays a success message. If the command fails, DesignSync displays a message to explain the failure.

SEE ALSO

ci, exclude list, exclude remove, ls

EXAMPLES

- [Example Showing Adding an Exclusion to the Exclude File](#)
- [Example Showing Adding a Folder-Based Exclude](#)

Example Showing Adding an Exclusion to the Exclude File

This example excludes all unmanaged objects that end with a .log suffix from revision control operations, such as ci.

Note: Because this is excluding a pattern, it requires the "--" option to indicate that the next "-" is associated with the pattern, not indicating an option.

```
dss> exclude add . -- -*.log
```

Example Showing Adding an Folder-Based Exclude

This example excludes all unmanaged objects in a folder that matches the specified pattern. In this example, we have a directory structure like this:

```
rom
  doc
    rom.doc
    rom.fm
    rom.pdf
    rom.log
  log
    generatelog.log
    errorlog.log
```

Using our previous example, we have at the rom folder level a .syncexclude that contains *.log. But the log files within the .log directory are files that should be checked in. This plus exception created in the same file allows the .log folder and all files within to be operated on.

```
dss> exclude add . -- +../log/
```

Arguments

exclude add Command

NAME

```
exclude add          - Add objects to exclude from operations
```

DESCRIPTION

This command appends the supplied pattern(s) to the end of the specified .syncexclude[*] file. If the specified file doesn't already exist, DesignSync will create it and place the supplied pattern(s) in it. Exclusions are processed in the order they appear

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in the file. You can edit the file to adjust the positioning of the exclusions or add an exclusion pattern with a higher priority.

Specify the pattern in one of the following forms:

```
-<pattern>  
+<pattern>
```

When you use the "-<pattern>" form, you exclude objects that match the specified pattern at the folder level.

When you use the "- ../<pattern>" form, you exclude objects that match the specified pattern at the folder level and any subfolders.

When you use the "+[.../]<pattern>" you create an exception to a previously excluded pattern. An example of using an exclude with an exception might be excluding all .doc files unless they're in the documentation subdirectory. So in the base-level .syncexclude, you could have this:

```
# Exclude all doc files -"../*.doc"  
and in a .syncexclude file within the documentation directory, you  
could have this:  
  
+"../*.doc"
```

Any other sub-folders of the base folder would inherit excepting the unmanaged .doc files from revision control operations. The documentation directory and any subfolders of the documentation directory would allow .doc files to be included in revision control operations.

Note: Any changes to exclude files affect only unmanaged files. If a managed object matches the pattern, it remains unaffected. To exclude managed files, you must use `-exclude` or `-filter`, or an exclude list, as applicable. For more information on other types of exclusions, see the DesignSync User's Guide.

You must have write permissions in order to create or append to the file.

This command supports the command defaults system.

SYNOPSIS

```
exclude add <argument> [--] <pattern>[ <pattern>...]
```

ARGUMENTS

- [File Path Argument](#)
- [Folder Path Argument](#)

File Path Argument

<FilePath> The path and name of the .syncexclude file. All .syncexclude files must begin with ".syncexclude" but can contain an extension which must begin with a "." character. For example, you could create a .syncexclude file that contains the module name, such as ".syncexclude.Chip." This allows you to include multiple .syncexclude files in the same directory. If the file extension does not begin with a period, ".", it will not be understood by the system as a .syncexclude file.

If the specified file does not exist, DesignSync automatically creates it. If you do not have write permissions to create or modify the file, the command fails with an appropriate error.

Folder Path Argument

<FolderPath> The path to the location of the .syncexclude file(s). If there are multiple .syncexclude files within the directory, the pattern is added to all of the .syncexclude files.

The command does not operate in a folder recursive manner. Only files at the specified directory level are updated.

If there is no .syncexclude file in that folder, DesignSync automatically creates a new file called .syncexclude. If you do not have write permissions to create or modify the file, the command fails with an appropriate error.

OPTIONS

- `--`

--

-- Indicates that the command should stop looking for command options. Use this option when the pattern supplied to the command begins with a dash (-).

PATTERN

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- [Pattern for Exclude](#)

Pattern for Exclude

`<pattern>` Specifies a space-separated list of patterns that
`[...<pattern>]` exclude or include unmanaged objects (collections, folders, or files) from check in or add operations, which would change the object from an unmanaged to a versionable object.

Specify any pattern to exclude from operations that create managed objects or display unmanaged objects. Wildcards are allowed. Any patterns that end in forward-slash (/) apply to the folder and any files within the folder. Do not use the backslash (\) character as a folder indicator. For specific usage information, see the Examples.

RETURN VALUE

No TCL value is returned. If the command succeeds, DesignSync displays a success message. If the command fails, DesignSync displays a message to explain the failure.

SEE ALSO

`ci`, `exclude list`, `exclude remove`, `ls`

EXAMPLES

- [Example Showing Adding an Exclusion to the Exclude File](#)
- [Example Showing Adding an Folder-Based Exclude](#)

Example Showing Adding an Exclusion to the Exclude File

This example excludes all unmanaged objects that end with a `.log` suffix from revision control operations, such as `ci`.

Note: Because this is excluding a pattern, it requires the `--` option to indicate that the next `-` is associated with the pattern, not indicating an option.

```
dss> exclude add . -- -*.log
```

Example Showing Adding an Folder-Based Exclude

This example excludes all unmanaged objects in a folder that matches the specified pattern. In this example, we have a directory structure like this:

```
rom
  doc
    rom.doc
    rom.fm
    rom.pdf
    rom.log
  log
    generatelog.log
    errorlog.log
```

Using our previous example, we have at the rom folder level a `.syncexclude` that contains `*.log`. But the log files within the `.log` directory are files that should be checked in. This plus exception created in the same file allows the `.log` folder and all files within to be operated on.

```
dss> exclude add . -- +../log/
```

exclude add Command

NAME

```
exclude add          - Add objects to exclude from operations
```

DESCRIPTION

This command appends the supplied pattern(s) to the end of the specified `.syncexclude[*]` file. If the specified file doesn't already exist, DesignSync will create it and place the supplied pattern(s) in it. Exclusions are processed in the order they appear in the file. You can edit the file to adjust the positioning of the exclusions or add an exclusion pattern with a higher priority.

Specify the pattern in one of the following forms:

```
-<pattern>
+<pattern>
```

When you use the `"-<pattern>"` form, you exclude objects that match the specified pattern at the folder level.

When you use the `"- ../<patern>"` form, you exclude objects that match the specified pattern at the folder level and any subfolders.

When you use the `"+[.../]<pattern>"` you create an exception to a previously excluded pattern. An example of using an exclude with an exception might be excluding all `.doc` files unless they're in the

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documentation subdirectory. So in the base-level `.syncexclude`, you could have this:

```
# Exclude all doc files -".../*.doc"
and in a .syncexclude file within the documentation directory, you
could have this:

+".../*.doc"
```

Any other sub-folders of the base folder would inherit excepting the unmanaged `.doc` files from revision control operations. The documentation directory and any subfolders of the documentation directory would allow `.doc` files to be included in revision control operations.

Note: Any changes to exclude files affect only unmanaged files. If a managed object matches the pattern, it remains unaffected. To exclude managed files, you must use `-exclude` or `-filter`, or an exclude list, as applicable. For more information on other types of exclusions, see the DesignSync User's Guide.

You must have write permissions in order to create or append to the file.

This command supports the command defaults system.

SYNOPSIS

```
exclude add <argument> [--] <pattern>[ <pattern>...]
```

ARGUMENTS

- [File Path Argument](#)
- [Folder Path Argument](#)

File Path Argument

<FilePath> The path and name of the `.syncexclude` file. All `.syncexclude` files must begin with `".syncexclude"` but can contain an extension which must begin with a `."` character. For example, you could create a `.syncexclude` file that contains the module name, such as `".syncexclude.Chip."` This allows you to include multiple `.syncexclude` files in the same directory. If the file extension does not begin with a period, `."`, it will not be understood by the system as a `.syncexclude` file.

If the specified file does not exist, DesignSync automatically creates it. If you do not have write permissions to create or modify the file, the command

fails with an appropriate error.

Folder Path Argument

<FolderPath> The path to the location of the .syncexclude file(s). If there are multiple .syncexclude files within the directory, the pattern is added to all of the .syncexclude files.

The command does not operate in a folder recursive manner. Only files at the specified directory level are updated.

If there is no .syncexclude file in that folder, DesignSync automatically creates a new file called .syncexclude. If you do not have write permissions to create or modify the file, the command fails with an appropriate error.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the pattern supplied to the command begins with a dash (-).

PATTERN

- [Pattern for Exclude](#)

Pattern for Exclude

<pattern> Specifies a space-separated list of patterns that [...<pattern>] exclude or include unmanaged objects (collections, folders, or files) from check in or add operations, which would change the object from an unmanaged to a versionable object.

Specify any pattern to exclude from operations that create managed objects or display unmanaged objects. Wildcards are allowed. Any patterns that end in forward-slash (/) apply to the folder and any files within the folder. Do not use the backslash (\)

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character as a folder indicator. For specific usage information, see the Examples.

RETURN VALUE

No TCL value is returned. If the command succeeds, DesignSync displays a success message. If the command fails, DesignSync displays a message to explain the failure.

SEE ALSO

ci, exclude list, exclude remove, ls

EXAMPLES

- [Example Showing Adding an Exclusion to the Exclude File](#)
- [Example Showing Adding an Folder-Based Exclude](#)

Example Showing Adding an Exclusion to the Exclude File

This example excludes all unmanaged objects that end with a .log suffix from revision control operations, such as ci.

Note: Because this is excluding a pattern, it requires the "--" option to indicate that the next "-" is associated with the pattern, not indicating an option.

```
dss> exclude add . -- -*.log
```

Example Showing Adding an Folder-Based Exclude

This example excludes all unmanaged objects in a folder that matches the specified pattern. In this example, we have a directory structure like this:

```
rom
  doc
    rom.doc
    rom.fm
    rom.pdf
    rom.log
  log
    generatelog.log
    errorlog.log
```

Using our previous example, we have at the rom folder level a

.syncexclude that contains *.log. But the log files within the .log directory are files that should be checked in. This plus exception crteated in the same file allows the .log folder and all files within to be operated on.

```
dss> exclude add . -- +../log/
```

exclude list

exclude list Command

NAME

exclude list - Show object patterns excluded from operations

DESCRIPTION

This command shows the contents of the exclude list files, allowing you to see which patterns are excluded or included by the files in the directory or .syncexclude file specified.

The command can display in either text or Tcl list form, to allow either for easy viewing or additional processing.

This command supports the command defaults system.

SYNOPSIS

```
exclude list [-format text|list] <path>
```

ARGUMENTS

- [File Path Argument](#)
- [Folder Path Argument](#)

File Path Argument

<FilePath> The path and name of the .syncexclude file.

Folder Path Argument

<FolderPath> The path to the location of the .syncexclude file(s).

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If there are multiple `.syncexclude` files within the directory, the list of patterns for all the `.syncexclude` files within the directory are returned in the order in which they are processed.

The command does not operate in a folder recursive manner. Only files at the specified directory level and higher in the folder hierarchy; back to the workspace root folder, are displayed

OPTIONS

- [-format](#)

-format

`-format list|text` Determines the format of the output.
Valid values are:

- o `text` Display a text table with headers and columns. Objects are shown in processing order.
- o `list` Tcl list structure, designed for further processing, and for easy conversion to a Tcl array structure. (Default) This means that it is a list structure in name-value pair format. The structure is:

```
{  
    <path> <pattern>  
    ...  
}
```

RETURN VALUE

Empty string if `-format` value is `text`. Tcl list if the `-format` value is `list`.

SEE ALSO

`exclude add`, `exclude remove`

EXAMPLES

- [Example Showing Listing the Exclusions in text format](#)
- [Example Showing Listing the Exclusions in List Format](#)

Example Showing Listing the Exclusions in text format

This example shows the contents of a `.syncexclude` list in text format. This `.syncexclude` file removes `.log` and `.doc` and includes `.readme`, which was removed by a higher level `.syncexclude`.

```
dss> exclude list -format text
File                               Rule
----                               -
C:/home/workspaces/Chip-ZN32/.syncexclude  -*.log
C:/home/workspaces/Chip-ZN32/.syncexclude  -*.doc
C:/home/workspaces/Chip-ZN32/.syncexclude  +*.readme
```

Example Showing Listing the Exclusions in List Format

This example shows the contents of a `.syncexclude` list in text format. This `.syncexclude` file removes `.log` and `.doc` and includes `.readme`, which was removed by a higher level `.syncexclude`.

```
dss> exclude list
{C:/home/workspaces/Chip-ZN32/.syncexclude -*.log}
{C:/home/workspaces/Chip-ZN32/.syncexclude -*.doc}
{C:/home/workspaces/Chip-ZN32/.syncexclude +*.readme}
```

exclude remove

exclude remove Command

NAME

`exclude remove` - Remove objects from being excluded

DESCRIPTION

This command searches all the specified `.syncexclude` files and removes all occurrences of the specified pattern(s). The pattern specified must exactly match the pattern in the `.syncexclude` file(s). If the pattern uses wildcards in the `.syncexclude` file, you must use the same wildcard pattern when specifying its removal. Also, a wildcard that, if processed, would match the pattern, does not remove an entry. For example, if the pattern in the file was:

```
-dss*.log
```

specifying this pattern:

```
-*.*log
```

does not remove the pattern from the `syncexclude` file because it is not an exact match.

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To view the list of patterns in the file, so you can correctly match the exclude pattern to remove it, you can use the exclude list command.

You must have read and write access to the .syncexclude files and directory.

This command supports the command defaults system.

SYNOPSIS

```
exclude remove <path> [--] <pattern>{<pattern>...}
```

ARGUMENTS

- [File Path Argument](#)
- [Folder Path Argument](#)

File Path Argument

<FilePath> The path and name of the .syncexclude file.

Folder Path Argument

<FolderPath> The path to the location of the .syncexclude file(s). If there are multiple .syncexclude files within the directory, the pattern is removed from all of the .syncexclude files that contain that pattern.

The command does not operate in a folder recursive manner. Only files at the specified directory level are updated.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the pattern supplied to the command begins with a dash (-).

PATTERN

- [Pattern for Exclude](#)

Pattern for Exclude

`<pattern>` Specifies a space-separated list of patterns that
`[...<pattern>]` must exactly match a pattern specified in the
`.syncexclude` files affected by the command.

RETURN VALUE

Returns the number of removals. If there are no patterns that match the specified pattern, the removal number is zero "0". If the command fails, returns an error explaining the failure.

SEE ALSO

`exclude add`, `exclude list`

EXAMPLES

- [Example Showing Removing an Exclusion from the Exclude File](#)

Example Showing Removing an Exclusion from the Exclude File

This example shows removing one of the exclusions created in an `exclude add` example.

```
dss> exclude remove . -- -*.log
2
```

populate

populate Command

NAME

`populate` - Fetches or updates specified objects

DESCRIPTION

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- [Object States](#)
- [How Populate Handles Selectors](#)
- [Populate Log](#)
- [How Populate Handles Collections with Local Versions](#)
- [Setting up Your Workspace](#)
- [Incremental Versus Full Populate](#)
- [How Populate Handles Retired Objects](#)
- [Merging Across Branches](#)
- [Populate Versus Checkout](#)
- [Understanding the Output](#)
- [Forcing, Replacing, and Non-Replacing Modes](#)

This command fetches the specified objects from the server into your current workspace folder or a folder you specify with the `-path` option.

Typically, you create your work area, or workspace, and perform your first populate, an initial populate, as a full populate. Once your work area is populated, you can use the `populate`, `co`, and `ci` commands to selectively check out and check in specific objects. You should also populate periodically to update your work area with newly managed objects, as well as newer versions of objects you have locally.

`populate` is used to create or update the objects in your workspace. `populate` features many ways to control the data brought into your workspace. Because of the complexity of the `populate` features, the description section is divided into sections that detail the major features and functionality of `populate`.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Object States

Upon populating your workspace, DesignSync determines in what state to leave the fetched objects in your work area:

1. DesignSync obeys the state option (`-get`, `-lock`, `-share`, `-mirror`, `-reference`) specified on the command line.
2. If no state option is specified, DesignSync uses the default fetch state as specified by your project leader. See the "fetch preference" help topic for more information.
3. If a default fetch state is not defined, the default behavior for 'populate' is `-get`.

Important: For both incremental and full populate operations, DesignSync changes the state of only those objects that need updating. DesignSync does not change the state of up-to-date

objects during the populate operation.

The following methods let you override the default behavior to change the states of all objects during a populate operation:

- o To change the state of up-to-date objects during a populate, use the `-unifystate` option. To change the state of all objects that need an update as well as up-to-date and locally modified objects, use `-unifystate` with the `-force` option.
- o Unlocked locally modified objects are not overwritten unless you specify `-force`. For example, if you modify a fetched file, then execute a `'populate -share'` command, your locally modified file is not replaced by a link to a file in the cache unless you also specify `-force`. Locked files are not overwritten by the `-force` option.
- o To make populating with links to the mirror a fast operation, links are created only if no object (locally modified or not) or link already exists in your work area. You must specify `-unifystate` to change the state of existing objects and links in this case. Use `-force`, as well, to overwrite locally modified objects that are not locked and to remove objects that are not in the current configuration.

Note: If the object is designated as uncacheable, attempts to place objects in the cache (`populate -mirror`; `populate -share`) will automatically populate the workspace with unlocked copies (`-keep mode`). For more information on cachability, see the "caching" commands.

How Populate Handles Selectors

DesignSync determines what versions of objects to populate as follows:

1. DesignSync obeys the selector list specified by the `-version` option.
2. If `-version` is not specified, DesignSync uses the persistent selector list of the top-level folder being populated. The default persistent selector is 'Trunk', in which case DesignSync checks out the Latest versions from Trunk.

Notes:

- o If you specify a selector or a selector list for the populate operation using the `-version` option and the selector does not exactly match the workspace selector, an incremental populate is no longer valid. In this case, DesignSync performs a full populate even if the `-incremental` option is specified. See "Incremental Versus Full Populate" above for more information.

Important: The persistent selector lists of individual managed objects (files or collections) and subfolders are not obeyed by the `'populate -recursive'` operation.

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- o A 'populate -recursive' command without the -version option populates a work area based on the persistent selector list of the top-level folder you are populating, skipping any subfolder or managed object that has a persistent selector list that differs from the top-level folder. You must issue the populate command separately for any skipped subfolder.
- o A 'populate -recursive -version <selectorList>' command uses the specified selector list and ignores all persistent selector lists. In the case of '-version Latest', the persistent selector list of the top-level folder being populated is augmented with 'Latest' and that augmented persistent selector list is used for the populate operation.

The supported DesignSync use models (single-branch development, project branching, and auto-branching) assume that persistent selector lists across a work area are consistent. Use caution when using commands that leave you with inconsistent local metadata, such as using 'setselector' or 'mkbranch' on individual objects.

See the "selectors" help topic for details on selectors, selector lists, and persistent selector lists. For more information about how the -version switch is managed, see the -version in OPTIONS.

Populate Log

Because populate operations can be long and complex, you may want to specify a log file to contain only the output of the populate command to store for later reference.

You can specify the log file on an as needed basis using the -log option or by setting a log file name using the command defaults system. If the log file specified does not exist, DesignSync creates it before it begins the populate command processing. If the log file does exist, DesignSync appends the new populate information to the file.

Tip: If you set a default log value for populate, check the file size periodically and, if the file is getting too large to use comfortably, rename the file to save the information, or remove the file if you no longer need it.

Notes:

- o If a log file is defined in the command defaults system and two users run populate simultaneously, the populate output may become interlaced in the log file.
- o Regardless of whether you create a populate log, the DesignSync client log file contains the output of the populate command along with all the other commands typed into the DesignSync client session.

How Populate Handles Collections with Local Versions

For collection objects that have local versions (for example, custom generic collections), the populate operation handles local versions in the following way.

When you populate a folder containing a collection object, the populate operation removes from your workspace any local version of the object that is unmodified. (Because these local versions exist in the vault, you can refetch them.) The operation then fetches from the vault the specified collection object (with the local version number it had at the time of checkin).

If the current local version in your workspace is modified, the populate operation fails unless you specify 'co -force'. (The -force option lets the local version with the modified data be replaced with the local version of the object you are checking out.) Note: The current local version is the one with the highest local version number. DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.

The -savelocal option tells the populate operation what to do with local versions in your workspace other than a current local version that is modified. For information, see OPTIONS.

Setting up Your Workspace

Before you can use populate to maintain your workspace, you must set up your workspace.

Note: The Workspace Wizard from the DesignSync graphical user interface simplifies the task of setting up a work area by taking you through a step-by-step process.

The typical steps when you set up a new workspace are:

1. Associate a local folder with a vault folder. See the setvault command for details. This also creates the workspace root, if one does not already exist at the level of the local folder or above.
2. Optionally set the persistent selector list for the folder as part of the setvault command or with the setselector command. If you do not set the persistent selector list, it is inherited from the parent folder. This step is necessary only if you are working on a branch other than the default Trunk branch.
3. Optionally associate a local folder with a mirror directory. See the "setmirror" command for details. If the mirror directory for your project later changes, run the setmirror command from

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the same directory in which the original `setmirror` command was run. That will update the workspace's mirror association, which will be inherited by lower level directories. Run the `populate` command with the options `'-recursive -mirror -unifystate'` to correct existing workspace links to mirror files. This will correct the links so that they point to the mirror directory's new location.

4. Populate the work area with the specified design objects from the vault. `populate` determines the set of versions from the persistent selector list or from the `-version` option, if applicable. Apply the `-recursive` option to create a local hierarchy that matches the vault's hierarchy. Without `-recursive`, `populate` only fetches the specified objects.

Incremental Versus Full Populate

By default, the `populate` command attempts to perform an incremental populate which updates only those local objects whose corresponding vaults have changed. Avoiding a full populate improves the speed of the populate; however, some circumstances make a full populate necessary. In the following cases, DesignSync automatically performs a full populate:

- o If you are populating with a different configuration to that of the work area (having used `setselector`, `setvault`, `'populate -version'`, or `'co -version'` to change a selector), DesignSync performs a full populate. For example, if your last full populate specified the `VendorA_Mem` configuration, but you now want `VendorB_Mem` files, then DesignSync automatically performs a full (nonincremental) populate. If the selector you specify resolves to the same exact selector as that of the work area, DesignSync does perform the incremental populate. In this case, the selectors must be an exact match; for example, a selector which resolves to `'Main'` does not match `'Main:Latest'`. If you are populating with a new configuration, consider using the `-force` option to remove objects of the previous configuration from your work area.
- o If you use the `-lock` option, DesignSync performs a full populate.
- o If you use the `-unifystate` option, DesignSync performs a full populate.
- o If you perform a nonrecursive populate on a subfolder, all of the folders above the subfolder are invalidated for subsequent incremental populate operations. Incremental populate works by exploiting the fact that if a folder is up-to-date, all of its subfolders are also up-to-date, making it unnecessary to recurse into them. Because a recursive populate was not performed for the subfolder, DesignSync cannot ensure that its subfolders are up-to-date; thus, all incremental populates are invalidated up the

hierarchy.

- o If you perform a nonrecursive populate on a folder, DesignSync essentially runs a full populate rather than the default incremental populate. Your next populate is incremental from the last recursive populate. If you have not previously run a recursive populate, the subsequent populate is a full populate.
- o If the ProjectSync configuration file, `sync_project.txt`, has been updated through the ProjectSync interface (Project->Edit or Project->Configuration), thus updating the DesignSync REFERENCES, DesignSync performs a full populate. If, however, the configuration in the `sync_project.txt` file is hand-edited and not updated using ProjectSync, you must specify the `-full` option to force a full populate.

Note: If you are using a mirror (by specifying `-mirror` or having a default fetch state of Links to mirror), an incremental populate does not necessarily fetch new objects checked in, nor remove links to objects deleted by team members until after the mirror has been updated.

For the following cases, perform a full populate instead of an incremental populate:

- o If you have excluded a folder by using the `-exclude`, or `-noemptydirs` option with the populate command, a subsequent incremental populate will not necessarily process the folder of the previously excluded object. DesignSync does not automatically perform a full populate in this case. To guarantee that previously excluded objects are fetched, specify the `-full` option for the subsequent populate operation.
- o For modules, DesignSync tracks changed members and therefore always performs an incremental populate. Specify a full populate to force data that has been manually removed, removed locally, or renamed locally to be fetched again from the server. If the file was renamed, you may have to specify the `-force` option as well.

Also, specify a full populate if you have an unchanged, but out-of-date or out-of-sync version in your workspace to force DesignSync to fetch the up-to-date version of the object.

- o If the ProjectSync configuration file, `sync_project.txt`, has been hand-edited, thus updating the legacy module REFERENCES, use the `-full` option to perform a full populate. If, however, the `sync_project.txt` file has been changed through the ProjectSync interface (Project->Edit or Project->Configuration), DesignSync performs the full populate without your having to specify `-full`. For more information, see "Interaction with Legacy Modules" below.
- o If the system clock on the SyncServer machine where your vault is located is turned back (for example, to correct clock skew between machines), you must perform a full (nonincremental)

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populate to synchronize the client and server metadata.

- o If you interrupt a populate operation (using Control-c, for example), you should use populate -full on your next populate of that folder.

The default populate mode is -incremental; however, your project leader can set this default using SyncAdmin.

If you are updating mirrors, use the -incremental option. If you specify the -full option, mirror updates can take a long time to complete.

Note: If you remove objects from the work area by using operating system commands rather than DesignSync commands, an incremental populate cannot fetch these objects. Use the -unifystate or -full option to fetch them.

How Populate Handles Retired Objects

When you populate with the Latest versions of design objects from a given branch, DesignSync does not populate objects for which that branch is retired. Objects in your local work area whose branches have been retired from the vault are not deleted during the populate operation unless you specify -force.

It is important to note that objects on retired branches remain part of past configurations. When you use the populate command to retrieve a configuration other than 'Latest', objects from retired branches are fetched. The populate command fetches objects from retired branches, thereby preserving past configurations, if the selector used for the operation is any of the following:

- o A version tag other than 'Latest', even if the version tag points to the Latest version
- o A version number, even if that number corresponds to the Latest version
- o <branchtag>:Date(<date>) or <branchtag>:VaultDate(<date>)

Note: If the selector specifies a branch in the form '<branchtag>:', DesignSync augments the selector to be <branchtag>:Latest, meaning, 'Get the Latest version from the specified branch'. In this case, objects from retired branches are not fetched.

Note: For information about how retired files by cross-branch merge operations, see "Merging Across Branches."

Merging Across Branches

In multi-branch environments, you use the populate command to merge branches. In many cases, a new branch that is created is eventually merged back into the main development branch.

The branch being merged is populated into a workspace containing the destination branch using the populate command with the -merge and -overlay options. This type of merge is called "cross-branch merge."

As with all populate operations, cross-branch merging uses the filter and exclude filter lists set on the workspace, in the command defaults system, on the command line.

Merging includes two basic types of merging: file contents, and structural changes.

- o File content merging:

File content merging is applicable to all DesignSync objects. DesignSync merges the contents of files with the same natural path to the best of its ability. If the files are binary files which cannot be merged, populate returns an error message.

- o Structural changes for DesignSync objects.

Structural changes for DesignSync objects are non-content based changes to the DesignSync objects that can affect the merge results.

- Removed objects: If an object is present in the local workspace, but not in the merge version, the object in the local workspace is unchanged. If you want to remove it from the merged version, you must explicitly remove or retire the object.
- Added objects: If an object is not present in the local workspace, but is present in the merge version, the object is added to the local workspace. The merge action sets the following local metadata properties:
 - o The current version is set to the fetched version, providing a meaningful branch-point version when you check the object into branch A.
 - o The current branch information is undefined.
 - o The persistent selector list for the object may be augmented to ensure that branch A is automatically created when you check in the object, thus eliminating the need to use ci -new. The following list explains how the persistent selector list is handled by the operation.
 1. If the first selector in the persistent selector list is a VaultDate() or Auto() selector, then the persistent selector list is not modified.
 2. If the first selector is of the form <branch>:<version>, then the first selector is modified to be Auto(<branch>).
 3. Otherwise, the first selector is modified to be Auto(<selector>). The object may be automatically checked in to the DesignSync vault, depending on the value of the persistent selector.
- Retired objects:
 - o If the object is active in the workspace and retired on the branch version, the workspace version is unchanged.
 - o If the object is retired or does not exist in the workspace,

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and is retired or does not exist on the branch, the workspace version is unchanged.

- o If the object is retired in the workspace and active on the branch version, the version from the branch version is merged with the workspace version. The object remains retired and must be unretired in order to be checked in.

After a cross-branch merge has been performed, you can view the status of the affected files using the `ls` command with the `-merged <state> -report D` options. The `-merged` option allows you to restrict the list to a particular type of merge operation (add, remove, rename, all) and the `-report D` option shows you the current state of the object in your workspace. For more information, see the `ls` command help.

When a merge is performed on a DesignSync object, a merge edge is created automatically to maintain a list of the changes incorporated by the merge. This identifies a closer-common ancestor to provide for quicker subsequent merges.

For more information about merging, see the `-merge` and `-overlay` options, and the DesignSync Data Manager User's Guide topic: "What Is Merging?"

Populate Versus Checkout

The `co` and `populate` commands are similar in that they retrieve versions of objects from their vaults and place them in your work area. They differ in several ways, most notably:

- o You typically use the `co` command to operate on objects that you already have locally, whereas `populate` updates your work area to reflect the status of the vault.
- o The `co` command considers the persistent selector list for each object that is checked out, whereas `populate` only considers the persistent selector list for the folder that is being populated.

Note: The `co` and `populate` commands are gradually being merged.

Understanding the Output

The `populate` command provides the option to specify the level of information the command outputs during processing. The `-report` option allows you to specify what type of information is displayed:

If you run the command with the `-report brief` option, the `populate` command outputs a small amount of status information including, but not limited to:

- o Failure messages.
- o Warning messages.
- o Informational messages concerning the status of the `populate`

- o Success/failure/skip status

If you do not specify a value, or the command with the `-normal` option, the `populate` command outputs all the information presented with `-report brief` and the following additional information:

- o Informational messages for objects that are updated by the `populate` operation.
- o Messages for objects excluded from the operation (due to exclusion filters or explicit exclusions).

If you run the command with the `-report verbose` option, the `populate` command outputs all the information presented with `-report normal` and the following additional information:

- o Informational message for every object examined but not updated.

If you run the command with the `-report error` option, the `populate` command outputs the following information:

- o Failure messages.
- o Warning messages.
- o Success/failure/skip status messages.

Forcing, Replacing, and Non-Replacing Modes

You can use these three modes to specify how the `populate` command updates your work area:

- o Forcing mode (specified with the `-force` option) synchronizes your work area with the incoming data, including locally modified objects. In this mode, the `populate` command updates the managed objects in your work area. It replaces or removes managed objects regardless of whether the objects have been locally modified. Thus, forcing modifies your work area to match the set of objects being fetched. Note: The default `-noforce` option operates as if `-replace` has been specified.
- o Replacing mode (specified with the `-replace` option) also synchronizes your work area with the incoming data, but without affecting locally modified objects (the default behavior).

Note: Retired files that have been kept or re-added to the workspace are considered locally modified.

Replacing mode, unlike forcing mode, leaves intact managed objects that have been locally modified.

- o Non-replacing mode (specified with the `-noreplace` option) is the least disruptive mode; this mode might require you to clean up the resulting work area data.

In this mode, the `populate` command takes the incoming data and overlays it on top of the existing work area's data. It leaves intact both managed objects with local modifications and managed objects that are not members of the module being

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fetches. Thus, the work area essentially becomes a union of the data from the previous version and that of the module being fetched.

Non-replacing mode, unlike forcing mode, leaves intact any objects that have been locally modified, and, unlike the replacing mode, leaves unmodified managed objects intact. See the `-[no]replace` option below for more details.

Notes:

- o Unmanaged objects in your work area are not affected by any of these modes.
- o The following are illegal combinations of options:
 - replace and -noforce, as well as inverse options, such as -replace and -noreplace.

SYNOPSIS

```
populate [-[no]emptydirs] [-exclude <object>[,<object>...]]
[-[no]force] [-full | -incremental]
[[[-lock [-keys <mode> | -from {local | vault}]] |
[-get [-keys <mode> | -from {local | vault}]]
[-share] | [-mirror] | [-reference] [-lock -reference] ]
[-log <filename>] [-[no]merge]
[[[-overlay <selector>[,<selector>...]]]
[-version <selector>[,<selector>...]]] [-path <path>]
[-[no]recursive] [-[no]replace]
[-report {error|brief|normal|verbose}] [-[no]retain]
[-savelocal <value>] [-trigarg <arg>] [-[no]unifystate] [--]
[<argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)

The populate command accepts multiple arguments. If you want to populate the current folder, you need not specify an argument. Otherwise, specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Fetches the object from its vault.

DesignSync Folder

<DesignSync folder> Fetches the contents of the specified folder. You can also use the `-path` option to specify a folder to be fetched.

OPTIONS

- [-\[no\]emptydirs](#)
- [-exclude](#)
- [-\[no\]force](#)
- [-from](#)
- [-full](#)
- [-get](#)
- [-incremental](#)
- [-keys](#)
- [-lock](#)
- [-lock -reference](#)
- [-log](#)
- [-merge](#)
- [-mirror](#)
- [-overlay](#)
- [-path](#)
- [-\[no\]recursive](#)
- [-reference](#)
- [-\[no\]replace](#)
- [-report](#)
- [-\[no\]retain](#)
- [-saveLocal](#)
- [-share](#)
- [-trigarg](#)
- [-\[no\]unifystate](#)
- [-version](#)

-[no]emptydirs

`-[no]emptydirs`

Determines whether empty directories are removed or retained when populating a directory. Specify `-noemptydirs` to remove empty directories or `-emptydirs` to retain them. The default for the populate operation is `-noemptydirs`.

For example, if you are creating a directory structure to use as a template at the start of a project, you may want your team to populate the empty directories to retain the directory structure. In this case, you would specify `'populate -rec -emptydirs'`.

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If a populate operation using `-noemptydirs` empties a directory of its objects and if that directory is part of a managed data structure (its objects are under revision control), then the populate operation removes the empty directory. If the empty directory is not part of a managed data structure, then the operation does not remove the directory or its subdirectories. (A directory is considered part of the managed data structure if it has a corresponding folder in the DesignSync vault or if it contains a `.SYNC` client metadata directory.)

Notes:

- o When used with `'populate -force -recursive'`, the `-noemptydirs` option removes empty directories that have never been managed.
- o When used with the `-mirror` option, the `-noemptydirs` option does not remove empty directories (unless `-force -recursive` is used) and does not populate directories that are empty in the mirror.
- o When the `-noemptydirs` option is used with `'-report verbose'`, the command might output messages that additional directories are being deleted. Those are directories created by the populate, to mimic the directory structure in the vault. If no data is fetched into those directories (because no file versions match the selector), then those empty directories are deleted.

If you do not specify `-emptydirs` or `-noemptydirs`, the populate command follows the DesignSync registry setting for "Populate empty directories". By default, this setting is not enabled; therefore, the populate operation removes empty directories. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin help. You typically want consistent behavior for all users, so adding the setting to the site registry is recommended.

-exclude

`-exclude <objects>` Specifies a comma-separated list of objects (files, collections, or folders) to be excluded from the operation. Wildcards are allowed.

If you exclude objects during a populate, a

subsequent incremental populate will not necessarily process the folders of the previously excluded objects. DesignSync does not automatically perform a full populate in this case. To guarantee that previously excluded objects are fetched, specify the `-full` option for the subsequent populate operation.

The `-exclude` option is ignored if it is included in a `'populate -mirror'` operation.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive populate), DesignSync compares the object's leaf name (with the path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `'-exclude bin/*.exe'`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `'-exclude *.exe'`, or `'-exclude foo.exe'` if you want to exclude only `'foo.exe'`. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the `-exclude` option, the field, "These objects are always excluded", from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

-[no]force

`-[no]force`

Specifies whether to overwrite locally modified objects in order to match the workspace to the data being requested. To do so, the populate operation deletes locally managed objects that are not part of the populate command line, deleting objects that have been filtered out. `'populate -force'` only removes managed data, not unmanaged data.

Use this option with caution, because you might not be able to retrieve lost changes.

By default (`-noforce`):

- o Locally modified objects are not overwritten by the populate operation. Specify `-force` if you want to overwrite locally modified objects. If the object is locked, the object

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- is unaffected by the populate operation whether `-force` is specified or not.
- o Objects that are not part of the specified configuration remain in your work area. If you want to delete objects that are not part of the configuration, including retired objects, specify `-force`. Unmanaged objects are never deleted.

The behavior of `'populate -mirror'` without `-force` is different from populate with other states (see the description of `-mirror`). Therefore, `-force` with `-mirror` has the additional effect of changing the state of existing objects in your work area, resulting in a hierarchy that exactly reflects the mirror directory.

Using `-force` with `-unifystate` changes the state of all objects including locally modified objects, in which case, local modifications are overwritten and objects are fetched according to the specified state or the default fetch state.

Using `-force` with `-noemptydirs` for populate removes all existing empty directories from the workspace.

The `-force` option is mutually exclusive with both the `-overlay` and `-noreplace` options.

-from

`-from <where>`

Specifies whether the object is fetched from the vault (`'-from vault'`) or from the cache or mirror (`'-from local'`). By default, DesignSync fetches from the cache or mirror (`'-from local'`), a performance optimization specific to the `'co -lock'`, `'co -get'`, `'populate -lock'`, and `'populate -get'` commands. For details, see the Performance Optimization Overview in the DesignSync Data Manager Administrator's Guide. Note that this option is silently ignored when the optimization is not possible, including when the `-keys` option is specified.

The `-from` option can only be used with the `-lock` or `-get` fetch modes. It cannot be used with the `-share`, `-mirror`, `-reference`, or the `-lock -reference` combination fetch modes. If the `-keys` option is specified with the `-from` option, the `-from` option is silently ignored.

-full

-full Performs a non-incremental populate by processing all objects and folders.

Note: DesignSync performs an incremental populate by default. It automatically reverts to a full populate when necessary. For more information, see the "Incremental Versus Full Populate" section in the description.

To change the default populate mode, your Synchronicity administrator can use the SyncAdmin tool.

Note: Do not use the -full option to change the states of objects in your work area (for example, changing from locked to unlocked objects or unlocked objects to links to the cache). DesignSync changes the states of only those objects that need an update. Use the -unifystate option to change the state of objects in your work area.

-get

-get Fetch unlocked copies.

You can change whether the local object is read-only (typical when using the locking model) or read/write (typical when using the merging model) by default by using the "Check out read only when not locking" option from the Tools->Options->General dialog box in the DesignSync graphical interface. Your project leader can also set this option site-wide using SyncAdmin.

This option is the default object-state option unless a default fetch preference has been defined. See the "fetch preference" help topic for more information.

Using -force with -noemptydirs for 'populate -get' removes all existing empty directories. Using -force with -emptydirs, however, creates empty directories for corresponding empty vault folders.

The -get option is mutually exclusive with the other fetch modes: -lock, -share, -mirror, and -reference.

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-incremental

`-incremental` Performs a fast populate operation by updating only those folders whose corresponding vault folders contain modified objects.
Note: DesignSync performs an incremental populate by default. It automatically reverts to a full populate when necessary. For more information, see the "Incremental Versus Full Populate" section in the description.

To change the default populate mode, your Synchronicity administrator can use the SyncAdmin tool.

Note: Do not use the `-incremental` option to change the states of objects in your work area (for example, changing from locked to unlocked objects or unlocked objects to links to the cache). DesignSync changes the states of updated objects only. For an incremental populate, DesignSync only processes folders that contain objects that need an update. State changes, therefore are not guaranteed. Use the `-unifystate` option to change the state of objects in your work area.

-keys

`-keys <mode>` Controls processing of vault revision-control keywords in populated objects. Note that keyword expansion is not the same as keyword update. For example, the `$Date$` keyword is updated only during checkin; its value is not updated during checkout or populate. The `-keys` option only works with the `-get` and `-lock` options. If you use the `-share` or `-mirror` option, keywords are automatically expanded in cached or mirrored objects, as if the `'-keys kkv'` option was used.

Available modes are:

`kkv` - (keep keywords and values) The local object contains both revision control keywords and their expanded values; for example, `$Revision: 1.4 $`.

kk - (keep keywords) The local object contains revision control keywords, but no values; for example, \$Revision\$. This option is useful if you want to ignore differences in keyword expansion, such as when comparing two different versions of an object.

kv - (keep values) The local object contains expanded keyword values, but not the keywords themselves; for example, 1.4. This option is not recommended if you plan to check in your local objects. If you edit and then check in the objects, future keyword substitution is impossible, because the value without the keyword is interpreted as regular text.

ko - (keep output) The local object contains the same keywords and values as were present at check in.

The -keys option can only be used with the -lock or -get fetch modes. It cannot be used with the -share, -mirror, -reference, or the -lock -reference combination fetch modes. If the -keys option is specified with the -from option, the -from option is silently ignored.

-lock

-lock

Lock the branch of the specified version for each object that is populated. Only the user who has the lock can check in a newer version of the object on that branch.

Use the -lock option with the -reference option to populate with locked references. For more information, see the -lock -reference option.

Locked references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous version. Upon generation of the objects, they automatically become locked copies rather than locked references. Obtaining locked references for generated objects is faster because DesignSync does not fetch the previously generated objects. If the objects exist already in the workspace, DesignSync deletes them. If the objects exist and are locally modified, the operation fails. If you intend to overwrite the modifications, use -force to create the locked references. If the default fetch state is 'reference' and you specify the -lock option without the -reference option, DesignSync leaves

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locked copies of the objects in your workspace; you must explicitly apply the `-reference` option with the `-lock` option if you want locked references in your workspace.

The `-lock` option is mutually exclusive with the fetch modes: `-get`, `-share`, and `-mirror` and with the `-merge` option.

Notes:

- o If you specify 'populate `-lock`', then by default the populate operation also uses the '`-from local`' option. The result is that the populate operation locks the object in the vault and keeps local modifications in your workspace. See the `-from` option for information.

-lock -reference

`-lock -reference`

Use the `-lock` option with the `-reference` option to populate with locked references. Locked references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous version. Upon generation of the objects, they automatically become locked copies rather than locked references. Obtaining locked references for generated objects is faster because DesignSync does not fetch the previously generated objects. If the objects exist already in the workspace, DesignSync deletes them. If the objects exist and are locally modified, the operation fails. If you intend to overwrite the modifications, use `-force` to create the locked references. If the default fetch state is 'reference' and you specify the `-lock` option without the `-reference` option, DesignSync leaves locked copies of the objects in your workspace; you must explicitly apply the `-reference` option with the `-lock` option if you want locked references in your workspace.

The `-lock -reference` combination of option is mutually exclusive with the fetch modes: `-get`, `-share`, and `-mirror`.

Note: You should not use the `-reference` option with Cadence data collection objects. When the `-reference` option is used on Cadence collections, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the

metadata.

-log

`-log <filename>` Specify the name of the populate log file. If the filename doesn't exist, DesignSync creates it. If the file does exist, DesignSync appends the new information to the end of the log file.

The filename can be specified with an absolute or relative path. If you specify a path for the log file, the directory you specify must already exist and you must have write permissions to the directory in order for the log to be placed into it, DesignSync does not create the path.

-merge

`-[no]merge` Indicates whether to populate with the Latest versions from the branch specified by the persistent selector list and merge them with the current, locally modified versions. The default value is `-nomerge`.

If you are not doing an overlay merge (see `-overlay`) and the current version is not locally modified, the `-merge` defaults to a `-get` and fetches the new version without merging. By definition, a merge expects a locally modified object, so the `-force` option is not required.

The `-merge` option supports the merging work model (as opposed to the locking work model) where multiple team members can check out and edit the Latest version concurrently. The first team member to check in creates the next version. Other team members must merge the new Latest version into their local copy before they can check in their changes.

If there are no merge conflicts, the merge succeeds, leaving the merged files in your work area. If there are conflicts, DesignSync issues a warning, and you must edit the merged file to resolve the conflicts before DesignSync allows you to check in the merged version. Conflicts are shown as follows:

```
<<<<<< local
Lines from locally modified version
```

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```
=====  
Lines from selected server version  
>>>>>> versionID
```

DesignSync considers the conflicts resolved when the file no longer contains any of the conflict delimiters (exactly 7 less-than, greater-than, or equal signs starting in column 1). The status of an object, as displayed by `ls` or from the List View in the DesignSync graphical interface, indicates if conflicts exist. The `url inconFLICT` command also determines whether a file has conflicts.

Most merges are between two versions on the same branch (the current branch and the branch specified by the persistent selector list are typically the same). However, a merge can also be performed across branches by setting the persistent selector list to a different branch. Following the merge, you are on the branch associated with the version specified by the persistent selector list (a 'merge to' operation). If you want to stay on the current branch instead, use the `-overlay` option. Overlay ('merge from') merges are more common when merging branches. See the `-overlay` option for details.

Note:

- o The `-merge` option implies `-get`, but you can also explicitly specify `-get`. For general DesignSync objects, the `-merge` option is mutually exclusive with all other state options (`-lock`, `-share`, `-mirror`, `-reference`, and `-lock -reference`). You can use `-lock` with `-merge` for modules and their members.
- o The `-merge` and `-version` options are mutually exclusive unless you specify `'-version Latest'`.

-mirror

`-mirror`

Create symbolic links from the work area to objects in the mirror directory. This option requires that you have associated a mirror directory with your work area (see the `'setmirror'` command).

For performance reasons, links are created only when objects do not exist in your work area. To update mirror links for existing objects, use `-unifystate` with the `-mirror` option. For

example:

```
populate -recursive -full -unifystate -mirror
```

The `-unifystate` option does not affect locally modified objects or objects that are not part of the configuration. Use `-force` with `-unifystate` to update the links, replacing locally modified objects and removing objects that are not part of the current configuration.

When used with the `-mirror` option, the `-noemptydirs` option does not populate directories that are empty on the mirror. Using the `-force` option with the `-noemptydirs` option removes all empty directories from the workspace. Using `-force` with `-emptydirs` for `'populate -mirror'`, however, populates empty directories that exist in the mirror.

The `-mirror` option is mutually exclusive with the other fetch modes: `-lock`, `-get`, `-share`, and `-reference`. The `-mirror` option is also mutually exclusive with the `-keys` and `-from` options. The `-mirror` option cannot take an exclude filter. If the `-exclude` option is specified with the `-mirror` fetch mode, the `populate` silently ignores the `-exclude` option.

Note:

- o This option is not supported on Windows platforms.
- o The `-exclude` option is ignored if it is included in a `'populate -mirror'` operation.
- o If you specify `-mirror`, an incremental `populate` does not necessarily fetch new objects checked in, nor remove links to objects deleted by team members until after the mirror is updated.
- o When populating a custom generic collection from a mirror, always use `'populate -mirror'` from the folder containing the collection object or from a folder above the folder containing the object.

-overlay

`-overlay <selectors>` Replace your local copy of the module or DesignSync non-module object with the versions specified by the selector list (typically a branch tag). The current-version status, as stored in local metadata, is unchanged. For example, if you have version 1.5 (the Latest version) of the module or DesignSync object and you overlay version 1.3, your current version is

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still 1.5. You could then check in this overlaid version. This operation is equivalent to checking out version 1.3, then using 'ci -skip' to check in that version.

The behavior of the overlay operation depends on the presence of a local version and the version you want to overlay:

- o If both the local version and the overlay version exist, the local version is replaced by the overlay version.
- o If there is no local version but an overlay version exists, DesignSync creates a local copy of the overlay version.
- o If a local version exists but there is no overlay version, the local version is unaffected by the operation.
- o If the overlay version was renamed or removed, the local object is not changed, but metadata is added to it, indicating the change. This information can be viewed using the ls command with the -merged option.

Typically, you use -overlay with -merge to merge the two versions instead of overlaying one version onto another. The combination of -overlay and -merge lets you merge from one branch to another, the recommended method for merging across branches. Following the overlay merge, you are working on the same branch as before the operation.

You specify the version you want to overlay as an argument to the -overlay option. The -overlay and -version options are mutually exclusive. The -version option always updates the 'current version' information in your work area, which is not correct for an overlay operation.

- o To use -overlay to specify a branch, specify both the branch and version as follows: '<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

When doing an overlay (with or without -merge), a number of combinations for the state of a module or DesignSync object on the two branches must be considered. For more information, see the "Merging Across Branches" section above. Hierarchical references in modules are not updated during an overlay.

Notes:

- o The `-overlay` option implies `-get`, but you can also explicitly specify `-get`.
- o The `-overlay` option is mutually exclusive with the other state options (`-mirror`, `-share`, `-lock`, `-reference`) and `-version`.

-path

`-path <path>`

Specify the name of an alternate local folder to populate instead of the current folder. The `populate` command uses the vault and persistent selector list associated with the specified folder.

Note: Using `-path` is equivalent to changing folders, executing the `populate` command, then changing back to the original folder.

If you specify a folder using the `-path` option but the folder does not exist, DesignSync

- verifies that a corresponding vault exists
- creates the folder
- populates the specified folder, creating any interim folders necessary to replicate the vault hierarchy locally.

If you specify the `-target` option but the folder does not exist, DesignSync creates the folder.

Generally, however, if the vault does not exist, DesignSync does not create the folder and leaves the workspace unchanged.

Note: If the folder specified by `-path` does not exist, but corresponds to a vault with unpopulated DesignSync REFERENCES, DesignSync has no way to resolve these mappings. In this case, `populate` does not create the specified folder, leaving the workspace unchanged.

The `-path` option used to be the `-dir` option. The `-dir` option is still provided for backwards compatibility, but is not documented separately.

-[no]recursive

`-[no]recursive`

Specifies whether to perform this operation on the specified folder (default), or to traverse its subfolders.

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If you invoke 'populate -recursive' and specify a folder, populate operates on the folder in a folder-centric fashion, fetching the objects in the folder and its subfolders. To filter the set of objects on which to operate, use the -exclude option.

Note: The populate operation might skip subfolders and individual managed objects if their persistent selector lists differ from the top-level folder being populated; see the Description section for details.

If you specify -norecursive when operating on a folder, DesignSync operates only on objects in the specified folder. In this case, populate does not traverse the vault folder hierarchy.

If you perform a -norecursive populate, then for the subsequent populate DesignSync performs a full populate even if the -full option is not specified.

Note: DesignSync cannot perform an incremental populate following a nonrecursive populate, because it cannot ensure that the objects in the work area subfolders are up-to-date.

-reference

-reference

Populate with DesignSync references to objects in the vault. A reference does not have a corresponding file on the file system but does have local metadata that makes the reference visible to Synchronicity programs. Populate with references when you want your work area to reflect the contents of the vault but you do not need physical copies. Use the -reference option with the -lock option to populate with locked references. Locked references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous versions.

Note: You should not use the -reference option with Cadence data collection objects. When the -reference option is used on Cadence collections, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-[no]replace`-[no]replace`

This option determines how to handle locally modified objects when synchronizing your work area.

The `-replace` option specifies that the populate operation updates locally unmodified workspace objects. This option leaves intact all managed objects and all unmanaged objects. If an object has been removed from the vault being fetched as a result of a retire, `rmvault`, or any other similar operation, `-replace` removes the file from the workspace if it has not been locally modified.

The `-noreplace` option specifies that the populate operation updates managed objects that have not been locally modified. The `-noreplace` option leaves intact all unmanaged objects. If an object has been removed from the vault being fetched as a result of a retire, `rmvault`, or any other similar operation, `-noreplace` does not remove the corresponding file in the workspace. (Default)

Notes:

- o See "Forcing, Replacing, and Non-Replacing Modes" above to see how the `-force` option interacts with the `-[no]replace` option.
- o If you use populate `-version` to populate a directory containing a module, DesignSync uses the `-noreplace` option unless `-replace` is explicitly specified.
- o If you apply the `-filter` or `-hreffilter` options, populate applies the `-[no]replace` option on the filtered data.
- o With a recursive operation, populate applies `-replace` and `-noreplace` behaviors to the top-level module and then to each referenced submodule.

-report

```
-report error|
  brief|normal|
  verbose
```

Specifies the amount and type of information displayed by the command. The information each option returns is discussed in detail in the "Understanding the Output" section above.

`error` - lists failures, warnings, and success failure count.

`brief` - lists failures, warnings, module

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create/remove messages, some informational messages, and success/failure count.

normal - includes all information from brief, and lists all the updated objects, and messages about objects excluded by filters from the operation. (Default)

verbose - provides full status for each object processed, even if the object is not updated by the operation.

-[no]retain

-[no]retain

Indicates whether to retain the 'last modified' timestamp of the fetched objects as recorded when each object was checked into the vault. If the workspace is set to use a mirror, or the populate is run using -share, this will also apply to the object placed in the mirror or LAN cache if the object doesn't already exist in the mirror or cache. The links in your work area to the cache or mirror have timestamps of when the links were created.

If you specify the -reference option, no object is created in your work area, so there is no timestamp information at all.

If an object is checked into the vault and the setting of the -retain option is the only difference between the version in the vault and your local copy, DesignSync does not include the object in populate operations.

If you do not specify '-retain' or -noretain', the populate command follows the DesignSync registry setting for Retain last-modification timestamps. By default, this setting is not enabled; therefore, the timestamp of the local object is the time of the populate operation. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin Help.

The mirror system, by default, fetches objects into the mirror with the -retain option. The mirror administrator, however, can define mirrors to use the -noretain option. The default setting should agree with the Retain last-modification timestamp registry setting to maintain consistency. See the "Mirror Administration Server Registry Settings" topic

for setting of the `co` or `populate` options for mirrors.

Note: When fetching from the cache or mirror (by specifying the `'-from local'` option), the last modified timestamp comes from the file in the cache or mirror, not from the version that was checked into the vault. If the file was fetched into the cache or mirror with the `-retain` option, these two timestamps are the same. But if the file was fetched into the cache or mirror with the `-noretain` option and then fetched into the workspace with both the `'-from local'` and `'-retain'` options, the 'last modified' timestamp used is the time the object was fetched into the cache or mirror.

-savelocal

`-savelocal <value>` This option affects collections that have local versions.

When it fetches an object, the `populate` operation first removes from your workspace any local version that is unmodified. (To remove a local version containing modified data, specify `'pop -force'`.) Then the `populate` operation fetches the object you are checking out (with the local version number it had at the time of checkin).

The `-savelocal` option specifies the action that the `populate` operation takes with modified local versions in your workspace (other than the current, or highest numbered, local version). (DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.)

Specify the `-savelocal` option with one of the following values:

`save` - If your workspace contains a local version other than the local version being fetched, the `populate` operation saves the local version for later retrieval. See the `'localversion restore'` command for information on retrieving local versions that were saved.

`fail` - If your workspace contains an object with a local version number equal to or higher

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than the local version being fetched, the populate operation fails. This is the default action.

Note: If your workspace contains an object with local version numbers lower than the local version being fetched and if these local versions are not in the DesignSync vault, the populate operation saves them. This behavior occurs even when you specify '-savelocal fail'

delete - If your workspace contains a local version other than the local version being fetched, the populate operation deletes the local version from your workspace.

If you do not specify the -savelocal option, the populate operation follows the DesignSync registry setting for SaveLocal. By default, this setting is "Fail if local versions exist" ('-savelocal fail'). To change the default setting, a Synchronicity administrator can use the Command Defaults options pane of the SyncAdmin tool. For information, see SyncAdmin Help.

Note:

- o You may need to use the -force option with the -savelocal option to allow the object being fetched to overwrite a locally modified copy of the object. For an example scenario, see EXAMPLES.
- o The -savelocal option affects only objects of a collection defined by the Custom Type Package (CTP). This option does not affect objects that are not part of a collection or collections that do not have local versions.

-share

-share

Fetch shared copies. Shared objects are stored in the file cache directory and links to the cached objects are created in the work area.

Notes:

This option is not supported on Windows platforms.

The -share option is mutually exclusive with the other fetch modes: -lock, -get, -mirror, and -reference. The -share option is also mutually exclusive with the -keys and -from options.

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the populate operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({} if using the stcl command shell.

-[no]unifystate

`-[no]unifystate` Indicates whether to set the state of all objects processed, even up-to-date objects, to the specified state (`-get`, `-lock`, `-share`, `-mirror`, or `-reference`) or to the default fetch state if no state option is specified. See the "fetch preference" help topic for more information.

By default, populate changes the state of only those objects that are not up-to-date (`-nounifystate`). If the `-unifystate` option is specified, DesignSync changes the state of the up-to-date objects, as well, and thus performs a full populate.

The `-unifystate` option does not change the state of locally modified objects; use `-force` with `-unifystate` to force a state change, thus overwriting local modifications. The `-unifystate` option does not change the state of objects not in the configuration; use `-force` with `-unifystate` to remove objects not in the configuration.

The `-unifystate` option does not cancel locks; you can check in the locked files, use the 'cancel' command to cancel locks you have acquired, or use the 'unlock' command to cancel team members' locks.

Note: The `-unifystate` option is ignored when you lock design objects. If you populate with locked copies or locked references, DesignSync leaves all processed objects in the requested state.

-version

`-version <selector>` Specifies the versions of the objects to

populate. The selector list you specify (typically a version or branch tag) overrides the persistent selector lists of the objects you are populating. If you specify the `-recursive` option, the specified selector list is used to populate all subfolders during populate. You can also specify a ProjectSync configuration; see "Interaction with Legacy Modules" in the Description section.

If you specify a date selector (`Latest` or `Date(<date>)`), DesignSync augments the selector with the persistent selector list to determine the versions to populate. For example, if the persistent selector list is `'Gold:,Trunk'`, and you specify `'populate -version Latest'`, then the selector list used for the populate operation is `'Gold:Latest,Trunk:Latest'`.

For details on selectors and selector lists see the topic describing selectors.

Note:

- o Using the `-version` option with the `populate` command does not change the workspace selector, even during the initial populate of an object. To set the workspace selector as part of the `populate` command, specify the selector explicitly, using the `<object>;<selector>` syntax.
- o If you use the `-version` option with the `-incremental` option, and the selector you specify does not exactly match the workspace selector, the incremental populate does not occur. DesignSync performs a full populate instead. See "Incremental Versus Full Populate" in the description section for more information.
- o When using `-version` to specify a branch, specify both the branch and version as follows: `<branchtag>:<versiontag>`, for example, `Rel2:Latest`. You can also use the shortcut, `<branchtag>:`, for example `Rel2:.` If you do not explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.
- o When you specify a version-extended name that reflects the object's version, for example, `"file.txt;1.3"`, `populate` ignores the `-version` option.
- o Specify `'-version <branchtag>:Latest'` only if necessary. In some cases, DesignSync augments the selector to be `<branchtag>:Latest`. When you append `':Latest'`, it may not match the work area selector. This mismatch

- invalidates your next incremental populate resulting in a slower, full populate.
- o The `-version` option is mutually exclusive with `-merge` unless you specify '`-version Latest`', the default.
- o The `-version` and `-overlay` options are mutually exclusive.
- o When you use `populate` with the `-version` option to fetch a directory containing legacy modules, by default DesignSync uses the `-noreplace`

RETURN VALUE

In `dss/dssc` mode, you cannot operate on return values, so the return value is irrelevant.

In `stcl/stclc` mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- "successfully processed" may not mean "successfully populated". For example, a `populate` of an object that you already have in your work area is considered a success even though no checkout occurs.
- Scripts should only test for non-empty lists to determine success or failure. The actual content of the non-empty lists might change in subsequent releases.
- If all objects fail, an exception occurs (the return value is thrown, not returned).
- Objects reported as "excluded by filter," may have been excluded either with the `-filter` option (for modules) or with the `-exclude` option (for any DesignSync objects.)

SEE ALSO

`caching`, `ci`, `co`, `command defaults`, `localversion`, `retire`, `selectors`, `setselector`, `setvault`, `url contents`

EXAMPLES

- [Example of Creating a new work area from a DesignSync vault](#)
- [Example of Creating a New Work Area from a DesignSync Vault Branch](#)
- [Example of Updating an Existing Workspace with a Full Populate](#)
- [Example of Updating the State of Objects in the Workspace](#)
- [Example of Performing a Merge into a Workspace](#)
- [Example of Replacing Modified Files with the Server Versions](#)

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Example of Creating a new work area from a DesignSync vault

The following example creates a new work area containing unlocked copies of every object in the vault hierarchy:

```
dss> scd /home/tgoss/Projects/Asic
dss> setvault sync://myhost.myco.com:2647/Projects/Asic .
dss> populate -recursive -get
```

Because `-version` is not specified, the persistent selector list of the current folder determines what versions to populate. The local Asic folder has not had a `'setselector'` command applied to it or any parent folder, so the default persistent selector list is `'Trunk'`. By default, DesignSync performs an incremental populate of the Latest versions on the specified branch (Trunk). Note that this operation does not fetch objects whose `'Trunk'` branch is retired.

Example of Creating a New Work Area from a DesignSync Vault Branch

The following example differs from the previous example in that the work area is for the Rel2.1 branch, not Trunk, and the work area contains links to a cache directory instead of local copies:

```
dss> scd /home/tgoss/Projects/Asic
dss> setvault sync://myhost.myco.com:2647/Projects/Asic@Rel2.1:Latest .
dss> populate -recursive -share
```

Example of Updating an Existing Workspace with a Full Populate

The following example performs a full (nonincremental) recursive populate on the current folder, fetching unlocked copies of files for updated objects. Note that the states of objects that are not updated DO NOT change.

```
dss> populate -recursive -full -get
```

Example of Updating the State of Objects in the Workspace

By default, the states of up-to-date objects do not change during a populate operation. The following example updates the states of the objects that are up-to-date, allowing you to unify the states of all objects in your work area. The `-unifystate` option causes DesignSync to perform a full populate rather than an incremental populate.

```
dss> populate -recursive -unifystate -get
```

Example of Performing a Merge into a Workspace

The following example merges Latest versions from the current branch into the local versions. You perform this operation when your team uses the merging (nonlocking) work model and you and other team members have been modifying the same objects. It is more common to use the 'co -merge' command to operate on just those objects you want to check in.

```
dss> populate -merge
```

Note that the merge operation fetches from the branch specified by the folder's persistent selector list, not from the current branch. However, these two branches are typically the same unless you have changed the persistent selector list with the setselector command. In this case, you would be merging across branches instead of from the same branch. This method for merging between two branches is not recommended; use the -overlay option.

The following example merges one branch (Dev) into another (Main). This operation is typically performed by a release engineer who manages the project vault. The work area is first populated with the Latest versions from 'Main'. Then the Latest versions from Dev are merged into the local versions. The -overlay option indicates that after the operation, the current branch and version information (as stored in local metadata) should be unchanged. Following the merge and after any merge conflicts are resolved, a check-in operation checks the merged version into 'Main'.

```
dss> url selector .
Main:Latest
dss> populate -recursive
dss> populate -recursive -merge -overlay Dev:Latest
[Resolve any merge conflicts]
dss> ci -recursive -keep .
```

Example of Replacing Modified Files with the Server Versions

This example shows use of the populate operation that deletes local versions.

Note: The DesignSync Milkyway integration has been deprecated. This example is meant to be used only as a reference.

Mike checks out the Milkyway collection object top_design.sync.mw, which fetches local version 4 of that object to his workspace. He modifies the object and creates local version 5. Then he checks in top_design.sync.mw. The check-in operation does not remove local versions, so Mike now has local version 5 (unmodified) and local version 4 in his workspace. (Note: Because the checkin removes local version 4's link to with the original check-out operation of top_design, DesignSync now considers local version 4 to be modified.)

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Ben checks out `top_design.sync.mw` (local version 5). He creates local version 6 and checks the object in.

Mike does some work on `top_design`, which creates local versions 6, 7, and 8 in his workspace. Then he decides to use Ben's version of the `top_design` object instead.

Mike uses `populate` to fetch the latest versions of Milkyway collection objects to his workspace. He doesn't want to save his local versions of the object, so he uses the `'-savelocal delete'` option to delete local versions other than the local version being fetched. In addition, he uses the `-force` option. (Because he created local versions 6, 7, and 8 of `top_design` in his workspace, DesignSync considers the `top_design` object to be locally modified and by default the `populate` operation does not overwrite locally modified objects. To successfully check out `top_design`, Mike must use `'-force'`.)

```
stcl> cd /home/tjones/top_design_library
stcl> populate -savelocal delete -force
```

Before fetching `top_design.sync.mw` from the vault, the `populate` operation first deletes all local versions that are unmodified. So the `populate` operation deletes Mike's local version 6 because that was the version originally fetched and its files are unmodified.

Because Mike specified the `-force` option, the `populate` also deletes Mike's local version 8 (the current local version containing modified data for the object).

Because Mike specified `'-savelocal delete'`, the `populate` operation deletes local version 7, which is not in the vault and is not the modified data Mike agreed to delete when he specified `'-force'`. If Mike specified `'-savelocal save'`, DesignSync would save local version 7. Local version 4 is also deleted.

Finally, Mike's `populate` operation fetches the `top_design` object (Ben's local version 6) from the vault.

Mike continues to modify the `top_design` object, creating local version 7, which he checks in.

Ben has local versions 5 and 6 in his workspace. He populates his workspace containing the `top_design` collection object (local version 7), specifying `'-savelocal fail'`. The `populate` operation removes local version 6 from his workspace because it is unmodified. The operation saves local version 5 even though it is modified. (Ben's checkin of local version 6 removed local version 5's link to with the original checkout of `top_design`, so DesignSync now considers local version 5 to be modified.) The `populate` also takes place despite the fact that Ben specified `'-savelocal fail'`. The `populate` operation takes this action because local version 5 has a number lower than the local version being fetched. If Ben had instead specified `'-savelocal delete'`, the `populate` operation would delete local version 5.

setmirror

setmirror Command

NAME

setmirror - Maps a mirror directory to a working directory

DESCRIPTION

This command associates a local working directory with a mirror directory. The mirror directory, as conveyed to you by your project leader, will contain a set of data for your project that is automatically updated by a Mirror Administration Server (MAS) at your site to exactly mimic the data set defined for your project vault. For example, your team may always want the Latest version of files on the main Trunk branch. Another team may want a mirror for a development branch, that always contains the file versions on that branch with a specific tag.

Each site will have a MAS for its LAN, which automatically maintains the site's mirrors, based on the definition of each mirror. Once your workspace is associated with a mirror, you can use the '-mirror' option to DesignSync revision control commands. The '-mirror' option results in symbolic links in your workspace, leading to files in the mirror.

All subdirectories of the local working directory inherit the mirror location you specify with setmirror. You cannot use setmirror on a subdirectory to specify a different mirror directory than is set for the parent directory.

Note:

To resolve the mirror location, DesignSync does not search above the root of a workspace where a setvault has been applied. Thus, if a setvault has been applied to a folder (/Projects/ASIC/alu) and you apply the 'setmirror' command at a higher-level folder (for example, /Projects/ASIC), the 'setmirror' command is ignored at and below the folder where the setvault occurred (/Projects/ASIC/alu).

By default, 'setmirror' stores the path to a mirror exactly as it was specified to the 'setmirror' command. To instead have 'setmirror' resolve the path, see the "DesignSync Client Commands Registry Settings" topic in the DesignSync Data Manager User's Guide.

To remove the association between a working directory and a mirror directory (an 'unsetmirror' operation), specify an empty string ("") as the mirror directory argument. When specifying an empty string as the mirror directory argument, the 'setmirror' command must be run from within a DesignSync shell. An Operating System shell cannot pass an empty string value to a DesignSync shell.

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Executing `setmirror` without any arguments displays the mirror for the current directory, or an empty string if the current directory has no mirror set.

Note:

Mirrors can be treated in the same way as your DesignSync work areas. For example, you can use commands such as the `url` commands or `ls` on mirror directories.

SYNOPSIS

```
setmirror [--] [<mirrorDirectory> <localWorkingDirectory>]
```

OPTIONS

- `--`

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

`url mirror`, `populate`, `ci`, `co`, `cancel`

EXAMPLES

This example creates an association between a local working directory `/home/goss/Projects/ASIC` and the mirror directory `/users/admin/Projects/mirror/ASIC`.

```
dss> setmirror /users/admin/Projects/mirror/ASIC /home/goss/Projects/ASIC
ASIC: Success Set Mirror
dss> scd /home/goss/Projects/ASIC
dss> setmirror
file:///users/admin/Projects/mirror/ASIC
```

setselector

setselector Command

NAME

setselector - Sets the persistent selector list

DESCRIPTION

- [Notes for Using setselector](#)
- [Valid Selectors for Files-Based Objects](#)

This command sets the persistent selector list, as stored in an object's local metadata, for the specified objects. Any previous selector list is overwritten or cleared.

Note that two commands other than 'setselector' can also update the persistent selector list of an object:

- o The setvault command supports the following syntax:

```
setvault [-recursive] <vault>@<selectorList> <workareaFolder>
```

 which is equivalent to doing a 'setvault' followed by a 'setselector'.
- o The populate command sets the persistent selector of the workspace when a version is specified using the -version option.

Note:

To resolve a selector, DesignSync does not search above the workspace root of a workspace. Thus, if the workspace root is set on a folder (/Projects/ASIC/alu) and you apply the 'setselector' command at a higher-level folder (for example, /Projects/ASIC), the 'setselector' command is ignored at and below the folder where the setvault occurred (/Projects/ASIC/alu).

For single-branch environments, you may not need the setselector command. The default persistent selector list is 'Trunk', which is the default branch tag for branch 1. If you will not be working with additional branches, this default 'Trunk' selector may be sufficient.

The 'P' data key for the 'ls' command and the 'url selector' command report an object's persistent selector list.

To clear, or unset, the persistent selector list, specify an empty string ("") as the selector-list argument. Clearing the persistent selector list restores the default behavior of having an object inherit its persistent selector list from the parent folder. Any

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persistent selector list in local metadata is removed.

Note: You cannot unset the selector list from the UNIX command line using the DesignSync Concurrent Shell (dssc) client because null strings (") are not passed from the UNIX command line to the DesignSync client. In order to clear the persistent selector list without invoking a DesignSync client, you must use the Synchronicity Tcl Shell (stcl) with the `-exp` option, for example:

```
$ stcl -exp 'setselector "" <argument>'
```

The object arguments to the 'setselector' command can be versionable objects (files or collections), local folders, or top-level modules. The object's persistent selector list is set to the specified value. If you are doing a recursive setselector, all subfolders and objects in the hierarchy have their persistent selector lists cleared (unless a subfolder is configuration-mapped; see Configuration Mapping).

Important: Persistent selector lists set on subfolders or individual managed objects in a work area are not obeyed by the 'populate -recursive' command. Therefore, the 'setselector' command issues a warning when you set the persistent selector list on an object to a value that differs from its inherited value.

Notes for Using setselector

The following DesignSync commands use the persistent selector list to determine what version or branch to operate on: `populate`, `ci`, `co`, `import`. You can override the persistent selector list on a per-operation basis with the `-version` option (for `populate`, `co`, and `import`) or `-branch` option (for `ci`). However, using `-version` or `-branch` does not change the persistent selector list.

Valid Selectors for Files-Based Objects

The selector-list argument is a comma-separated list of one or more selectors. The list cannot contain whitespace. When you specify a selector list, the command uses the first valid selector in the list. Valid selectors are:

- o Branch and version numbers:
 - 1.2.4 (A branch has an odd number of period-separated numbers.)
 - 1.2.4.1 (A version has an even number of period-separated numbers.)
- o Version tags
- o Branches specified as:
 - <branchtag>:<version>
 - <branchtag>:Latest
 - <branchtag>: (equivalent to <branchtag>:Latest)
- o Date selectors specified as:
 - <branchtag>:Date(<date>)
 - VaultDate(<date>)
- o Auto-branch selectors specified as:

- Auto(<tag>)

Note: Auto-branches cannot be specified for modules.

Note:

You must specify branches explicitly in selector lists.

To do so, specify both the branch and version as follows:

'<branchtag><versiontag>', for example, 'Rel2:Latest'.

You can also use the shortcut, '<branchtag>:', for

example "Rel2:". If you don't explicitly specify the

branch selector in this way, DesignSync does not resolve

the selector as a branch selector. See the "selectors"

topic for details on selector lists, including descriptions

of these selector types.

SYNOPSIS

```
setselector [-recursive] [-selected] [--]
            <selector>[,<selector>...] <argument> [argument>...]
```

SELECTORS

- [-selector](#)

-selector

<selector> Set the persistent selector, or selector list to the argument. For a full list of allowed selectors, see the command Description section.

ARGUMENTS

- [Workspace Folder](#)
- [Workspace Objects](#)

Workspace Folder

<workspace folder> Sets the selector on the specified workspace folder.

Workspace Objects

<workspace object> Sets the select on the specified workspace object. The object cannot be a member of a module.

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OPTIONS

- [-recursive](#)
- [-selected](#)
- [--](#)

-recursive

-recursive Perform this operation on all objects in all subfolders in the hierarchy. DesignSync sets the selector list on the top-level folder, and clears the persistent selector list for each object in the hierarchy. Clearing the persistent selector list restores the default behavior of inheriting the persistent selector list from the folder on which the setselector command was applied.

-selected

-selected Perform this operation on objects in the select list (see the 'select' command) as well as the objects specified on the command line. If no objects are specified on the command line, this option is implied.

Note: 'Select lists' and 'selector lists' are two distinct features. 'Select lists', as managed by the 'select' and 'unselect' commands and used by commands that support the '-selected' option, are an optional way to specify on which objects DesignSync commands should operate. 'Selector lists', as managed by the 'setselector' command and the '-version' and '-branch' options to various commands, specify on which version or branch of a given object DesignSync commands should operate.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return

value is irrelevant.

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form "Objects succeeded (n)" and "Objects failed (n)", where 'n' is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception occurs (the return value is thrown, not returned).

SEE ALSO

ci, co, tag, selectors, setvault, url selector

EXAMPLES

- [Example Using the Persistent Selector List in a multi-branch environment](#)
- [Example of Using Setselector to Auto-Branch](#)

Example Using the Persistent Selector List in a multi-branch environment

The team methodology is that 'gold', 'silver', and 'bronze' are version tags, and 'Main' is the branch tag for the Main branch. Therefore, for each object fetched by the populate operation, DesignSync uses the following search order:

1. Fetch the version tagged 'gold'.
2. Fetch the version tagged 'silver'.
3. Fetch the version tagged 'bronze'.
4. Fetch the Latest version on the 'Main' branch.

The following example sets the persistent selector list for local folder MUX1, and all objects and subfolders within it, to 'gold,silver,bronze,Main:Latest'.

```
dss> setselector -recursive gold,silver,bronze,Main:Latest MUX1
dss> scd MUX1
dss> populate
```

Example of Using Setselector to Auto-Branch

In the following example, you want to auto-branch off the 'Trunk' branch to try 'what if' scenarios. You recursively set the

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persistent selector list for local folders Mod1 and Mod2 to 'Auto(Dev),Trunk'.

```
dss> setselector -recursive Auto(Dev),Trunk Mod1 Mod2
```

When you check in an object, DesignSync uses the Auto(Dev) selector, which checks in the new version to the 'Dev' branch, creating the branch if necessary. If you check out an object, DesignSync fetches the Latest version from the 'Dev' branch if 'Dev' exists, or the Latest version from 'Trunk' otherwise.

The following example clears the persistent selector list for the current folder and all subfolders so that the persistent selector list is inherited from the parent folder:

```
dss> setselector -rec "" .
```

The following example sets the persistent selector list for file 'test1.v' to 'Rel2.1:Latest'. Future checkins and checkouts of 'test1.v' will take place, by default, on the Rel2.1 branch.

```
dss> setselector Rel2.1:Latest test1.v
```

Note that using 'setselector' on individual files is not recommended, because inconsistent selector lists between objects and the top-level folder are not obeyed during populate operations.

setvault

setvault Command

NAME

```
setvault          - Associates a vault with a work area
```

DESCRIPTION

- [Using setvault with DesignSync objects](#)

This command maps a local folder (directory) to a revision-control vault folder (repository). If there is no workspace root directory already set above the local folder, the root directory will be defined one level above the highest folder level containing a defined vault connection by default or as defined on the Workspace panel in SyncAdmin. For more information Workspace root definition, see the DesignSync Data Manager Administrator's Guide.

Note: You can remove the mapping using the unsetvault command.

Using setvault with DesignSync objects

Setting the vault is the first step in placing design data under revision control or checking out (populating) data that is already managed.

Every local folder and file has a default client vault even if you have not explicitly set the vault. Client vaults:

- Reside in the location determined during installation of your client
- Cannot be accessed by other users, so you should only use the client vault to manage private data
- Are always identified using a file: URL

You must explicitly set the vault for a folder before you can check in objects contained in the folder.

Typically, you use server (remote) vaults, which are managed by Synchronicity servers (SyncServers), instead of client vaults. Server vaults:

- Can reside on your local host, but often reside on another host
- Can be accessed by any user who is authorized to do so
- Are always identified using a sync: URL

When you set the vault on a folder, that vault association is stored in the local metadata for that folder. Each subfolder inherits its vault association from its parent folder; the vault association is not stored in metadata unless the subfolder has an explicit setvault applied to it. Every versionable object (file or collection) in the hierarchy inherits its vault from the parent folder, although once a revision-control operation has been performed on the object, the vault association is stored in that object's metadata. Therefore, anytime you want to change a vault setting (as opposed to setting the vault for the first time), use the `-recursive` option. The recursive operation removes all vault associations that are stored in metadata, which causes all objects in the hierarchy to inherit their vault associations from the folder on which the setvault is applied.

Notes:

- o To resolve a selector, DesignSync does not search above the root of a workspace where a setvault has been applied. Thus, if a folder has no selector or persistent selector set, DesignSync searches up the hierarchy only as far as the first folder that has a vault association.
- o If the number of characters in the path to the vault exceeds 1024, revision control operations may fail.
- o Vault settings on subfolders in a work area are not obeyed by the 'populate -recursive' command. Consider using REFERENCES in sync_project.txt files to redirect a subfolder to a

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different vault. See the Design Reuse book in DesignSync Data Manager User's Guide for more information.

When you use the 'setvault' command:

- The specified SyncServer must be running.
- If you specify a vault that does not exist, you get a warning so you can make sure that your vault path is correct. When you specify a new vault, the vault folder is not created until you check in design data.
- The local folder on which you are setting the vault must exist.
- You must have write permission for the parent folder of the folder for which you are setting the vault. You need write permission in order for DesignSync to create local metadata (as stored in .SYNC directories) for the parent folder.

SYNOPSIS

```
setvault [-recursive] [--] <vaultURL>[@<selector>[,<selector>...]]  
        <localFolder>
```

ARGUMENTS

- [Vault URL](#)
- [Local Folder](#)

Vault URL

<vaultURL> Specify the new location on the server for the top-level module or DesignSync object or folder. module should be specified in the following form:
<protocol>://<host>:<port>/[Modules|Projects/] <path>

- o Protocol indicates whether to use a standard connection or an SSL connection. For a standard connection use "sync" as the protocol. For an SSL connection, use "syncs" as the protocol.
- o Host is the machine on which the vault's SyncServer is running. Specify a full domain name, such as myhost.myco.com. You can specify just the machine name ('myhost' in this example) if you are on the same LAN as the SyncServer host machine.
- o port is the SyncServer port. You can omit the port specification if the SyncServer is using the default port of 2647.
- o path is the path to the vault you are creating or accessing. For a client vault, the path is the full, absolute path on your local machine. For a server vault, the path is relative to the server root as specified during the SyncServer installation.

Note: You must specify a top-level module folder. The setvault command does not work on referenced modules.

Local Folder

<localFolder> Specify the local folder to set as the workspace path for the DesignSync folder.

OPTIONS

- [-recursive](#)
- [--](#)

-recursive

-recursive The vault associations for all objects in the work area are updated so that they inherit the specified vault. Use -recursive when you are changing a vault specification (as opposed to setting the vault for the first time).

CAUTION: If a subfolder had an explicit setvault applied to it (so that the vault information is stored in the folder's local metadata), that vault association is removed and the subfolder reverts to inheriting its vault association from the parent folder.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

unsetvault, populate, unlock, tag, cancel, ci, co, url vault, setselector, selectors

EXAMPLES

- [Example of Associating a Server Vault with the Current Folder](#)
- [Example of Associating a Server Vault with a Specified Directory](#)
- [Example of Changing the Vault Association Recursively in a Workspace](#)
- [Example of Associating a Local Vault with a Specified Directory](#)

Example of Associating a Server Vault with the Current Folder

This example associates a server vault with the current folder. The vault directory 'Projects/Sportster' is relative to the server root directory that was specified during server installation.

```
dss> setvault sync://holzt.myco.com:2647/Projects/Sportster .
```

Example of Associating a Server Vault with a Specified Directory

You can specify the local folder using relative or absolute paths, and you can omit the port specification because the SyncServer is using the default port of 2647:

```
dss> setvault sync://holzt.myco.com/Projects/Sportster ../Sportster
dss> setvault sync://holzt.myco.com/Projects/Sportster
/home/goss/Sportster
```

Example of Changing the Vault Association Recursively in a Workspace

This example changes the vault association for a work area, which requires the `-recursive` option, and sets the work area persistent selector list to 'auto(Debug),Main:Latest':

```
dss> setvault -rec \
sync://holzt.myco.com/Projects/Sportster@auto(Debug),Main:Latest .
```

Example of Associating a Local Vault with a Specified Directory

This example creates an association between the local folder '/home/goss/lunarLander' and the client vault 'file:///home/goss/myVault/lunarLander'.

```
dss> setvault file:///home/goss/myVault/lunarLander /home/goss/lunarLander
```

Note: Client vaults cannot be shared across project teams. Only specify a client vault when you alone will be accessing the data.

unsetvault Command

NAME

unsetvault - Disassociates a vault from a work area

DESCRIPTION

This command removes the mapping between a local folder or object and a revision-control vault or folder (repository) by removing the associated metadata for the object. This metadata is stored in the .SYNC directory within each DesignSync workspace folder.

The primary uses for this command are to unset a vault association incorrectly applied to a folder, or, if a folder is copied from one workspace to another workspace, to remove the metadata associated with the original workspace.

If you specify an entire folder, the .SYNC directory is completely removed. If you specify a specific object, only the metadata for that object is removed.

The unsetvault command is not applicable to any of the following data objects:

- o Cached objects
- o Mirrored objects

If the unsetvault is used on any of the above data objects, or used with the -recursive option on a folder containing any of the above objects, the command fails without removing the vault association of any of the objects in the workspace.

Note: Unsetvault does not remove a vault setting inherited from the parent folder.

SYNOPSIS

```
unsetvault [-[no]recursive] <argument> [...]
```

ARGUMENTS

- [DesignSync Object](#)
- [Workspace Folder](#)

DesignSync Object

<DesignSync object> Specify the name of the DesignSync object to disassociate from the server vault.

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Workspace Folder

<Workspace folder> Specify the local workspace folder to remove the vault association from.

OPTIONS

- [-\[no\]recursive](#)
- [==](#)

-[no]recursive

-[no]recursive Controls whether the vault associations for all objects in the work area are removed.

-recursive removes the vault association for all objects, including subfolders, in the workspace.

Note: The -recursive option is only valid for folders.

CAUTION: If a subfolder had an explicit setvault applied to it (so that the vault information is stored in the folder's local metadata), that vault association is also removed.

-norecursive removes the vault association for the specified object or folder, but does not traverse the folder structure.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

If the command is successful, DesignSync returns an empty string (""). If the command fails, DesignSync returns an error explaining the failure.

SEE ALSO

```
setvault, populate, ci, co, url vault, setselector, selectors
```

EXAMPLES

This example shows using `unsetvault` to remove the vault setting from `chip` workspace directory. Note that after the vault setting has been removed, the directory shows the default `client_vault` URL, indicating that the vault association has not been set.

```
stcl> url vault ./chip

sync://srv2.ABCo.com:2647/Projects/chip

stcl> unsetvault chip

Removing all metadata in /home/rsmith/workspaces/chip

stcl> url vault ./chip
file:///home/rsmith/syncdata/client_vault/home/rsmith/workspaces/example

stcl>
```

unsetvault

unsetvault Command

NAME

```
unsetvault          - Disassociates a vault from a work area
```

DESCRIPTION

This command removes the mapping between a local folder or object and a revision-control vault or folder (repository) by removing the associated metadata for the object. This metadata is stored in the `.SYNC` directory within each DesignSync workspace folder.

The primary uses for this command are to unset a vault association incorrectly applied to a folder, or, if a folder is copied from one workspace to another workspace, to remove the metadata associated with the original workspace.

If you specify an entire folder, the `.SYNC` directory is completely removed. If you specify a specific object, only the metadata for that object is removed.

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The unsetvault command is not applicable to any of the following data objects:

- o Cached objects
- o Mirrored objects

If the unsetvault is used on any of the above data objects, or used with the -recursive option on a folder containing any of the above objects, the command fails without removing the vault association of any of the objects in the workspace.

Note: Unsetvault does not remove a vault setting inherited from the parent folder.

SYNOPSIS

```
unsetvault [-[no]recursive] <argument> [...]
```

ARGUMENTS

- [DesignSync Object](#)
- [Workspace Folder](#)

DesignSync Object

<DesignSync object>	Specify the name of the DesignSync object to disassociate from the server vault.
---------------------	--

Workspace Folder

<Workspace folder>	Specify the local workspace folder to remove the vault association from.
--------------------	--

OPTIONS

- [-\[no\]recursive](#)
- [==](#)

-[no]recursive

-[no]recursive	Controls whether the vault associations for all objects in the work area are removed.
----------------	---

-recursive removes the vault association for all objects, including subfolders, in the workspace.

Note: The `-recursive` option is only valid for folders.

CAUTION: If a subfolder had an explicit `setvault` applied to it (so that the vault information is stored in the folder's local metadata), that vault association is also removed.

`-norecursive` removes the vault association for the specified object or folder, but does not traverse the folder structure.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

If the command is successful, `DesignSync` returns an empty string (`""`). If the command fails, `DesignSync` returns an error explaining the failure.

SEE ALSO

`setvault`, `populate`, `ci`, `co`, `url vault`, `setselector`, `selectors`

EXAMPLES

This example shows using `unsetvault` to remove the vault setting from `chip` workspace directory. Note that after the vault setting has been removed, the directory shows the default `client_vault` URL, indicating that the vault association has not been set.

```
stcl> url vault ./chip
```

```
sync://srv2.ABCo.com:2647/Projects/chip
```

```
stcl> unsetvault chip
```

```
Removing all metadata in /home/rsmith/workspaces/chip
```

```
stcl> url vault ./chip
```

```
file:///home/rsmith/syncdata/client_vault/home/rsmith/workspaces/example
```

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stcl>

Primary Revision Control

cancel

cancel Command

NAME

cancel - Cancels a previous checkout operation

DESCRIPTION

- [Notes on Using cancel with Collections](#)
- [Notes on Using cancel with File-Based Objects](#)
- [Auto-Branching for File Objects and Legacy Modules Objects](#)

This command effectively performs an "un"checkout operation on the specified locked object. This operation unlocks objects previously locked in that work area and leaves the objects in the specified state.

If the object was modified locally, it remains in your directory by default. If you specify the "-force" option, the object is re-fetched from the server and the local modifications are discarded.

You lock a branch by checking out an object by using the '-lock' option with the 'co', 'populate', or 'ci' commands. Only one user can have a lock on an object at a time. Having a lock prohibits other users from checking in changes to that branch; however, other users (or the same user in different work areas) can independently lock, unlock, and check in changes to other branches. The cancel command only cancels a checkout you have performed. To unlock a file locked by another user, use the unlock command.

DesignSync determines what state to leave files in your work area after the cancel operation completes as follows:

1. DesignSync obeys the state option (-keep, -share, -mirror, -reference) specified on the command line.
2. If no state option is specified, DesignSync uses the default fetch state as specified by your project leader. See the "fetch preference" help topic for more information.
3. If a default fetch state is not defined, the default behavior for 'cancel' is -keep.

Note: If the object being operated on has been designed uncachable, cancel automatically ignores the -share and -mirror option and performs the operation in -get mode. For more information, see the

caching commands.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Notes on Using cancel with Collections

If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the SyncAdmin "Map operations on collection members to owner" setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

Notes on Using cancel with File-Based Objects

If an object was explicitly excluded from a cancel operation by `-exclude` (for DesignSync objects) the command output message indicates that the object was "excluded by filter."

Auto-Branching for File Objects and Legacy Modules Objects

You can create a new, locked branch by using `'co -lock'` with a selector and autobranching. This branch can be unlocked without creating a new version by:

- Using `'cancel'` from the workspace where the branch was locked.
- Using `'unlock'` on the vault.
- Using `'ci'` from the workspace where the branch was locked, without making modifications.

In these cases, the lock is removed from the vault, the auto-created branch is removed, and the branch tag is deleted. If the branch is removed but still exists in the metadata of a workspace, some commands (such as the `'url'` commands and `'vhistory'`) will fail with "No such version."

SYNOPSIS

```
cancel [-exclude <object>[,<object>...]] [-[no]force]
      [-keep | -share | -mirror | -reference] [-[no]selected]
```

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```
[-[no]retain] [-trigarg <arg>] [--] [<argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync File Object](#)
- [DesignSync Folder](#)

DesignSync File Object

<DesignSync object> Specify a versionable file on the server or in your workspace (local) to cancel the lock on the object.

Note: If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. For more information on collections are processed by the cancel command, see the Notes section of the command Description.

DesignSync Folder

<DesignSync folder> Specify a DesignSync folder in your workspace to cancel the lock on all objects in the folder. To unlock all objects in sub-folders of the specified folder, use the `-recursive` option.

OPTIONS

- [-exclude](#)
- [-\[no\]force](#)
- [-keep](#)
- [-mirror](#)
- [-\[no\]recursive](#)
- [-reference](#)
- [-\[no\]retain](#)
- [-\[no\]selected](#)
- [-share](#)
- [-trigarg](#)
- [--](#)

-exclude

`-exclude <fn>`

Specifies a comma-separated list of files and directories to be excluded from the operation. Wildcards are allowed.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive cancel), DesignSync compares the object's leaf name (path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `-exclude bin/*.exe`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `-exclude *.exe`, or `-exclude foo.exe` if you want to exclude only `'foo.exe'`. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the `-exclude` option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

-[no]force

`-[no]force`

Specifies whether to overwrite locally modified objects with the server version after removing the lock on the objects.

`-noforce` does not remove the file if a file has been locally modified. It does remove the lock, leaving the locally modified file in the workspace. (Default)

`-force` removes the lock and the file even when the object was modified locally.

Note: If a file is locally modified, and you do not specify `-force` in conjunction with `-share` or `-mirror`, the cancel operation fails.

-keep

`-keep`

Specifies whether to keep a local copy of objects after canceling a lock operation. You can change whether the local file is read-only or read/write by default by using the "Check out read only when not

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locking" option from the Tools->Options->General dialog box in the graphical interface.

This option is the default object-state option unless a default object state has been defined (see the "fetch preference" help topic for more information).

Note:

- A locally modified object is left in your directory by default unless you choose "-force", in which case the object is re-fetched from the server and the local modifications are discarded.
- If you fetch an object as a locked reference (using `co -lock -reference`, for example), specifying 'cancel -keep' for that object cancels the lock and fetches the file. To cancel the lock and keep a reference to the file, use 'cancel -reference'.

-mirror

-mirror

Create a symbolic link to the file in the mirror directory. This option requires that you have associated a mirror directory with your working directory with the `setmirror` command. In addition, the effective workspace selector (set using 'setselector', 'setvault', or the `-branch` option) must match the mirror workspace selector.

Note:

- o This option is not supported on Windows platforms.
- o When operating on a mirror directory, the cancel operation does not require an exact match between the workspace selector and the mirror selector in the case of `<BranchName>:` or Trunk selectors. The cancel operation considers:
 - A selector of 'Trunk' to be the same as 'Trunk:' and 'Trunk:Latest'
 - A selector of `<BranchName>:` to be the same as `<BranchName>:Latest`

-[no]recursive

-[no]recursive

Determines whether to cancel the lock on the objects in the specified folder or all objects

in the folder and all objects in the subfolders. This option is ignored if the argument is not a DesignSync folder.

`-norecursive` removes locks only from objects in the specified folder. It does not remove locks from any subfolders of the specified argument. (Default)

`-recursive` removes locks from the specified folder and all subfolders.

Note: On GUI clients, `-recursive` is the initial default.

-reference

`-reference`

Keep a reference to the file in the directory after the cancel operation. A reference does not have a corresponding file on the file system but does have DesignSync metadata that makes it visible to Synchronicity programs.

Note: When operating on a collection object, you should not use the `-reference` option. When the `-reference` option is used on a collection, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-[no]retain

`-[no]retain`

Retain the 'last modified' timestamp of the checked-out object as recorded when the object was checked into the vault.

The `-retain` option is applicable only when the cancel operation is dealing with physical copies, as is the case when you specify the `-keep` option. The `-share` and `-mirror` options create links to shared objects, so timestamps cannot be set on a per-user basis. The `-share` and `-mirror` options automatically use `-retain` behavior; objects in the mirror/cache retain their original timestamps. However, links in your work area to the cache/mirror have timestamps of when the links were created. If you specify the `-reference` option, no object is created in your work area, so there is no timestamp information at all.

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If you do not specify '-retain' or '-noretain', the cancel command follows the DesignSync registry setting for Retain last-modification timestamps. By default, this setting is not enabled; therefore, the timestamp of the local object is the time of the cancel operation. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see the SyncAdmin help.

-[no]selected

-[no]selected

Determines whether the operation is performed just on the objects specified at the command line or on objects specified at the command line and objects in the select list (see the 'select' command)

-noselected cancels the locks only for objects specified on the command line. (Default)

-selected cancels the locks for objects specified on the command and in the select list.

Note: If no objects are specified on the command line, the -selected option is implied.

-share

-share

Keep a copy of the file in the cache directory, and create a link from the working directory to the file in the cache.

Note: This option is not supported on Windows platforms.

If you use 'cancel -share' on a collection object, for any collection member that is a symbolic link, DesignSync creates a symbolic link to the member object itself and not to the cache. Note: Collections existing entirely of symbolic links are not supported.

-trigarg

-trigarg <arg>

Specifies an argument to be passed from the command line to the triggers set on the cancel operation. If the argument contains

whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({} if using the stcl command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form "Objects succeeded (n)" and "Objects failed (n)", where 'n' is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception occurs (the return value is thrown, not returned).
- Objects reported as "excluded by filter," may have been excluded either with the -filter option (for modules) or with the -exclude option (for DesignSync objects.)

SEE ALSO

caching, co, command defaults, ci, select, switchlocker, unlock

EXAMPLES

This example cancels the checkout of all files ending in '.v', except those whose filenames begin with 'new', leaving links to files in the cache.

```
dss> cancel -share -exclude new* *.v
```

ci

ci Command

NAME

ci - Checks in the specified objects

DESCRIPTION

- [Versions and Branches](#)
- [Changing Checkin Comments](#)
- [Understanding the Output](#)
- [Object States](#)
- [Determining the Objects to be Checked In](#)
- [Determining Which Branch is Selected for the Check In](#)
- [Filtering or Excluding Objects From Checkin](#)
- [Interaction with Mirrors](#)

This command checks in the specified objects, creating a new version in each object's vault.

Note: The check-in operation requires that your work area folder be associated with a DesignSync vault location on the server. Otherwise, the operation will fail.

Usually, you need to set up the vault association only once, as the first step in placing design data under revision control or before you do an initial populate of the work area. For modules, the vault association occurs automatically during populate operations. To determine if your work area is associated with a vault, use the url vault command. For information on setting up the association, see the setvault command. For information on setting up the association with a module, see the mkmod and populate commands.

If you copied managed data into your workspace, ci detects that, and fails. To omit this check, see the "Advanced Registry Settings" topic in the DesignSync Data Manager Administrator's Guide.

Note: DesignSync requires the names of objects being checked in contain only characters that are part of the standard ASCII character set. You should also avoid the following characters, which are explicitly disallowed only for module names, to minimize confusion:
~ ! @ # \$ % ^ & * () , ; : | ` ' " = [] / \ < >

Using SyncAdmin, you can explicitly disallow any or all of these reserved characters in object and path names. For more information, see the DesignSync Administrator's Guide.

This command supports Enterprise Design Synchronization. For more information on Enterprise Design Synchronization, see How Checkin Works with Enterprise Design Synchronization below.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Versions and Branches

A version is a permanent, immutable snapshot of your design object. Each version is assigned a unique, consecutive version number that you can use to retrieve or otherwise identify the object in the future.

Version numbers take the form of 1.1, 1.2, 1.3, and so on, where the number following the period identifies the version, and the '1' preceding the period identifies the branch (branch 1, also known as Trunk). A branch is a line of development. Projects that require multiple lines of development (parallel development) can define multiple branches. Version numbers on branches other than Trunk still take the form <branch>.<version>, where <branch> is an odd number of period-separated numbers. For example, version 1.2.4.3 is the third version on branch 1.2.4, where 1.2.4 is the fourth branch off version 1.2, where 1.2 is the second version on branch 1.

Because branch and version numbers are not memorable, you can apply symbolic names, called tags, to versions and branches. Tags also let you associate related versions of different design objects, called configurations. See the "tag" help topic for details.

Changing Checkin Comments

The checkin comments for files checked into a vault can be modified using the url setprop command. The <new checkin comment> is optional on the command line and the user is prompted for it if not specified. Here is the syntax:

```
url setprop <versionURL> log [<new checkin comment>]
```

If the user changing the comment is not the author of the version, a note with the user name and date and stating that the comment was changed is prepended to the new comment.

For example:

```
stcl> url setprop [url vault new_d]1.5 log "New comment set from \
other user"
New comment set from other user
stcl> url getprop [url vault new_d]1.5 log
Comment changed by JerryL Jun 02 2005, 08:19:13 EDT
New comment set from other user
```

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stcl>

If a comment is not specified at the command line, and DesignSync is set to use a file editor for comments, the designated file editor is launched, otherwise a comment can be entered interactively on the command line. For more information on defining a file editor for comments, see the DesignSync Administrator's Guide, "General Options."

Note: The client-side minimum comment length is checked.

Understanding the Output

The ci command provides the option to specify the level of information the command outputs during processing. The -report option allows you to specify what type of information is displayed:

If you run the command with the -report brief option, the ci command outputs the following information:

- o Failure messages.
- o Warning messages.
- o Informational messages concerning the status of the checkin operation.
- o Success/failure/skip status.

If you do not specify a value, or the command with the -normal option, the ci command outputs all the information presented with -report brief and the additional information for each successful object checkin, excluded objects, or omitted objects.

If you run the command with the -report verbose option, the ci command outputs all the information presented with -report normal and information about each object examined or filtered.

If you run the command with the -report error option, the ci command outputs the following information:

- o Failure messages.
- o Warning messages.
- o Success/failure/skip status messages.

Object States

DesignSync determines what state to leave objects checked into your work area as follows:

1. DesignSync obeys the state option (-keep, -lock, -share, -mirror, -reference) specified on the command line.
2. If no state option is specified, DesignSync uses the default fetch state as specified by your project leader. See the "fetch preference" help topic for more information.
3. If no default fetch state is defined, the default behavior for ci is -keep.

Important:

- o The `ci` command processes only locked or modified objects. DesignSync changes the state of only those objects that have been checked in. To set all of the objects in your work area to the same state, use `'populate -unifystate'`. To check in unmanaged (new) objects, use `'ci -new'`.
- o PreFolder check-in triggers fire on folders that contain locked or modified objects being checked in. For some check-in operations like recursive checkins with `-force` or `-new` options, preFolder triggers might also fire on folders that do not contain modified or locked objects being checked in.
- o If the object is designated as uncachable, attempts to place objects in the cache (`ci -mirror`; `ci -share`) will automatically populate the workspace with unlocked copies (`-keep` mode). For more information on cachability, see the "caching" commands.

By default (unless you use the `-force` option), DesignSync does not create a new version when you attempt to check in an object that is not locally modified. An object is defined as "locally modified" if its timestamp has been changed.

For collections that have local versions, the check-in operation usually does not change the set of local versions in your workspace. However, there is an exception to this behavior. The check-in operation changes the set of local versions in your workspace when the originally fetched state of the object was Cache or Mirror. In this case, the check-in operation replaces files linked to the cache or mirror with physical copies.

Determining the Objects to be Checked In

By default, DesignSync only checks in modified objects. An object is considered modified when it meets the following criteria:

- * The current timestamp of the object in the workspace is later than the fetched timestamp of the object.
- * The current size or checksum of the object is different than the fetched object size or checksum.

Determining Which Branch is Selected for the Check In

Arguments to the `ci` command must represent versionable objects (files or collections), or local folders (only meaningful when you use the `-recursive` option). The `ci` command operates on the current or specified branch of each of these objects. When you are in a multi-branch design environment, DesignSync determines what branch you want to check into as follows:

1. DesignSync obeys the `-branch` option, operating on the Latest

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version on the specified branch. Using this option is not typical, however, because the default behavior (without `-branch`) is usually the correct and intuitive behavior.

2. If `-branch` is not specified and you have the current branch locked in your work area, DesignSync checks into the current branch.
3. Otherwise, DesignSync uses the first selector of the object's persistent selector list ('Trunk' by default, or as defined by the `setselector` command). If the selector does not resolve to 'Trunk' or some other valid branch for the object (specified as `<branch>:<version>`, for example `Rel2:Latest`), the operation fails.

Complex selector lists are a powerful capability for populate and check-out operations, but they can be dangerous for check-in operations. When creating a new version, there should be no uncertainty as to which branch to create the version on. Therefore, `ci` considers only the first selector in the persistent selector list.

See the "selectors" help topic for details on selectors, selector lists, and persistent selector lists.

Filtering or Excluding Objects From Checkin

DesignSync features two ways to control the objects being checked in. For objects in source control, exclude lists are used to exclude DesignSync objects. Exclusion lists can be saved with command defaults or specified using the `-exclude` option.

For objects that are not in source control, exclude files can be created on a per directory basis to prevent unmanaged objects from being checked in. Objects that are excluded by exclude files cannot be reincluded by a filter. Exclude files are processed before the filter and exclude options set either by the command defaults or specified on the command line.

If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the SyncAdmin "Map operations on collection members to owner" setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

Interaction with Mirrors

When using a mirror (associated with a workspace with the `setmirror` command), objects are written directly to the mirror directory. You must have write privileges to the mirror directory. For the mirror write-through to occur, the effective workspace selector (set using `setselector`, `setvault`, or the `-branch` option) must also match the mirror workspace selector. You can disable this behavior using `SyncAdmin->Site Options->Mirror Write-through`.

Notes:

- o When operating on a mirror directory, the check-in operation does not require an exact match between the workspace selector and the mirror selector in the case of `<BranchName>:` or `Trunk` selectors. The check-in operation considers:
 - A selector of `'Trunk'` to be the same as `'Trunk:'` and `'Trunk:Latest'`
 - A selector of `<BranchName>:` to be the same as `<BranchName>:Latest`

SYNOPSIS

```
ci [-branch <branch> | -branch auto(<branch>)]
   [-[no]comment"<text>" | -cfile <file>] [-datatype ascii | binary]
   [-[no]dryrun] [-exclude <object>[,<object>...]] [-[no]force]
   [-[no]iflock] [-keep [-keys <mode>] | -lock [-keys <mode>] |
   -share | -mirror | -reference] [-[no]new] [-[no]recursive]
   [-report {error | brief | normal | verbose}] [-[no]retain]
   [-[no]selected] [-[no]skip] [-tag <tagname>] [-trigarg <arg>] [--]
   [<argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync File Objects](#)
- [DesignSync Folder Objects](#)

Specify one or more of the following arguments:

DesignSync File Objects

`<DesignSync object>` Checks the object into its vault. If the object is unmanaged, apply the `-new` option.

DesignSync Folder Objects

`<DesignSync folder>` The `ci` command does not check in local folders,

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but checks in their contents if you specify the `-recursive` option. If the folder contains unmanaged objects, apply the `-new` option.

OPTIONS

- [-branch](#)
- [-\[no\]comment](#)
- [-cfile](#)
- [-datatype](#)
- [-\[no\]dryrun](#)
- [-exclude](#)
- [-\[no\]force](#)
- [-\[no\]iflock](#)
- [-keep](#)
- [-keys](#)
- [-lock](#)
- [-mirror](#)
- [-\[no\]new](#)
- [-recursive](#)
- [-reference](#)
- [-report](#)
- [-\[no\]retain](#)
- [-\[no\]selected](#)
- [-share](#)
- [-\[no\]skip](#)
- [-tag](#)
- [-trigarg](#)
- [==](#)

-branch

```
-branch <branch>  
| -branch  
  auto(<branch>)
```

Performs the checkin on the branch specified by the branch or version tag, auto-branch selector, or branch numeric. This option overrides the object's persistent selector list. If a version is retrieved in the workspace, this is used as the branch-point version for any new branch created.

For a checkin using an auto-branch selector, for example `Auto(Golden)`, if there already exists a version 'Golden', the checkin fails. However, if 'Golden' exists as a branch, the effective selector is 'Golden:Latest'; the checkin succeeds and no new branch is needed. If there is neither a version nor a branch named 'Golden' for the object, a new branch is created and it is named 'Golden'. If a version is retrieved in the workspace, this is used as the branch-point

version for the new branch created. For example, if version 'Golden' is retrieved in the workspace, it is used as the branch-point version. If version 'Golden' is retrieved but it has no metadata information as a consequence of being removed from the vault earlier, DesignSync uses the latest version on branch '1' as the branch-point version. Finally, if there is no vault (in this case, the `-new` option must be specified), DesignSync creates a new vault (branch 1). Branch 1 is named 'Golden'.

Notes:

- The `-branch` option accepts a branch tag, a version tag, a single auto-branch selector tag, or a branch numeric. It does not accept a selector or selector list.
- The `-skip` option is required when you are checking into a branch other than the current branch unless your current version is the branch-point version and there are no versions on the branch. For example, if you have version 1.4, you can only create versions 1.5, 1.4.1.1, 1.4.2.1, and so on, unless you use `-skip`.
- The persistent selector list of the object you are checking in is not updated by the check-in operation. Subsequent operations that use the persistent selector list will not follow the branch you just checked into. If you want to continue working on this branch, you must set the persistent selector list with the `setselector` command.

-[no]comment

`-[no]comment`
`"<text>"`

Specifies whether to check in the specified object with or without a description of changes. If you specify `-comment`, enclose the description in double quotes if it contains spaces. The check-in comment is appended to the check-out comment if one was specified. The comments associated with a version are also called the "log". The ampersand (&) and equal (=) characters are replaced by the underscore (_) character in revision control notes.

If you specify `-nocomment`, and the object was checked out with comments (`'co -comment'`), the check-out comments are retained during check-in.

If you do not specify `-comment`, `-nocomment`, or `-cfile`, DesignSync prompts you to enter a check-in comment either on the command or by

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spawning the defined file editor. The `-cfile` option is mutually exclusive with `-[no]comment`. For more information on defining a file editor, see the DesignSync Data Manager Administrator's Guide, "General Options."

Note: If the `-tag` option is specified along with the `-comment` option, the comment text is used as both the tag comment and the checkin comment.

-cfile

`-cfile`
`<file>`

Specifies a file containing a text comment to use as the description of the new release. DesignSync accepts a comment of any length up to 1MB. Long comments may be truncated in the output of commands that show comments. If the comment includes ampersand (&) or equal (=) characters, they are replaced by the underscore (_) character in revision control notes.

This option respects the minimum comment length.

The `-cfile` option is mutually exclusive with `-[no]comment`. If you do not specify one of the three options, `-comment`, `-cfile`, or `-nocomment`, DesignSync prompts you to enter a check-in comment either on the command line or by spawning the defined file editor. For more information on defining a file editor, see the DesignSync Data Manager Administrator's Guide, "General Options."

-datatype

`-datatype ascii|`
`binary`

Indicates whether to disable the autodetect feature of DesignSync and create the object being checked in with the specified data type. The `datatype` option can only be specified when the object is initially created.

`-datatype ascii` creates the new object with a data type of `ascii`.

`-datatype binary` creates the new object with a data type of `binary`. Binary objects cannot be merged, they can only be replaced. ZIP vaults are always checked in using binary mode, regardless of whether the vault's data type is designated as `ascii`.

Note: For vault objects, this option only applies for when checking in new data. To change the data

type of an existing object, use the `url setprop` command.

-[no]dryrun

`-[no]dryrun` Specifies whether to treat the operation as a trial run; if `-dryrun` is specified, no objects are actually checked in. By default (`-nodryrun`), `ci` performs a standard checkin.

The `-dryrun` option helps detect problems that might prevent the checkin from succeeding. Because local object and vault states are not changed, a successful dry run does not guarantee a successful checkin. Errors that can be detected without state changes, such as a vault or branch not existing, merge conflicts, or a branch being locked by another user are reported. Errors such as permissions or access rights violations are not reported by a dry run. Note that a dry run checkin is significantly faster than a normal checkin.

-exclude

`-exclude <objects>` Specifies a comma-separated list of objects (files, collections, or folders) to be excluded from the operation. Wildcards are allowed.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive checkin), DesignSync compares the object's leaf name (with the path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `'-exclude bin/*.exe'`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `'-exclude *.exe'`, or `'-exclude foo.exe'` if you want to exclude only `'foo.exe'`. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the `-exclude` option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

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-[no]force

`-[no]force` Specifies whether to force the creation of a new version even if it is identical to the previous version. By default (`-noforce`), the timestamp of the file in the workspace is compared with the timestamp of the version in the vault. If the timestamp of the file to be checked in has not changed, then no new version is created. You might use `-force` to synchronize version numbers across several objects.

Note that you must have a local copy of the object in your work area for a new version to be created. A new version is not created if the object does not exist or is a reference.

Note: Use the `-force` option only if necessary. Using the `-force` option slows the check-in process because `ci` must process all objects and not just the locked or modified objects.

-[no]iflock

`-[no]iflock` Specifies whether to check in all modified objects in the checkin selection or only the ones that locked objects.

-The `noiflock` option (Default) searches the entire selection of `ci` for modified files to checkin. This means different things for different operations, for example, it can mean all the files recursively in a directory, or all the files that match a specified selector. This can be a labor-intensive option, but it can also pick up any changes that might have been forgotten.

The `-iflock` option only checks in files that are locked in the workspace. This provides a quicker checkin operation as well as security to prevent accidental modifications to unintended files.

-keep

`-keep` Leave a local copy of the object in the work area after checking it in. This option is the default object-state option unless a default object state has been defined (see the "fetch preference" help topic for more information).

You cannot use this option when you have enabled Link-In of large files.

Note: 'ci -keep' is equivalent to following the check-in operation with 'co -get'.

You can change whether the local object is read-only or read/write by default by using the "Check out read only when not locking" option from the Tools->Options->General dialog box in the DesignSync graphical interface, or your project leader can set this option site-wide using SyncAdmin.

-keys

`-keys <mode>`

Controls processing of RCS-style revision-control keywords in objects that remain in your work area after checkin. Note that keyword expansion is not the same as keyword update. For example, the `$Date$` keyword is updated only during checkin; its value is not updated during checkout or populate.

Available modes are:

`kkv` - (keep keywords and values) The local object contains both revision control keywords and their expanded values; for example, `$Revision: 1.4 $`.

`kk` - (keep keywords) The local object contains revision control keywords, but no values; for example, `$Revision$`. This option is useful if you want to ignore differences in keyword expansion, such as when comparing two different versions of an object.

`kv` - (keep values) The local object contains expanded keyword values, but not the keywords themselves; for example, `1.4`. This option is not recommended if you plan to check in your local objects. If you edit and then check in the objects, future keyword substitution is impossible, because the value without the keyword is interpreted as regular text.

`ko` - (keep output) The local object contains the same keywords and values as were present at check in.

Note:

- The `-keys` option works only with the `-keep`

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and `-lock` options. If you use the `-share` or `-mirror` option, keywords are automatically expanded in cached or mirrored objects, as if the `'-keys kkv'` option was used.

- The `EnableKeywordExpansion` setting controls the expansion of keys during a check-in operation. This setting overrides the `-keys` option; if disabled, there is no expansion of keys, regardless of the use of the `-keys` option. By default, this setting is enabled; the check-in operation expands keywords. To change the default setting, your Synchronicity administrator can use the `SyncAdmin` tool. For information, see `SyncAdmin` help.
- The check-in operation detects binary files and collections and does not expand keywords when operating on these objects, even if the `Enable Keyword Expansion` setting is on.

-lock

`-lock`

Keep a locked local copy of the object in the work area after checking it in. Use this option if you want to create a new version of the object while continuing to make changes. Unless you use this option, the branch is unlocked after the check-in operation.

Note: To enforce the `-lock` option, you have to modify the access control file for DesignSync revision control operations. See Access Control guide for more information. For examples, see the "Using access filter to Check an Action" section in the "Sample Access Controls" topic.

-mirror

`-mirror`

Create a symbolic link from the work area to to the object in the mirror directory. This option requires that you have associated a mirror directory with your work area (see the `"setmirror"` command).

Note:

- o This option is not supported on Windows platforms.
- o If you have checked in objects using the `-mirror` option, incremental populates by team members do not necessarily fetch the new

objects until after the mirror has been updated.

- o The `ci` command does not allow this option if you use it when checking in module objects; in this case, `ci` issues an error message, but continues to check in other DesignSync objects.
- o When operating on a mirror directory, the check-in operation does not require an exact match between the workspace selector and the mirror selector in the case of `<BranchName>`: or Trunk selectors.

The check-in operation considers

- A selector of 'Trunk' to be the same as 'Trunk:' and 'Trunk:Latest'
- A selector of `<BranchName>`: to be the same as `<BranchName>:Latest`

-[no]new

`-[no]new`

Performs the initial checkin of unmanaged objects; objects that are not under revision control. By default (without `-new`), the check-in operation processes only managed objects. It is not an error to specify this option with managed objects.

Tip: Use the `-new` option only if you are checking in previously unmanaged objects. Using the `-new` option slows the check-in process because `ci` must process all objects and not just the locked or modified objects.

Checking in a new object creates a new version (1.1) on a new branch (branch 1). The new version is created on the branch specified using the `-branch` option. If the `-branch` option is not specified, the version is created on the branch defined by the first selector in the persistent selector list. If the selector is not a valid branch selector (specified using the `<branch>:<version>` syntax), the default branch tag 'Trunk' is applied -- DesignSync expects every branch to have a tag. For example, if you apply `'setselector VaultDate(yesterday)'` to a folder and then check in a previously unmanaged object from that folder, the object's new branch is tagged 'Trunk' because 'VaultDate(yesterday)' is not a valid branch tag name. See the "selectors" help topic for more details about how DesignSync resolves selectors.

The `-new` option also has the effect of unretiring a branch when you check in a new version onto a retired branch. When you unretire a branch, the retire information is removed. Viewing the

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history of the object will not show that the object was retired.

-recursive

`-[no]recursive` Specifies whether to perform this operation in just the specified folder(s) (default) or in its subfolders also.

Note: You cannot specify the `-recursive` option with the `-branch` option when creating a new module branch.

If you specify `-norecursive` when operating on a folder object, DesignSync does not operate on objects within that folder.

-reference

`-reference` Keep a reference to the object in the work area after the check-in operation. A reference does not have a corresponding file on the file system but does have DesignSync metadata that makes it visible to Synchronicity programs. References are useful when you want to have the complete context of the objects in a project, but do not need the objects locally.

Note: Synchronicity recommends against using the `-reference` option when operating on a collection object. If you use the `-reference` option, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-report

`-report error|brief|normal|verbose` Controls the amount and type of information displayed by `ci` command. The information each option returns is discussed in detail in the "Understanding the Output" section above.

`error` - lists failures, warnings, and success failure count.

`brief` - lists failures, warnings, module create/remove messages, some informational messages, and success/failure count.

normal - includes all information from brief and lists all the updated objects, and messages about objects excluded by filters from the operation. (Default)

verbose - provides full status for each object processed, even if the object is not updated by the operation.

-[no]retain

-[no]retain

Indicates whether to retain the 'last modified' timestamp of the objects that remain in your work area. If you are using the `-share` option or a mirror is set on the workspace, then this also applies to the object put into the file cache or mirror. The links for the cache or mirror in your work area use the link creation time as the "last modified" time.

If you specify the `-reference` option, no object is created in your work area, so there is no timestamp information at all.

If you do not specify `'-retain'` or `-noretain'`, the `ci` command follows the DesignSync registry setting for Retain last-modification timestamps. By default, this setting is not enabled; therefore, the timestamp of the local object is the time of the check-in operation. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin Help.

The mirror system by default fetches objects into the mirror with the `-retain` option. The mirror administrator can configure mirrors to use the `-noretain` option. The default setting should agree with the Retain last-modification timestamp registry setting to maintain consistency. See the "Mirror Administration Server Registry Settings" topic for setting of the `co` or `populate` options for mirrors.

-[no]selected

-[no]selected

Specifies whether to perform this operation on objects in the select list (see the `"select"` command), as well as the objects specified on the command line. If no objects are specified on the

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command line, `-selected` is implied. By default (`-noselected`), `ci` operates only on the objects specified on the command line.

-share

`-share` Put a copy of the object in the file cache directory, and create a link in the work area to that cached object.

Note: This option is not supported on Windows platforms.

If you use `'ci -share'` on a collection object, DesignSync checks in the symbolic link, unless it is a link to a cache.

-[no]skip

`-[no]skip` Specifies whether to check in the version even if it is not derived from the Latest version (the branch contains higher-numbered versions). By default (`-noskip`), versions are not skipped.

This situation can occur when you check out the Latest version without a lock and other users check in new versions prior to your checkin, or when you have intentionally checked out an older version of the object.

You also typically need `-skip` when using `-branch` to check into a branch other than the current branch. See `-branch` for details.

You must specify `-force` if the version you are checking in is not locally modified.

You must have local copies of the file versions that you want to check in. You cannot have links to a cache or mirror directory.

Caution: Changes in skipped versions are not reflected in the new Latest version and are effectively lost. Use the `-skip` option when you are intentionally promoting an older version of an object to be the Latest.

-tag

`-tag <tagname>` Tags the object version on the server with the specified tagname.

If the user does not have access to add a tag, the object is checked in without a tag.

For more information on access controls, see the ENOVIA Synchronicity Access Control Guide. For more information on version tags, see the tag command.

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the check-in operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({}) if using the stcl command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- "successfully processed" may not mean "successfully checked in". For example, attempting to check in an object that is not locally modified is considered a success even though no new version is created.
- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form "Objects succeeded (n)" and "Objects failed (n)", where 'n' is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception occurs (the return value is thrown, not returned).

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- Objects reported as "excluded by filter," may have been excluded either with the `-filter` option (for modules) or with the `-exclude` option.
- If a comment editor is defined, but cannot be used, the command automatically switches to the interactive command-line comment mode.

SEE ALSO

caching, cancel, co, command defaults, select, selectors, setmirror, setselector, tag, unlock

EXAMPLES

- [Example of Checking in a File without a Comment](#)
- [Example of Checking in New Files](#)
- [Example of Checking in Recursively](#)
- [Example of a Dry-Run Checkin Showcasing Wildcard Usage](#)
- [Example of Checkin to a Branch](#)

Example of Checking in a File without a Comment

The following example checks in the file 'pcimaster.vbh' without a comment, leaving a link to the cache in the work area:

```
stcl> ci -nocomment -share pcimaster.vbh
```

Example of Checking in New Files

The following example uses the `-new` option to check in previously unmanaged files 'alu.v' and 'decoder.v'. A check-in comment is provided. Note that no state option is specified, so the default fetch preference is used (or `-keep`, the default for `ci`, if no default fetch preference is defined):

```
stcl> ci -comment "Beta versions" -new alu.v decoder.v
```

Example of Checking in Recursively

The following example recursively checks in an entire work area, while retaining locks on the objects:

```
stcl> ci -rec -nocomment -lock .
```

Example of a Dry-Run Checkin Showcasing Wildcard Usage

The following example performs a dryrun checkin because of the complex wildcarding used to specify the objects to be checked in:

```
stcl> ci -dryrun -recursive -exclude *.vg,*.log pci*.* alu
```

Example of Checkin to a Branch

This example shows the typical "project branching" approach to working with multiple branches. The project leader, who has a work area containing all objects in the project, creates new branches off the current versions, sets the persistent selector list to use the new branch, then checks into the new branch. Team members set their selector lists to point to the new branch and then populate.

Project Leader:

```
stcl> mkbranch -rec Rel2.1 .
stcl> setselector -rec Rel2.1:Latest .
stcl> ci -com "Creating 1st version on Rel2.1 branch" top.v
```

Team Members:

```
stcl> setselector -rec Rel2.1:Latest .
stcl> populate
```

CO

co Command

NAME

```
co                - Checks out the specified objects
```

DESCRIPTION

- [Object States](#)
- [Determining the Objects to be Checked Out](#)
- [Checking Out Objects with Different Version Selectors](#)
- [Checkout Versus Populate](#)
- [How the Check-Out Operation Handles Collections with Local Versions](#)
- [Auto-Branching](#)

This command checks out the specified objects (files or collections). A checkout retrieves a working copy of a specified version of an object from the revision-control vault and places it in your work area.

Important: You must use the populate command rather than the co command when fetching modules or module objects. The co command does not support modules.

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This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Object States

Upon checking out the specified objects, DesignSync changes the state of all processed objects--the objects that need an update, as well as the up-to-date objects, as follows:

1. DesignSync obeys the state option (-get, -lock, -reference, -share, -mirror) specified on the command line.
Note: If objects are designed uncachable, the -share and -mirror states are silently ignored and the objects are populated with -keep. For more information, see the caching commands.
2. If no state option is specified, DesignSync uses the default fetch state as specified by your project leader. See the "fetch preference" help topic for more information.
3. If a default fetch state is not defined, the default behavior for 'co' is -get.

DesignSync changes the states of all objects being processed, even if they are already up-to-date. Specify the -nounifystate option if you want to change the state of only the objects that need an update.

If your team is using the locking design methodology:

- o You check out an object with a lock (-lock option) if you plan to edit the object. DesignSync locks the branch associated with the version you are checking out, prohibiting other team members from creating new versions on that branch. You, the holder of the lock, reserve the right to create the next version on that branch.
- o You "fetch" -- check out without a lock -- an object if you want read-only access to that object. You use the -get, -mirror, or -share option depending on your team's sharing methodology and the platform you are on (-mirror and -share are only available on Unix platforms).

If your team is using the nonlocking, or merging, design methodology, you always fetch objects, even if you plan to edit them. If you and another team member edit copies of the same object, the first person to check in the object creates the next version. The other person must first merge (-merge option) the changes from this new Latest version into his or her local copy, manually resolve any merge conflicts, then check in the merged object.

Determining the Objects to be Checked Out

Arguments to the 'co' command must be versionable objects (files and collections), or local folders (only meaningful when you use the -recursive option).

DesignSync determines what version of a design object you want to check out as follows:

1. DesignSync obeys the selector list specified by the -version option.
2. If -version is not specified, DesignSync uses the object's persistent selector list. The default persistent selector is 'Trunk', in which case DesignSync checks out the Latest version from Trunk.

See the "selectors" help topic for details on selectors, selector lists, and persistent selector lists.

In multi-branch environments, you use the 'co' and 'populate' commands to merge branches. In most cases, each new branch that is created is eventually merged back into the main development branch. See the -merge and -overlay options for more information on merging.

Note: If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the SyncAdmin "Map operations on collection members to owner" setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

Checking Out Objects with Different Version Selectors

When checking out multiple objects with different version selectors in a single operation, you can specify the version number or the branch selector of the objects you are checking out as an object;selector specification. The selector specified (in an object;selector) can be any legal selector, such as:

in a single operation, specify the version number or the branch

- o Trunk:Latest (branch selector)
- o golden (version selector)
- o auto
- o selector list (comma separated)

Note: The selector specified in an object;selector will always override any selector previously set (via setselector).

The object (in an object;selector) can be:

- o A relative path (in which case 'pwd' will get prefixed)
- o A URL
- o An absolute path

to the co command. Instead of only accepting an object to operate on,

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Note: You can perform "co object;selector" only on files and not folders.

Checkout Versus Populate

The 'co' and 'populate' commands are similar in that they retrieve versions of objects from their vaults and place them in your work area. They differ in several ways, most notably:

- o The 'co' command operates on objects that you already have locally, whereas 'populate' updates your work area to reflect the status of the vault. For example, you use 'co' to change the object state or to get a different version of a local object. You use 'populate' to retrieve versions of newly managed objects created by other team members. Note that for 'co', the object does not actually need to be local if you specify the exact name of the object (no wildcards are allowed). For example, 'co top.v' succeeds if the vault contains 'top.v'. However, it is more typical to use 'populate' to retrieve objects that are not currently in your work area.
- o You must use the populate command rather than the co command when fetching modules or module objects. The co command does not support modules.
- o The 'co' command considers the persistent selector list for each object that is checked out, whereas 'populate' only considers the persistent selector list for the top-level folder that is being populated.

How the Check-Out Operation Handles Collections with Local Versions

For collection objects that have local versions (for example, custom generic collections), the check-out operation handles local versions in the following way.

When you check out a collection object, the check-out operation removes from your workspace any local version of the object that is unmodified. (Because these local versions exist in the vault, you can refetch them.) The operation then fetches from the vault the specified collection object (with the local version number it had at the time of checkin).

If the current local version in your workspace is modified, the check-out operation fails unless you specify 'co -force'. (The -force option lets the local version with the modified data be replaced with the local version of the object you are checking out.) Note: The current local version is the one with the highest local version number. DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.

The -savelocal option tells the check-out operation what to do with

local versions in your workspace other than a current local version that is modified. For information, see OPTIONS.

Auto-Branching

You can create a new, locked branch by using 'co -lock' with a selector and autobranching. This branch can be unlocked without creating a new version by:

- o Using 'cancel' from the workspace where the branch was locked.
- o Using 'unlock' on the vault.
- o Using 'ci' from the workspace where the branch was locked, without making modifications.

In these cases, the lock is removed from the vault, the auto-created branch is removed, and the branch tag is deleted. If the branch is removed but still exists in the metadata of a workspace, some commands (such as the 'url' commands and 'vhistory') will fail with "No such version."

SYNOPSIS

```
co [-[no]comment "text"] [-[no]force] [-exclude <object>[,<object>...]]
  [[-lock [[-keys <mode>] | [-from {local | vault}]] [-merge]
  [-reference]] | [-get [[-keys <mode>] | [-from {local | vault}]]
  [-overlay <selector>[,<selector>...]] | -share | -mirror |
  -reference] [-merge] [-[no]recursive] [-[no]retain]
  [-savelocal <value>] [-[no]selected] [-trigarg <arg>]
  [-[no]unifystate] [-version <selector>[,<selector>...]]
  [--] [<argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)

DesignSync Object

<DesignSync object> Fetches the object from its vault.

DesignSync Folder

<DesignSync folder> Fetches the contents of the specified folder. You can also use the -dir option to specify a folder to be fetched.

OPTIONS

- [-comment](#)
- [-exclude](#)
- [-force](#)
- [-from](#)
- [-get](#)
- [-keys](#)
- [-lock](#)
- [-merge](#)
- [-mirror](#)
- [-overlay](#)
- [-\[no\]recursive](#)
- [-reference](#)
- [-\[no\]retain](#)
- [-savelocal](#)
- [-\[no\]selected](#)
- [-share](#)
- [-trigarg](#)
- [-\[no\]unifystate](#)
- [-version](#)
- [--](#)

-comment

-[no]comment
"text"

Specifies whether to check out the specified objects with a description attached. By default (-comment), co requires a comment. If you specify -nocomment, you can still provide comments when you check in the objects.

Enclose the description in double quotes if it contains whitespace. When you check in the objects, DesignSync appends check-in comments, if there are any, to the check-out comments to create a "version log".

The ampersand (&) and equal (=) characters are replaced by the underscore (_) character in revision control notes.

If you specify -comment without specifying text for the comment, or if -comment is set as the default, DesignSync prompts for a comment either interactively on the command line or with the defined file editor. For more information about using the defined file editor, see the

DesignSync Data Manager Administrator's Guide,
"General Options."

-exclude

`-exclude <objects>` Specifies a comma-separated list of objects (files, collections, folders) to be excluded from the operation. Wildcards are allowed.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive checkin), DesignSync compares the object's leaf name (path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `-exclude bin/*.exe`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `-exclude *.exe`, or `-exclude foo.exe` if you want to exclude only `'foo.exe'`. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the `-exclude` option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

-force

`-[no]force` Indicates whether to allow the version being checked out to overwrite a locally modified copy of the object. The default (`-noforce`) prevents overwriting of locally modified objects. Use this option with caution, because changes in the local copy are lost.

Using `-force` with `-unifystate` changes the state of all objects including locally modified objects, in which case, local modifications are overwritten and objects are fetched according to the specified state or the default fetch state.

-from

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`-from <where>` Specifies whether the object is fetched from the vault ('-from vault') or from the cache or mirror ('-from local'). By default, DesignSync fetches from the cache or mirror ('-from local'), a performance optimization specific to the 'co -lock', 'co -get', 'populate -lock', and 'populate -get' commands. For details, see the Performance Optimization Overview in the DesignSync Data Manager Administrator's Guide. Note that this option is silently ignored when the optimization is not possible, including when the `-keys` option is specified.

-get

`-get` Fetch an unlocked copy.

You can change whether the local object is read-only (typical when using the locking model) or read/write (typical when using the merging model) by default by using the "Check out read only when not locking" option from the Tools->Options->General dialog box in the DesignSync graphical interface. Your project leader can also set this option site-wide using SyncAdmin.

This option is the default object-state option unless a default fetch preference has been defined (see the "fetch preference" command-line topic for more information).

-keys

`-keys <mode>` Controls processing of RCS-style revision-control keywords in objects during checkout. Note that keyword expansion is not the same as keyword update. For example, the `$Date$` keyword is updated only during checkin; its value is not updated during checkout or populate.

Available modes are:

`kkv` - (keep keywords and values) The local object contains both revision control keywords and their expanded values; for example, `$Revision: 1.4 $`.

kk - (keep keywords) The local object contains revision control keywords, but no values; for example, \$Revision\$. This option is useful if you want to ignore differences in keyword expansion, such as when comparing two different versions of an object.

ko - (keep output) The local object contains the same keywords and values as were present at check in.

Note:

- The `-keys` option works only with the `-get` and `-lock` options. If you use the `-share` or `-mirror` option, keywords are automatically expanded in cached or mirrored objects, as if the `'-keys kkv'` option was used.
- The `EnableKeywordExpansion` setting controls the expansion of keys during a check-out operation. This setting overrides the `-keys` option; if disabled, there is no expansion of keys, regardless of the use of the `-keys` option. By default, this setting is enabled; the check-out operation expands keywords. To change the default setting, your Synchronicity administrator can use the `SyncAdmin` tool. For information, see `SyncAdmin` help.
- The check-out operation detects binary files and collections and does not expand keywords when operating on these objects, even if the `Enable Keyword Expansion` setting is on.

-lock

`-lock`

Lock the branch after retrieving the specified version from the vault. Only the user who has the lock can check in a newer version of the object on that branch. Use this option when your project team uses the locking model (as opposed to the merging model) and you intend to make changes to an object. Use the `'ci'` or `'cancel'` command to remove the lock.

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You can use the `-lock` option to acquire a lock for an object you have already edited. In this case, DesignSync locks the object and retains your edited version without overwriting it. DesignSync only locks the object if there have been no other changes checked in for the object and if no other users have acquired a lock on the object since you last fetched it.

Note: If you specify `'co -lock'`, then by default the check-out operation also uses the `'-from local'` option. The result is that the check-out operation locks the object in the vault and keeps local modifications in your workspace. See the `-from` option for information.

Use the `-lock` option with the `-reference` option to check out a locked reference. Locked references are useful if you intend to generate an object and want to lock it before regenerating, as opposed to editing the previous version. Upon generation of the object, it automatically becomes a locked copy rather than a locked reference. Getting locked references for generated objects is faster because DesignSync does not fetch the previously generated object. If the object exists already in the workspace, DesignSync deletes it. If the object exists and is locally modified, the operation fails. If you intend to overwrite the modifications, use `-force` to create the locked reference. If the default fetch state is `'reference'` and you specify the `-lock` option without the `-reference` option, DesignSync leaves locked copies of the objects in your workspace; you must explicitly apply the `-reference` option with the `-lock` option if you want locked references in your workspace.

-merge

`-merge`

Fetch the Latest version of the object on the branch specified by the persistent selector list, and merge it with the current, locally modified version. If you are not doing an overlay merge (see `-overlay`) and the current version is not locally modified, the `-merge` defaults to a `-get` and fetches the new version without merging. By definition, a merge expects a locally modified object, so the `-force` option is not required.

Merging is not supported for collection objects (for example, Cadence collections).

The `-merge` option supports the merging work model (as opposed to the locking work model) where multiple team members can check out and edit the Latest version concurrently. The first team member to check in creates the next version. Other team members must merge the new Latest version into their local copy before they can check in their changes.

If there are no merge conflicts, then the merge succeeds, leaving you the merged file in your work area. If there are conflicts, DesignSync issues a warning, and you must edit the merged file to resolve the conflicts before DesignSync allows you to check in the merged version. Conflicts are shown as follows:

```
<<<<<< local
Lines from locally modified version
=====
Lines from selected server version
>>>>>> versionID
```

DesignSync considers the conflicts resolved when the file no longer contains any of the conflict delimiters (exactly 7 less-than, greater-than, or equal signs starting in column 1). The status of an object, as displayed by `'ls'` or from the List View in the DesignSync graphical interface, indicates if conflicts exist. The `'url inconflict'` command also determines whether a file has conflicts.

Most merges are between two versions on the same branch; the current branch and the branch specified by the persistent selector list are typically the same. However, a merge can also be performed across branches by setting the persistent selector list to a different branch. Following the merge, you are on the branch associated with the version specified by the persistent selector list. This is a "merge to" operation. If you want to stay on the current branch instead, use the `-overlay` option. Overlay, or "merge from", merges are more common when merging branches. See the `-overlay` option for details.

Notes:

- o Although `-merge` is intended to be used with the merging work model, you can specify `-lock` with `-merge` to lock the branch as part of the merge operation.

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- o The `-merge` option implies `-get` unless you specify `-lock`. You can also explicitly specify `-get`.
- o The `-merge` option is mutually exclusive with `-mirror` and `-share`.
- o The `-version` and `-merge` options are mutually exclusive unless you specify `'-version Latest'`.

-mirror

`-mirror` Create a symbolic link from the work area to the object in the mirror directory. This option requires that you have associated a mirror directory with your work area (see the `setmirror` command). In addition, the effective workspace selector (set using `'setselector'`, `'setvault'`, or the `-branch` option) must match the mirror workspace selector.

Note:

- o This option is not supported on Windows platforms.
- o When operating on a mirror directory, the check-out operation does not require an exact match between the workspace selector and the mirror selector in the case of `<BranchName>:` or Trunk selectors.
The check-out operation considers
 - A selector of `'Trunk'` to be the same as `'Trunk:'` and `'Trunk:Latest'`
 - A selector of `<BranchName>:` to be the same as `<BranchName>:Latest`

-overlay

`-overlay <selectors>` Replace your local copies with the versions specified by the selector list. The current-version status, as stored in local metadata, is unchanged. For example, if you have version 1.5 (the Latest version) of a file and you overlay version 1.3, your current version is still 1.5. You could then check in this overlaid version. This rollback operation is equivalent to checking out version 1.3, then using `'ci -skip'` to check in that version.

Note: The overlay operation overlays specified local copies even if you checked out those versions with a lock.

Typically, you use `-overlay` with `-merge` to merge the two versions instead of overlaying one version on another. The combination of `-overlay` and `-merge` lets you merge from one branch to another, the recommended method for merging across branches. Following the overlay merge, you are working on the same branch as before the operation.

The `-overlay` and `-version` options are mutually exclusive. You specify the version you want to overlay as an argument to the `-overlay` option. The `-version` option always updates the 'current version' information in your work area, which is not correct for an overlay operation.

Note:

- o To use `-overlay` to specify a branch, specify both the branch and version as follows: '`<branchtag>:<versiontag>`', for example, 'Rel2:Latest'. You can also use the shortcut, '`<branchtag>:`', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.
- o The `-overlay` option implies `-get`, but you can also explicitly specify `-get`.
- o The `-overlay` option is mutually exclusive with `-mirror`, `-share`, `-lock`, and `-version` options.

-[no]recursive

`-[no]recursive`

Indicates whether to perform this operation on all objects in all subfolders of the specified folders. This behavior (`-recursive`) is the default behavior of the graphical interface, but not of the command line interface.

-reference

`-reference`

Create a reference to an object in the vault. A reference does not have a corresponding file on the file system but does have local metadata that makes the reference visible to Synchronicity programs. Create a reference when you want your work area to reflect the contents of the vault but you do not need a physical copy. Use the `-reference` option with the `-lock` option to create a locked reference. Locked references are useful if you intend to generate an object and want to lock it before regenerating,

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as opposed to editing the previous version.

Note: Synchronicity recommends against using the `-reference` option when operating on a collection object. If you use the `-reference` option, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-[no]retain

`-[no]retain`

Indicates whether to retain the 'last modified' timestamp of the checked-out objects as recorded when the object was checked into the vault. If the workspace is set to use a mirror, or the checkout is run using `-share`, this will also apply to the object placed in the mirror or LAN cache if the object doesn't already exist in the mirror or cache. The links in your work area to the cache or mirror have timestamps of when the links were created.

If you specify the `-reference` option, no object is created in your work area, so there is no timestamp information at all.

If an object is checked into the vault and the setting of the `-retain` option is the only difference between the version in the vault and your local copy, DesignSync does not include the object in checkout operations.

If you do not specify '`-retain`' or '`-noretain`', the `co` command follows the DesignSync registry setting for Retain last-modification timestamps. By default, this setting is not enabled; therefore, the timestamp of the local object is the time of the check-out operation. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin Help.

The mirror system, by default, fetches objects into the mirror with the `-retain` option. The mirror administrator, however, can define mirrors to use the `-noretain` option. The default setting should agree with the Retain last-modification timestamp registry setting to maintain consistency. See the "Mirror Administration Server Registry Settings" topic for setting of the `co` or `populate` options for mirrors.

Note: When fetching from the cache or mirror (by specifying the '-from local' option), the last modified timestamp comes from the file in the cache or mirror, not from the version that was checked into the vault. If the file was fetched into the cache or mirror with the -retain option, these two timestamps are the same. But if the file was fetched into the cache or mirror with the -noretain option and then fetched into the workspace with both the '-from local' and '-retain' options, the 'last modified' timestamp used is the time the object was fetched into the cache or mirror.

-savelocal

`-savelocal <value>` This option affects collections that have local versions.

When it checks out an object, the check-out operation first removes from your workspace any local version that is unmodified. (To remove a local version containing modified data, specify 'co -force'.) Then the check-out operation fetches the object you are checking out (with the local version number it had at the time of checkin).

The -savelocal option specifies the action that the check-out operation takes with modified local versions in your workspace (other than the current, or highest numbered, local version). (DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.)

Specify the -savelocal option with one of the following values:

`save` - If your workspace contains a local version other than the local version being fetched, the check-out operation saves the local version for later retrieval. See the 'localversion restore' command for information on retrieving local versions that were saved.

`fail` - If your workspace contains an object with a local version number equal to or higher than the local version being fetched, the check-out operation fails. This is the default

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action.

Note: If your workspace contains an object with local version numbers lower than the local version being fetched and if these local versions are not in the DesignSync vault, the check-out operation saves them. This behavior occurs even when you specify '-savelocal fail'.

delete - If your workspace contains a local version other than the local version being fetched, the check-out operation deletes the local version from your workspace.

If you do not specify the -savelocal option, the check-in operation follows the DesignSync registry setting for SaveLocal. By default, this setting is "Fail if local versions exist" ('-savelocal fail'). To change the default setting, a Synchronicity administrator can use the Command Defaults options pane of the SyncAdmin tool. For information, see SyncAdmin Help.

Note:

- o You may need to use the -force option with the -savelocal option to allow the object being checked out to overwrite a locally modified copy of the object. For an example scenario, see EXAMPLES.
- o The -savelocal option only affects objects of a collection defined by the Custom Type Package (CTP). This option does not affect objects that are not part of a collection or collections that do not have local versions.

-[no]selected

-[no]selected

Indicates whether to perform this operation on objects in the select list (see the "select" command), as well as the objects specified on the command line. By default, (-noselected), co does not use the select list. If no objects are specified on the command line, the -selected option is implied.

-share

-share

Fetch a shared copy. Shared objects are stored in the file cache directory and a link to the cached object is created in the work area.

Note: This option is not supported on Windows platforms.

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the check-out operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({} if using the stcl command shell.

-[no]unifystate

`-[no]unifystate` Sets the state of all objects processed, even up-to-date objects, to the specified state (-get, -lock, -share, -mirror, or -reference) or to the default fetch state, if no state option is specified. See the "fetch preference" help topic for more information.

By default, 'co' changes the state of all processed objects that need an update as well as up-to-date objects (-unifystate). If the -nounifystate option is specified, DesignSync changes the state of only the objects that need an update.

The -unifystate option does not change the state of locally modified objects; use -force with -unifystate to force a state change, thus overwriting local modifications. The -unifystate option does not cancel locks; you can check in the locked files, use the 'cancel' command to cancel locks you have acquired, or use the 'unlock' command to cancel team members' locks.

Note: The -unifystate option is ignored when you lock design objects. If you check out locked copies or locked references, DesignSync leaves all processed objects in the requested state.

-version

`-version <selector>` Specifies the versions of the objects to be checked out. The selector list you specify (typically a version or branch tag) overrides the object's persistent selector list, but the

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persistent selector list is not modified.

If you specify a date selector (Latest or Date(<date>)), you must specify a branch or version with it. For example, you want to check out the latest version of 'Gold:,Trunk' specify 'co -version Latest'.

If you specify the specific version number for the Latest version of objects on a retired branch, the co command fetches the objects into your workspace. If you specify the version as a branch selector for a retired branch, the co command does not fetch the specified retired files.

Note:

- o If the selector you specify using -version does not exactly match the work area selector, your next populate will be automatically forced to be full (non-incremental). See the 'populate' command description for more information.
- o To use -version to specify a branch, specify both the branch and version as follows: '<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.
- o Specify '-version Latest' only if necessary because in some cases, DesignSync augments the selector to be '<branchtag>:Latest'. Appending ':Latest' to the selector might not match the work area selector. This mismatch invalidates your next incremental populate resulting in a slower, full populate.
- o The -version option is mutually exclusive with the -mirror and -merge options unless you specify '-version Latest'. You do not have to specify -version with -mirror.
- o The -version and -overlay options are mutually exclusive.

--

--

Indicates that the command should stop looking for command options. Use this option when an argument to the command begin with a hyphen (-).

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- "successfully processed" may not mean "successfully checked out". For example, attempting to check out an object that you already have in your work area is considered a success even though no checkout occurs.
- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form "Objects succeeded (n)" and "Objects failed (n)", where 'n' is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception occurs (the return value is thrown, not returned).
- If a comment editor is defined, but cannot be used, the command automatically switches to the interactive command-line comment mode.

SEE ALSO

ci, populate, cancel, localversion, select, setmirror, setselector, selectors, command defaults

EXAMPLES

- [Example of Checking Out a File with a Lock](#)
- [Example of Checking Out a File From a Branch](#)
- [Example of Updating File Links in the Current Directory Recursively](#)
- [Example of Merging a File into Your Work Area](#)
- [Example of Merging From a Different Branch](#)
- [Example of Checking out and Locking a File Reference](#)
- [Example of Checking Out Objects With Different Version Selectors](#)
- [Example of Checking Out a Collection Object](#)

Example of Checking Out a File with a Lock

The following example checks out for editing the Latest version of a single file. The branch is locked to prevent others from checking in a newer version until after the changes are made and the file is checked in, or the checkout is canceled.

```
dss> co -lock -comment "Trying an experiment" pcimaster.vbh
```

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After making changes to the file, you check in using the following command, creating a new version:

```
dss> ci -comment "Experimental version" -keep pcimaster.vbh
```

Example of Checking Out a File From a Branch

In the following example, the version of 'top.v' associated with the 'Gold' tag is fetched. If 'Gold' is a branch tag, then the latest version of 'top.v' on that branch is fetched. Otherwise, the version tagged 'Gold' is fetched. If 'top.v' does not have a branch or version tagged 'Gold', the checkout fails.

```
dss> co -get -version Gold top.v
```

Example of Updating File Links in the Current Directory Recursively

In the following example, an entire work area is updated to have links to the latest versions in the cache directory:

```
dss> co -rec -share *
```

Links are only created for those objects you already have in your work area. If your intent is to have your work area reflect the current status of the vault, including any new files that are not in your work area, use the populate command instead:

```
dss> pop -rec -share
```

Example of Merging a File into Your Work Area

The following example demonstrates the non-locking (merging) design methodology. The vault for 'alutest.txt' contains four versions: 1.1 through 1.4. Two developers, Ann and Bill, fetch (check out without a lock) version 1.4 of 'alutest.txt':

```
dss> co -get alutest.txt
```

Both Ann and Bill make modifications to their local copies, and Bill checks in his changes first:

```
dss> ci -nocomment -keep alutest.txt
```

The checkin succeeds, creating version 1.5 in the vault. Later, Ann tries to check in the file, but DesignSync errors because a new latest version exists in the vault. An 'ls' command on 'alutest.txt' confirms the status of the file as 'Needs Merge'. Ann must merge the changes contained in the latest version

into her local copy:

```
dss> co -merge alutest.txt
```

DesignSync merges version 1.5 with Ann's local copy and informs Ann if there are any merge conflicts. Ann must resolve any conflicts before she can check in the merged file. (See the `-merge` option description for information on resolving conflicts.) Once conflicts are resolved, Ann's local file contains both her changes and Bill's changes, and Ann can now check in the file, creating version 1.6:

```
dss> ci -nocomment alutest.txt
```

Example of Merging From a Different Branch

In the following example, you are working on the main development branch (Trunk), but need to pick up some bug fixes that were made on another branch (Dev). Because you are merging from another branch, you use the combination of `-merge` and `-overlay`:

```
dss> co -merge -overlay Dev:Latest alu.v decoder.v
```

DesignSync fetches the Latest versions of 'alu.v' and 'decoder.v' from the 'Dev' branch and merges them into your local copies from the 'Trunk' branch.

If you wanted to pick up all the changes from another branch, you would use the 'populate `-merge -overlay`' command.

Example of Checking out and Locking a File Reference

In the following example, you have a managed object that you intend to regenerate. You want to obtain a lock, but you do not want to fetch the existing object as you intend to overwrite its contents. You use the `-lock` and `-reference` options to create a locked reference:

```
dss> co -reference -lock -nocomment top.netlist
```

Example of Checking Out Objects With Different Version Selectors

This example shows the checkout of multiple objects with differing version selector.

```
stcl> co file1;1.2 file2;bugfix:Latest file3;rdy_for_testing
```

This will fetch version 1.2 of file2, the Latest version of file2 on the bugfix branch, and the version of file3 tagged "rdy_for_testing" on the default Trunk ("1") branch.

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You can also use wildcards. For example,

```
stcl> co "f*;1.5"
```

will fetch version 1.5 of all object names beginning with "f*".

You cannot check out folders by specifying the version selector.

For example:

```
stcl> co -rec "subdir;1.5"
```

will fetch items into the "subdir" folder, ignoring the selector "1.5".

Example of Checking Out a Collection Object

This example shows the checkout of a collection object that deletes local versions.

Note: The DesignSync Milkyway integration has been deprecated. This example is meant to be used only as a reference.

Mike checks out the Milkyway collection object `top_design.sync.mw`, which fetches local version 4 of that object to his workspace. He modifies the object and creates local version 5. Then he checks in `top_design.sync.mw`. The check-in operation does not remove local versions, so Mike now has local version 5 (unmodified) and local version 4 in his workspace. (Note: Because the checkin removes local version 4's link to with the original check-out operation of `top_design`, DesignSync now considers local version 4 to be modified.)

Ben checks out `top_design.sync.mw` (local version 5). He creates local version 6 and checks the object in.

Mike does some work on `top_design`, which creates local versions 6, 7, and 8 in his workspace. Then he decides to use Ben's version of the `top_design` object instead.

Mike checks out the `top_design` object (local version 6) from the vault. He doesn't want to save his local versions of the object, so he uses the `'-savelocal delete'` option to delete local versions other than the local version being fetched. In addition, he uses the `-force` option. (Because he created local versions 6, 7, and 8 of `top_design` in his workspace, DesignSync considers the `top_design` object to be locally modified and by default the checkout operation will fail. To successfully check out `top_design`, Mike must use `'-force'`.)

```
stcl> cd /home/tjones/top_design_library
stcl> co top_design.sync.mw -savelocal delete -force
```

Before fetching `top_design.sync.mw` from the vault, the check-out operation first deletes all local versions that are unmodified. So the check-out operation deletes Mike's local version 6 because that was the version originally fetched and its files are unmodified.

Because Mike specified the `-force` option, the checkout also deletes Mike's local version 8 (the current local version containing modified data for the object).

Because Mike specified `'-savelocal delete'`, the check-out operation deletes local version 7, which is not in the vault and is not the modified data Mike agreed to delete when he specified `'-force'`. If Mike specified `'-savelocal save'`, DesignSync would save local version 7. Local version 4 is also deleted.

Finally, Mike's check-out operation fetches the `top_design` object (Ben's local version 6) from the vault.

Mike continues to modify the `top_design` object, creating local version 7, which he checks in.

Ben has local versions 5 and 6 in his workspace. He checks out the `top_design` collection object (local version 7), specifying `'-savelocal fail'`. The check-out operation removes local version 6 from his workspace because it is unmodified. The operation saves local version 5 even though it is modified. (Ben's checkin of local version 6 removed local version 5's link to with the original checkout of `top_design`, so DesignSync now considers local version 5 to be modified.) The checkout also takes place despite the fact that Ben specified `'-savelocal fail'`. The check-out operation takes this action because local version 5 has a number lower than the local version being fetched. If Ben had instead specified `'co -savelocal delete'`, the checkout would delete local version 5.

populate

populate Command

NAME

```
populate          - Fetches or updates specified objects
```

DESCRIPTION

- [Object States](#)
- [How Populate Handles Selectors](#)
- [Populate Log](#)
- [How Populate Handles Collections with Local Versions](#)
- [Setting up Your Workspace](#)
- [Incremental Versus Full Populate](#)
- [How Populate Handles Retired Objects](#)
- [Merging Across Branches](#)
- [Populate Versus Checkout](#)
- [Understanding the Output](#)

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- [Forcing, Replacing, and Non-Replacing Modes](#)

This command fetches the specified objects from the server into your current workspace folder or a folder you specify with the `-path` option.

Typically, you create your work area, or workspace, and perform your first populate, an initial populate, as a full populate. Once your work area is populated, you can use the `populate`, `co`, and `ci` commands to selectively check out and check in specific objects. You should also populate periodically to update your work area with newly managed objects, as well as newer versions of objects you have locally.

Populate is used to create or update the objects in your workspace. Populate features many ways to control the data brought into your workspace. Because of the complexity of the populate features, the description section is divided into sections that detail the major features and functionality of populate.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Object States

Upon populating your workspace, DesignSync determines in what state to leave the fetched objects in your work area:

1. DesignSync obeys the state option (`-get`, `-lock`, `-share`, `-mirror`, `-reference`) specified on the command line.
2. If no state option is specified, DesignSync uses the default fetch state as specified by your project leader. See the "fetch preference" help topic for more information.
3. If a default fetch state is not defined, the default behavior for 'populate' is `-get`.

Important: For both incremental and full populate operations, DesignSync changes the state of only those objects that need updating. DesignSync does not change the state of up-to-date objects during the populate operation.

The following methods let you override the default behavior to change the states of all objects during a populate operation:

- o To change the state of up-to-date objects during a populate, use the `-unifystate` option. To change the state of all objects that need an update as well as up-to-date and locally modified objects, use `-unifystate` with the `-force` option.
- o Unlocked locally modified objects are not overwritten unless you specify `-force`. For example, if you modify a fetched file, then execute a 'populate `-share`' command, your locally modified

file is not replaced by a link to a file in the cache unless you also specify `-force`. Locked files are not overwritten by the `-force` option.

- o To make populating with links to the mirror a fast operation, links are created only if no object (locally modified or not) or link already exists in your work area. You must specify `-unifystate` to change the state of existing objects and links in this case. Use `-force`, as well, to overwrite locally modified objects that are not locked and to remove objects that are not in the current configuration.

Note: If the object is designated as uncacheable, attempts to place objects in the cache (`populate -mirror`; `populate -share`) will automatically populate the workspace with unlocked copies (`-keep mode`). For more information on cachability, see the "caching" commands.

How Populate Handles Selectors

DesignSync determines what versions of objects to populate as follows:

1. DesignSync obeys the selector list specified by the `-version` option.
2. If `-version` is not specified, DesignSync uses the persistent selector list of the top-level folder being populated. The default persistent selector is 'Trunk', in which case DesignSync checks out the Latest versions from Trunk.

Notes:

- o If you specify a selector or a selector list for the populate operation using the `-version` option and the selector does not exactly match the workspace selector, an incremental populate is no longer valid. In this case, DesignSync performs a full populate even if the `-incremental` option is specified. See "Incremental Versus Full Populate" above for more information.

Important: The persistent selector lists of individual managed objects (files or collections) and subfolders are not obeyed by the `'populate -recursive'` operation.

- o A `'populate -recursive'` command without the `-version` option populates a work area based on the persistent selector list of the top-level folder you are populating, skipping any subfolder or managed object that has a persistent selector list that differs from the top-level folder. You must issue the populate command separately for any skipped subfolder.
- o A `'populate -recursive -version <selectorList>'` command uses the specified selector list and ignores all persistent selector lists. In the case of `'-version Latest'`, the persistent selector list of the top-level folder being populated is augmented with 'Latest' and that augmented persistent selector

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list is used for the populate operation.

The supported DesignSync use models (single-branch development, project branching, and auto-branching) assume that persistent selector lists across a work area are consistent. Use caution when using commands that leave you with inconsistent local metadata, such as using 'setselector' or 'mkbranch' on individual objects.

See the "selectors" help topic for details on selectors, selector lists, and persistent selector lists. For more information about how the -version switch is managed, see the -version in OPTIONS.

Populate Log

Because populate operations can be long and complex, you may want to specify a log file to contain only the output of the populate command to store for later reference.

You can specify the log file on an as needed basis using the -log option or by setting a log file name using the command defaults system. If the log file specified does not exist, DesignSync creates it before it begins the populate command processing. If the log file does exist, DesignSync appends the new populate information to the file.

Tip: If you set a default log value for populate, check the file size periodically and, if the file is getting too large to use comfortably, rename the file to save the information, or remove the file if you no longer need it.

Notes:

- o If a log file is defined in the command defaults system and two users run populate simultaneously, the populate output may become interlaced in the log file.
- o Regardless of whether you create a populate log, the DesignSync client log file contains the output of the populate command along with all the other commands typed into the DesignSync client session.

How Populate Handles Collections with Local Versions

For collection objects that have local versions (for example, custom generic collections), the populate operation handles local versions in the following way.

When you populate a folder containing a collection object, the populate operation removes from your workspace any local version of the object that is unmodified. (Because these local versions exist in the vault, you can refetch them.) The operation then

fetches from the vault the specified collection object (with the local version number it had at the time of checkin).

If the current local version in your workspace is modified, the populate operation fails unless you specify 'co -force'. (The -force option lets the local version with the modified data be replaced with the local version of the object you are checking out.) Note: The current local version is the one with the highest local version number. DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.

The -savelocal option tells the populate operation what to do with local versions in your workspace other than a current local version that is modified. For information, see OPTIONS.

Setting up Your Workspace

Before you can use populate to maintain your workspace, you must set up your workspace.

Note: The Workspace Wizard from the DesignSync graphical user interface simplifies the task of setting up a work area by taking you through a step-by-step process.

The typical steps when you set up a new workspace are:

1. Associate a local folder with a vault folder. See the setvault command for details. This also creates the workspace root, if one does not already exist at the level of the local folder or above.
2. Optionally set the persistent selector list for the folder as part of the setvault command or with the setselector command. If you do not set the persistent selector list, it is inherited from the parent folder. This step is necessary only if you are working on a branch other than the default Trunk branch.
3. Optionally associate a local folder with a mirror directory. See the "setmirror" command for details. If the mirror directory for your project later changes, run the setmirror command from the same directory in which the original setmirror command was run. That will update the workspace's mirror association, which will be inherited by lower level directories. Run the populate command with the options '-recursive -mirror -unifystate' to correct existing workspace links to mirror files. This will correct the links so that they point to the mirror directory's new location.
4. Populate the work area with the specified design objects from the vault. Populate determines the set of versions from the persistent selector list or from the -version option, if

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applicable. Apply the `-recursive` option to create a local hierarchy that matches the vault's hierarchy. Without `-recursive`, `populate` only fetches the specified objects.

Incremental Versus Full Populate

By default, the `populate` command attempts to perform an incremental populate which updates only those local objects whose corresponding vaults have changed. Avoiding a full populate improves the speed of the populate; however, some circumstances make a full populate necessary. In the following cases, DesignSync automatically performs a full populate:

- o If you are populating with a different configuration to that of the work area (having used `setselector`, `setvault`, `'populate -version'`, or `'co -version'` to change a selector), DesignSync performs a full populate. For example, if your last full populate specified the `VendorA_Mem` configuration, but you now want `VendorB_Mem` files, then DesignSync automatically performs a full (nonincremental) populate. If the selector you specify resolves to the same exact selector as that of the work area, DesignSync does perform the incremental populate. In this case, the selectors must be an exact match; for example, a selector which resolves to `'Main'` does not match `'Main:Latest'`. If you are populating with a new configuration, consider using the `-force` option to remove objects of the previous configuration from your work area.
- o If you use the `-lock` option, DesignSync performs a full populate.
- o If you use the `-unifystate` option, DesignSync performs a full populate.
- o If you perform a nonrecursive populate on a subfolder, all of the folders above the subfolder are invalidated for subsequent incremental populate operations. Incremental populate works by exploiting the fact that if a folder is up-to-date, all of its subfolders are also up-to-date, making it unnecessary to recurse into them. Because a recursive populate was not performed for the subfolder, DesignSync cannot ensure that its subfolders are up-to-date; thus, all incremental populates are invalidated up the hierarchy.
- o If you perform a nonrecursive populate on a folder, DesignSync essentially runs a full populate rather than the default incremental populate. Your next populate is incremental from the last recursive populate. If you have not previously run a recursive populate, the subsequent populate is a full populate.
- o If the ProjectSync configuration file, `sync_project.txt`, has been updated through the ProjectSync interface

(Project->Edit or Project->Configuration), thus updating the DesignSync REFERENCES, DesignSync performs a full populate. If, however, the configuration in the sync_project.txt file is hand-edited and not updated using ProjectSync, you must specify the -full option to force a full populate.

Note: If you are using a mirror (by specifying -mirror or having a default fetch state of Links to mirror), an incremental populate does not necessarily fetch new objects checked in, nor remove links to objects deleted by team members until after the mirror has been updated.

For the following cases, perform a full populate instead of an incremental populate:

- o If you have excluded a folder by using the -exclude, or -noemptydirs option with the populate command, a subsequent incremental populate will not necessarily process the folder of the previously excluded object. DesignSync does not automatically perform a full populate in this case. To guarantee that previously excluded objects are fetched, specify the -full option for the subsequent populate operation.
- o For modules, DesignSync tracks changed members and therefore always performs an incremental populate. Specify a full populate to force data that has been manually removed, removed locally, or renamed locally to be fetched again from the server. If the file was renamed, you may have to specify the -force option as well.

Also, specify a full populate if you have an unchanged, but out-of-date or out-of-sync version in your workspace to force DesignSync to fetch the up-to-date version of the object.

- o If the ProjectSync configuration file, sync_project.txt, has been hand-edited, thus updating the legacy module REFERENCES, use the -full option to perform a full populate. If, however, the sync_project.txt file has been changed through the ProjectSync interface (Project->Edit or Project->Configuration), DesignSync performs the full populate without your having to specify -full. For more information, see "Interaction with Legacy Modules" below.
- o If the system clock on the SyncServer machine where your vault is located is turned back (for example, to correct clock skew between machines), you must perform a full (nonincremental) populate to synchronize the client and server metadata.
- o If you interrupt a populate operation (using Control-c, for example), you should use populate -full on your next populate of that folder.

The default populate mode is -incremental; however, your project leader can set this default using SyncAdmin.

If you are updating mirrors, use the -incremental option. If you specify the -full option, mirror updates can take a long time

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to complete.

Note: If you remove objects from the work area by using operating system commands rather than DesignSync commands, an incremental populate cannot fetch these objects. Use the `-unifystate` or `-full` option to fetch them.

How Populate Handles Retired Objects

When you populate with the Latest versions of design objects from a given branch, DesignSync does not populate objects for which that branch is retired. Objects in your local work area whose branches have been retired from the vault are not deleted during the populate operation unless you specify `-force`.

It is important to note that objects on retired branches remain part of past configurations. When you use the populate command to retrieve a configuration other than 'Latest', objects from retired branches are fetched. The populate command fetches objects from retired branches, thereby preserving past configurations, if the selector used for the operation is any of the following:

- o A version tag other than 'Latest', even if the version tag points to the Latest version
- o A version number, even if that number corresponds to the Latest version
- o `<branchtag>:Date(<date>)` or `<branchtag>:VaultDate(<date>)`

Note: If the selector specifies a branch in the form '`<branchtag>:`', DesignSync augments the selector to be `<branchtag>:Latest`, meaning, 'Get the Latest version from the specified branch'. In this case, objects from retired branches are not fetched.

Note: For information about how retired files by cross-branch merge operations, see "Merging Across Branches."

Merging Across Branches

In multi-branch environments, you use the populate command to merge branches. In many cases, a new branch that is created is eventually merged back into the main development branch.

The branch being merged is populated into a workspace containing the destination branch using the populate command with the `-merge` and `-overlay` options. This type of merge is called "cross-branch merge."

As with all populate operations, cross-branch merging uses the filter and exclude filter lists set on the workspace, in the command defaults system, on the command line.

Merging includes two basic types of merging: file contents, and structural changes.

- o File content merging:
File content merging is applicable to all DesignSync objects. DesignSync merges the contents of files with the same natural path to the best of its ability. If the files are binary files which cannot be merged, populate returns an error message.
- o Structural changes for DesignSync objects.
Structural changes for DesignSync objects are non-content based changes to the DesignSync objects that can affect the merge results.
 - Removed objects: If an object is present in the local workspace, but not in the merge version, the object in the local workspace is unchanged. If you want to remove it from the merged version, you must explicitly remove or retire the object.
 - Added objects: If an object is not present in the local workspace, but is present in the merge version, the object is added to the local workspace. The merge action sets the following local metadata properties:
 - o The current version is set to the fetched version, providing a meaningful branch-point version when you check the object into branch A.
 - o The current branch information is undefined.
 - o The persistent selector list for the object may be augmented to ensure that branch A is automatically created when you check in the object, thus eliminating the need to use ci-new. The following list explains how the persistent selector list is handled by the operation.
 1. If the first selector in the persistent selector list is a VaultDate() or Auto() selector, then the persistent selector list is not modified.
 2. If the first selector is of the form <branch>:<version>, then the first selector is modified to be Auto(<branch>).
 3. Otherwise, the first selector is modified to be Auto(<selector>). The object may be automatically checked in to the DesignSync vault, depending on the value of the persistent selector.
 - Retired objects:
 - o If the object is active in the workspace and retired on the branch version, the workspace version is unchanged.
 - o If the object is retired or does not exist in the workspace, and is retired or does not exist on the branch, the workspace version is unchanged.
 - o If the object is retired in the workspace and active on the branch version, the version from the branch version is merged with the workspace version. The object remains retired and must be unretired in order to be checked in.

After a cross-branch merge has been performed, you can view the status of the affected files using the ls command with the -merged <state> -report D options. The -merged option allows you to restrict

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the list to a particular type of merge operation (add, remove, rename, all) and the `-report D` option shows you the current state of the object in your workspace. For more information, see the `ls` command help.

When a merge is performed on a DesignSync object, a merge edge is created automatically to maintain a list of the changes incorporated by the merge. This identifies a closer-common ancestor to provide for quicker subsequent merges.

For more information about merging, see the `-merge` and `-overlay` options, and the DesignSync Data Manager User's Guide topic: "What Is Merging?"

Populate Versus Checkout

The `co` and `populate` commands are similar in that they retrieve versions of objects from their vaults and place them in your work area. They differ in several ways, most notably:

- o You typically use the `co` command to operate on objects that you already have locally, whereas `populate` updates your work area to reflect the status of the vault.
- o The `co` command considers the persistent selector list for each object that is checked out, whereas `populate` only considers the persistent selector list for the folder that is being populated.

Note: The `co` and `populate` commands are gradually being merged.

Understanding the Output

The `populate` command provides the option to specify the level of information the command outputs during processing. The `-report` option allows you to specify what type of information is displayed:

If you run the command with the `-report brief` option, the `populate` command outputs a small amount of status information including, but not limited to:

- o Failure messages.
- o Warning messages.
- o Informational messages concerning the status of the `populate`
- o Success/failure/skip status

If you do not specify a value, or the command with the `-normal` option, the `populate` command outputs all the information presented with `-report brief` and the following additional information:

- o Informational messages for objects that are updated by the `populate` operation.
- o Messages for objects excluded from the operation (due to exclusion filters or explicit exclusions).

If you run the command with the `-report verbose` option, the `populate`

command outputs all the information presented with `-report normal` and the following additional information:

- o Informational message for every object examined but not updated.

If you run the command with the `-report error` option, the `populate` command outputs the following information:

- o Failure messages.
- o Warning messages.
- o Success/failure/skip status messages.

Forcing, Replacing, and Non-Replacing Modes

You can use these three modes to specify how the `populate` command updates your work area:

- o Forcing mode (specified with the `-force` option) synchronizes your work area with the incoming data, including locally modified objects. In this mode, the `populate` command updates the managed objects in your work area. It replaces or removes managed objects regardless of whether the objects have been locally modified. Thus, forcing modifies your work area to match the set of objects being fetched. Note: The default `-noforce` option operates as if `-replace` has been specified.
- o Replacing mode (specified with the `-replace` option) also synchronizes your work area with the incoming data, but without affecting locally modified objects (the default behavior).

Note: Retired files that have been kept or re-added to the workspace are considered locally modified.

Replacing mode, unlike forcing mode, leaves intact managed objects that have been locally modified.

- o Non-replacing mode (specified with the `-noreplace` option) is the least disruptive mode; this mode might require you to clean up the resulting work area data.

In this mode, the `populate` command takes the incoming data and overlays it on top of the existing work area's data. It leaves intact both managed objects with local modifications and managed objects that are not members of the module being fetched. Thus, the work area essentially becomes a union of the data from the previous version and that of the module being fetched.

Non-replacing mode, unlike forcing mode, leaves intact any objects that have been locally modified, and, unlike the replacing mode, leaves unmodified managed objects intact. See the `-[no]replace` option below for more details.

Notes:

- o Unmanaged objects in your work area are not affected by any of

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these modes.

- o The following are illegal combinations of options:
 - replace and -noforce, as well as inverse options, such as -replace and -noreplace.

SYNOPSIS

```
populate [-[no]emptydirs] [-exclude <object>[,<object>...]]
         [-[no]force] [-full | -incremental]
         [[-lock [-keys <mode> | -from {local | vault}]] |
         [-get [-keys <mode> | -from {local | vault}]]
         [-share] | [-mirror] | [-reference] [-lock -reference] ]
         [-log <filename>] [-[no]merge]
         [[-overlay <selector>[,<selector>...]] |
         [-version <selector>[,<selector>...]]] [-path <path>]
         [-[no]recursive] [-[no]replace]
         [-report {error|brief|normal|verbose}] [-[no]retain]
         [-savelocal <value>] [-trigarg <arg>] [-[no]unifystate] [--]
         [<argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)

The populate command accepts multiple arguments. If you want to populate the current folder, you need not specify an argument. Otherwise, specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Fetches the object from its vault.

DesignSync Folder

<DesignSync folder> Fetches the contents of the specified folder. You can also use the -path option to specify a folder to be fetched.

OPTIONS

- [-\[no\]emptydirs](#)
- [-exclude](#)

- [-\[no\]force](#)
- [-from](#)
- [-full](#)
- [-get](#)
- [-incremental](#)
- [-keys](#)
- [-lock](#)
- [-lock -reference](#)
- [-log](#)
- [-merge](#)
- [-mirror](#)
- [-overlay](#)
- [-path](#)
- [-\[no\]recursive](#)
- [-reference](#)
- [-\[no\]replace](#)
- [-report](#)
- [-\[no\]retain](#)
- [-save`local`](#)
- [-share](#)
- [-trigarg](#)
- [-\[no\]unifystate](#)
- [-version](#)

-[no]emptydirs

-[no]emptydirs

Determines whether empty directories are removed or retained when populating a directory. Specify `-noemptydirs` to remove empty directories or `-emptydirs` to retain them. The default for the populate operation is `-noemptydirs`.

For example, if you are creating a directory structure to use as a template at the start of a project, you may want your team to populate the empty directories to retain the directory structure. In this case, you would specify `'populate -rec -emptydirs'`.

If a populate operation using `-noemptydirs` empties a directory of its objects and if that directory is part of a managed data structure (its objects are under revision control), then the populate operation removes the empty directory. If the empty directory is not part of a managed data structure, then the operation does not remove the directory or its subdirectories. (A directory is considered part of the managed data structure if it has a

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corresponding folder in the DesignSync vault or if it contains a .SYNC client metadata directory.)

Notes:

- o When used with 'populate -force -recursive', the -noemptydirs option removes empty directories that have never been managed.
- o When used with the -mirror option, the -noemptydirs option does not remove empty directories (unless -force -recursive is used) and does not populate directories that are empty in the mirror.
- o When the -noemptydirs option is used with '-report verbose', the command might output messages that additional directories are being deleted. Those are directories created by the populate, to mimic the directory structure in the vault. If no data is fetched into those directories (because no file versions match the selector), then those empty directories are deleted.

If you do not specify -emptydirs or -noemptydirs, the populate command follows the DesignSync registry setting for "Populate empty directories". By default, this setting is not enabled; therefore, the populate operation removes empty directories. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin help. You typically want consistent behavior for all users, so adding the setting to the site registry is recommended.

-exclude

`-exclude <objects>` Specifies a comma-separated list of objects (files, collections, or folders) to be excluded from the operation. Wildcards are allowed.

If you exclude objects during a populate, a subsequent incremental populate will not necessarily process the folders of the previously excluded objects. DesignSync does not automatically perform a full populate in this case. To guarantee that previously excluded objects are fetched, specify the -full option for the subsequent populate operation.

The '-exclude' option is ignored if it is

included in a 'populate -mirror' operation.

Do not specify paths in your arguments to -exclude. Before operating on each object (such as during a recursive populate), DesignSync compares the object's leaf name (with the path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify '-exclude bin/*.exe', you will not successfully exclude bin/foo.exe or any other *.exe file. You need to instead specify '-exclude *.exe', or '-exclude foo.exe' if you want to exclude only 'foo.exe'. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the -exclude option, the field, "These objects are always excluded", from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

-[no]force

-[no]force

Specifies whether to overwrite locally modified objects in order to match the workspace to the data being requested. To do so, the populate operation deletes locally managed objects that are not part of the populate command line, deleting objects that have been filtered out. 'populate -force' only removes managed data, not unmanaged data.

Use this option with caution, because you might not be able to retrieve lost changes.

By default (-noforce):

- o Locally modified objects are not overwritten by the populate operation. Specify -force if you want to overwrite locally modified objects. If the object is locked, the object is unaffected by the populate operation whether -force is specified or not.
- o Objects that are not part of the specified configuration remain in your work area. If you want to delete objects that are not part of the configuration, including retired objects, specify -force. Unmanaged objects are never deleted.

The behavior of 'populate -mirror' without

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`-force` is different from `populate` with other states (see the description of `-mirror`). Therefore, `-force` with `-mirror` has the additional effect of changing the state of existing objects in your work area, resulting in a hierarchy that exactly reflects the mirror directory.

Using `-force` with `-unifystate` changes the state of all objects including locally modified objects, in which case, local modifications are overwritten and objects are fetched according to the specified state or the default fetch state.

Using `-force` with `-noemptydirs` for `populate` removes all existing empty directories from the workspace.

The `-force` option is mutually exclusive with both the `-overlay` and `-noreplace` options.

-from

`-from <where>`

Specifies whether the object is fetched from the vault (`'-from vault'`) or from the cache or mirror (`'-from local'`). By default, DesignSync fetches from the cache or mirror (`'-from local'`), a performance optimization specific to the `'co -lock'`, `'co -get'`, `'populate -lock'`, and `'populate -get'` commands. For details, see the Performance Optimization Overview in the DesignSync Data Manager Administrator's Guide. Note that this option is silently ignored when the optimization is not possible, including when the `-keys` option is specified.

The `-from` option can only be used with the `-lock` or `-get` fetch modes. It cannot be used with the `-share`, `-mirror`, `-reference`, or the `-lock -reference` combination fetch modes. If the `-keys` option is specified with the `-from` option, the `-from` option is silently ignored.

-full

`-full`

Performs a non-incremental `populate` by processing all objects and folders.

Note: DesignSync performs an incremental `populate` by default. It automatically reverts to a full `populate` when necessary.

For more information, see the "Incremental Versus Full Populate" section in the description.

To change the default populate mode, your Synchronicity administrator can use the SyncAdmin tool.

Note: Do not use the `-full` option to change the states of objects in your work area (for example, changing from locked to unlocked objects or unlocked objects to links to the cache). DesignSync changes the states of only those objects that need an update. Use the `-unifystate` option to change the state of objects in your work area.

-get

`-get` Fetch unlocked copies.

You can change whether the local object is read-only (typical when using the locking model) or read/write (typical when using the merging model) by default by using the "Check out read only when not locking" option from the Tools->Options->General dialog box in the DesignSync graphical interface. Your project leader can also set this option site-wide using SyncAdmin.

This option is the default object-state option unless a default fetch preference has been defined. See the "fetch preference" help topic for more information.

Using `-force` with `-noemptydirs` for 'populate -get' removes all existing empty directories. Using `-force` with `-emptydirs`, however, creates empty directories for corresponding empty vault folders.

The `-get` option is mutually exclusive with the other fetch modes: `-lock`, `-share`, `-mirror`, and `-reference`.

-incremental

`-incremental` Performs a fast populate operation by updating only those folders whose corresponding vault folders contain modified objects.

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Note: DesignSync performs an incremental populate by default. It automatically reverts to a full populate when necessary. For more information, see the "Incremental Versus Full Populate" section in the description.

To change the default populate mode, your Synchronicity administrator can use the SyncAdmin tool.

Note: Do not use the `-incremental` option to change the states of objects in your work area (for example, changing from locked to unlocked objects or unlocked objects to links to the cache). DesignSync changes the states of updated objects only. For an incremental populate, DesignSync only processes folders that contain objects that need an update. State changes, therefore are not guaranteed. Use the `-unifystate` option to change the state of objects in your work area.

-keys

`-keys <mode>`

Controls processing of vault revision-control keywords in populated objects. Note that keyword expansion is not the same as keyword update. For example, the `$Date$` keyword is updated only during checkin; its value is not updated during checkout or populate. The `-keys` option only works with the `-get` and `-lock` options. If you use the `-share` or `-mirror` option, keywords are automatically expanded in cached or mirrored objects, as if the `'-keys kkv'` option was used.

Available modes are:

`kkv` - (keep keywords and values) The local object contains both revision control keywords and their expanded values; for example, `$Revision: 1.4 $`.

`kk` - (keep keywords) The local object contains revision control keywords, but no values; for example, `$Revision$`. This option is useful if you want to ignore differences in keyword expansion, such as when comparing two different versions of an object.

`kv` - (keep values) The local object contains expanded keyword values, but not the keywords

themselves; for example, 1.4. This option is not recommended if you plan to check in your local objects. If you edit and then check in the objects, future keyword substitution is impossible, because the value without the keyword is interpreted as regular text.

ko - (keep output) The local object contains the same keywords and values as were present at check in.

The -keys option can only be used with the -lock or -get fetch modes. It cannot be used with the -share, -mirror, -reference, or the -lock -reference combination fetch modes. If the -keys option is specified with the -from option, the -from option is silently ignored.

-lock

-lock

Lock the branch of the specified version for each object that is populated. Only the user who has the lock can check in a newer version of the object on that branch.

Use the -lock option with the -reference option to populate with locked references. For more information, see the -lock -reference option.

Locked

references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous version. Upon generation of the objects, they automatically become locked copies rather than locked references. Obtaining locked references for generated objects is faster because DesignSync does not fetch the previously generated objects. If the objects exist already in the workspace, DesignSync deletes them. If the objects exist and are locally modified, the operation fails. If you intend to overwrite the modifications, use -force to create the locked references. If the default fetch state is 'reference' and you specify the -lock option without the -reference option, DesignSync leaves locked copies of the objects in your workspace; you must explicitly apply the -reference option with the -lock option if you want locked references in your workspace.

The -lock option is mutually exclusive with the fetch modes: -get, -share, and -mirror and with the -merge option.

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Notes:

- o If you specify 'populate -lock', then by default the populate operation also uses the '-from local' option. The result is that the populate operation locks the object in the vault and keeps local modifications in your workspace. See the -from option for information.

-lock -reference

-lock -reference

Use the -lock option with the -reference option to populate with locked references. Locked references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous version. Upon generation of the objects, they automatically become locked copies rather than locked references. Obtaining locked references for generated objects is faster because DesignSync does not fetch the previously generated objects. If the objects exist already in the workspace, DesignSync deletes them. If the objects exist and are locally modified, the operation fails. If you intend to overwrite the modifications, use -force to create the locked references. If the default fetch state is 'reference' and you specify the -lock option without the -reference option, DesignSync leaves locked copies of the objects in your workspace; you must explicitly apply the -reference option with the -lock option if you want locked references in your workspace.

The -lock -reference combination of option is mutually exclusive with the fetch modes: -get, -share, and -mirror.

Note: You should not use the -reference option with Cadence data collection objects. When the -reference option is used on Cadence collections, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-log

-log <filename>

Specify the name of the populate log file. If the filename doesn't exist, DesignSync creates it. If the file does exist, DesignSync appends

the new information to the end of the log file.

The filename can be specified with an absolute or relative path. If you specify a path for the log file, the directory you specify must already exist and you must have write permissions to the directory in order for the log to be placed into it, DesignSync does not create the path.

-merge

`-[no]merge`

Indicates whether to populate with the Latest versions from the branch specified by the persistent selector list and merge them with the current, locally modified versions. The default value is `-nomerge`.

If you are not doing an overlay merge (see `-overlay`) and the current version is not locally modified, the `-merge` defaults to a `-get` and fetches the new version without merging. By definition, a merge expects a locally modified object, so the `-force` option is not required.

The `-merge` option supports the merging work model (as opposed to the locking work model) where multiple team members can check out and edit the Latest version concurrently. The first team member to check in creates the next version. Other team members must merge the new Latest version into their local copy before they can check in their changes.

If there are no merge conflicts, the merge succeeds, leaving the merged files in your work area. If there are conflicts, DesignSync issues a warning, and you must edit the merged file to resolve the conflicts before DesignSync allows you to check in the merged version. Conflicts are shown as follows:

```
<<<<<< local
Lines from locally modified version
=====
Lines from selected server version
>>>>>> versionID
```

DesignSync considers the conflicts resolved when the file no longer contains any of the conflict delimiters (exactly 7 less-than, greater-than, or equal signs starting in column 1). The status of an object, as

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displayed by `ls` or from the List View in the DesignSync graphical interface, indicates if conflicts exist. The `url inconflict` command also determines whether a file has conflicts.

Most merges are between two versions on the same branch (the current branch and the branch specified by the persistent selector list are typically the same). However, a merge can also be performed across branches by setting the persistent selector list to a different branch. Following the merge, you are on the branch associated with the version specified by the persistent selector list (a 'merge to' operation). If you want to stay on the current branch instead, use the `-overlay` option. Overlay ('merge from') merges are more common when merging branches. See the `-overlay` option for details.

Note:

- o The `-merge` option implies `-get`, but you can also explicitly specify `-get`. For general DesignSync objects, the `-merge` option is mutually exclusive with all other state options (`-lock`, `-share`, `-mirror`, `-reference`, and `-lock -reference`). You can use `-lock` with `-merge` for modules and their members.
- o The `-merge` and `-version` options are mutually exclusive unless you specify '`-version Latest`'.

-mirror

`-mirror`

Create symbolic links from the work area to objects in the mirror directory. This option requires that you have associated a mirror directory with your work area (see the 'setmirror' command).

For performance reasons, links are created only when objects do not exist in your work area. To update mirror links for existing objects, use `-unifystate` with the `-mirror` option. For example:

```
populate -recursive -full -unifystate -mirror
```

The `-unifystate` option does not affect locally modified objects or objects that are not part of the configuration. Use `-force` with `-unifystate` to update the links, replacing locally modified objects and removing objects

that are not part of the current configuration.

When used with the `-mirror` option, the `-noemptydirs` option does not populate directories that are empty on the mirror. Using the `-force` option with the `-noemptydirs` option removes all empty directories from the workspace. Using `-force` with `-emptydirs` for `'populate -mirror'`, however, populates empty directories that exist in the mirror.

The `-mirror` option is mutually exclusive with the other fetch modes: `-lock`, `-get`, `-share`, and `-reference`. The `-mirror` option is also mutually exclusive with the `-keys` and `-from` options. The `-mirror` option cannot take an exclude filter. If the `-exclude` option is specified with the `-mirror` fetch mode, the `populate` silently ignores the `-exclude` option.

Note:

- o This option is not supported on Windows platforms.
- o The `-exclude` option is ignored if it is included in a `'populate -mirror'` operation.
- o If you specify `-mirror`, an incremental `populate` does not necessarily fetch new objects checked in, nor remove links to objects deleted by team members until after the mirror is updated.
- o When populating a custom generic collection from a mirror, always use `'populate -mirror'` from the folder containing the collection object or from a folder above the folder containing the object.

-overlay

`-overlay <selectors>` Replace your local copy of the module or DesignSync non-module object with the versions specified by the selector list (typically a branch tag). The current-version status, as stored in local metadata, is unchanged. For example, if you have version 1.5 (the Latest version) of the module or DesignSync object and you overlay version 1.3, your current version is still 1.5. You could then check in this overlaid version. This operation is equivalent to checking out version 1.3, then using `'ci -skip'` to check in that version.

The behavior of the overlay operation depends on the presence of a local version and the version you want to overlay:

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- o If both the local version and the overlay version exist, the local version is replaced by the overlay version.
- o If there is no local version but an overlay version exists, DesignSync creates a local copy of the overlay version.
- o If a local version exists but there is no overlay version, the local version is unaffected by the operation.
- o If the overlay version was renamed or removed, the local object is not changed, but metadata is added to it, indicating the change. This information can be viewed using the `ls` command with the `-merged` option.

Typically, you use `-overlay` with `-merge` to merge the two versions instead of overlaying one version onto another. The combination of `-overlay` and `-merge` lets you merge from one branch to another, the recommended method for merging across branches. Following the overlay merge, you are working on the same branch as before the operation.

You specify the version you want to overlay as an argument to the `-overlay` option. The `-overlay` and `-version` options are mutually exclusive. The `-version` option always updates the 'current version' information in your work area, which is not correct for an overlay operation.

- o To use `-overlay` to specify a branch, specify both the branch and version as follows: `'<branchtag>:<versiontag>'`, for example, `'Rel2:Latest'`. You can also use the shortcut, `'<branchtag>:'`, for example `"Rel2:"`. If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

When doing an overlay (with or without `-merge`), a number of combinations for the state of a module or DesignSync object on the two branches must be considered. For more information, see the "Merging Across Branches" section above. Hierarchical references in modules are not updated during an overlay.

Notes:

- o The `-overlay` option implies `-get`, but you can also explicitly specify `-get`.
- o The `-overlay` option is mutually exclusive with the other state options (`-mirror`, `-share`, `-lock`, `-reference`) and `-version`.

-path`-path <path>`

Specify the name of an alternate local folder to populate instead of the current folder. The populate command uses the vault and persistent selector list associated with the specified folder.

Note: Using `-path` is equivalent to changing folders, executing the populate command, then changing back to the original folder.

If you specify a folder using the `-path` option but the folder does not exist, DesignSync

- verifies that a corresponding vault exists
- creates the folder
- populates the specified folder, creating any interim folders necessary to replicate the vault hierarchy locally.

If you specify the `-target` option but the folder does not exist, DesignSync creates the folder.

Generally, however, if the vault does not exist, DesignSync does not create the folder and leaves the workspace unchanged.

Note: If the folder specified by `-path` does not exist, but corresponds to a vault with unpopulated DesignSync REFERENCES, DesignSync has no way to resolve these mappings. In this case, populate does not create the specified folder, leaving the workspace unchanged.

The `-path` option used to be the `-dir` option. The `-dir` option is still provided for backwards compatibility, but is not documented separately.

-[no]recursive`-[no]recursive`

Specifies whether to perform this operation on the specified folder (default), or to traverse its subfolders.

If you invoke 'populate `-recursive`' and specify a folder, populate operates on the folder in a folder-centric fashion, fetching the objects in the folder and its subfolders. To filter the set of objects on which to operate, use the `-exclude` option.

Note: The populate operation might skip

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subfolders and individual managed objects if their persistent selector lists differ from the top-level folder being populated; see the Description section for details.

If you specify `-norecursive` when operating on a folder, DesignSync operates only on objects in the specified folder. In this case, `populate` does not traverse the vault folder hierarchy.

If you perform a `-norecursive populate`, then for the subsequent `populate` DesignSync performs a full `populate` even if the `-full` option is not specified.

Note: DesignSync cannot perform an incremental `populate` following a nonrecursive `populate`, because it cannot ensure that the objects in the work area subfolders are up-to-date.

-reference

`-reference`

Populate with DesignSync references to objects in the vault. A reference does not have a corresponding file on the file system but does have local metadata that makes the reference visible to Synchronicity programs. Populate with references when you want your work area to reflect the contents of the vault but you do not need physical copies. Use the `-reference` option with the `-lock` option to populate with locked references. Locked references are useful if you intend to generate objects and want to lock them before regenerating, as opposed to editing the previous versions.

Note: You should not use the `-reference` option with Cadence data collection objects. When the `-reference` option is used on Cadence collections, DesignSync creates a reference in the metadata for the collection object but member files are not processed and are not included in the metadata.

-[no]replace

`-[no]replace`

This option determines how to handle locally modified objects when synchronizing your work area.

The `-replace` option specifies that the `populate`

operation updates locally unmodified workspace objects. This option leaves intact all managed objects and all unmanaged objects. If an object has been removed from the vault being fetched as a result of a retire, rmvault, or any other similar operation, -replace removes the file from the workspace if it has not been locally modified.

The -noreplace option specifies that the populate operation updates managed objects that have not been locally modified. The -noreplace option leaves intact all unmanaged objects. If an object has been removed from the vault being fetched as a result of a retire, rmvault, or any other similar operation, -noreplace does not remove the corresponding file in the workspace. (Default)

Notes:

- o See "Forcing, Replacing, and Non-Replacing Modes" above to see how the -force option interacts with the -[no]replace option.
- o If you use populate -version to populate a directory containing a module, DesignSync uses the -noreplace option unless -replace is explicitly specified.
- o If you apply the -filter or -hrefilter options, populate applies the -[no]replace option on the filtered data.
- o With a recursive operation, populate applies -replace and -noreplace behaviors to the top-level module and then to each referenced submodule.

-report

-report error|
brief|normal|
verbose

Specifies the amount and type of information displayed by the command. The information each option returns is discussed in detail in the "Understanding the Output" section above.

error - lists failures, warnings, and success failure count.

brief - lists failures, warnings, module create/remove messages, some informational messages, and success/failure count.

normal - includes all information from brief, and lists all the updated objects, and messages about objects excluded by filters from the operation. (Default)

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verbose - provides full status for each object processed, even if the object is not updated by the operation.

-[no]retain

-[no]retain

Indicates whether to retain the 'last modified' timestamp of the fetched objects as recorded when each object was checked into the vault. If the workspace is set to use a mirror, or the populate is run using -share, this will also apply to the object placed in the mirror or LAN cache if the object doesn't already exist in the mirror or cache. The links in your work area to the cache or mirror have timestamps of when the links were created.

If you specify the -reference option, no object is created in your work area, so there is no timestamp information at all.

If an object is checked into the vault and the setting of the -retain option is the only difference between the version in the vault and your local copy, DesignSync does not include the object in populate operations.

If you do not specify '-retain' or -noretain', the populate command follows the DesignSync registry setting for Retain last-modification timestamps. By default, this setting is not enabled; therefore, the timestamp of the local object is the time of the populate operation. To change the default setting, your Synchronicity administrator can use the SyncAdmin tool. For information, see SyncAdmin Help.

The mirror system, by default, fetches objects into the mirror with the -retain option. The mirror administrator, however, can define mirrors to use the -noretain option. The default setting should agree with the Retain last-modification timestamp registry setting to maintain consistency. See the "Mirror Administration Server Registry Settings" topic for setting of the co or populate options for mirrors.

Note: When fetching from the cache or mirror (by specifying the '-from local' option), the last modified timestamp comes from the file in the cache or mirror, not from the version that was checked into the vault. If the file was fetched

into the cache or mirror with the `-retain` option, these two timestamps are the same. But if the file was fetched into the cache or mirror with the `-noretain` option and then fetched into the workspace with both the `'-from local'` and `'-retain'` options, the 'last modified' timestamp used is the time the object was fetched into the cache or mirror.

-savelocal

`-savelocal <value>` This option affects collections that have local versions.

When it fetches an object, the populate operation first removes from your workspace any local version that is unmodified. (To remove a local version containing modified data, specify `'pop -force'`.) Then the populate operation fetches the object you are checking out (with the local version number it had at the time of checkin).

The `-savelocal` option specifies the action that the populate operation takes with modified local versions in your workspace (other than the current, or highest numbered, local version). (DesignSync considers a local version to be modified if it contains modified members or if it is not the local version originally fetched from the vault when the collection object was checked out or populated to your workspace.)

Specify the `-savelocal` option with one of the following values:

`save` - If your workspace contains a local version other than the local version being fetched, the populate operation saves the local version for later retrieval. See the `'localversion restore'` command for information on retrieving local versions that were saved.

`fail` - If your workspace contains an object with a local version number equal to or higher than the local version being fetched, the populate operation fails. This is the default action.

Note: If your workspace contains an object with local version numbers lower than the local version being fetched and if these local versions are not in the DesignSync vault, the

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populate operation saves them. This behavior occurs even when you specify '-savelocal fail'

delete - If your workspace contains a local version other than the local version being fetched, the populate operation deletes the local version from your workspace.

If you do not specify the -savelocal option, the populate operation follows the DesignSync registry setting for SaveLocal. By default, this setting is "Fail if local versions exist" ('-savelocal fail'). To change the default setting, a Synchronicity administrator can use the Command Defaults options pane of the SyncAdmin tool. For information, see SyncAdmin Help.

Note:

- o You may need to use the -force option with the -savelocal option to allow the object being fetched to overwrite a locally modified copy of the object. For an example scenario, see EXAMPLES.
- o The -savelocal option affects only objects of a collection defined by the Custom Type Package (CTP). This option does not affect objects that are not part of a collection or collections that do not have local versions.

-share

-share

Fetch shared copies. Shared objects are stored in the file cache directory and links to the cached objects are created in the work area.

Notes:

This option is not supported on Windows platforms.

The -share option is mutually exclusive with the other fetch modes: -lock, -get, -mirror, and -reference. The -share option is also mutually exclusive with the -keys and -from options.

-trigarg

-trigarg <arg>

Specifies an argument to be passed from the command line to the triggers set on the populate operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss

command shell or braces ({})) if using the stcl command shell.

-[no]unifystate

`-[no]unifystate` Indicates whether to set the state of all objects processed, even up-to-date objects, to the specified state (`-get`, `-lock`, `-share`, `-mirror`, or `-reference`) or to the default fetch state if no state option is specified. See the "fetch preference" help topic for more information.

By default, `populate` changes the state of only those objects that are not up-to-date (`-nounifystate`). If the `-unifystate` option is specified, `DesignSync` changes the state of the up-to-date objects, as well, and thus performs a full `populate`.

The `-unifystate` option does not change the state of locally modified objects; use `-force` with `-unifystate` to force a state change, thus overwriting local modifications. The `-unifystate` option does not change the state of objects not in the configuration; use `-force` with `-unifystate` to remove objects not in the configuration.

The `-unifystate` option does not cancel locks; you can check in the locked files, use the 'cancel' command to cancel locks you have acquired, or use the 'unlock' command to cancel team members' locks.

Note: The `-unifystate` option is ignored when you lock design objects. If you `populate` with locked copies or locked references, `DesignSync` leaves all processed objects in the requested state.

-version

`-version <selector>` Specifies the versions of the objects to `populate`. The selector list you specify (typically a version or branch tag) overrides the persistent selector lists of the objects you are `populating`. If you specify the `-recursive` option, the specified selector list is used to `populate` all subfolders during `populate`. You can also specify a `ProjectSync` configuration; see "Interaction with Legacy Modules" in the

Description section.

If you specify a date selector (Latest or Date(<date>)), DesignSync augments the selector with the persistent selector list to determine the versions to populate. For example, if the persistent selector list is 'Gold:,Trunk', and you specify 'populate -version Latest', then the selector list used for the populate operation is 'Gold:Latest,Trunk:Latest'.

For details on selectors and selector lists see the topic describing selectors.

Note:

- o Using the -version option with the populate command does not change the workspace selector, even during the initial populate of an object. To set the workspace selector as part of the populate command, specify the selector explicitly, using the <object>;<selector> syntax.
- o If you use the -version option with the -incremental option, and the selector you specify does not exactly match the workspace selector, the incremental populate does not occur. DesignSync performs a full populate instead. See "Incremental Versus Full Populate" in the description section for more information.
- o When using -version to specify a branch, specify both the branch and version as follows: <branchtag>:<versiontag>, for example, Rel2:Latest. You can also use the shortcut, <branchtag>:, for example Rel2:. If you do not explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.
- o When you specify a version-extended name that reflects the object's version, for example, "file.txt;1.3", populate ignores the -version option.
- o Specify '-version <branchtag>:Latest' only if necessary. In some cases, DesignSync augments the selector to be <branchtag>:Latest. When you append ':Latest', it may not match the work area selector. This mismatch invalidates your next incremental populate resulting in a slower, full populate.
- o The -version option is mutually exclusive with -merge unless you specify '-version Latest', the default.
- o The -version and -overlay options are mutually exclusive.
- o When you use populate with the -version option to fetch a directory containing legacy

modules, by default DesignSync uses the
-noreplace

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed.

Notes:

- "successfully processed" may not mean "successfully populated". For example, a populate of an object that you already have in your work area is considered a success even though no checkout occurs.
- Scripts should only test for non-empty lists to determine success or failure. The actual content of the non-empty lists might change in subsequent releases.
- If all objects fail, an exception occurs (the return value is thrown, not returned).
- Objects reported as "excluded by filter," may have been excluded either with the -filter option (for modules) or with the -exclude option (for any DesignSync objects.)

SEE ALSO

cached, ci, co, command defaults, localversion, retire, selectors, setselector, setvault, url contents

EXAMPLES

- [Example of Creating a new work area from a DesignSync vault](#)
- [Example of Creating a New Work Area from a DesignSync Vault Branch](#)
- [Example of Updating an Existing Workspace with a Full Populate](#)
- [Example of Updating the State of Objects in the Workspace](#)
- [Example of Performing a Merge into a Workspace](#)
- [Example of Replacing Modified Files with the Server Versions](#)

Example of Creating a new work area from a DesignSync vault

The following example creates a new work area containing unlocked copies of every object in the vault hierarchy:

```
dss> scd /home/tgoss/Projects/Asic
dss> setvault sync://myhost.myco.com:2647/Projects/Asic .
```

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```
dss> populate -recursive -get
```

Because `-version` is not specified, the persistent selector list of the current folder determines what versions to populate. The local Asic folder has not had a `'setselector'` command applied to it or any parent folder, so the default persistent selector list is `'Trunk'`. By default, DesignSync performs an incremental populate of the Latest versions on the specified branch (Trunk). Note that this operation does not fetch objects whose `'Trunk'` branch is retired.

Example of Creating a New Work Area from a DesignSync Vault Branch

The following example differs from the previous example in that the work area is for the Rel2.1 branch, not Trunk, and the work area contains links to a cache directory instead of local copies:

```
dss> scd /home/tgoss/Projects/Asic
dss> setvault sync://myhost.myco.com:2647/Projects/Asic@Rel2.1:Latest .
dss> populate -recursive -share
```

Example of Updating an Existing Workspace with a Full Populate

The following example performs a full (nonincremental) recursive populate on the current folder, fetching unlocked copies of files for updated objects. Note that the states of objects that are not updated DO NOT change.

```
dss> populate -recursive -full -get
```

Example of Updating the State of Objects in the Workspace

By default, the states of up-to-date objects do not change during a populate operation. The following example updates the states of the objects that are up-to-date, allowing you to unify the states of all objects in your work area. The `-unifystate` option causes DesignSync to perform a full populate rather than an incremental populate.

```
dss> populate -recursive -unifystate -get
```

Example of Performing a Merge into a Workspace

The following example merges Latest versions from the current branch into the local versions. You perform this operation when your team uses the merging (nonlocking) work model and you and other team members have been modifying the same objects. It is more

common to use the 'co -merge' command to operate on just those objects you want to check in.

```
dss> populate -merge
```

Note that the merge operation fetches from the branch specified by the folder's persistent selector list, not from the current branch. However, these two branches are typically the same unless you have changed the persistent selector list with the `setselector` command. In this case, you would be merging across branches instead of from the same branch. This method for merging between two branches is not recommended; use the `-overlay` option.

The following example merges one branch (Dev) into another (Main). This operation is typically performed by a release engineer who manages the project vault. The work area is first populated with the Latest versions from 'Main'. Then the Latest versions from Dev are merged into the local versions. The `-overlay` option indicates that after the operation, the current branch and version information (as stored in local metadata) should be unchanged. Following the merge and after any merge conflicts are resolved, a check-in operation checks the merged version into 'Main'.

```
dss> url selector .
Main:Latest
dss> populate -recursive
dss> populate -recursive -merge -overlay Dev:Latest
[Resolve any merge conflicts]
dss> ci -recursive -keep .
```

Example of Replacing Modified Files with the Server Versions

This example shows use of the `populate` operation that deletes local versions.

Note: The DesignSync Milkyway integration has been deprecated. This example is meant to be used only as a reference.

Mike checks out the Milkyway collection object `top_design.sync.mw`, which fetches local version 4 of that object to his workspace. He modifies the object and creates local version 5. Then he checks in `top_design.sync.mw`. The check-in operation does not remove local versions, so Mike now has local version 5 (unmodified) and local version 4 in his workspace. (Note: Because the checkin removes local version 4's link to with the original check-out operation of `top_design`, DesignSync now considers local version 4 to be modified.)

Ben checks out `top_design.sync.mw` (local version 5). He creates local version 6 and checks the object in.

Mike does some work on `top_design`, which creates local versions 6, 7, and 8 in his workspace. Then he decides to use Ben's version of the `top_design` object instead.

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Mike uses `populate` to fetch the latest versions of Milkyway collection objects to his workspace. He doesn't want to save his local versions of the object, so he uses the `'-savelocal delete'` option to delete local versions other than the local version being fetched. In addition, he uses the `-force` option. (Because he created local versions 6, 7, and 8 of `top_design` in his workspace, DesignSync considers the `top_design` object to be locally modified and by default the `populate` operation does not overwrite locally modified objects. To successfully check out `top_design`, Mike must use `'-force'`.)

```
stcl> cd /home/tjones/top_design_library
stcl> populate -savelocal delete -force
```

Before fetching `top_design.sync.mw` from the vault, the `populate` operation first deletes all local versions that are unmodified. So the `populate` operation deletes Mike's local version 6 because that was the version originally fetched and its files are unmodified.

Because Mike specified the `-force` option, the `populate` also deletes Mike's local version 8 (the current local version containing modified data for the object).

Because Mike specified `'-savelocal delete'`, the `populate` operation deletes local version 7, which is not in the vault and is not the modified data Mike agreed to delete when he specified `'-force'`. If Mike specified `'-savelocal save'`, DesignSync would save local version 7. Local version 4 is also deleted.

Finally, Mike's `populate` operation fetches the `top_design` object (Ben's local version 6) from the vault.

Mike continues to modify the `top_design` object, creating local version 7, which he checks in.

Ben has local versions 5 and 6 in his workspace. He populates his workspace containing the `top_design` collection object (local version 7), specifying `'-savelocal fail'`. The `populate` operation removes local version 6 from his workspace because it is unmodified. The operation saves local version 5 even though it is modified. (Ben's checkin of local version 6 removed local version 5's link to with the original checkout of `top_design`, so DesignSync now considers local version 5 to be modified.) The `populate` also takes place despite the fact that Ben specified `'-savelocal fail'`. The `populate` operation takes this action because local version 5 has a number lower than the local version being fetched. If Ben had instead specified `'-savelocal delete'`, the `populate` operation would delete local version 5.

tag

tag Command

NAME

tag - Assigns a tag to a version or a branch

DESCRIPTION

- [Working with Tags](#)
- [Branch Tags Versus Version Tags](#)
- [Tagging Files-Based DesignSync Objects](#)
- [Tag Name Syntax](#)
- [Determining the Objects to be Tagged](#)
- [Interaction with Objects from a Mirror](#)

This command assigns a symbolic name, called a tag, to a version (version tag) or branch (branch tag). You also use this command to move (-replace) or remove (-delete) existing tags.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports Enterprise Design Synchronization. For more information on Enterprise Design Synchronization, see the Enterprise Design Administration User's Guide.

This command supports the command defaults system.

Working with Tags

Tagging a set of versions creates a group of objects, sometimes called a configuration, that is a representation of your design files that correspond to a known state, such as a development or release milestone. For example, you might tag the current versions of your design files 'Alpha' when you have reached the Alpha milestone.

Once you have tagged your set of versions, the tag can be used as a selector to identify what objects commands operate on. For example, you might specify 'populate -version Gold' to populate all versions that are tagged 'Gold' (the 'Gold' configuration). See the "selectors" help topic for more information on selectors.

Versions and branches can have more than one tag assigned to them. For example, an object that did not change between releases might have both 'rel2.1' and 'rel2.2' applied to the same version.

Note: If you tag a version with a tag that already exists on that version, the system will respond with a 'success' message.

Branch Tags Versus Version Tags

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Branch tags and version tags share the same name space. To distinguish version selectors from branch selectors, you append ':<versiontag>' to the branch name; for example, 'Gold:Latest' is a valid branch selector. You can leave off the 'Latest' keyword as shorthand; for example, 'Gold:' is equivalent to 'Gold:Latest'. The selector 'Trunk' is also a valid branch selector; 'Trunk' is a shorthand selector for 'Trunk:Latest'.

You cannot assign the same tag name to both a version and a branch of the same object. For example, a file called 'top.v' cannot have both a version tagged 'Gold' and a branch tagged 'Gold'. However, 'top.v' can have a version tagged 'Gold' while another file, 'alu.v', can have a branch tagged 'Gold'.

Consider adopting a consistent naming convention for branch and version tags to reduce confusion. For example, you might have a policy that branch tags always begin with an initial uppercase letter ('Rel2.1', for example) whereas version tags do not ('gold', for example).

If the selector identifies a version, DesignSync resolves the selector to both the object's version number and branch number. For example, if version 1.2.1.3 is tagged 'gold', DesignSync resolves 'gold' as both version 1.2.1.3 and branch 1.2.1. A version selector only resolves if the object has a version tag of the same name; it does not resolve if the tag is a branch tag. For example, if branch 1.2.1 is tagged 'RelA', and the latest version on that branch is 1.2.1.3, then DesignSync resolves 'RelA:Latest' as version 1.2.1.3; however, DesignSync does not resolve selector 'RelA' at all, because there is no version tag of that name.

Tagging Files-Based DesignSync Objects

Tags for DesignSync vaults use the object versions in your work area to determine the appropriate version or branch to tag in the vault. Once a tag operation has completed, the new tags are visible to other users of the vault. If the version you want to tag is not the version in your workspace, use the `-version` option to specify the correct version or branch to tag.

If you want to tag a locally modified DesignSync object, you must specify the `-modified` option.

Note: If you tag a directory that includes unmanaged objects, the tag operation does not return an error for the unmanaged objects, but rather fails silently.

Tag Name Syntax

The first argument to the 'tag' command is the tag name.

Tag names:

- Can contain letters, numbers, underscores (`_`), periods (`.`), hyphens (`-`), and forward slashes (`/`). All other characters, including whitespace, are prohibited.
- Cannot start with a number and consist solely of numbers and embedded periods (for example, `5`, `1.5`, or `44.33.22`), because there would be ambiguity between the tag name and version/branch dot-numeric identifiers.
- Cannot be any of the following reserved, case-insensitive keywords: `Latest`, `LatestFetchable`, `VaultLatest`, `VaultDate`, `After`, `VaultAfter`, `Current`, `Date`, `Auto`, `Base`, `Next`, `Prev`, `Previous`, `Noon`, `Orig`, `Original`, `Upcoming`, `SyncBud`, `SyncBranch`, `SyncDeleted`. Also, avoid using tag names starting with 'Sync' (case-insensitive), because Synchronicity may define new keywords in the future using that naming convention.

Notes:

- o The Connected Software and Connected Semiconductor apps do not support the use of forward slash (`/`) in Tag names.
- o DesignSync vaults and legacy modules have an additional restriction: tag or branch names cannot end in `--R`.

The 'Latest' reserved keyword is of particular importance. 'Latest' is always associated with the most recent (highest numbered) version of a design object on a given branch. Although not actually a tag, you can generally specify 'Latest' as you would a user-defined version tag. Note that the default command behavior in many cases is to operate on the latest version on the current or specified branch, so you typically do not need to specify 'Latest'. See the "selectors" help topic for more details on selectors, including the use of 'Latest'.

The 'Trunk' tag, although not a reserved keyword, has special significance for DesignSync. By default, DesignSync tags branch 1 as 'Trunk' when you initially check in a design object. Because 'Trunk' is a tag (shorthand for 'Trunk:Latest'), you can move or delete it, although doing so is not recommended. Due to this special significance, the 'Trunk' tag is always expected to be a branch tag, and you cannot add this as a version tag. For example, you can specify 'tag -branch 1 Trunk myfile', but you cannot specify 'tag -version 1.1 Trunk myfile'.

Determining the Objects to be Tagged

Each object argument to the 'tag' command can be:

- o A local managed object (file or collection object). By default, the current version in your work area is tagged unless you specify the `-branch` option or `-version` option.

Note: If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on

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a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the SyncAdmin "Map operations on collection members to owner" setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

- o A folder, which is useful only for recursive tagging. You can specify either a local folder (a folder in your work area) or a vault folder:
 - If you specify a local folder, the tag operation uses the objects in that local folder to determine which objects to tag in the corresponding vault folder. If the tag operation encounters a module, it does not tag the module. To tag a module, specify the server URL of the module. If the tag operation encounters a legacy module, tag handles the module as a customary DesignSync workspace, tagging the objects and continuing to traverse the hierarchy according to the `-recursive` option selected. Note, however, that the tag command will not stop at submodule boundaries. (The `-nomodulerecursive` option is no longer supported.)
 - If you specify a vault folder, the tag operation tags each object in the vault folder. Note: If you specify a vault folder for a recursive tag operation, the operation does not create new configuration maps for legacy DesignSync REFERENCES.
- o A version object, although to identify a particular version, you typically specify a local object and the `-version` option. The `-version` option is ignored if you specify a version object.
- o A branch object. The latest version on the specified branch is tagged unless you specify the `-branch` option, in which case a branch tag is applied to the branch object you specified -- the argument to the `-branch` option is ignored.

Note: Tag supports both `filter` and `exclude` which can affect which objects available for tagging.

Interaction with Objects from a Mirror

If a work area contains a link to a mirror, the tag operation uses the version that resides in the mirror directory to determine which object version to tag in the vault, even though the version in the mirror directory may not be the Latest version in the vault. For example, if your work area contains a link to version 1.3 of fileA in the mirror directory, a tag operation tags version 1.3 in the vault, even though fileA's 'Latest' version in the vault is 1.4.

Notes:

- o The tag operation considers an object that is a link to a mirror as unmodified and does not fail for that object. The same is true for members of collections: if all members of a collection are symbolic links, then the collection is not considered by the tag operation as modified, even if a member symbolic link was deleted.
- o Synchronicity does not recommend tagging a work area that contains links to a mirror directory. A mirror directory is updated constantly; if you tag objects while the mirror's objects are changing, the result may be a configuration different from the one you intended.

SYNOPSIS

```
tag [-branch <branch> | -branch auto(<branch>) | -[no]delete |
    -[no]replace | -version <selector>]
    [-exclude <object>[,<object>,...]] [-[no]modified]
    [-[no]recursive] [-report <mode>] [-[no]selected]
    [-trigarg <arg>] [-warn <mode>] [--] <tagname>
    [<argument> [<argument> ...]]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)

The tag command accepts a <tagname> followed by multiple arguments on which to apply the tag. See "Tag Name Syntax" above for the allowable values for the tagname.

Specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Tags the vault corresponding to the specified local managed object.

DesignSync Folder

<DesignSync folder> Tags the vaults corresponding to the objects in the specified folder. If the folder contains a legacy module, tag handles the module as a customary DesignSync workspace, tagging the objects and continuing to traverse the hierarchy

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according to the `-recursive` option selected. Note, however, that the tag command will not stop at submodule boundaries. (The `-nomodulerecursive` option is no longer supported.)

OPTIONS

- [-branch](#)
- [-\[no\]delete](#)
- [-exclude](#)
- [-\[no\]modified](#)
- [-\[no\]recursive](#)
- [-\[no\]replace](#)
- [-report](#)
- [-\[no\]selected](#)
- [-trigarg](#)
- [-version](#)
- [-warn](#)
- `--`

-branch

```
-branch <branch>  
| -branch  
  auto(<branch>)
```

Tags the branch specified by the branch or version tag, auto-branch selector, or branch numeric. This option overrides the object's persistent selector list. If `<branch>` resolves to a version, the branch of that version is tagged. The `-version` and `-branch` options are mutually exclusive. The `-branch` option is not applicable to operations on a module snapshot.

For a tag using an auto-branch selector, for example `Auto(Golden)`, if 'Golden' exists as a branch, the 'Golden:Latest' version is tagged. If no branch named 'Golden' exists for the object, the tag operation fails.

Note: The `-branch` option accepts a single branch tag, a single version tag, a single auto-branch selector tag, or a branch numeric. It does not accept a selector or selector list.

-[no]delete

```
-[no]delete
```

Indicates whether to delete the specified version or branch tag.

Note: Because a tag can apply to either a

branch or a version (not both), DesignSync determines which kind of tag is specified and deletes it. You can define access controls to selectively control the deletion of branch and version tags.

The `-delete` option is mutually exclusive with the `-branch`, `-replace`, and `-version` options. You cannot specify a specific version or branch because only one version or branch of an object can have a given tag, so just specifying the object itself is sufficient.

-exclude

`-exclude <objects>` Specifies a comma-separated list of objects to exclude from the operation. Wildcards are allowed.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive tag operation), DesignSync compares the object's leaf name (path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `-exclude bin/*.exe`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `-exclude *.exe`, or `-exclude foo.exe` if you want to exclude only `'foo.exe'`. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the `-exclude` option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in the DesignSync graphical user interface lists objects that are always excluded from revision-control operations.

-[no]modified

`-[no]modified` Indicates whether to tag the versions in the vault corresponding to the modified objects in your work area. If you specify `-nomodified` (default), when the tag operation encounters a locally modified object, the operation displays an error for the object and does not tag any version of that object in the vault.

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Note: This option affects modified objects only.
If a work area object is unmodified, the tag operation tags the version in the vault that matches the one in your work area.

-[no]recursive

-[no]recursive

Specifies whether to perform this operation on the specified folder or to traverse its subfolders. The default value is `-norecursive`.

If you specify a local folder (a folder in your work area), the tag operation uses the local folder hierarchy to determine which objects to tag in the vault. If you specify a vault folder, the operation traverses the vault folder hierarchy, tagging objects in that hierarchy.

When `'tag -recursive'` is invoked, the DesignSync client scans all of the subdirectories, determining the file versions to tag. Tag requests are then sent to the server, with up to 1000 objects included in each request. On the server, each file version in the request is processed. For each file version, access control is checked, and the file version then tagged (if allowed by access controls). The results from processing the set of up to 1000 objects are then returned to the DesignSync client. The next set of up to 1000 objects are then processed by the server, and so on.

By default, the tag operation is nonrecursive; it tags objects in the specified folder only.

-[no]replace

-[no]replace

Indicates whether to move the tag to the target version or branch, even if the specified tag is already in use on another version or branch. By default (`-noreplace`), a tag operation fails if the tag is already in use, because a tag can be attached to only one version or branch of an object at a time. Note that you can move a tag from a branch to a version or a version to a branch. DesignSync provides a warning message when you do so.

Note: If you specify a comment, the tag operation replaces the comment with the new comment.

If you do not specify a comment, the operation removes the previous comment associated with tag.

-report

`-report <mode>` Specifies the contents of a report on the tag operation.

Available modes are:

- o `brief` - This mode lists:
 - Objects that were not tagged.
 - Objects skipped by the tag operation because it created a new configuration map.
 - A count of successes and failures for the tag operation. Note: This count is output only if you are using the `stcl/stclc` command shell.

If the `-report` option is not specified, the default mode is `'-report brief'`.

- o `normal` - This mode provides the same output as the `brief` mode but in addition lists objects that were successfully tagged. (Default)
- o `verbose` - Displays the same information as `'normal'` and a skip notice for any objects excluded by the `-filter` or `-exclude` options.

-[no]selected

`-[no]selected` Indicates if the command should use the select list (see the `'select'` command) or only the arguments specified on the command line.

`-noselected` indicates that the command should not use the select list. (Default) If `-noselected` is specified, but there are no arguments selected, the tag command fails, even if there are valid arguments in the select list.

`-selected` indicates that the command should use the select list and any objects specified on the command line. If `-selected` is not specified, and there are no objects specified on the command line, the tag command uses the select list for the command.

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-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the tag operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({}) if using the stcl command shell.

-version

`-version <selector>` Specifies the version to tag. If the selector resolves to a branch, the Latest version on that branch is tagged. By default (`-version` not specified), the current version in your work area is tagged. The `-version` and `-branch` options are mutually exclusive.

The `-version` option checks for retired files (as of version 4.2 sp1). If the selector resolves to a branch that is retired, it skips tagging the retired files.

Note: The retired state only affects adding or replacing a version tag when `-version` is specified. It does not affect deleting a version tag.

If you specify a date selector (Latest or Date(<date>)), DesignSync augments the selector with the persistent selector list to determine the version to be tagged. For example, if the persistent selector list is 'Gold:,Trunk' and you specify 'tag -version Latest <tag>', then the selector list used for the tagging operation is 'Gold:Latest,Trunk:Latest'.

Note:

To use `-version` to specify a branch, specify both the branch and version as follows: '<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

-warn

`-warn <mode>` Provides additional checks depending on the `<mode>`. The `-warn` option supports the `'exists'` mode, which makes sure the named object still exists before allowing the tag. This is rarely needed and only applicable in those cases where someone else has removed the vault file since you checked it out. This could happen if:

- o A UNIX `'rm'` command was used. (Note: `'rm'` is not recommended; use `'rmvault'` instead.)
- o The `'rmvault -nokeepvid'` command was used, then the object was checked in again with `'ci -new'`. (Note: The `'-nokeepvid'` option is not recommended; use the default option, `'-keepvid'`.)

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

In `dss/dssc` mode, you cannot operate on return values, so the return value is irrelevant.

In `stcl/stclc` mode, two lists are returned. The first list is a count of objects successfully processed; the second list is a count of objects that failed to be processed. The first list is non-empty if at least one object was successfully processed. The second list is non-empty if at least one object failed.

Notes:

- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form `"Objects succeeded (n)"` and `"Objects failed (n)"`, where `'n'` is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception is thrown.

SEE ALSO

`ci`, `co`, `command defaults`, `mkbranch`, `populate`, `select`, `setselector`, `url tags`, `url resolvetag`, `vhistory`

EXAMPLES

- [Example of Tagging All Files Matching a Wildcarded String](#)
- [Example of Tagging a Specified Version of Files](#)
- [Example Showing Tagging Modified File in the Workspace](#)
- [Example of Tagging Locked Files](#)
- [Example of Using Exclude to Restrict Which Files are Tagged](#)
- [Example of Tagging a Branch](#)
- [Example of Deleting a Tag](#)
- [Example of Adding a Tag to a Branch or Version](#)
- [Examples of Tagging an Object on the Server](#)

Example of Tagging All Files Matching a Wildcarded String

This example adds the REL3_STABLE version tag to all managed '.v' files in the current work area except template.v. Because -version and -branch are not specified, the versions corresponding to the current (last-fetched) objects in the work area are tagged.

```
stcl> tag -exclude template.v REL3_STABLE *.v
```

Example of Tagging a Specified Version of Files

This example tags the 'Latest' versions on the current branch of all '.v' and '.h' files in the current work area with the 'stable' tag, moving the tag from older versions if necessary.

```
stcl> tag -version Latest -replace stable *.v *.h
```

Example Showing Tagging Modified File in the Workspace

This example shows that you cannot tag a file version you have modified in your work area. (To tag the modified file version, you must first check it in and then use 'tag' to tag the new version in the vault.) To tag the version in the vault instead of the modified version in your work area, you can use the -modified option:

For this example, assume that the file alu.v has been modified.

```
dss> tag test alu.v
```

Beginning Tag operation...

```
Tagging: sync://alusrvr.ABCo.com:30090/Projects/ALU/alu.v;1.1 :  
Failed: Modified object exists in the workspace.  
To tag the modified version, check it in and then tag it.
```

To tag the version in the vault, use tag -modified.

Tag operation finished.

```
{ } {Objects failed (1)}
```

```
dss> tag test alu.v -modified
```

Beginning Tag operation...

Tagging: alu.v : Added tag 'test' to version '1.1'

Tag operation finished.

```
{Objects succeeded (1)} { }
```

Example of Tagging Locked Files

This example shows that tagging a locked file tags the last-fetched version (in this example, version 1.1). You cannot tag the upcoming version (1.2).

```
dss> co -lock -nocom test.asm
```

Checking out: test.asm : Success - Checked Out version: 1.1 -> 1.2

```
dss> tag Alpha test.asm
```

Beginning Tag operation...

Tagging: test.asm : Added tag 'Alpha' to version '1.1'

Tag operation finished.

```
{Objects succeeded (1)} { }
```

```
dss> tag -version 1.2 -replace Alpha test.asm
```

Tagging: sync:///test.asm;1.2:Failed:som:

Error 88: Tag:Version doesn't exist

Tag operation finished.

```
{ } {Objects failed (1)}
```

Example of Using Exclude to Restrict Which Files are Tagged

- o This example shows the exclude syntax for vault objects.

```
stcl> ls [url vault .]
```

Directory of: sync://srv2.ABCo.com:2647/Projects/Sportster/code

Time Stamp	WS Status	Version	Type	Name
-----	-----	-----	----	----
12/28/2005 11:00				samp.asm;
12/28/2005 11:00				samp.lst;
12/28/2005 11:00				samp.mem;
12/28/2005 11:00				samp.s19;
12/28/2005 11:00				sample1.asm;

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```
12/28/2005 11:00 test.asm;
12/28/2005 11:00 test.mem;
stcl> tag -exclude {samp.asm;1,test.mem;1} -rec -version Latest \
stcl> testtag [url vault .]
```

Beginning Tag operation...

```
samp.asm;1 : Excluded from operation by filter
Tagging:
sync://srv2.ABCo.com:2647/Projects/Sportster/code/sample1.asm;1
 : Added tag 'testtag' to version '1.2'
test.mem;1 : Excluded from operation by filter
Tagging:
sync://srv2.ABCo.com:2647/Projects/Sportster/code/samp.s19;1
 : Added tag 'testtag' to version '1.1'
Tagging:
sync://srv2.ABCo.com:2647/Projects/Sportster/code/samp.mem;1
 : Added tag 'testtag' to version '1.2'
Tagging:
sync://srv2.ABCo.com:2647/Projects/Sportster/code/test.asm;1
 : Added tag 'testtag' to version '1.2'
Tagging:
sync://srv2.ABCo.com:2647/Projects/Sportster/code/samp.lst;1
 : Added tag 'testtag' to version '1.1'

Tag operation finished.

{Objects succeeded (5)} {}
stcl>
```

Example of Tagging a Branch

This example adds the branch tag 'Rel2.1' to the Trunk branch of all files in a work area (a recursive tag):

```
dss> tag -recursive -branch Trunk Rel2.1 .
```

Example of Deleting a Tag

This example deletes a version tag 'gold' and a branch tag 'Rel2.1'. Note that the syntax is the same; DesignSync determines if the specified tag is a branch tag or a version tag.

```
dss> tag -delete gold samp.lst
Deleting Tag: samp.lst : Deleted version tag 'gold'
dss> tag -delete Rel2.1 samp.lst
Deleting Tag: samp.lst : Deleted branch tag 'Rel2.1'
```

Example of Adding a Tag to a Branch or Version

- o This example adds a 'Gold' branch tag to the branch tagged Silver, or if no such branch exists, the branch associated with the version tagged Silver:

```
dss> tag -branch Silver Gold test.asm
```

Examples of Tagging an Object on the Server

The following two examples add a tag 'beta' to the 1.2 version of 'top.v'. If 'top.v' is in the local work area, you would specify 'top.v' as the argument with a '-version 1.2' option. But in this case, the version object itself is specified, so 'top.v' need not be in your work area. The first example uses version-extended naming. The second example uses the -version option.

```
dss> tag beta sync://apollo:2647/Projects/Sportster/code/top.v;1.2
```

```
dss> tag beta -version 1.2 \  
sync://apollo:2647/Projects/Sportster/code/top.v
```


Advanced Revision Control

import

import Command

NAME

`import` - Fetches an object, leaving it unmanaged

DESCRIPTION

This command fetches local copies of the specified objects from the specified vault to your current workspace. Unlike fetching with the "co" command, imported files do not retain their association with the vault (are no longer managed).

The "import" command can be used to switch an object's vault association. Perform the import on the object and then run the ci command on the new, unmanaged, object to check it into the new vault.

Note: The selector list can be used to select what versions to fetch. If the select list is used, it is inherited from parent folder (the folder into which the objects are imported). If the selector is not appropriate for the vault from which you are importing use the -version option to specify the version. For DesignSync objects, the selector list will pick up tagged versions or version numbers. For modules, the selector list can only specify version numbers.

SYNOPSIS

```
import [-force] [-version <selector>] [--]  
      <argument> <object> [<object>...]
```

ARGUMENTS

- [Vault URL](#)

Vault URL

<vault URL> Specifies the DesignSync vault URL for the object being imported. Specify the vault (for example: `sync://system:30138/Projects/Sportster/test/runit;`)

when the object being imported is not a member of a module.

OBJECTS

- [DesignSync File Object](#)

DesignSync File Object

<DesignSync object> Specifies the file object to import. You cannot import folders.

OPTIONS

- [-force](#)
- [-version](#)
- [--](#)

-force

-force Overwrites a local object if the object has the same name as an object being imported. When -force is not specified, the default behavior is to not overwrite local objects and return an error message explaining why the objects were not imported.

-version

-version <selector> Specifies the version of the objects or individual member vault being imported.

If no version is specified, DesignSync inherits the selector of the parent folder (the folder into which the objects are imported).

Note: To use -version to specify a branch, specify both the branch and version as follows: '<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

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-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

co, selectors

EXAMPLES

- [Example of Moving Files to a New Vault Associated with a Workspace](#)

Example of Moving Files to a New Vault Associated with a Workspace

This example performs a "switch vault" operation, where files from one vault are imported into a work area, then checked into another vault (the vault associated with the work area).

```
dss> scd /users/jane/myworkdir
dss> import -version Trunk sync://cassini:2647/Projects/Saturn/Rocket \
  rover.doc lander.doc
rover.doc:  Success Imported
lander.doc:  Success Imported
```

```
dss> ls rover.doc lander.doc
Time Stamp          Status  Version          Locked By      Name
-----
05/04/2000 09:24    -  Unmanaged          -----
05/04/2000 09:24    -  Unmanaged          -----
                                rover.doc
                                lander.doc
```

Jane can now check these files into the vault associated with her work area:

```
dss> ci -new -nocom -keep rover.doc lander.doc
```

mkbranch

mkbranch Command

NAME

mkbranch - Creates a new branch

DESCRIPTION

- [Branching File-based Objects](#)

This command creates a new branch for the specified objects. The new branch is tagged with the specified branch name (sometimes called a branch name "tag". For more information, see the tag help topic). The branch-point version -- the version off which the branch is created -- depends on the object type:

The 'mkbranch' command does not set the local workspace to use the new branch (your local metadata is not modified). If you want future operations to take place on the new branch, change your persistent selector to point to the appropriate branch. For example:

```
dss> mkbranch Dev top.v
dss> setselector Dev:Latest top.v
```

In addition to the manual creation of branches with 'mkbranch', which supports the "project branching" design methodology, DesignSync supports the "auto-branching" design methodology. See the "selectors" help topic for more information.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Branching File-based Objects

The behavior of the file-based object branch depends whether you branch from the workspace object version or the server object version.

- o For a local object (file or collection object, or local folder if you specify -recursive), the branch point is the last-retrieved (current) version in your work area. If DesignSync cannot determine the current version (for example, the object is not under revision control), the mkbranch command fails. If the local object is locked (for example, you have version 1.4 -> 1.5), the branch is still created off the current version (1.4), because the upcoming version (1.5) does not yet exist in the vault. You cannot specify the -version option with local objects.
- o For a vault, or vault folder if you specify -recursive, you must specify the -version option and provide a selector list (typically a version tag or version number) to identify the branch-point version.

SYNOPSIS

```
mkbranch [-exclude <string>,[<string>...]]  
         [-[no]recursive] [-[no]selected] [-version <selector>] [--]  
         <branchname> [<argument> [<argument> ...]]
```

ARGUMENTS

- [Branch Name](#)
- [DesignSync Object](#)

Branch Name

<branchname> Specifies the name to use for the new branch.
Note: Branch names cannot end in --R.

DesignSync Object

<DesignSync object> Specifies the DesignSync object or folder to branch.

OPTIONS

- [-exclude](#)
- [-\[no\]recursive](#)
- [-\[no\]selected](#)
- [-version](#)
- [--](#)

-exclude

-exclude <objects> Specifies a comma-separated list of objects to be excluded from the operation. (Legacy modules only) Wildcards are allowed.

Do not specify paths in your arguments to -exclude. Before operating on each object (such as during a recursive 'mkbranch'), DesignSync compares the object's leaf name (path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any

object in the exclude list specified with a path. For example, if you specify '-exclude bin/*.exe', you will not successfully exclude bin/foo.exe or any other *.exe file. You need to instead specify '-exclude *.exe', or '-exclude foo.exe' if you want to exclude only 'foo.exe'. The result is that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the -exclude option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in DesignSync lists objects that are always excluded from revision-control operations.

-[no]recursive

-[no]recursive

Determines whether to branch the specified object or any subfolders.

-norecursive branches only the specified object. (Default)

-recursive branches the specified object and any subfolders of the object. If the command argument is a vault folder, DesignSync operates on all vaults in the folder and its subfolders. If the command argument is a local folder, DesignSync operates on all files and collections objects in the folder and its subfolders.

If a recursive 'mkbranch' operation encounters a vault folder on the SyncServer that is configuration-mapped to another vault folder (using DesignSync REFERENCES), the 'mkbranch' operation creates a new configuration map on the SyncServer instead of branching the objects in the vault folder.

Note: You can recursively branch vaults within legacy module folders.

-[no]selected

-[no]selected

Indicates if the command should use the select list (see the 'select' command) or only the arguments specified on the command line.

-noselected indicates that the command should

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not use the select list. (Default) If `-noselected` is specified, but there are no arguments selected, the `mkbranch` command fails, even if there are valid arguments in the select list.

`-selected` indicates that the command should use the select list and any objects specified on the command line. If `-selected` is not specified, and there are no objects specified on the command line, the `mkbranch` command uses the select list for the command.

-version

`-version <selector>` Specifies the version off of which the branch is created. This option is required unless the argument contains a version specifier.

Notes:

- o You can specify a dynamic selector as the argument to the `-version` option, for example, `'-version Rel2:Latest'`; however, doing so is not recommended because you are attempting to freeze dynamically changing objects. Instead, specify a fixed version selector, for example, `'-version rel2_revision1'`.
- o If you do choose to specify a branch using the `-version` option, specify both the branch and version as follows:
`'<branchtag>:<versiontag>'`, for example, `'Rel2:Latest'`. You can also use the shortcut, `'<branchtag>:'`, for example `"Rel2:"`. If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

In `stcl/stclc` mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed,

and the second list is non-empty if at least one object failed.

Notes:

- Scripts should only test for non-empty lists to determine success or failure. The actual content of a non-empty list currently takes the form "Objects succeeded (n)" and "Objects failed (n)", where "n" is the number of objects that succeeded or failed. However, these return values are subject to change in a future release.
- If all objects fail, an exception occurs (the return value is thrown, not returned).

SEE ALSO

selectors, setselector, select, tag, command defaults

EXAMPLES

- [Example of Branching Two Files From Your Workspace](#)
- [Example Showing Branching The File Objects in the Workspace Recursively](#)
- [Example Showing Branching the Server Version of a File](#)
- [Example Branching the Entire Project from the Server](#)

Note: The following examples demonstrate the syntax and behavior of `mkbranch`, but do not necessarily show a recommended use model.

Example of Branching Two Files From Your Workspace

In the following example, a new "Dev" branch is created off the current versions of two local files. Note that the persistent selector list before and after the operation is unchanged; you must manually change the persistent selector list if you want to work on the new branch. Note: This example demonstrates the syntax and behavior of `'mkbranch'`, but does not show a recommended use model. When branching individual objects (as opposed to entire projects), use the auto-branching option on `checkin` or `checkout`.

```
dss> ls -report PR samp.asm test.mem
Selector      Version      Name
-----
Trunk         1.3          samp.asm
Rel2.1        1.2.1.2     test.mem
```

```
dss> mkbranch Dev samp.asm test.mem
```

```
Beginning MkBranch operation...
```

```
Branching: samp.asm : Success - Created branch 1.3.1, tagged Dev
```


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```
Branching: test.mem : Success - Created branch 1.2.1.2.1, tagged Dev
```

```
MkBranch operation finished.
```

```
dss> ls -report PR samp.asm test.mem <== Selector is unchanged
```

Selector	Version	Name
-----	-----	----
Trunk	1.3	samp.asm
Rel2.1	1.2.1.2	test.mem

```
dss> setselector Dev samp.asm test.mem <== Set the selector to  
<== work on the new branch
```

```
Beginning Set Selector operation...
```

```
Finished Set Selector operation.
```

```
dss> ls -report PR samp.asm test.mem
```

Selector	Version	Name
-----	-----	----
Dev	1.3	samp.asm
Dev	1.2.1.2	test.mem

Example Showing Branching The File Objects in the Workspace Recursively

The following example branches an entire work area. The `-recursive` option traverses the hierarchy and creates a branch called "Rel2.1" off the current version of every object:

```
dss> mkbranch -recursive Rel2.1 .
```

Example Showing Branching the Server Version of a File

The following example makes a branch called "main" off version 1.1 on a file "test.mem". Because the vault for "test.mem" is specified, the `-version` option is required to identify the branch-point version. Note that there must have already been two branches off version 1.1, because the new branch is 1.1.3.

```
stcl> mkbranch main -version 1.1 [url vault test.mem]
```

```
Beginning MkBranch operation...
```

```
Branching: sync://myhost:2647/Projects/Sportster/code/test.mem; :  
Success - Created branch 1.1.3, tagged main
```

```
MkBranch operation finished.
```

```
{Objects succeeded (1)} {}
```

In the previous example, if version 1.1 of "test.mem" had a version tag called "Alpha", you could specify that tag instead of the

version number:

```
stcl> mkbranch main -version Alpha [url vault test.mem]
```

Example Branching the Entire Project from the Server

The following example is typical of a release engineer creating a new project branch off an existing configuration, for example to create a patch release:

```
stcl> mkbranch -version Rel3.1 -rec Patch1 sync://host:2647/Projects/Asic
```

The following example also shows a release engineer branching an entire project. In this case, the engineer has a local work area populated with the latest versions of all files. He places version tags on these latest versions to identify the branch points for the new branch. He then branches from those branch-point versions.

```
stcl> populate -recursive
stcl> tag -recursive bp-Rel30 .
stcl> mkbranch -recursive -version pb-Rel30 [url vault .] Rel30
```

mkfolder

mkfolder Command

NAME

```
mkfolder          - Creates a folder (directory)
```

DESCRIPTION

This command creates one or more folders (directories), either on the local file system or on the server.

- o You can specify the folder as a relative path, an absolute path, a "file:" URL, or a "sync:" URL.
- o The permissions of the new folder are inherited from the parent folder.
- o When creating local folders (not specifying the "sync:" protocol), you must have write privileges for the parent directory.
- o When specifying a folder name that contains whitespace, use double quotes.
- o DesignSync creates whatever folders are needed to create the specified path (similar to UNIX's 'mkdir -p' command).
- o The ability to create server-side folders ("sync:" protocol) can be accessed controlled using the MakeFolder action.
- o When creating folders, you must use a legal name. If characters are restricted, you cannot use them in folder names. For more

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information on restricted characters, see Exclude Lists in the DesignSync Data Manager Administrator's Guide.
This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mkfolder [--] <foldername> [<foldername>...]
```

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

SEE ALSO

mvfolder, rmfolder

,

EXAMPLES

```
The following examples show variations of creating folders:
dss> mkfolder asic # relative path
dss> mkfolder ../asic # relative path
dss> mkfolder /home/goss/Projects/asic # absolute path
dss> mkfolder file:///home/goss/Projects/asic # file: protocol
dss> mkfolder sync://holzt:2647/Projects/asic # sync: protocol
dss> mkfolder asic1 ../asic2 # create two folders
dss> mkfolder "asic 1" # foldername has whitespace
dss> mkfolder asic/decoder/synth # creates asic and decoder
# folders if necessary
```

mvfile

mvfile Command

NAME

mvfile - Moves the specified object

DESCRIPTION

This command moves or renames the specified object. The object can be a file or a Cadence cell view (collection object).

Notes: To move a Cadence collection, use mvfile with the `-noallconfigs` option. No other collection types can be moved with mvfile.

With the mvfile command, you can specify a relative or absolute path to the object. You can move unmanaged and managed objects. To move a folder, use the mvfolder command.

For unmanaged objects, the mvfile operation is equivalent to an operating-system move operation (for example, Unix 'mv').

For managed objects, the mvfile operation when not using `-allconfigs`:

1. Moves the object locally, if run from the workspace.
2. Retires the current branch of the object's vault.
3. Creates a new vault for the new object name. The initial version in the new vault is created from the current object in your work area (as though you executed 'ci -new' on the object after it was moved locally). At this time, a default check-in comment is added. The comment includes the user, time of check-in, and version URL from where the new vault originated.

By leaving the existing vault intact, configurations containing the object prior to being moved are preserved. The new vault contains only version 1.1 of the moved object; the new vault does not contain the version history of the moved object. The branch tags of the current branch, if any and the selector at the time of the move are retained for the moved object. The fetch state of the moved object is the same as the original object; for example, if you had a link to a cached file prior to the move, you have a link to a cached file after the move.

For managed objects, the mvfile operation with `-allconfigs` option:

1. Moves the object locally, if done from the workspace.
2. Creates a new vault and then moves all configurations of the original object to the new object.
3. Removes the old vault.
The new vault contains all versions that were there in the old vault. So, if the old vault had file X with version Y, the new vault also has file X with version Y. It also contains the version history of the moved object. In addition, since the old vault is removed, all existing configurations will contain the new vault name and not the original vault name.

Note: The mvfile command with or without the `-allconfigs` option does not update the "Objects" list on RC notes.

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When using the `-noallconfigs` option (default), you cannot move:

- Server-side objects (as specified with the `sync://` protocol).
- DesignSync references. You must fetch a local copy, link to the cache, or link to the mirror first.
- Generic collection objects.
- Objects on a locked branch. You must release the lock first.
- Managed symbolic links to files or folders.
- Collection members, such as the files that make up a Cadence cell view.

When using the `-allconfigs` option, you cannot move:

- Cache or mirror links. You must fetch a local copy or a reference first.
- Collection objects.
- Objects on a locked branch. You must release the lock first.
- Managed symbolic links to files or folders.
- Collection members, such as the files that make up a Cadence cell view.

The following additional restrictions apply:

- The source and destination locations must be on the same file system.
- The destination object or vault cannot already exist.
- The path of the destination object must already exist; no components of the destination path are created for you.
- When not using `-allconfigs` option with managed objects, the checkin to create the new vault is always done with the `'-keys kkv'` option; revision-control keywords, if any, are retained and their values are updated.
- For managed objects, the vault folders for both source and destination locations must be on the same SyncServer (the vault set to the same `sync://<host>:<port>`). Otherwise, an error about crossing domain boundaries results.
- When not using the `-allconfigs` option with managed objects, you cannot rename the object, and then rename it back to the original name.
- Cadence cell view (`.sync.cds`) collection objects can only be moved to a Cadence cell folder.
- Cadence cell view objects must always be named with a `.sync.cds` extension.
- ProjectSync notes do not migrate to the new vault, unless the `-allconfigs` option is used.
- When the `-allconfigs` option is used, RevisionControl notes are not affected, remaining associated with the original vault.
- If there are restricted characters are enabled, no restricted character can be used in the natural path of the object.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

SYNOPSIS

```
mvfile [-allconfigs] <object> <destination>
```

ARGUMENTS

- [Object](#)
- [Server URL object](#)
- [Destination](#)
- [Server URL Destination](#)

Object

`object` The object that you want to move or rename. The object can be a local file or Cadence cell view (.sync.cds) collection object. You can specify an absolute or relative path.

Server URL object

`serverURL` Specifies the URL of object to be moved. Specify the URL as follows:
`sync://<host>[:<port>]/<path>/<filename>;` or
`syncs://<host>[:<port>]/<path>/<filename>;`
 where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 For example:

```
sync://serv1.abco.com:1024/Projects/Chip/Chip.c;
```

If you specify a server URL file, you must use the `-allconfigs` options to move the entire vault.

Destination

`destination` The destination can be:

- The folder into which the object is moved. The object retains its current name.
- The new name of the object (a rename operation).
- Both a folder and new name for the moved object.

You can specify an absolute or relative path.

Server URL Destination

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`serverURL` Specifies the URL of new object location. Specify the URL as follows:
`sync://<host>[:<port>]/<path>/<filename>;` or
`syncs://<host>[:<port>]/<path>/<filename>;`
where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
For example:
`sync://serv1.abco.com:1024/Projects/NewChip/NewChip.c;`

OPTIONS

- [-`\[no\]allconfigs`](#)

-`[no]allconfigs`

- `[no]allconfigs` Determines whether to update the location of the specified objects in all configurations that use the object.

-`noallconfigs` does not update the configurations. When this option is specified, ProjectSync notes linking to the old objects are not updated and might break.

-`allconfigs` moves the vault file in the repository and, if successful, moves file in the local workspace transferring the metadata from the old file to the new file. This updates all configurations containing objects to the new object. All attachments, such as ProjectSync notes, are migrated to the new vault of the moved object.

When attempting `mvfile -allconfigs` where the vault is on a pre-4.2 server, you will get an error message.

RETURN VALUE

None. An exception is thrown if the command fails.

SEE ALSO

`mvfolder`, `rmfile`, `retire`, `ci`, `command defaults`

EXAMPLES

- [Example Showing Renaming a File](#)
- [Example Showing Moving the File to a New Folder](#)
- [Example Showing Renaming a File on the Server](#)
- [Example Showing Moving a File on the Server](#)
- [Example Showing Renaming and Moving a Cadence Cell View](#)
- [Example Showing The History of a Moved File](#)

Example Showing Renaming a File

The following example renames a file:

```
dss> mvfile top.v mod1.v
top.v: Success Moved
```

Example Showing Moving the File to a New Folder

The following example moves a file to a new folder (newdesign) while keeping the same name (test.mem):

```
dss> mvfile ../test.mem /home/tgoss/newdesign
test.mem: Success Moved
```

Note that in the preceding example, if the object is managed, the destination folder must previously have had its vault set to the same SyncServer as the original folder or an error will result.

Example Showing Renaming a File on the Server

The following example renames a file on the server.

```
dss> mvfile -allconfigs
sync://srv1.ABCo.com:2647/Projects/ChipDesign/Chip.c;
sync://srv1.ABCo.com:2647/Projects/ChipDesign/NewChipDesign.c;

Chip.c;: Success Moved
```

Example Showing Moving a File on the Server

This following example moves a file to a different folder on the server.

```
dss> mvfile -allconfigs
sync://srv1.ABCo.com:2647/Projects/ChipDesign/Chip.c;
sync://srv1.ABCo.com:2647/Projects/NewChipDesign/Chip.c;

Chip.c;: Success Moved
```


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Example Showing Renaming and Moving a Cadence Cell View

The following example moves a Cadence cell view to a new folder and renames it. Note that a cell view collection object must have a .sync.cds extension:

```
dss> mvfile symbol.sync.cds ../and5/symbol2.sync.cds
symbol.sync.cds: Success Moved
```

Example Showing The History of a Moved File

The following example demonstrates that the move of a managed object retires the current branch of the existing vault, and creates a new vault with no version history. The renamed object retains the original object's branch tags and selector. The 'vhistory' command is used before and after the move for comparison purposes.

```
stcl> vhistory top.v
Object:          file:///home/tgoss/Projects/Sportster/top/top.v
Vault URL:       sync://myserver:30020/Projects/Sportster/top/top.v;
Current version: 1.2.1.1
Current state:   Copy
-----
Branch:          1.2.1
Branch tags:    rel21
-----
Version:         1.2.1.1
Version tags:   Latest
Derived from:   1.2
Date:           Tue Feb 22 14:05:46 2000; Author: tgoss
Branching off for rel21 release

=====

stcl> url selector top.v
rel21
stcl> mvfile top.v mod1.v
top.v: Success Moved
stcl> vhistory mod1.v
Object:          file:///home/tgoss/Projects/Sportster/top/mod1.v
Vault URL:       sync://myserver:30020/Projects/Sportster/top/mod1.v;
Current version: 1.1
Current state:   Copy
-----
Branch:          1
Branch tags:    rel21
-----
Version:         1.1
Version tags:   Latest
Date:           Tue Feb 22 14:06:24 2000; Author: tgoss

=====
```

```

stcl> url selector mod1.v
rel21
stcl> ls top.v
No such object: file:///home/tgoss/Projects/Sportster/top/top.v
stcl> co -get -version rel21 top.v

Beginning Check out operation...

Checking out: top.v          : Success - Fetched  version: 1.2.1.1

Checkout operation finished.

{Objects succeeded (1)} {}
stcl> ls -nohead top.v
Copy          <Retired> Up-to-date  1.2.1.1          top.v
stcl>

```

mvfolder

mvfolder Command

NAME

mvfolder - Moves the specified folder

DESCRIPTION

This command moves or renames the specified folder. This folder may exist in either the workspace, on the server, or in both places. You can specify a relative or absolute path. To move a file or Cadence cell view, use mvfile.

You can move a managed or unmanaged folder. For unmanaged folders, the mvfolder operation is equivalent to an operating-system move operation (for example, Unix 'mv'). A managed folder is one that has a corresponding vault folder (a setvault has been performed on the folder). Both the local folder and vault folder are moved. You can use the 'mvfolder' command only on a vault folder on the server, without affecting your workspace. There is an example of this in the Examples section.

IMPORTANT:

If you use mvfolder to rearrange the subdirectory structure within a vault folder hierarchy, the hierarchy of the original structure is lost. Because directories are not versioned, whatever data is fetched will be fetched into local workspace directories whose structure mimics that of the vault, at that point in time. Use mvfolder on a managed folder only if you are certain about changing the vault's directory structure.

You cannot move:

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- Your current folder or any parent folder.
- Cadence cell-view folders. A cell-view folder is moved as part of a mvfile of a Cadence cell view (.sync.cds) collection object.

The following additional restrictions apply:

- The source and destination locations must be on the same file system.
- For managed folders, the vault folders for both source and destination folders must be on the same SyncServer (the vault set to the same sync://<host>:<port>). Otherwise, an error about crossing domain boundaries results.
- The path of the destination folder must already exist; no components of the destination path are created for you.
- A Cadence cell folder can only be moved to a Cadence library folder.
- The folder names must contain only printable characters, and may not include any characters that have been restricted. For more information on restricted characters, see Exclude Lists in the DesignSync Administrator's Guide.

Note: If the folder is a legacy module configuration, notify project leaders and module administrators to remove each hierarchical reference specifying the old project folder and add a new hierarchical reference for the new project folder. For more information, see the edithrefs, addhref and rmhref commands.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

Any attachments, such as ProjectSync notes, associated with objects in a folder are retained. Notelinks are updated to reflect the new vault path.

This command supports the command defaults system.

SYNOPSIS

```
mvfolder [--] <folder> <destination>
```

ARGUMENTS

- [Folder](#)
- [Destination](#)

Folder

folder The local or server-side folder that you want to move or rename. You can specify an absolute or relative path.

Destination

destination The destination can be:

- The folder into which the folder is moved.
The source folder retains its current name.
- The new name of the folder (a rename operation).
- Both a folder and new name for the moved folder.

The path to the destination must exist; no portions of the path are created for you. You can specify an absolute or relative path.

If the destination already exists as a folder, then the folder being moved is placed inside of the destination folder.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

None. An exception is thrown if the command fails.

SEE ALSO

mvfile, rmfolder, mkfolder, scd, command defaults

EXAMPLES

- [Example Showing Renaming a Folder](#)
- [Example Showing Moving a Folder to a New Path](#)
- [Example Showing Moving a Cadence Cell to a Different Library](#)
- [Example Showing a Vault Rename](#)

Example Showing Renaming a Folder

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The following example renames a folder:

```
dss> mvfolder mod1 mod2
mod1: Success Moved
```

Example Showing Moving a Folder to a New Path

The following example moves a folder to a new folder (newdesign) while keeping the same name (mod1):

```
dss> mvfolder ../mod1 /home/tgoss/newdesign
mod1: Success Moved
```

Note that in the preceding example, if a setvault has been applied to the original folder, the destination folder must previously have had its vault set to the same SyncServer or an error will result.

Example Showing Moving a Cadence Cell to a Different Library

The following example moves a Cadence cell to a different library and renames it.

```
dss> mvfolder ASIC/and2 TTLlib/and
and2: Success Moved
```

Example Showing a Vault Rename

The following example shows a vault folder being renamed directly, without requiring a corresponding workspace directory.

```
stcl> scd sync://lotti:30158/Projects
stcl> ls
```

Directory of: sync://lotti:30158/Projects

Time Stamp	WS Status	Version	Type	Name
-----	-----	-----	----	----
				Test

```
stcl> mvfolder Test TestHere
Test: Success Moved
stcl> ls
```

Directory of: sync://lotti:30158/Projects

Time Stamp	WS Status	Version	Type	Name
-----	-----	-----	----	----
				TestHere

```
stcl>
```

purge

purge Command

NAME

purge - Purges specified branches or versions of objects from the vault

DESCRIPTION

- [Restrictions](#)
- [Triggers and Revision Control Notes and 'purge'](#)
- [Error Handling](#)
- [Using Purge with Files-Based Objects](#)

This command deletes specified branches or versions of an object on a single branch in the vault. You can use this command to clean up the vault by deleting old versions of objects. You also can remove an entire branch: all branch tags, all version data, and all version tags on the deleted branch.

Your server must be at release DS 4.2, or higher, to use this command to delete branches. Your server must be at release V6R2012 to use this command to purge module branches or versions.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Restrictions

- o The purge command does not follow DesignSync REFERENCES or hierarchical references and operate on referenced data. If you use 'purge -recursive' on a directory hierarchy, the purge operation skips hierarchical elements based on REFERENCES or hierarchical references.
- o The purpose of the purge command is to purge old versions on a single branch in the vault. The command does not support selectors with multiple entries. If you specify a purge of a vault object, you specify the branch to purge and the purge operation deletes versions from that branch only. If you specify a purge of a workspace object but you do not specify the -branch option, the purge operation uses the current branchid of the object and purges only that branch. The operation ignores a selector.
- o You can specify a purge of objects in a workspace or directly

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defined by their vault URLs. If you specify a purge of a workspace directory, the purge operation traverses the workspace hierarchy to find all the objects for the purge operation. Then the operation deletes corresponding vault objects that have the appropriate branchid. If you use the purge command on workspace objects, it is possible that the purge operation will remove a version in the vault that is currently located in your workspace. This action is deliberate, since 'purge' is intended to clean up the vault independent of existing workspaces.

Note: The purge command deletes versions from the vault; the command never affects data in your workspace.

- o The 'purge -recursive' command fails if you specify a directory for which you have not set the vault, even if that directory contains a subdirectory for which the vault is set. For example, suppose you have the following directory hierarchy in your workspace:

```
Directory A (vault not set)
  Directory B (vault not set)
    Directory C (vault is set)
```

If you use 'purge -recursive' and specify Directory A or Directory B, the purge operation fails and never finds Directory C. In this example, to purge files in Directory C, you must specify that directory with the 'purge -recursive' command.

- o To remove a branch with side branches, you must first remove the side branches.
- o Locked branches cannot be removed. You must first unlock the branch before deleting it.
- o The branch numbers of deleted branches cannot be reused.

Triggers and Revision Control Notes and 'purge'

The purge command generates the same triggers and creates the same revision control notes as the rmversion command. Administrators should carefully consider which pre- and post-command triggers and revision control notes to enable. For example, the purge command causes triggers for 'rmversion'.

Error Handling

If an error occurs, the purge command reports the error but does not throw an exception. The command proceeds with all other objects still left in the list of objects to purge.

The purge operation reports an error only when:

- There is an error in the command option
- Objects specified do not exist

- None of the versions selected for the purge can be deleted

Failure to delete a version or a failure to access an object is reported in the overall failure count for the operation, not as an error.

Using Purge with Files-Based Objects

With this command you can specify:

- One or more objects in your workspace.
- A folder in your workspace. (Note: You must specify '-recursive' in order to purge a folder.)
- A vault URL for the object or folder.
- A branch to remove.

Note: Wildcards (such as '*') are allowed for all arguments except module instance names.

You cannot delete:

- Branchpoint versions (for example, if 1.2.1 is a branch, you cannot delete version 1.2)
- Version 1.1
- The only version on a branch if it is not a .1 version
- The Latest version of a locked branch
- Tagged versions (unless the -force switch is used).
- Version .1 when:
 - o Another version on the branch could not be deleted.
 - o Additional branch tags exist on the branch specified with the -branch switch and you do not specify '-force.'
 - o Additional branch tags exist on the branch, the -branch switch is used with a branch numeric, and you do not specify '-force.'
- The Latest version on branch 1 if the vault was previously removed with 'rmvault -keepvid' and then recreated.

Note: Do not attempt to remove an entire vault by specifying branch 1. Instead, use the rmvault command to delete the entire vault.

SYNOPSIS

```
purge [-branch <branchname>] [-[no]dryrun]
      [-exclude <object>[,<object>...]] [-[no]force]
      [-keepsince <date>] [-keepversions <n>][-[no]recursive]
      [-report <mode>] [--] <argument> [<argument>...]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)

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Specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Purges the specified DesignSync object from the server. This object can be a vault URL, or an object in your workspace.

DesignSync Folder

<DesignSync folder> Purges a local folder and the objects within it. (Note: You must specify '-recursive' in order to purge a folder.)

OPTIONS

- [-branch](#)
- [-dryrun](#)
- [-exclude](#)
- [-\[no\]force](#)
- [-keepsince](#)
- [-keepversions](#)
- [-recursive](#)
- [-report](#)
- [--](#)

-branch

-branch
<branchname>

Specifies the branch identifier of the objects you want to purge. You can specify only one branch with this option.

For the <branchname>, specify a branch tag (for example, rel40) or branch numeric (for example, 1.4.2) only. Do not specify a colon (:) with the branchname.

If you do not specify the -branch option, the purge command uses the current branch identifier of the object.

Note: If you use a server URL to specify an object for purging, you must also specify the -branch option.

-dryrun

`-[no]dryrun` Determines whether this command performs a purge, or creates a report showing what files will be purged when the command is run.
The `-nodryrun` option performs the purge. (Default)
The `-dryrun` option generates the list of what will be purged when the purge command is run.
This option can be used with any of the report modes.

-exclude

`-exclude <objects>`
Excludes one or more objects (files, collections, or folders) from the purge operation. Specify objects in a comma-separated list. Wildcards are allowed.

The purge operation excludes objects specified with `'-exclude'` in addition to objects always excluded from revision-control operations.

-[no]force

`-[no]force` Determines whether this command purges a tagged version or branch.
`-noforce` ignores versions or branches that are tagged. (Default)
`-force` purges the tagged versions and branches along with the rest of the specified versions. On vault objects, when used with `-keepversions 0,` `-force` removes the branch (and the `.1` version) even when the branch includes tags.

-keepsince

`-keepsince <date>`
Keeps all versions created after the specified date and deletes the other versions of an object on a single branch in the vault. For example, `purge -keepsince "10 September 2003"` keeps all versions of the object that were created after 10 September 2003 and deletes all other versions on the branch.

For `<date>`, specify a date or a relative time, enclosed in double quotation marks (`" "`). For example:

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```
stcl> purge -keepsince "10 days ago" top.v
```

Note: If you use the `-keepversions` option in combination with the `-keepsince` option, the purge operation keeps those versions specified by each option. For example, if you specify:

```
purge -keepversions 3 -keepsince "Jan 1 2004"
```

the purge operation deletes all versions of the object from the vault except for the last 3 versions or any versions created after the Jan 1, 2004.

If you use the `-keepsince` option with `-keepversions 0` and `-keepsince` specifies that some versions cannot be deleted, the branch is not removed. The `-keepsince` option takes precedence over `-keepversions 0`.

-keepversions

`-keepversions <n>` Keeps the last `<n>` versions of an object (on a single branch in the vault) and deletes the other versions. The default is 1.

For example, `'purge -keepversions 3'` keeps only the last 3 versions of the object and deletes all other versions from the vault.

To delete all versions, use `'-keepversions 0'`.

To delete a branch completely, identify the branch with the `-branch` switch and specify `'-keepversions 0'`. If you do not specify a branch, the current branch is picked up from the metadata when the command is issued on a workspace file.

-recursive

`-[no]recursive` Determines whether to perform the purge on objects in the specified folder or on objects in the specified folder and all subfolders in the hierarchy.

The `-norecursive` option purges only objects in the specified folder. (Default)

The `-recursive` options purges objects in the specified folder and all subfolders in the hierarchy.

-report

`-report <mode>` Specifies the amount of output generated by the purge operation.

Available modes are:

- o `brief` - Displays:
 - The name and version of each object successfully deleted.
 - A message if no versions are selected for deletion.
 - Error messages.
- o `normal` (the default mode) - Displays:
 - A statement that the command is gathering versions to be deleted.
 - A statement reporting the number of versions being deleted.
 - Versions successfully deleted, each with its full vault URL.
 - A message if no versions are selected for deletion.
 - Error messages.
- o `verbose` - Displays:
 - A statement that the command is gathering versions to be deleted.
 - Information on the progress of the command as it gathers versions for deletion, including:
 - Each directory traversed
 - Each object found
 - The number of versions on the branch to be deleted
 - A list of versions deleted and versions kept (with the reason why the version was kept)
 - Summary information about versions gathered for deletion.
 - A statement reporting the number of versions being deleted.
 - Each item being skipped (with the reason it is skipped)
 - Versions successfully deleted, each with its full vault URL.
 - A message if no versions are selected for deletion.
 - Error messages.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a

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hyphen (-).

RETURN VALUE

The return value from the purge command is a string in the form:
{Objects succeeded (n)} {Objects failed (n)}

The Objects succeeded count is the number of versions that were successfully deleted.

The Objects failed count includes objects for which the version deletion failed, objects not under revision control, and objects for which version information for the object could not be fetched from the vault.

SEE ALSO

rmversion, rmvault, command defaults

EXAMPLES

- [Example of Purging All but a 4 Versions of a Collection Object](#)
- [Example of Using Keep Since to Maintain 30 Days of Versions](#)
- [Example of Using both the -keepsince and -keepversions Options](#)
- [Example of Purging Versions from the Server](#)
- [Example of Making then Purging a Branch](#)

Example of Purging All but a 4 Versions of a Collection Object

This example deletes from the vault all versions of the top_design Milkyway collection object in the current workspace except for the last 4 versions.

```
stcl> purge -keepversions 4 top_design.sync.mw
```

Example of Using Keep Since to Maintain 30 Days of Versions

This example deletes from the vault all versions of each object in the current workspace directory except for versions created in the last 30 days. The purge operation works recursively through all of the data in your workspace.

```
stcl> purge -keepsince "30 days ago" -rec .
```

Example of Using both the -keepsince and -keepversions Options

This example deletes from the vault all versions of each object in Ted's ALU workspace except for the last 5 versions of the object OR versions that were created in the last 30 days. The purge operation works recursively through all of the data in Ted's ALU workspace.

```
stcl> purge -keepversions 5 \
          -keepsince "30 days ago" -rec /home/ted/ProjectWork/ALU
```

Example of Purging Versions from the Server

This example deletes all versions of each object in the asic folder on the Trunk branch in the vault, except for the last 4 versions. The purge operation deletes these objects from the vault whether they are in the user's workspace or not.

```
stcl> purge -keepver 4 sync://S1.ABC.com:2647/Projects/asic -branch
      Trunk
```

Example of Making then Purging a Branch

This example shows the user creating a "V11" branch of the "runit" file, then immediately removing that branch via 'purge'. The 'vhistory' output preceding the 'purge' shows the branch and version information, from the user's perspective. The verbose output from 'purge' uses the internal representation of that same data.

```
stcl> mkbranch V11 runit
```

Beginning MkBranch operation...

```
Branching:   runit                               : Success - Created branch
1.1.2, tagged V11
```

MkBranch operation finished.

```
{Objects succeeded (1)} {}
```

```
stcl> vhistory -all runit
```

```
Object:      file:///c:/barbg/work dir/Sportster/test/runit
Vault URL:   sync://srv2.ABCo.com:2647/Projects/Sportster/test/runit;
Current version: Refers to: 1.1
Current state: Reference
```

```
-----
Branch:      1
Branch tags: Trunk
```

```
-----
Version:     1.1
```

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Version tags: Latest
Date: Fri Oct 28 16:13:52 2005; Author: tbarbg2

```
-----  
Branch:      1.1.2  
Branch tags: V11  
This branch does not yet have any versions.
```

```
=====
```

```
stcl> purge -report verbose -branch V11 -keepversions 0 runit  
Gathering versions for deletion...  
  Object c:\barbg\work dir\Sportster\test\runit :  
    0 existing version on branch "V11" (branchid "1.1.2") :  
    This is a stub branch  
    deleting version 1.1.2.1  
Purge version gathering summary:  
  Objects processed: 1  
  Versions selected for removal: 1  
  Versions retained: 0  
Deleting 1 version...  
sync://srv2.ABCo.com:2647/Projects/Sportster/test/runit;1.1.2.1: \  
  Success Deleted  
{Objects succeeded (1)} {}  
stcl>
```

retire

retire Command

NAME

retire - Marks a branch as obsolete

DESCRIPTION

This command marks a branch of a given object as obsolete. Retiring a branch:

- o Prevents the branch from participating in future 'populate with latest versions' operations
- o Prevents new versions from being created on the branch (unless the -new option is used during the checkin, in which case the branch is unretired)

When you perform a retire, the time, date, and the username of the user performing the retire are recorded and can be viewed as part of the branch's version history. If the file is unretired, the retire information is removed and cannot be accessed again.

Tip: If you want to preserve the retire information in the version

history, you can include the information in the checkin comment either by unretiring the file with the `ci` command with the `-new` `-comment` options, or by doing a `ci -force` after performing a `retire -unretire` on the file.

Note: If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the `SyncAdmin "Map operations on collection members to owner"` setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

A typical first step when team members join a project is to populate their work areas with the Latest versions from a given branch of all active design objects. By retiring a branch, you prevent objects that are no longer needed (are obsolete) from being fetched into their work areas, thereby limiting exposure to the object.

You can perform many operations on retired branches. For example, you can fetch data from a retired branch. You can also tag files on a retired branch if they are in your workspace. For information on when you cannot tag files on a retired branch, see the `tag` command's `-version` option description. However, operating on an object on a retired branch is not typical.

It is important to note that objects on retired branches remain part of past configurations. When you use the `populate` command to retrieve a particular configuration other than 'Latest', objects from retired branches are fetched. The `populate` command determines what configuration to retrieve from the persistent selector list of the folder you are populating (Trunk:Latest by default, or as set by the `'setselector'` command). You can override the folder's persistent selector list by specifying `'populate -version <selectorList>'`. The `populate` command fetches objects from retired branches, thereby preserving past configurations, if the selector used is any of the following:

- o A version tag other than 'Latest', even if the version tag points to the Latest version
- o A version number, even if that number corresponds to the Latest version
- o `<branchtag>:Date(<date>)` or `<branchtag>:VaultDate(<date>)`

Note: If the selector for a `populate` operation resolves to a branch, DesignSync augments the selector to be `<branch>:Latest`, meaning, 'Get the Latest version from the specified branch'. In this case, objects from retired branches are not fetched.

See the "selectors" help topic for more information on selectors and the "populate" help topic for details on the `populate` command.

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Caution:

- o You cannot retire the branch of an object that is locked unless you specify the `-force` option, which removes the lock even if it is held by someone else.
- o By default, the local copy of an object on a retired branch is deleted unless the local copy is modified or you have specified the `-keep` option. However, if you specify `-force` (to unlock the object first), even a modified local copy is deleted. To unlock the object but keep your local copy, specify both `-force` and `-keep`.

Note that when you specify the `-branch` option, DesignSync does nothing to the local work area objects. The branch is retired, but the local object is never deleted and the object's local metadata is unchanged, even if you specified `-force`.

You can unretire a retired branch in two ways:

- o Execute a `'retire -unretire'` command on the branch.

-OR-

- o Check in a new version of the object onto the retired branch using the `'-new'` option to the `ci` command.

To determine whether the branch is retired you can:

- o Use `'ls -report status'` command and the List View in the graphical user interface indicate if the current branch of an object in your work area is retired.
- o Use the `'url retired'` command or view the data sheet for the object's vault to see the retired status.
- o Use the `vhistory` command with the `-BX` options (or in `report -normal` or `report -verbose` mode) to see the state of the branch and the username, time and date associated with the retire.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

SYNOPSIS

```
retire [-branch <branch> | -branch auto(<branch>)] | [-[no]force]
        [-[no]keep] [-[no]recursive] [-[un]retire] [-[no]selected]
        [-trigarg <arg>] [--] [<argument> [<argument>...]]
```

ARGUMENTS

- [Server URL](#)
- [Workspace Object](#)
- [DesignSync Folder](#)

Server URL

<server object> Specify a vault or vault-folder object on the server to retire in the specified branch.

Workspace Object

<workspace object> Specify a versionable object in the local workspace to retire in the specified branch.

Note: If a workspace object is locked when the retire operation is performed, the retire is performed on the branch of the objects in the workspace instead of on the selector for the workspace. This can happen if the user changes the selector but does not repopulate the workspace with the updated branch files.

DesignSync Folder

<DesignSync folder> Specify a folder containing DesignSync objects with the `-recursive` option to retire all the objects, including sub-folders, within a folder.

Notes:

You can retire only the objects within a folder, without retiring the sub-folder structure, by specifying the folder name with the `*` wildcard.

Non-module directories are not explicitly checked into DesignSync so you cannot remove a folder itself, only the contents of a folder. If a folder becomes empty as a result of a retire, it remains in the vault allowing you to unretire the contents if needed.

OPTIONS

- [-branch](#)
- [-\[no\]force](#)
- [-\[no\]keep](#)
- [-\[no\]recursive](#)
- [-\[un\]retire](#)
- [-\[no\]selected](#)
- [-trigarg](#)
- [==](#)

ENOVIA Synchronicity Command Reference - File

-branch

```
-branch <branch>  
| -branch  
  auto(<branch>)
```

Retires the branch specified by the branch or version tag, auto-branch selector, or branch numeric. The `-branch` option accepts a single branch tag, a single version tag, a single auto-branch selector tag, or a branch numeric. It does not accept a selector or selector list.

This option overrides the object's persistent selector list. If `<branch>` resolves to a version, the branch of that version is retired.

If you do not specify the `-branch` option, the command uses the branch specified by the workspace selector or the sync URL to retire the specified objects.

Notes:

When you use the `-branch` option, DesignSync operates only on the vault and does nothing with local work area objects. The local object is never deleted and the object's local metadata is unchanged.

If the retire command is run on a workspace containing locked files and the `-branch` option is not specified and `-force` is not specified, the retire fails. If `-force` is specified, the retire succeeds but is run against the branch currently populated in the workspace regardless of the selector value.

-[no]force

```
-[no]force
```

Specifies whether the branch should be removed even if the branch, or objects in the branch are locked.

`-noforce` does not remove the branch if the branch, or objects in the branch are locked. (Default)

`-force` unlocks locked branches (even if locked by someone else) prior to retiring them. This option also deletes local objects if the object was modified locally. To keep your local objects, specify `-keep`.

The `-force` and `-branch` options are mutually exclusive, because local objects are never deleted or otherwise affected when you specify

-branch.

-[no]keep

-[no]keep

Specifies whether to keep or delete local copies of objects after their branches are retired. -nokeep deletes local objects unless either the object has been modified locally, or the -branch option is specified. (Default)

Note: When you use the -force option, even locally modified objects are deleted unless you explicitly specify -keep.

-keep preserves all local objects after the branch is retired. The objects become unmanaged by DesignSync.

If a locked reference is retired with -keep (and -force, to unlock the object's branch), a DesignSync reference remains in the workspace

You cannot use the -keep option if the local state of the object being retired is a link to the mirror. Because the SyncServer removes retired objects from the mirror directory, there would be no way to link to the retired object.

The -keep option is ignored when unretiring an object, because 'retire -unretire' never affects local objects.

-[no]recursive

-[no]recursive

Indicates whether the retire command operates on the specified argument or all subfolders in the argument's hierarchy.

-norecursive operates only on the specified argument. (Default) If the argument is a folder specified with a wildcard (<folder>/*), the contents of any sub-folders are not retired, but the contents of the specified folder are retired.

-recursive operates on all subfolders in the specified argument's hierarchy.

-[un]retire

ENOVIA Synchronicity Command Reference - File

`-[un]retire` Indicates whether the retire command is intended to retire the branch or reinstate the branch. `-retire` is provided to support the command defaults system. (Default) It retires the branch.

`-unretire` reinstates branches as active, permitting future populate operations to fetch the latest objects on the branches.

Note: An alternative way to unretire a branch is to perform a `'ci -new'` command on an object. Refer to the `ci` command for details.

-[no]selected

`-[no]selected` Determines whether the operation is performed just on the objects specified at the command line or on objects specified at the command line and objects in the select list (see the `'select'` command)

`-noselected` adds only objects specified on the command line. (Default)

`-selected` adds objects specified on the command and in the select list.

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the retire operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the `dss` command shell or braces ({}) if using the `stcl` command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

url retired, ls, co, select, selectors, command defaults

EXAMPLES

- [Example of Retiring Files](#)
- [Example of Retiring a Branch](#)
- [Example of Retiring a Specific File on a Branch](#)

Example of Retiring Files

The following example retires the current branches of any '.v' files in the current work area that begin with either 'cpu' or 'mem' and removes the local copy of the file if present. After retiring the branch, users will not get these objects when populating the Latest versions from that branch, and new versions of the objects cannot be created on the retired branch.

```
dss> retire cpu*.v mem*.v
```

However, if a version of 'cpu1.v' is tagged 'rell', then the following populate command successfully fetches that version even though the branch is retired:

```
dss> populate -version rell
```

Example of Retiring a Branch

The following example retires the 'Main' branch of all files in the current folder. All local files remain and their metadata is unchanged after the retire operation even though -keep was not specified because -branch was specified.

```
dss> retire -branch Main *
```

Example of Retiring a Specific File on a Branch

The following example retires the 'Main' branch of 'top.v' by specifying its URL:

```
dss> retire \  
"sync://apollo:2647/Projects/Sportster/top/top.v;Main:Latest"  
or, in stcl/stclc mode, you might specify:  
stcl> retire [url vault top.v]Main:Latest
```

rmfile**rmfile Command**

ENOVIA Synchronicity Command Reference - File

NAME

`rmfile` - Deletes the specified object

DESCRIPTION

This command deletes the specified object from the local file system. The object can be a file or a collection object. You can specify a relative or absolute path to the object. You cannot delete an object on the server ('sync:' protocol). Deleting an object does not affect the vault or module for that object.

Notes:

- o You cannot delete a member of a DesignSync collection object.
- o If you use `rmfile` to delete a collection object that has obsolete local versions, the command deletes all of the files making up those obsolete local versions.

This command supports the command defaults system.

SYNOPSIS

```
rmfile [-trigarg <arg>] [--] <object> [<object> [...]]
```

ARGUMENTS

- [Object](#)

Object

`object` The object that you want to delete. The object can be a local file or collection object. You can specify an absolute or relative path.

OPTIONS

- [-trigarg](#)
- [--](#)

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the delete file operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({}) if using the stcl command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

command defaults, mvfile, retire, rmfolder, rmversion

EXAMPLES

- [Example of Removing a Specific File in the Current Working Directory](#)
- [Example of Removing Two Files](#)
- [Example of Removing a File with a Leading "-"](#)
- [Example of Removing a Member of a Collection](#)

Example of Removing a Specific File in the Current Working Directory

Delete top.v, which is in the current working directory:

```
dss> rmfile top.v
top.v: Success Deleted
```

Example of Removing Two Files

Delete two files: one absolute, one relative:

```
dss> rmfile /home/Projects/ASIC/top.v ../decoder.v
top.v: Success Deleted
decoder.v: Success Deleted
```


ENOVIA Synchronicity Command Reference - File

Example of Removing a File with a Leading "--"

```
Delete a file called '-myfile':
dss> rmfile -- -myfile
-myfile: Success Deleted
```

Example of Removing a Member of a Collection

```
Deleting a file that is a member of a collection object fails. You
must delete the collection object itself. The following example
shows deletion of a Cadence cell view collection:
dss> scd /home/Projects/smallLib/and2/verilog
dss> rmfile pc.db
pc.db: Deletion of this object is not supported
Operation failed.
dss> scd ..
dss> rmfile verilog.sync.cds
verilog.sync.cds: Success Deleted
```

rmfolder

rmfolder Command

NAME

```
rmfolder          - Deletes the specified folder
```

DESCRIPTION

This command deletes the specified folder from the local or server file system. You can specify a relative or absolute path for a local folder. Use the 'sync:' protocol to specify a server-side folder.

When this command is used with the `-norecursive` option, you cannot delete a folder unless it is empty:

- For local (client) folders, the folder cannot contain files, links, or folders. A folder containing a Synchronicity .SYNC metadata folder (for example, the folder you are deleting contains DesignSync references) can be deleted.
- For server folders, the folder cannot contain vaults or other folders. A folder containing a `sync_project.txt` file can be deleted.

If your vault is associated with a mirror, any folder removed from the vault is also removed from the mirror.

You cannot delete your current folder or any parent folder to your current folder.

You cannot delete any folder or file if you do not have UNIX permissions.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

SYNOPSIS

```
rmfolder [-[no]keepvid] <folder> [-[no]recursive] [-trigarg <arg>]
          [<folder> [...]]
```

ARGUMENTS

- [Folder](#)

Folder

folder The local or server-side folder that you want to delete. You can specify an absolute or relative path.

OPTIONS

- [-\[no\]keepvid](#)
- [-\[no\]recursive](#)
- [-trigarg](#)

-[no]keepvid

-[no]keepvid Determines whether the version number of the Latest version in a deleted vault (due to 'rmfolder -recursive' on a server-side folder) is remembered. This behavior is important if a vault of the same name is later created.

-nokeepvid does not store the version number. (Default)

-keepvid stores the version number.

See the rmvault command for more details.

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-[no]recursive

`-[no]recursive` Determines whether to remove the specified folder and all subfolders in the hierarchy beneath it.

The `-norecursive` option deletes the folder only if it's empty. This command is similar to the UNIX `-rmdir` command.

The `-recursive` option deletes the contents of the folders and all subfolders. For local (client) folders, deletes as many folders and files as UNIX permissions allow.

If an object was checked out "`-lock`" in the workspace being recursively removed, the lock is silently canceled prior to the object's removal.

For server folders, access-control permissions are checked recursively for all vaults contained in the folders to be deleted. If all the access control checks pass, then the command deletes as many folders and files as UNIX permissions allow. If any access-control permission fails, the entire deletion operation is canceled.

CAUTION: '`rmfolder -recursive`', when used on a server folder, will delete vaults contained in the folder hierarchy even if a vault is locked or has one or more tagged versions. This behavior is in contrast to '`rmvault`', which requires the `-force` option to delete a vault that is locked or has tagged versions.

The default is `-norecursive`.

-trigarg

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the delete folder operation. If the argument contains whitespace, enclose the argument within double quotation marks (`"`) if using the `dss` command shell or braces (`{}`) if using the `stcl` command shell.

RETURN VALUE

none

SEE ALSO

mkfolder, rmfile, rmversion, rmvault, command defaults

EXAMPLES

- [Example of Removing Folder without Recursive](#)
- [Example of Removing Folders Recursively](#)
- [Example of Removing a Folder on the Server](#)
- [Example of Removing a Folder Containing References](#)

Example of Removing Folder without Recursive

The following example demonstrates the use of `rmfolder` without the `-recursive` option. The folder 'alu' contains one file, `alu.v`, which must be deleted before the alu folder can be deleted.

```
dss> rmfolder alu
alu: som: Error 54: Folder Not Empty.
dss> rmfile alu/alu.v
alu.v: Success Deleted
dss> rmfolder alu
alu: Success Deleted
```

Example of Removing Folders Recursively

The following example demonstrates the use of `rmfolder` with the `-recursive` option. The folder 'alu' contains one file, `alu.v`, which must be deleted before the alu folder can be deleted.

```
dss> rmfolder -recursive alu
alu: Success Deleted
```

Example of Removing a Folder on the Server

This example deletes an empty folder on a server:

```
dss> rmfolder sync://holzt:2647/Projects/Sportster/Temp
Temp: Success Deleted
```

Example of Removing a Folder Containing References

This example shows that you can delete a folder containing references:

ENOVIA Synchronicity Command Reference - File

```
dss> ls -report 0

Directory of: file:///home/ tgoss/Projects/Sportster/top/alu

Object Type      Name
-----
Referenced File  alu.gv
Referenced File  alu.v
Referenced File  mult8.gv
Referenced File  mult8.v
dss> scd ..
dss> rmfolder alu
alu: Success Deleted
```

rmvault

rmvault Command

NAME

```
rmvault          - Deletes the specified vault
```

DESCRIPTION

This command deletes the specified vault. This command does not remove any corresponding files in your local work area. This command does not remove vaults in modules. To remove modules, use the `rmmod` command. To remove objects in modules, use the `remove` command.

Important:

Deleting a vault removes all versions of a design object from the SyncServer and should therefore be used with caution. It is recommended that you use the `retire` command to retire a branch that is no longer used instead of deleting the vault. Use `rmvault` only when you are certain the vault will never again be needed and you need to reclaim disk space (for example, at the end of a project).

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

You must use the `-force` option to delete a vault that has a locked branch or has one or more tagged versions.

You can use version-extended names to specify a vault by specifying a file followed by a semicolon (but no version number). For example, "top.v;" is the vault specification for top.v.

Notes:

- You cannot use wildcards (such as '*') when using version-extended names.

- When in stcl/stclc mode, you must surround version-extended names (or any URL with a semicolon) with double quotes.

When you delete a vault, you have the option of deleting all the vault metadata or retaining metadata about the last version number used by the vault. These behaviors, which are controlled by the `-nokeepvid` and `-keepvid` options and a registry setting, are important if a vault of the same name will later be created. See the description of the `-[no]keepvid` options for details.

This command supports the command defaults system.

SYNOPSIS

```
rmvault [-[no]force] [-[no]keepvid] [-trigarg <arg>] [--]
<vault> [<vault> [...]]
```

OPTIONS

- [-`\[no\]force`](#)
- [-`\[no\]keepvid`](#)
- [-`trigarg`](#)
- [=](#)

-`[no]force`

- `-[no]force` Determines whether you can delete a vault with a locked branch or tagged versions.
- `-noforce` prevents you from deleting a vault that has tagged versions or locked branches. (Default)
- `-force` allows you to delete a vault that has tagged versions or locked branches. Use this option with caution:
- A tagged version may be a necessary part of a configuration.
 - A locked branch typically indicates someone is editing the design object and therefore the design object is still active.

-`[no]keepvid`

- `-[no]keepvid` Determines whether information about the version ID of the Latest version in the vault is retained, which is important if a vault of the same name is later created.

ENOVIA Synchronicity Command Reference - File

For example, assume you delete the vault for top.v which has 1.1 as the Latest version, and you or another user later creates another top.v file (ci -new top.v). If you deleted the vault with -keepvid, the first version in the newly created vault is 1.2. If you specified -nokeepvid, the first version is 1.1.

The -nokeepvid behavior can cause problems if there are versions of the original top.v vault in mirrors, or user's work areas. For example, if a user's work area contains the old 1.1 version, DesignSync will not fetch the new 1.1 version when the user performs a populate. This would be true anytime the latest version number of the new vault was the same as the version number in the workspace of the old vault. Had the vault been deleted with the -keepvid option, the populate would succeed, fetching version 1.2 (the first version in the newly created vault). Therefore, you should use -keepvid if a vault of the same name might later be created. However, the retained vault metadata does use a small amount of disk space, so if you want to reclaim all disk space used by a vault, use -nokeepvid.

If you do not specify -keepvid or -nokeepvid, the default is -keepvid behavior. You can redefine the default behavior using SyncAdmin. See "Command Defaults" in SyncAdmin help for details.

-trigarg

-trigarg <arg> Specifies an argument to be passed from the command line to the triggers set on the delete vault operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({}) if using the stcl command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

`rmfile`, `rmversion`, `rmfolder`, `retire`, `command defaults`

EXAMPLES

- [Example of Removing the Vault for a Single File](#)
- [Example of Removing the Vault using URL Vault](#)
- [Example of Removing the Vault using the Server URL](#)

Example of Removing the Vault for a Single File

Delete the vault for `top.v`, where `top.v` is in my current work area. The double quotes are required in `stcl/stclc` mode.

```
stcl> rmvault 'top.v;'
```

Example of Removing the Vault using URL Vault

Delete the vault for `top.v` using the `'url vault'` command instead of version-extended naming:

```
stcl> rmvault [url vault top.v]
```

Example of Removing the Vault using the Server URL

Delete all the vaults in the vault folder `'top'`. This command does not delete vaults in any folder under `'top'` (`rmvault` is not recursive).

```
stcl> rmvault sync://localhost:2647/Projects/Sportster/top/*
```

rmversion**rmversion Command****NAME**

`rmversion` - Deletes versions from the vault

DESCRIPTION

ENOVIA Synchronicity Command Reference - File

This command deletes the specified version from the vault. You delete versions from a vault, a process known as pruning, to free up disk space. Use this command with caution; you cannot recover a deleted version. This command does not affect files in your local work area.

You cannot delete:

- Tagged versions (unless you use the `-force` option).
- Version 1.1.
- Version .1 when other versions exist on the branch
- Version .1 when the version is upcoming. (For example, suppose you have a branch 1.4.1 that has no versions, but the branch is locked. In this case the upcoming version is 1.4.1.1, which cannot be deleted.)
- Branch-point versions (for example, if 1.2.1 is a branch, you cannot delete version 1.2).
- The Latest version on a locked branch (for example, if someone checks out version 1.3 with a lock, you cannot delete version 1.3 from the vault until the lock is released).

Use version-extended names to specify a version. A version-extended name consists of a filename followed by a semicolon and a version number or tag name (for example, `top.v;1.2` or `top.v;rel13`).

Notes:

- You cannot use wildcards (such as `'*'`) when using version-extended names.
- When in `stcl/stclc` mode, you must surround version-extended names (or any URL with a semicolon) with double quotes.
- DesignSync does not reuse version numbers once they have been deleted from the vault. For example, assume the vault contains `top.v;1.1`, `top.v;1.2`, and `top.v;1.3`, and you use `rmversion` to delete `top.v;1.2` and `top.v;1.3`. If you or another user later creates a new version of `top.v` (`ci -new top.v`), DesignSync names the new version `top.v;1.4`.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

SYNOPSIS

```
rmversion [-[no]force] [-report <mode>] [-trigarg <arg>] [--]
          <version> [<version> [...]]
```

ARGUMENTS

- [DesignSync Object](#)

Specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Removes the specified DesignSync object from the server. This object can be a version-extended vault URL, or an object in your workspace.

OPTIONS

- [-force](#)
- [-report](#)
- [-trigarg](#)
- [=](#)

-force

-[no]force Determines whether you can delete tagged versions from the vault.

-noforce does not delete tagged versions. (Default)

-force deletes tagged versions. Use this option with caution because deleting a tagged version changes (possibly damaging) a configuration.

-report

-report <mode>

Specifies the amount of output generated by the rmversion operation.

Available modes are:

- o brief - Displays error messages. (Note: This mode does not display versions successfully deleted.)
- o normal - (the default mode) Displays:
 - The name and version number of each version deleted.
 - Error messages.
- o verbose - Displays:
 - For vault objects, the full vault URL path of each version being deleted.
 - The name and version number of each version deleted.
 - Error messages.

-trigarg

ENOVIA Synchronicity Command Reference - File

`-trigarg <arg>` Specifies an argument to be passed from the command line to the triggers set on the delete version operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({} if using the stcl command shell.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

`rmfile`, `rmfolder`, `rmvault`, `retire`, `tag`, `command defaults`

EXAMPLES

- [Example of Removing a File Version](#)
- [Example of Removing a File Specified with a Path](#)
- [Example of Removing Multiple Files with Associated Tags](#)

Example of Removing a File Version

Delete version 1.2 of `top.v`, where `top.v` is in my current work area. The double quotes are required in `stcl/stclc` mode.

```
stcl> rmversion "top.v;1.2"
```

Example of Removing a File Specified with a Path

Delete version `top.v;1.2` specifying an absolute path to the file in the local work area. In `dss/dssc` mode, the quotes are optional.

```
dss> rmversion "/home/Projects/ASIC/top.v;1.2"
```

Example of Removing Multiple Files with Associated Tags

Delete two versions of top.v, both of which have tags associated with them.

```
dss> rmversion -force top.v;1.2 top.v;rel13
```

select**select Command****NAME**

```
select          - Identifies specific objects to be processed
```

DESCRIPTION

This command builds a list of objects on which commands can operate. You might use a select list when you are going to perform multiple operations on the same set of objects. Many commands that accept objects as command arguments support the '-selected' option. When you specify '-selected', the command operates on this pre-built select list in addition to any objects you specify as arguments.

You can specify wildcards when selecting objects. Use the 'unselect' command to remove objects from the select list.

Commands that operate on a select list can also operate on objects you select from the DesignSync graphical interface. Select one or more objects from the List View, then enter a command from the command bar.

Notes:

- o The "Synchronize graphical and command-line interfaces " option from Tools->Options->GUI Options must be selected.
- o Selecting objects graphically clears your current select list.

SYNOPSIS

```
select [--] {-show | <argument> [<argument>...]}
```

ARGUMENTS

- [DesignSync Object](#)

DesignSync Object

ENOVIA Synchronicity Command Reference - File

<DesignSync object> Most DesignSync objects can be selected.
<DesignSync folder>

OPTIONS

- [-show](#)
- [--](#)

-show

-show Lists the objects in your select list.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, there is no return value except when you specify -show, in which case the return value is a Tcl list of the objects in your select list.

SEE ALSO

unselect, cancel, ci, co, ls, tag, vhistory

EXAMPLES

- [Example of Using Select on the Command Line to Select Files](#)
- [Example of Using Select within a Script](#)

Example of Using Select on the Command Line to Select Files

This example selects all files that begin with 'samp' or have a '.mem' extension, then checks out the selected files and 'top.v'. Note that 'samp.mem' matches both the arguments to the select

```

command but is stored only once in the select list.
dss> select samp* *.mem
Already Selected: c:\Projects\Sportster\code\samp.mem
dss> select -show
file:///c:/Projects/Sportster/code/samp.asm
file:///c:/Projects/Sportster/code/samp.lst
file:///c:/Projects/Sportster/code/samp.mem
file:///c:/Projects/Sportster/code/samp.s19
file:///c:/Projects/Sportster/code/sample1.asm
file:///c:/Projects/Sportster/code/test.mem
dss> co -selected -lock -nocomment top.v

```

Example of Using Select within a Script

This example runs an stcl script called select.tcl, which displays a message for each object in a directory with a '.v' extension.

```

# -- script start --
select *.v
foreach obj [select -show] {
    puts "$obj is selected."
}
# -- script end --

stcl> run ./select.tcl
file:///c:/Projects/Sportster/top/alu/alu.v is selected.
file:///c:/Projects/Sportster/top/alu/mult8.v is selected.

stcl>

```

setowner

setowner Command

NAME

```

setowner          - Sets the owner on the object specified

```

DESCRIPTION

This command sets the ownership of an object to the name specified. The object can be project, project configuration, DesignSync vault branch or module branch.

The owner of a branch is the creator of the initial version of the branch unless a different owner is specified with the setowner command. For example, the default owner of the main branch

ENOVIA Synchronicity Command Reference - File

(branch 1) is the creator of version 1.1 . The owner of an object's main branch is also, by definition, the owner of the object's vault.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
setowner [--] <argument> <owner>
```

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

url owner, switchlocker

EXAMPLES

- [Example of Setting the Ownership for a Project](#)
- [Example of Setting the Owner of a Branch](#)

Example of Setting the Ownership for a Project

This example sets the ownership for the project ASIC to 'johndoe':

```
dss> setowner sync://myserver:myport/Projects/ASIC johndoe
```

Example of Setting the Owner of a Branch

```
This example sets the owner of the main branch of reg5.v to barbg:
dss> setowner "sync://holzt:2647/Projects/Sportster/decoder/reg5.v;1"
barbg
```

switchlocker

switchlocker Command

NAME

```
switchlocker          - Changes the current owner of a lock
```

DESCRIPTION

This command changes the lock owner of a branch. This command is particularly useful when two or more people are working on the same branch.

The following design scenario highlights the function of switchlocker.

UserA and UserB share the same work area and will be editing the same design object. UserA checks out the object for editing, thereby locking the branch. The object is modified by UserA or UserB, or both (assuming the proper permissions have been set on the object). UserB then needs to check in the changes (maybe UserA is unavailable to perform the checkin). UserB can use the switchlocker command to take lock ownership and then perform the checkin.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

SYNOPSIS

```
switchlocker [--] <locker> <argument>
```

ARGUMENTS

- [Username of New Locker](#)
- [DesignSync Object](#)

Username of New Locker

ENOVIA Synchronicity Command Reference - File

<locker> Username of the new locker of the file.

DesignSync Object

<DesignSync object> Specifies the object being switched. If the object is on a branch or is not the current version, you must specify the branch or version information for the object.

OPTIONS

- [=](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the object you specify begins with a hyphen (-).

RETURN VALUE

none

SEE ALSO

cancel, unlock, setowner, url properties, command defaults

EXAMPLES

- [Example of Switching the Locker for a DesignSync File-Basd Objects](#)

The following examples shows how two users with a shared work area might use switchlocker. User 'goss' must take over the lock from 'barbg' before 'goss' can check in the file.

Example of Switching the Locker for a DesignSync File-Basd Objects

This example shows using switchlocker on a DesignSync file-based object, top.v.

```

dss> ls -report RU top.v
Version          Locked By      Name
-----          -
1.2 -> 1.3      barbg*        top.v

dss> ci -nocomment top.v

Beginning Check in operation...

Checking in: top.v   : Failed:som: Error 102: Locked By Other User.

dss> switchlocker goss top.v
SwitchLocker:      success
dss> ls -report RU top.v
Version          Locked By      Name
-----          -
1.2 -> 1.3      goss*         top.v
dss> ci -nocomment top.v

Beginning Check in operation...

Checking in: top.v   : Success - New version: 1.3
dss>

```

unlock

unlock Command

NAME

unlock - Releases the lock on the specified object(s)

DESCRIPTION

- [Note on File-Based Objects](#)
- [Auto-Branching](#)

This command releases the lock on a specified object(s). This command is used primarily to release object locks on the server. To release a lock on an object you have checked out in your work area, use the 'cancel' command instead of 'unlock'. Use the 'unlock' command to remove a lock held by someone else, or if you no longer have the object that you checked out in your work area.

Only one user can have a lock on a given branch of an object at a time. Having a lock prohibits other users from checking in changes to that branch; however, other users (or the same user in different work areas) can independently lock, unlock, and check in changes to other branches.

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To remove a lock and change states, use the 'cancel' command. Also, if you have a lock taken away from you by another user (with the 'unlock' command), you should cancel your checkout (with the 'cancel' command) to return your local object to a consistent state.

Unlock is equivalent to performing 'cancel -keep' on an object because unlock does not affect the local copy of the file in the work area. The unlock action replaces locked references in the workspace with copies.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Note on File-Based Objects

You lock a branch by checking out an object with the -lock option to theco, populate, or ci command, or by using the lock command on a module branch.

Exclude lists are used to exclude objects from the unlock. Filter lists are used to include or exclude module objects or to include DesignSync objects. Exclude lists are used to exclude DesignSync objects.

Note: When -exclude is used to exclude an object, the command output message indicates that the object was "excluded by filter."

Auto-Branching

You can create a new, locked branch by using 'co -lock' with a selector and autobranching. This branch can be unlocked without creating a new version by:

- Using 'cancel' from the workspace where the branch was locked.
- Using 'unlock' on the vault.
- Using ci from the workspace where the branch was locked, without making modifications.

In these cases, the lock is removed from the vault, the auto-created branch is removed, and the branch tag is deleted. If the branch is removed but still exists in the metadata of a workspace, some commands (such as the 'url' commands and 'vhistory') will fail with "No such version."

SYNOPSIS

```
unlock [-branch <branch> | -branch auto(<branch>)]
       [-exclude <object>[,<object>...]] -[no]recursive]
       [-[no]selected] [-trigarg <arg>] [--]
       [<argument> [<argument> ...]]
```

ARGUMENTS

- [DesignSync Object](#)
- [DesignSync Folder](#)
- [DesignSync Vault](#)

DesignSync Object

<DesignSync object> A versionable file or collection object, in which case the current branch is unlocked.

Note: If you specify a collection member as the object to be operated on, DesignSync skips the object and warns that the object is not versionable. If DesignSync attempts to operate on a collection member specified implicitly (through the use of wildcards or a recursive operation), DesignSync silently skips the object. You can change this behavior by using the SyncAdmin "Map operations on collection members to owner" setting. If you select this setting and DesignSync attempts to operate on a collection member during a revision control operation, DesignSync determines the member's owner collection and operates on the collection as a whole.

DesignSync Folder

<DesignSync folder> Specify a DesignSync folder on the server or in your workspace (local) to unlock all objects in the folder. To unlock all objects in sub-folders of the specified folder, use the -recursive option.

DesignSync Vault

<DesignSync vault> Specify a DesignSync vault to unlock the initial branch of the objects in the vault.

OPTIONS

ENOVIA Synchronicity Command Reference - File

- [-branch](#)
- [-exclude](#)
- [-\[no\]recursive](#)
- [-\[no\]selected](#)
- [-trigarg](#)
- [==](#)

-branch

```
-branch <branch>  
| -branch  
  auto(<branch>)
```

Unlocks the branch specified by the branch or version tag, auto-branch selector, or branch numeric. By default (without `-branch`), the current branch of each specified object is unlocked. This option overrides the object's persistent selector list. If `<branch>` resolves to a version, the branch of that version is unlocked.

Note: The `-branch` option accepts a single branch tag, a single version tag, a single auto-branch selector tag, or a branch numeric. It does not accept a selector or selector list.

-exclude

```
-exclude <objects>
```

Specifies a comma-separated list of objects to exclude from the operation. Wildcards are allowed.

Do not specify paths in your arguments to `-exclude`. Before operating on each object (such as during a recursive unlock operation), DesignSync compares the object's leaf name (path stripped off) to the exclude list to see if there is a match. Because the object's path is removed, the object will not match any object in the exclude list specified with a path. For example, if you specify `'-exclude bin/*.exe'`, you will not successfully exclude `bin/foo.exe` or any other `*.exe` file. You need to instead specify `'-exclude *.exe'`, or `'-exclude foo.exe'` if you want to exclude only `'foo.exe'`. This means, however, that you cannot exclude a specific instance of an object -- you exclude all matching objects.

In addition to objects you specify using the

-exclude option, the "These objects are always excluded" field from the Tools->Options->General->Exclude Lists dialog box in the DesignSync graphical user interface lists objects that are always excluded from revision-control operations.

-[no]recursive

-[no]recursive Determines whether to unlock the objects in the specified folder or all objects in the folder and all objects in the subfolders. This option is ignored if the argument is not a DesignSync folder.

-norecursive removes locks only from objects in the specified folder. (Default)

-recursive removes the locks from the objects in the specified folder and all subfolders. Note: On GUI clients, -recursive is the initial default.

-[no]selected

-[no]selected Determines whether the operation is performed just on the objects specified at the command line or on objects specified at the command line and objects in the select list (see the 'select' command)

-noselected unlocks only objects specified on the command line. (Default)

-selected unlocks objects specified on the command and in the select list.

Note: If no objects are specified on the command line, the -selected option is implied.

-trigarg

-trigarg <arg> Specifies an argument to be passed from the command line to the triggers set on the unlock operation. If the argument contains whitespace, enclose the argument within double quotation marks (") if using the dss command shell or braces ({} if using the stcl command shell.

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--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

The command has no Tcl return value.

The command does provide a list of the objects processed by the command and information about whether the command succeeded, failed, or was skipped.

Note: If an object was "excluded by filter," it may have been excluded either with the `-filter` option (for modules) or with the `-exclude` option (for DesignSync objects.)

SEE ALSO

cancel, ci, co, command defaults, populate, select, selectors, switchlocker

,

EXAMPLES

- [Example of Unlocking Specific Files](#)
- [Example of Unlocking the Contents of a Directory Recursively](#)

Example of Unlocking Specific Files

This example unlocks the 'Rel2.1' branch of the 'alu.v' and 'decoder.v' files.

```
dss> unlock -branch Rel2.1 alu.v decoder.v
```

Example of Unlocking the Contents of a Directory Recursively

In the following example, a developer went on vacation while having many of the files in the 'code' vault folder locked. The following command recurses the 'code' vault folder and removes the locks.

```
dss> unlock -rec sync://host:2647/Projects/Sportster/code
```

```
Beginning Unlock operation...
```

```
Unlocking: sync://host:2647/Projects/Sportster/code/samp.asm; : Not locked
Unlocking: sync://host:2647/Projects/Sportster/code/samp.lst; : Unlocked.
Unlocking: sync://host:2647/Projects/Sportster/code/test.mem; : Unlocked.
Unlocking: sync://host:2647/Projects/Sportster/code/test.asm; : Not locked
Unlocking: sync://host:2647/Projects/Sportster/code/samp.mem; : Unlocked.
Unlocking: sync://host:2647/Projects/Sportster/code/test.lst; : Not locked
Unlocking: sync://host:2647/Projects/Sportster/code/test.s19; : Unlocked.
```

```
Unlock operation finished.
```

unselect

unselect Command

NAME

```
unselect          - Removes files from the 'selected' list
```

DESCRIPTION

This command removes specified files from the list of selected objects. Many commands that accept filenames also support the `-selected` option, which feeds this pre-built list of files to the command for processing. As with most commands that accept filenames, wildcard file specifications are also supported.

SYNOPSIS

```
unselect [-quiet] [-all | [--] <argument> [<argument>...]]
```

ARGUMENTS

- [DesignSync Object](#)

DesignSync Object

```
<DesignSync object> Most DesignSync objects can be selected.
<DesignSync folder>
```

OPTIONS

ENOVIA Synchronicity Command Reference - File

- [-all](#)
- [-quiet](#)
- [--](#)

-all

`-all` Remove all objects from the select list.

This option is mutually exclusive with specifying an argument to this command.

-quiet

`-quiet` Do not report the names of objects being deselected.

`--`

`--` Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

`select`, `cancel`, `ci`, `co`, `ls`, `tag`

EXAMPLES

- [Example of Removing Specified Objects from the Select List](#)
- [Example of Removing All Objects from the Select List](#)

Example of Removing Specified Objects from the Select List

This example removes `fool.v` and all files that match `bar*.v` from the select list:

```
dss> unselect fool.v bar*.v
```

Example of Removing All Objects from the Select List

This example removes all objects from the select list:
 dss> unselect -all

upload**upload Command****NAME**

upload - Upload/Update compressed IP stored in DesignSync

DESCRIPTION

- [Understanding How a Temporary Directory is used for Upload](#)
- [Order of Precedence for Temp Directory:](#)

The command allows you to upload or update a tar or gzipped tar archive to DesignSync in an efficient manner so that, instead of replacing the archive with the next version, DesignSync updates only the elements within the archive file that have changed from the previous version.

By performing a change (delta) calculation and only checking in the changed object set, DesignSync provides both improved speed during checkin and checkout and reduces the amount of disk space required for storing the IP.

The user running the upload should examine the tar file to make sure it contains none of the following:

- o unnecessary or undesired parent directories
- o absolute path directories

These should be removed before performing the upload.

Notes:

- o The executables (binaries) for tar or gtar must be on the user's path in order for the command to work.
- o DesignSync also provides a graphical user interface for uploading IP through the DesignSync Web Interface. For more information, see the DesignSync Administrator's Guide.

This command is subject to Access Controls on the server.

This command supports the command defaults system.

Understanding How a Temporary Directory is used for Upload

The compressed archive is exploded in a temporary directory and compared against the last version, if applicable, on the server and only the changed object set is checked in.

Tip: For optimal operation, DesignSync recommends that the upload directory contain at least 2.5* the size of the uncompressed archive file.

By default, this operation is performed in the temporary directory specified by the Upload_Tmp_Dir registry setting or the SYNC_TMP_DIR environment variable. If neither of these is set, DesignSync uses the /tmp directory on the repository server. For more information on setting the Upload_Tmp_Dir registry setting, or the SYNC_TMP_DIR environment variable, see the DesignSync Administrator's Guide.

You can optionally specify either a local directory or an alternate location on the server. This is especially useful for servers where you cannot control the server space consumption; specifying an alternative disk partition or performing the delta comparison locally allows you to make sure you have enough space to perform the operation. Specifying an option on the command line overrides any existing settings.

Order of Precedence for Temp Directory:

Note: DesignSync will use this order to determine which tmp directory to use for the upload operation. If there is no set value, DesignSync will check the next location on this. If there is a value set, but DesignSync is unable to use it, for example, because of incorrect write permissions, the command will fail.

1. If the -vault option is used, and -servertmpdir or -localtmpdir is specified, the value of <tmpdir> is used. If the -workspace option is specified, the workspace is used as the tmp directory.
2. If the command defaults system is used to set a value -servertmpdir or -localtmpdir, that value is used as the tmp directory.
3. If the UploadTmpDir registry setting is specified, that value is used as the tmp directory.
4. If the SYNC_TMP_DIR environment variable is set on the server machine, that value is used as the tmp directory.
5. If the TMPDIR environment variable is set on the server machine, that value is used as the tmp directory.
6. If no other values are set, DesignSync uses the /tmp directory on

the server machine.

SYNOPSIS

```
upload [-branch <branchname>] [-[no]collections]
      [-[no]comment <comment>] [-[no]new]
      [-report brief | normal | verbose] [-tag <tagname>]
      [-vault <vaulturl> [-servertmpdir <tmpdir>] |
      [-vault <vaulturl> [-localtmpdir <tmpdir>] |
      [ -workspace <path>] <tarfile>
```

ARGUMENTS

- [Tar file](#)

Tar file

<tarfile> Specify a tar or gzipped tar archive to upload or update on the server. The archive can be specified with an absolute or relative path. The file extension for the tar file must be either .tar or .tgz in order for DesignSync to recognize the file.

NOTE: If the tar file contains .SYNC directories, they are automatically ignored and not checked in with the archive.

OPTIONS

- [-branch](#)
- [-\[no\]collection](#)
- [-\[no\]comment](#)
- [-localtmpdir](#)
- [-\[no\]new](#)
- [-report](#)
- [-servertmpdir](#)
- [-tag](#)
- [-vault](#)
- [-workspace](#)

-branch

-branch <branchname> Specifies the branch on which to place the archive. You can specify only one branch with this

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option. If no branch is specified, DesignSync uploads to the Trunk branch. You cannot specify a branch tag for the initial archive upload, which is always checked into the Trunk branch.

For the <branchname>, specify a branch tag (for example, rel40) or branch numeric (for example, 1.4.2) only. Do not specify a colon (:) with the branchname.

If a temp directory (other than the /tmp default) is specified for the upload, and the -branch option is used, the specified branch must already exist on the server.

The -branch option is mutually exclusive with the -new option.

-[no]collection

- [no]collection Specifies whether the compressed package includes collections objects. For more information on collection handling, see the DesignSync Administrator's Guide.
- nocollection specifies that the compressed archive does not contain collection objects. This allows the upload process to use reference mode, improving the speed of operations. (Default)
- collection specifies that the compressed archive contains collection objects. The upload process will not attempt to use reference mode which would process collections incorrectly.

-[no]comment

- [no]comment ["<comment>"] Specifies whether a text description of the upload is stored with the checked in version.
- nocomment performs the upload with no comment. (Default)
- comment <text> stores the value of <text> as the module comment. To specify a multi-word comment, use quotation marks (") around the comment text.

-localtmpdir

`-localtmpdir`
`<tmpdir>` When `-vault` is used, the `-localtmpdir` option is used to specify a tmp directory path on the local (client) machine to be used for the upload operation. When the upload is completed, any objects placed in this directory during upload are removed.

-[no]new

`-[no]new` Performs the initial checkin of the archive. The initial archive checkin must be performed on the Trunk branch.

`-nonew` is used to update the archive in revision control. If the archive does not exist and `-nonew` is selected, the command fails. (Default)

`-new` is used to create or update the archive. If the archive exists and the `-new` option is specified, the archive is updated.

The `-new` option is mutually exclusive with the `-branch` option.

-report

`-report brief | normal | verbose` Controls the amount and type of information displayed by the command.

brief mode reports the generated tag.

Normal mode additionally reports a list of the changes in the archive, including: added files, retired files and changed files.

Verbose mode is equivalent to normal mode.

-servertmpdir

`-servertmpdir`
`<tmpdir>` When `-vault` is used, the `-servertmpdir` option is used to specify a tmp directory path on the repository server to be used for the upload operation. When the upload is completed, any objects placed in this directory during upload are removed.

-tag

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`-tag <tag>` Applies the specified tag to the data being imported. This tag can be used to get the data later, or example, when populating the archive into a workspace.

If the tag already exists it moves to the new version.

Note: An automatically generated tag, in the form Archive.<#> is also applied to the data being imported, where the initial value of # is 1, and then the number is incremented as archive is updated.

-vault

`-vault <vaultURL>` Specify the vault URL and optionally a server or `[-servertmpdir <tmpdir>]` local path to use as a temporary upload | `[-localtmpdir <tmpdir>]` directory.

Specify the vault URL in the format:
`sync[s]://<host>:<port>/[<Project>...]/<vault>`

If the vault does not exist, then it will be created, if the command is run with the `-new` option.

When you specify an alternate tmp directory for upload, you can specify a server path on the repository server or a local path on the client system. For more information on specifying a server path, see the `-servertmpdir` option. For more information on specifying a local path, see the `-localtmpdir` option.

This option is mutually exclusive with `-workspace`. Either `-workspace` or `-vault` must be specified.

-workspace

`-workspace <path>` Specify an existing, unmodified workspace as a staging area to unpack the new archive, determine the changes necessary and send only the changes to the server. If this is used for an initial upload, the archive is unpacked in the workspace and the entire contents of the archive is uploaded. For the initial upload, DesignSync uses the persistent selector to determine the module/vault for checkin.

This is a performance enhancement that minimizes the server processing time needed to compute the deltas by pre-computing the deltas in the workspace.

The workspace must be owned and writable by the person running the command.

The `-workspace` option is mutually exclusive with `-vault` and `-branch`. The `-workspace` option is only supported for UNIX workspaces.

RETURN VALUE

This command does not return any TCL values. DesignSync provides status messages while the command runs. If the command fails, DesignSync returns an error explaining the failure.

SEE ALSO

defaults, access, ci

EXAMPLES

- [Example of Performing an Initial Upload](#)
- [Example of Performing an Upload Using a File-Based Workspace](#)
- [Example of Specifying a Server Temporary Directory for File-based Upload](#)
- [Example of Specifying a Local Temporary Directory for File-based Upload](#)

Example of Performing an Initial Upload

This example shows performing an initial upload to a file-based vault.

Note: This example has been run in normal mode, which means that each object processed in the tar file is listed in the command output. For brevity, these lines have been removed.

```
dss> upload -comment "IP rel 1.0 handoff" -vault
sync://serv1.ABCo.com:2647/Projects/customerIP -new FinalIP.tar
```

```
Operation continuing, please wait...
sync://serv1.ABCo.com:2647/Projects/customerIP Success Folder Made
Logging to /home/rsmith/dss_04042014_123427.log
3DEXPERIENCE6R2022x
```

```
Beginning Tag operation...
```


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... [List of tag files removed]

Tag operation finished.

Example of Performing an Upload Using a File-Based Workspace

This example updates an IP checked into a file-based vault. It uses a workspace as its temporary storage area rather than the server which reduces the processing time needed on the server.

Note: This example has been run in normal mode, which means that each object in the tar file is listed in the command output as it is populated, checked in, and tagged. For brevity, the individual object detail lines have been removed.

```
dss> upload -comment "IP rel 2.0 handoff" -workspace
~rsmith/workspaces/customerIP FinalIP.tar
```

```
Beginning populate operation at Fri Apr 04 02:22:56 PM EDT 2014...
```

```
...
```

```
Populated '/home/rsmith/workspaces/customerIP'
```

```
Finished populate operation.
```

```
Beginning Check in operation...
```

```
...
```

```
Checkin operation finished.
```

```
Beginning Tag operation...
```

```
...
```

```
Tag operation finished.
```

Example of Specifying a Server Temporary Directory for File-based Upload

This example updates an IP checked into a file-based vault. It uses a specified directory on the server as its temporary storage area rather than the server default which allows you to make sure that the space you need for the operation is available.

Note: This example has been run in normal mode, which means that each object in the tar file is listed in the command output as it is populated, checked in, and tagged. For brevity, the individual object detail lines have been removed.

```
dss> upload -vault sync://serv1.ABCo.com:2647/Projects/CustomerIP
-servertmpdir /home/syncadmin/tmp -comment "Uploaded IP"
./FinalIP.tar
```

```
Beginning Check in operation...
```

```
Checking in: ...
```

```
...
Checkin operation finished.

Beginning Tag operation...
...
Tag operation finished.
dss>
```

Example of Specifying a Local Temporary Directory for File-based Upload

This example updates an IP checked into a file-based vault. It uses a specified directory on the client machine as its temporary storage area rather than the server default which allows you to make sure that the space you need for the operation is available and reduces processing time on the server.

Note: This example has been run in normal mode, which means that each object in the tar file is listed in the command output as it is populated, checked in, and tagged. For brevity, the individual objectdetail lines have been removed.

```
dss> upload -vault sync://serv1.ABCo.com:2647/Projects/CustomerIP
-localtmpdir ~/tmpfiles -comment "Uploading new version" FinalIP.tar

Beginning Check in operation...
Checking in: ...
...
Checkin operation finished.

Beginning Tag operation...
...
Tag operation finished.
dss>
```

Navigational

cd

cd Command

NAME

cd - Changes your current directory

DESCRIPTION

This command is the standard Tcl 'cd' command. It lets you change your current directory as viewed by the operating system. You can specify a relative or absolute path. Specifying 'cd' without an argument puts you in your home directory (as defined by \$HOME on UNIX or your user profile, which is managed by the User Manager tool, on Windows).

In general, use 'scd' (Synchronicity 'cd') instead of 'cd' when using DesignSync. See the help for 'scd' for a full comparison of these commands.

SYNOPSIS

See a Tcl language reference manual.

SEE ALSO

scd, pwd, spwd

pwd

pwd Command

NAME

pwd - Displays the path of the current directory

DESCRIPTION

This command is the standard Tcl 'pwd' command. It displays the path of the current working directory as viewed by the operating system.

In general, use the 'spwd' (Synchronicity 'pwd') command instead of 'pwd' when using DesignSync. See the help for 'spwd' for a full comparison of these commands. In most cases, however, the 'spwd' and 'pwd' commands differ only in that 'pwd' returns a path whereas 'spwd' returns a URL.

Refer to a Tcl language reference manual for a full description of the standard 'pwd' command.

SYNOPSIS

See a Tcl language reference manual.

SEE ALSO

spwd, cd, scd

scd

scd Command

NAME

scd - Changes your current location

DESCRIPTION

The 'scd' (Synchronicity 'cd') command lets you change your current location. Your location is typically a local folder, which corresponds to a file-system directory, but can be any container object. A container object is an object that contains other objects, such as a folder or a vault.

Specify a relative path, absolute path, or file: URL for local (client-side) folders, or a sync: URL for server-side container objects. Specifying 'scd' without an argument puts you in your home directory (as defined by \$HOME on UNIX or your user profile, which is managed by the User Manager tool, on Windows platforms).

In dss/dssc, you can use the 'prompt' command to specify that your command-line prompt be the URL of your current location.

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The standard Tcl 'cd' command and 'scd' differ in that 'cd' operates on file-system directories, whereas 'scd' operates on DesignSync container objects, such as folders and vaults. In the common case of local folders, these commands behave similarly because there is often a one-to-one correspondence between the file-system directory and a DesignSync folder:

```
dss> cd /home/tgoss/Projects/Sportster
dss> pwd
/home/tgoss/Projects/Sportster
dss> spwd
file:///home/tgoss/Projects/Sportster

dss> scd /home/tgoss/Projects/Sportster
dss> pwd
/home/tgoss/Projects/Sportster
dss> spwd
file:///home/tgoss/Projects/Sportster
```

The behavior of 'scd' and 'cd' differ in the following cases:

- o You must use 'scd' when specifying server-side objects -- any object you identify with a sync: URL, such as vaults, branches, and server-side folders.
- o You cannot use 'scd' to navigate into Synchronicity client metadata directories (.SYNC). DesignSync does not recognize these directories as Synchronicity folders because you should not operate on these directories. However, you can use 'cd' because .SYNC directories are valid file-system directories.

```
dss> scd .SYNC <-- Fails
The system cannot find the path specified:
/home/tgoss/Projects/Sportster/code/.SYNC
dss> cd .SYNC <-- Succeeds
dss> pwd
/home/tgoss/Projects/Sportster/code/.SYNC
dss> spwd
file:///home/tgoss/Projects/Sportster/code
```
- o When used in server-side scripts, "cd /" puts you at the file-system root of the SyncServer host (/), whereas "scd /" puts you at the SyncServer's root directory as specified when the SyncServer was installed (for example, /usr1/Synchronicity/syncdata/gilmour/2647/server_vault).

SYNOPSIS

```
scd [--] [<path> | <URL>]
```

OPTIONS

- **=**

--

```
--          Indicates that the command should stop
           looking for command options. Use this option
           when the path begins with a hyphen (-).
```

RETURN VALUE

none

SEE ALSO

spwd, cd, pwd, prompt

EXAMPLES

- [Example of Specifying an Absolute Path Name](#)
- [Example of Specifying a Relative Path Name](#)
- [Example of Specifying a Server-Side Vault Location](#)
- [Example of Navigating on the Server](#)
- [Example of Changing to a Calculated Server Directory](#)

The following examples illustrate common uses of the 'scd' command. In the first two examples, you could use 'cd' to accomplish the same result. In the other examples, you must use 'scd'.

Example of Specifying an Absolute Path Name

The following example specifies an absolute path name and changes the local folder to file:///home/userdir/test (DesignSync converts the path to a URL).

```
dss> scd /home/userdir/test
dss> spwd
file:///home/userdir/test
```

Example of Specifying a Relative Path Name

The following example specifies relative path names. For example, if your current folder is /home/userdir and it contains the subfolder 'test', either of the following commands changes to the test folder:

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```
dss> scd ./test
dss> scd test
```

Example of Specifying a Server-Side Vault Location

The following example changes your location to a vault (server-side) folder:

```
dss> scd sync://host3:2024/Projects/asic/test
dss> spwd
sync://host3:2024/Projects/asic/test
```

Example of Navigating on the Server

The following example shows that once you are located in a server-side folder, you can use relative paths to navigate:

```
dss> spwd
sync://host3:2024/Projects/asic/test
dss> scd ..
dss> spwd
sync://host3:2024/Projects/asic
dss> scd code
dss> spwd
sync://host3:2024/Projects/asic/code
```

Example of Changing to a Calculated Server Directory

You can change location to a vault object (because it is a container object that contains versions). You can either use a command that computes the location (for example, the 'url vault' command) or you can explicitly specify the URL:

```
stcl> scd [url vault file5.v]
stcl> spwd
sync://host3/2024/Projects/asic/test/file5.v;
```

Note: If you specify the URL, you must precede the semicolon with a backslash or surround the URL with double quotes to prevent stcl from treating the semicolon as a command separator:

```
stcl> scd sync://host3:2024/Projects/asic/test/file5.v\;
stcl> spwd
sync://host3/2024/Projects/asic/test/file5.v;
```

spwd

spwd Command

NAME

spwd - Displays the URL of the current location

DESCRIPTION

The 'spwd' (Synchronicity 'pwd') command displays the URL of the current location -- folder or other container object -- as selected by the most recent 'scd' command. A container object is any object that contains other objects, such as a folder or a vault.

The standard Tcl 'pwd' command and 'spwd' differ in that 'pwd' operates on operating-system directories whereas 'spwd' operates on Synchronicity container objects. Also, 'pwd' returns an absolute path, whereas 'spwd' returns a URL. In most cases, there is a one-to-one correspondence between the current working directory and a Synchronicity folder, so you can use either command. For example:

```
dss> scd /home/tgoss/Projects/Sportster
dss> pwd
/home/tgoss/Projects/Sportster
dss> spwd
file:///home/tgoss/Projects/Sportster
```

There are cases where 'spwd' and 'pwd' return different values:

- If you use 'scd' to go to a server-side location, 'spwd' returns that location, whereas 'pwd' is unaffected (returns the location prior to the 'scd' command). This difference is because 'cd' and 'pwd' do not recognize server-side (sync:) objects.

```
stcl> pwd
/home/tgoss/Projects/Sportster
stcl> spwd
file:///home/tgoss/Projects/Sportster
stcl> scd [url vault .]
stcl> spwd
sync://apollo:2647/Projects/Sportster
stcl> pwd
/home/tgoss/Projects/Sportster
```

- If you use 'cd' to go to a metadata (.SYNC) directory, 'pwd' returns the path to the .SYNC directory, whereas 'spwd' is unaffected (returns the location prior to the 'cd' command). This difference is because DesignSync does not recognize .SYNC directories as folders so that users are discouraged from operating on them. For example:

```
stcl> pwd
/home/tgoss/Projects/Sportster/code
stcl> spwd
file:///home/tgoss/Projects/Sportster/code
stcl> cd .SYNC
stcl> pwd
/home/tgoss/Projects/Sportster/code/.SYNC
stcl> spwd
file:///home/tgoss/Projects/Sportster/code
```


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- When used from a server-side script, 'pwd' returns paths relative to the file-system root directory (/) whereas 'spwd' returns URLs relative to the SyncServer's root directory.

SYNOPSIS

spwd

OPTIONS

none

RETURN VALUE

Returns the URL of the current location.

SEE ALSO

scd, pwd, cd

EXAMPLES

- [Example of Using spwd on a Local Folder](#)
- [Example of Using spwd on a Vault Folder](#)
- [Example of Using spwd on a Vault File Object](#)

Example of Using spwd on a Local Folder

This example shows the return value from the 'spwd' command when the previous 'scd' command selected a local folder. In this common case, 'pwd' returns the same value, except as a path instead of a URL.

```
dss> scd /home/syncmgr/test
dss> spwd
file:///home/syncmgr/test
dss> pwd
/home/syncmgr/test
```

Example of Using spwd on a Vault Folder

This example shows the return value from 'spwd' when the previous 'scd' selected a vault folder.

```
stcl> scd [url vault test_dir]
stcl> spwd
sync://host3:2024/Projects/ASIC/test_dir
```

Example of Using spwd on a Vault File Object

This example shows the result of 'spwd' when the previous 'scd' selected a vault object.

```
stcl> scd [url vault myfile.txt]
stcl> spwd
sync://host3:2024/Projects/ASIC/test_dir/myfile.txt;
```

Informational

annotate

annotate Command

NAME

annotate - Shows last modification information per line

DESCRIPTION

This command opens the selected text file object and displays last modification information. The last modification information tells you:

- o The last-modified version for the line.
- o The author credited with the changes
- o The date the modification was checked in.

The annotate command supports the command line default system.

SYNOPSIS

```
annotate [-back <number> | -from <selector>] [-output <filename> ]  
[-version <selector>] [-[no]white] [--] <argument>
```

ARGUMENTS

- [Workspace File](#)
- [Server File](#)

Workspace File

<workspace file> Displays the specified file version loaded in the workspace. You may specify the file as either an absolute or relative path. Because this command only supports a single argument, You may not use wildcards, even if the wildcard selection results in only a single file being identified.

Server File

<server file> Displays the specified file version. Specify the object with the sync URL in the format:
 sync://<host>:<port>/<path>/<object>;<selector>

OPTIONS

- [-back](#)
- [-from](#)
- [-output](#)
- [-version](#)
- [-\[no\]white](#)
- [==](#)

-back

-back <number> Specifies the number of versions to consider when creating the annotated document. The versions included in the annotation begin with the specified version (-version option, if selected) and each version is processed until the specified number of versions back is reached, then the annotated file is generated.

If neither the -back nor the -from option is specified, the annotate includes the entire object history, beginning with the vault root. (Default)

Note: -back is mutually exclusive with -from.

-from

-from <selector> Specifies the selector of the first version to consider when created the annotated document. The versions included in the annotation begin with the specified version (-version) and end with the version that resolves to the selector specified with the -from option. The specified selector must resolve to a version on a path from the annotated version to the vault root.

Note: For module member version, the selector must be the module member version number.

If neither the -back nor the -from option is specified, the annotate includes the entire object history, beginning with the vault root. (Default)

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Note: `-from` is mutually exclusive with `-back`.

-output

`-output <file>` Sends the results of the `annotate` command to the named file. The contents can then be processed or viewed as needed.

-version

`-version <selector>` Specifies the version of a file to display. If no version is specified, DesignSync uses the version loaded in the workspace. (Default)

You may specify any valid single selector. Note: When you use a version number to specify a module member, use the module version of the module containing the module member version you're interested in.

-[no]white

`-[no]white` Specifies whether to ignore leading and trailing whitespace changes.

`-nowhite` indicates the whitespace changes are considered a modification. Therefore if the indentation level was changed, the line is considered modified. (Default)

`-white` indicates the whitespaces changes are not considered a modification. For example, if a user changes the indent level, the line is not considered modified. The last textual change (or embedded whitespace change) made is considered the last modification.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

If the `annotate` command is successful, `DesignSync` returns an empty string (`""`). If the command cannot run, `DesignSync` throws an error message explaining the failure.

SEE ALSO

`ls`, `vhistory`, `selectors`

EXAMPLES

This example shows the `annotate` command with a fragment of the `collection.ctp` script included in the sample directory:

```
dss> annotate collection.ctp
Beginning Annotate operation...
...
1.1          (barb  9-Apr-06): # Get the base name of a file.
1.1          (barb  9-Apr-06): proc collectionCTP::getBase
  {filename} {
1.2.1.3     (ian   1-Mar-07):      set tail [collectionCTP::tail
  $filename]
1.2.1.2     (ian   1-Feb-07):      set dot [string first
  . [collectionCTP::tail $filename]]
1.1          (barb  9-Apr-06):      if {$dot == -1} {
1.1          (barb  9-Apr-06):          return $filename
1.1          (barb  9-Apr-06):      }
1.2.1.3     (ian   1-Mar-07):      set bit [expr [string length
  $filename] - [string length $tail] + $dot - 1]
1.2.1.3     (ian   1-Mar-07):      return [string range $filename
  0 $bit]
1.1          (barb  9-Apr-06): }
```

compare

compare Command

NAME

`compare` - Compares two defined sets of files or objects

DESCRIPTION

- [Understanding the Types of Possible Compare Operations](#)
- [Understanding the Output](#)

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- [Understanding Status Values in the Output](#)
- [Using Compare with File-Based Objects](#)
- [Understanding Columns Returned When Comparing File Objects](#)

The 'compare' command allows you to compare two versions of a module, two legacy configurations in a vault, or to compare workspaces to modules, vaults, legacy configurations or other workspaces.

Note: The compare command compares only collections and not collection members. The compare command doesn't compare empty directories.

The compare command has a number of standard arguments, and then a specification of what can be compared, in the form of either 0, 1 or 2 arguments, plus 0, 1, or 2 selectors. The arguments can be any directory path or module instance. For more information on arguments, see the ARGUMENTS section. The selectors can be any valid selector or selector list, except that they may NOT contain the Date() or VaultDate() items. For more information on selectors, see the selectors topic.

Note: The compare command works from the path of the object, not from the UUID, this means that if an object has moved, it may be reported twice, one in the original location and once in the new location.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Understanding the Types of Possible Compare Operations

The following table describes the action of the compare command when you specify one or more selectors and one more arguments.

The selectors can be any valid selector or selector list, except that they may NOT contain the Date() or VaultDate() items. For more information on selectors, see the selectors topic.

The arguments can be any directory path or module instance. For more information on arguments, see the ARGUMENTS section.

Any combination not indicated is disallowed.

Notes:

- o This command is not intended to provide a way to compare two different modules, so there is no way to specify two module URLs.
- o For space considerations, the values of selector1/selector2 and the arguments allowed are represented as sel1/sel2 and arg1/arg2.

sel	sel2	arg1	arg2	Description
-----	------	------	------	-------------

----	----	----	----	-----
No	No	Yes	No	Compare the contents of the specified argument against the server version.
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
No	No	No	No	Compare the current workspace directory path against the associated server version.
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
No	No	Yes	Yes	Compare the two arguments.
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
Yes	No	Yes	No	Compare the specified argument against the version indicated by the specified selector.
<p>The selector value is always evaluated against the server version of the argument. If you've filtered data out of your workspace and do not use the corresponding filters on the compare command, you see that data listed as present on the server, but not in your workspace.</p>				
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
Yes	No	No	No	Compare the current workspace against the specified selector. This uses the server version that corresponds to the persistent selector set on the workspace, rather than the current workspace module version.
<p>The selector value is always evaluated against the server version of the module or DesignSync vault. If you've filtered data out of your workspace and do not use the corresponding filters on the compare command, you see that data listed as present on the server, but not in your workspace.</p>				
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
Yes	Yes	No	No	Compare the two specified versions. Both are server versions identified by selector, for example you might compare Rel1:Beta against Rel:Gold, or Rel2:Beta. Neither of these is required to be populated into a workspace on your system in order to do the comparison.
sel1	sel2	arg1	arg2	Description
----	----	----	----	-----
Yes	Yes	Yes	No	Compare the two specified selector versions for the argument given. If the argument is a workspace path, the command uses the vault associated with the workspace path.

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Understanding the Output

The output can be formatted for easy viewing (`-format text`) or optimized for Tcl processing (`-format list`). Both viewing formats show the same information, but may have different names. In the table below, the Column Titles column shows the text output column header and the Property Names column shows list output key value.

This information is returned by the `compare` command regardless of what report mode you specify. Different report modes add additional information as described in the Options section under `-report`.

Understanding Status Values in the Output

The following table describes the status values:

Column Titles	Property Names	Description
Identical	identical	The objects are the same.
Different versions	different_versions	The objects are the same but are at different versions.
Different objects	different_objects	The objects are the same natural path and the same versions, but they do not have the same unique ID values.
First only	first_only	The object is present in the first area only.
Second only	second_only	The object is present in the second area only.
Different states	different_states	The objects are the same version, but in different states, for example one item is modified or absent (in reference mode) while the other is not.
modified	modified	The objects are the same (same version and same uids), but both are modified and therefore the files might be different.
Content identical	identical_content	The objects are the same (same version, same uid, same checksum), but the versions are different. Note: If your workspace is populated in share, reference, or mirror mode, DesignSync does not retain checksum information and

these workspaces will never register as Content identical.

Using Compare with File-Based Objects

You can run the compare command to:

- Compare two workspaces. If you are running a simulation in your workspace, and a co-worker is running simulations in his workspace, but you are seeing different results, you can compare your workspaces to see what is different.
- Report items that are the same and history information when different. Also, in order to understand what the changes are, you can see the checkin comment history from the different versions back to their common ancestor.
- Produce output for further processing. For example, having compared your workspace with that of someone else, you would like to take the list of what is different and tag those items.
- Compare the workspace version to a server version. For example, you can see differences in your local workspace, or changes from the original or other versions.
- Compare two server versions. For example, you can compare the a version on one branch or a version on another branch, or compare two tagged released versions against each other to see how they differ.

Understanding Columns Returned When Comparing File Objects

Note: The column title for the path properties may change depending on whether you are comparing workspaces (Workspace Version) or legacy modules (Configuration Version).

Column	Property	
Titles	Names	Description
-----	-----	-----
Workspace/ Configuration Version	path1	The path of the first argument specified by the command.
Workspace/ Configuration Version	path2	The path of the second argument specified by the command.
Status	state	The status value shows the result of the comparison. The next table shows all the status values possible. Note: The list view shows the overall status (state) of the files, and the specific information about both versions being

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		compared.
Name	name	Name of the object being compared.
	type	Type of object being compared. Type values include: <ul style="list-style-type: none">o fileo moduleo foldero project

SYNOPSIS

```
compare [-format list|text] [-[no]history] [-[no]same]
        [-exclude <string>] [-output <file> | -stream <stream>]
        [-[no]path] [-recursive | -norecursive]
        [-report silent|brief|normal|verbose]
        [-selector <selector> ] [-selector2 <selector2>]
        [--] [argument [argument]]
```

ARGUMENTS

- [DesignSync Folder](#)
- [Server Folder](#)

DesignSync Folder

<DesignSync folder> Compares the contents of the specified folder, and, when used with the recursive option, all subfolders.

Server Folder

<server folder> Compares the contents of the specified folder on the server, and when used with the -recursive option, all subfolders. Specify the object with the sync URL in the format:
sync://<host>:<port>/<path>/<folder>

OPTIONS

- [-exclude](#)
- [-format](#)
- [-\[no\]history](#)
- [-output](#)
- [-\[no\]path](#)

- [-\[no\]recursive](#)
- [-report](#)
- [-\[no\]same](#)
- [-selector](#)
- [-selector2](#)
- [==](#)

-exclude

`-exclude <expr>` Excludes items that match the given regular expression.

The expression is matched against the object path that would be reported. If `'-path'` is specified, the command matches the expression against the relative path; if `'-fullpath'` is specified, the command matches the expression against the full path, else against the object leaf name.

By default, the `'compare'` command does not exclude the objects in the global exclude lists (set using `Tools->Options->General->Exclude Lists` or using `SyncAdmin:General->Exclude Lists`). To exclude these objects from a `'compare'` listing, apply the `-exclude` option with a null string:

```
compare -exclude ""
```

The objects in the global exclude lists are appended to the `'compare'` exclude list if you exclude other values:

```
compare -exclude "README.txt"
```

-format

`-format list|text` Determines the format of the output.

Valid values are:

- o `text` Display a text table with headers and columns. (Default) Objects are shown in alphabetical order.
- o `list` Tcl list structure, designed for further processing, and for easy conversion to a Tcl array structure. This means that it is a list structure in name-value pair format. The top level structure is:


```
{
  path1 <path>
  path2 <path>
  type folder
  objects <object_list>
}
```

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path1 and path2 are the areas compared, and may be local workspace paths, or configuration URLs in the form:
sync://machine:port/path@config

The "selector" part is the originally supplied selector name, rather than any name resulting from selector expansion.

object_list is then defined as a list of items of the form:

```
{
  name <object name>
  type1 folder | file
  type2 folder | file
  objects <object_list>
  state <status>
  props1 <prop_list>
  props2 <prop_list>
}
```

The "name" is the name of the object, and may contain the relative path from the starting point if the '-path' argument was specified.

Note: When comparing a module hierarchy, the top level list includes a "modules" property whose value is a list of the results for each module in the hierarchy.

The "type1" and "type2" properties indicate whether the object is a folder, file, or module. Note that collection objects have a type file, also all symbolic links, whether to files or directories, have a type of "file". The reason that all links are "file" is to be consistent with the "ls" command which treats links as files.

The type may be different on the two sides. A folder or module have object lists; which a file object does not have. A file has props1 and props2 lists which folders and modules do not have.

The state value contains the status of the object. For more information on status values, see the Status table in the "Understand the Output" section above.

The props1 and props2 are lists of

properties for the object from path1 and path2, in the form:

```
{
  version <version>
  state <state>
  ancestor <version>
  history <history_list>
}
```

To process the results, use the "compare-foreach" function below.

-[no]history

`-[no]history` Determines whether the command returns the version history of the version being compared from the common ancestor of the two versions.

`-nohistory` does not return version history information. (Default)

`-history` returns the checkin comment and other details for the version history back to the common ancestor of the two versions being compared.

-output

`-output <file> | -stream <stream>` Outputs the result to the specified file or stream.

The output file is used to preserve the results for later viewing or distribution. If the specified file already exists, it is overwritten with the new information.

The stream option passes the results to named Tcl stream. Depending on whether you open the stream using the Tcl 'open' command in write (w) or append (a) mode, you can overwrite or append to an existing file.

Note: The `-stream` option is only applicable in the `stcl` and `stclc` Tcl shells, not in the `dss` and `dssc` shells.

If neither `-output` nor `-stream` is specified, the command output is displayed on the screen.

-[no]path

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-[no]path Controls the format of the path that is reported for each object. Objects are reported on a per-directory basis, with each directory path given as a full URL. The items within the directory can be reported as:

- nopath displays simple object names with no directory path. (Default)
- path display a relative path to the start of the command.

Notes:

- o If the -report silent option is specified, the -path option is automatically used.
- o The 'contents' option to report as a full url (-fullpath) is not supported by this command, because each object will potentially have two full URLs for the two areas being compared.

-[no]recursive

-[no]recursive Determines whether the compare command operate on the specified argument or all subfolders in the the argument's hierarchy.

- recursive performs this operation on all subfolders in the hierarchy.
- norecursive performs this operation on the specified folder only. (Default)

-report

-report Controls the level of additional information reported as the command progresses.

- o silent Returns only the primary return data for the command - the data that has been compared, and whether the data is the same.

Note: Using format -text, the relative path is returned in silent mode, unless the -fullpath option is specified.
- o brief Includes header lines showing what was compared and status lines where a long command might be performed without any output, such as when gathering data from

a remote server. Directories that contain only items on one side, or for which all items are identical on both sides are not expanded to show their contents.

- o normal Expands directories that would be skipped in brief output mode, because they are present in one area only, or because all items are identical on both sides. (Default)
- o verbose Includes information on configuration mappings.

In the output from brief mode, a directory may be shown with the message "(Nothing / all identical on this side)". This message indicates either that all items under this folder are the same on both sides or that there are items to report only on this side of the comparison.

Note: The version is shown as 'Unknown' if the version of the file in the workspace cannot be determined from the local metadata. If an object has no local metadata, its Version will be 'Unmanaged'. Recreated files will appear as 'Unmanaged', because they have no local metadata (their metadata was removed by a previous 'rmfile').

-[no]same

- [no]same Determines whether the output includes only items that are different or items that are the same and items that are different.
-nosame reports only items that are different. (Default)
-same reports items that are the same, in addition to items that are different.

-selector

- selector <selector> Specifies the selector to compare. When only one selector option is used, the object specified by the selector is compared to a workspace. You cannot use a Date() or VaultDate() selector.

Note: When specifying a selector, you must distinguish between branch and version selectors. If you are specifying a branch and the branch is anything other than Trunk, specify both the branch and version as follows:
'<branchtag>:<versiontag>', for example,

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'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example, 'compare -selector B1:' or 'compare -selector B1:gold'.

-selector2

-selector2 <selector2> Specifies a second selector when comparing two modules, legacy module configurations, or directories in the vault. You cannot use a Date() or VaultDate() selector.

Note: When specifying a selector, you must distinguish between branch and version selectors. If you are specifying a branch and the branch is anything other than Trunk, specify both the branch and version as follows:
'<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example, 'compare -selector B1:' or 'compare -selector B1:gold'.

--

-- The command option '--' indicates that following arguments should not be taken as options, but as paths that begin with a '-'.

RETURN VALUE

Empty string if -format value is text.
Tcl list if the -format value is list.
Empty string if -output or -stream is used with -format.

When run from a server-side script, the server-side URL used in the results is relative to the server root (meaning the host:port information is omitted), for example:
"sync:///Projects/p1."

SEE ALSO

compare-foreach, contents, contents-foreach, command defaults

EXAMPLES

- [Example of Comparing Two Selectors](#)
- [Example of Comparing Two Selectors with a URL](#)
- [Example of Comparing the Current Directory Against Another Directory](#)
- [Example of how to use '-format list' option](#)
- [Example of Comparing the Workspace Version to the Server Version](#)
- [Example of Comparing Two Workspace Directories](#)

Example of Comparing Two Selectors

Compare the two given selectors, using the 'url vault' of the current working directory to identify the server to work from.

```
dss> compare -selector relA -selector2 relB -recursive
```

Example of Comparing Two Selectors with a URL

Compare the two given selectors, starting from the given URL.

```
dss> compare -selector relA -selector2 relB \
sync://saturn.ABCo.com:30003/Modules/df2test -recursive
```

Example of Comparing the Current Directory Against Another Directory

Compare my current directory against the other one given. Compare only this directory and not the sub-directory contents.

```
dss> compare . /home/users/fred/Modules/P1 -norecursive
```

(Note: You are not required to specify the `-norecursive` option; the behavior of the `compare` command is nonrecursive by default.)

Example of how to use '-format list' option

To find which objects in your workspace have or do not have a specific tag, use 'compare' to compare the workspace with the tag configuration. Then report the items that do or do not match.

Create an auto-loaded Tcl proc:

```
proc has_tag {dir tag {no_tag 0}} {
    record {set cres [compare -selector $tag $dir -same -recursive \
        -format list -path -report verbose]} nolog
    compare-foreach obj1 obj2 $cres {
        if {[info exists obj1(version)]} {
```

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```
        if {[info exists obj2(version)] && \  
            ([string compare $obj1(version) $obj2(version)] == 0)} {  
            if {!$no_tag} {  
                puts $obj1(name)  
            }  
        } else {  
            if {$no_tag} {  
                puts $obj1(name)  
            }  
        }  
    }  
}  
  
}
```

Note that this will not include unmanaged objects. To report unmanaged files, modify the code to add an "else" clause to the first "if" statement.

The code can be changed to return a list of the objects by changing the "puts" statements to commands to build a return list. See standard Tcl programming documentation for how to do that.

See the ENOVIA Synchronicity stcl Programmer's Guide for details on auto-loading.

To report which files in the workspace have a "baseline" tag:

```
stcl> has_tag . baseline  
code/samp.s19  
code/samp.lst  
stcl>
```

To report which files in the workspace do not have a "baseline" tag:

```
stcl> has_tag . baseline 1  
code/samp.asm  
code/test.mem  
code/sample1.asm  
code/samp.mem  
code/test.asm  
top/alu/alu.v  
stcl>
```

Example of Comparing the Workspace Version to the Server Version

This example shows comparing the workspace version to the server version.

```
dss> compare /home/users/jsmith/workspace/proj1 -recursive
```

Example of Comparing Two Workspace Directories

Compare the two given workspace directories. Note that to compare your current workspace against someone else's, you must specify both directories.

```
dss> compare /home/users/fred/workspace/proj1 . -recursive
```

compare-foreach

compare-foreach Command

NAME

```
compare-foreach    - Function to process the results of a compare
                    command
```

DESCRIPTION

This routine loops over the items in a "compare" results list, and processes each item in turn.

SYNOPSIS

```
compare-foreach <var1> <var2> <result_list> <tcl_script> [-nofolder]
                [-path]
```

ARGUMENTS

- [Loop Variables](#)
- [Result List](#)
- [Tcl Script](#)

Loop Variables

```
var1, var2
```

These are the loop variables. They are treated as Tcl arrays, and on each loop around contain the set of properties for the next object in the result_list, with var1 containing the "props1" properties and var2 the "props2" properties. In addition to the properties in the "props1/2" values for each object, the arrays will contain a "name" property and a "type" property, which are the name and type properties for the object.

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Result List

`result_list` This is the list of objects to be processed. It must be the result value of a call to the "compare" command with the "--format list" option.

Tcl Script

`tcl_script` This is the piece of Tcl code that is executed on each loop.

OPTIONS

- [-nofolder](#)
- [-path](#)

-nofolder

`-nofolder` If specified, then the `tcl_script` will not be called for Folder type objects in the `result_list`.

-path

`-path` The "name" property on each loop is usually just the "name" property for the object. However, if this option is specified, and a recursive "compare" was performed, then the "name" property is the relative path to each object. Normally, you would run "compare" with the `-path` option, in which case the "name" property contains an appropriate relative path. If you did not do that, then passing the `-path` option to `compare-foreach` will mean that the "name" property contains the relative path for each item, thus allowing you to differentiate between items with the same name in different folders.

SEE ALSO

`compare`

EXAMPLE

- [Example of Using compare-foreach On a Result List From compare](#)

Example of Using compare-foreach On a Result List From compare

Example of using the compare-foreach to parse a compare.

```
set result_list [compare -selector RelA -selector2 RelB -rec -format list]

compare-foreach obj1 obj2 $result_list {
    puts "Object: $obj1(name), state1: $obj1(state), state2: $obj2(state)"
}
```

contents

contents Command

NAME

```
contents          - Lists the contents of a configuration or a
                   module
```

DESCRIPTION

- [Using Contents on File-Based Objects](#)

The 'contents' command provides a simple way to list the contents of a DesignSync configuration and the member items of a module.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Using Contents on File-Based Objects

You can run the contents command to list folder contents for DesignSync vaults, for example, list all files you created on a new branch.

Note: You can also use the contents-foreach function to perform operations on the contents of the output. See the 'contents-foreach' command for more information.

SYNOPSIS

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```
contents [-exclude <object> [,<object>...]]  
        [-format <text| list>] [-fullpath]  
        [-output <file>] [stream <stream>] [-[no]path]  
        [-[no]recursive]  
        [-report {silent | brief | normal | verbose}]  
        [-selector <selector>] [-[no]versions] [--] <argument>
```

ARGUMENTS

- [Workspace or Server Folder](#)

Specifies one of the following argument:

Workspace or Server Folder

<DesignSync object> Specifies the workspace folder or server folder for which you want to list the contents.

OPTIONS

- [-exclude](#)
- [-format](#)
- [-fullpath](#)
- [-output](#)
- [-path](#)
- [-recursive](#)
- [-report](#)
- [-selector](#)
- [-stream](#)
- [-version](#)
- [--](#)

-exclude

-exclude<string> Specifies the items to exclude from the contents report.

If you specify -filter (modules only) and -exclude, then the exclude conditions are applied after filtering the contents thus taking precedence.

Note: The global exclude list is added in if either a -exclude or a -filter option is

specified, even if the value of the option is an empty string "".

-format

```
-format <list
      | text>
      Specifies the format of the output. The format can
      be:
      o text -plain text (default)
      o list -Tcl list structure
```

The format when "-format list" is used is a Tcl list that is designed for further processing, and for easy conversion to a Tcl array structure. This means that it is a list structure in name-value pair format. The top level structure is:

```
{
  path <path>
  name <path>
  config <config>
  objects <object_list>
  type folder
}
```

"path" is the starting point path given, and may be local workspace paths, or a vault path.

"name" is the vault path for which the contents were fetched. It will match the "path" value if a server path was specified.

"config" is the configuration being listed, that is selector value.

object_list is then defined as a list of items of the form:

```
{
  name <object name>
  type folder | file
  objects <object_list>
  props <prop_list>
}
```

The "name" will include the full or relative path if the -fullpath or -path arguments are used. For information on how the -path and -fullpath options are handled when you specify a module as an argument, see the section 'Understanding the path option'.

The "type" indicates whether the object is a folder or file (note that collection objects have a type file). Only a folder has an objects list - this property may not always be present.

All file objects may have a props list, which is a list

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of properties for that object, and has the form:

```
{
  version <version>
}
```

A file object has the version property only if the `-versions` argument was given. So, if `-versions` is not given, then file objects will not have a `props` property -- this property may not always be present. (Although it may seem unnecessary overhead to have the `props` sub-list for a single property, i.e. `version`, this structure is maintained for compatibility and for future extensions.)

Note that there is no order implied on the objects in the `object_lists`. In particular, these items may not be sorted. This is different to the text output, where the items within a directory will always be reported in alphanumeric order. The reason for this is that generally the list output will be further processed, and that further processing can decide whether it needs to sort the results.

For legacy modules, any sub-module configuration references are placed immediately below the referencing module.

To process the results, use the `contents-foreach` function.

-fullpath

`-fullpath` Reports the path for each object within the directory as a full URL.

-output

`-output <file>` Output the result to the specified file, which is overwritten if it already exists.

Default is to send output to the screen if the `-format` value is `text` or to return it as the result of the function if the `-format` value is `list`.

-path

`-[no]path` Controls the path that is reported for each object. Objects are reported on a per-directory basis, with each directory path given as a full

URL. The items within the directory can be reported as:

- Leaf names (the default, unless '-report silent' is specified)
- Relative path to the start of the command (-path). This is the default if '-report silent' is specified.

Note: The exclude list affects what objects are reported at the full, relative, or leaf of the path as appropriate. See the -exclude option for details.

-recursive

-[no]recursive Specifies whether to perform this operation i just the specified folder (default) or in its subfolders.

If you use the -recursive option and specify a folder, the contents command operates in a folder-centric fashion. The contents listed can be further refined using the -exclude option.

-report

-report <mode> Controls level of additional information reported as the command progresses.

Valid values are:

- o silent - Only the primary output is given - the list of objects and versions. In this case, for the text output, the default is to show the relative path name (-path).
- o brief - Displays the same information as 'normal'.
- o normal - Include header information and progress lines where a long command might be performed, such as when scanning the vault. (Default)
- o verbose - Include information on configuration mappings.

-selector

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`-selector` A valid selector or selector list.
 `<selector>`

Note: The selector cannot contain `Date()` or `VaultDate()` items.

You should distinguish between branch and version selectors. If you are specifying a branch other than Trunk, specify both the branch and version as follows:
 `'<branchtag>:<versiontag>'`, for example,
 `'Rel2:Latest'`.
 You can also use the shortcut, `'<branchtag>:'`,
 for example, `'contents -selector B1:'`.

-stream

`-stream <stream>` Output to the given stream (which should be the result of a Tcl 'open' function call).

Default is to send output to the screen if the `-format` value is text or to return it as the result of the function if the `-format` value is list.

-version

`-[no]versions` Include the version numbers for the objects listed.

--

-- The command option '--' indicates that following arguments should not be taken as options, but as paths that begin with a '-'.

RETURN VALUE

Empty string if `-format` value is text.
Tcl list if the `-format` value is list.
Empty string if `-output` or `-stream` is used with `-format`.

When run from a server-side script, the server-side URL used in the results is relative to the server root. For example, `sync:///@Trunk:Latest`. The `{host}:{port}` is omitted. If the server-side script is run from a browser (via a ProjectSync URL), then the script must format the output for display within an HTML page.

SEE ALSO

contents-foreach, ls, ls-foreach, compare, compare-foreach, command defaults

EXAMPLES

- [Example Showing Contents of Server for Current Working Directory](#)
- [Example Showing Contents Output to a Stream](#)

Example Showing Contents of Server for Current Working Directory

This example shows the contents of the server (vault or module) associated with the current workspace.

```
dss> contents
```

This example shows the same contents, but includes version numbers and paths in the output.

```
dss> contents -config Rel1 -recursive -fullpath -versions
```

```
Gathering configuration data from vault
sync://svr1.ABCo.com:30002/Projects/P1@Rel1
```

```
Contents of:
file:///home/users/username/myprojects/P1
Vault:
sync://svr1.ABCo.com:30002/Projects/P1@Rel1
```

```
Version Object Name
1.2      sync://svr1.ABCo.com:30002/Projects/P1/file1.txt
1.4      sync://svr1.ABCo.com:30002/Projects/P1/file2.txt
1.1      sync://svr1.ABCo.com:30002/Projects/P1/file4.txt
1.5      sync://svr1.ABCo.com:30002/Projects/P1/file5.txt
```

```
sync://svr1.ABCo.com:30002/Projects/P1/subdir@Rel1
```

```
Version Object Name
1.5      sync://svr1.ABCo.com:30002/Projects/P1/subdir/file7.txt
1.2      sync://svr1.ABCo.com:30002/Projects/P1/subdir/file8.txt
```

Note: In this example, if the `-fullpath` option were not specified, then the relative path would be used for the Object Name.

Example Showing Contents Output to a Stream

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This example shows the contents of the configuration Rel4, for the vault directory structure starting at the vault location given. It sends the output results to the specified open stream.

```
dss> contents -config Rel4 sync://svr1.ABCo.com:30002/Projects/P1
      -stream $p
```

contents-foreach

contents-foreach Command

NAME

```
contents-foreach    - Function to process the results of a contents
                    command
```

DESCRIPTION

This routine loops over the items in a "contents" results list, and processes each item in turn.

Note: The only property types typically available for each object are, name, type, and version. The name and type properties are always present in the contents output; "versions" is only present when the "-versions" option was specified to the contents command.

SYNOPSIS

```
contents-foreach var result_list tcl_script [-nofolder] [-path]
```

ARGUMENTS

- [var](#)
- [results_list](#)
- [tcl_script](#)

var

var This is the loop variable. It is treated as a Tcl array, and on each loop around contains the set of properties for the next object in the result_list. In addition to the properties in the "props" value for each object (i.e. the version), the array will

contain a "name" property and a "type" property, which are the name and type properties for the object.

Note: For modules, the contents-foreach function returns a value of "Module" for the "type" property.

results_list

result_list This is the list of objects to be processed. It must be the result value of a call to the "contents" command with the "-format list" option.

tcl_script

tcl_script This is the piece of Tcl code that is executed on each loop.

OPTIONS

- [-nofolder](#)
- [-path](#)

-nofolder

-nofolder If specified, then the tcl_script will not be called for Folder type objects in the result_list.

-path

-path The "name" property on each loop is usually just the "name" property for the object. However, if this option is specified, and a recursive "contents" was performed, then the "name" property is the relative path to each object. Normally, you would run "contents" with the -path or -fullpath option, in which case the "name" property contains an appropriate relative or full path. If you did not do that, then passing the "-path" option to contents-foreach will mean that the "name" property contains the relative path for each item, thus allowing you to differentiate between items with the same name in different folders.

SEE ALSO

contents

EXAMPLE

This example shows using processing the compare-foreach command to process the results from a compare command.

```
set result_list [contents -selector RelA:Latest -version -rec -format list]

contents-foreach obj $result_list -nofolder { puts "Object: $obj(name),
version: $obj(version)" }
```

datasheet

datasheet Command

NAME

datasheet - Displays an object's data sheet

DESCRIPTION

This command displays the data sheet for the specified object. The information that is displayed depends on the object type. For example, the data sheet for a file in your working folder contains information such as lock status, modification status, version number, and associated tags.

DesignSync displays the information in a browser window. On Windows platforms your system's default browser is used, and the data sheet is displayed in an existing browser window if one is available. On UNIX, the browser is determined by a registry setting in one of the DesignSync client registry files. You can override the installation- or site-wide default browser using the SyncAdmin tool. On UNIX, DesignSync invokes a new browser to display the data sheet even if you have a browser already running.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

datasheet <object>

OPTIONS

None.

RETURN VALUE

None.

EXAMPLES

This example displays the data sheet for top.v.

```
dss> scd Projects/Sportster/top
dss> datasheet top.v
```

This example displays the data sheet for the top.v vault.

```
stcl> datasheet "sync://holzt:2647/Projects/Sportster/top/top.v;"
```

This example displays the data sheet for version 1.2 of top.v.

```
stcl> datasheet [url vault top.v]1.2
```

diff

diff Command

NAME

diff - Compares files and versions of files

DESCRIPTION

- [Notes for Collection Objects](#)

The file/version comparison facility has three components:

- The DesignSync 'diff' command, which is documented here.
- The DesignSync GUI Tools->Compare Files commands. Performing comparisons from the GUI simplifies the selection of files and versions for comparison, and also provides shortcuts to perform the most common types of comparisons. The GUI commands

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ultimately invoke the DesignSync diff command. See DesignSync Help for details on the Compare Files commands.

- The graphical interface. DesignSync provides the capability to display diff results in a graphical diff client.

Note: The graphical interface client does not directly understand DesignSync versions; you must invoke it from the DesignSync 'diff' command using the -gui option, or the DesignSync GUI Advanced Comparison dialog in order to compare versions.

Notes for Collection Objects

The built-in diff command supports comparing cell view members from different versions of a cell view, or comparing local modification of a cell view to different server versions of the cell view.

Important: When specifying collection objects as the files to compare, you must use the -member option to specify the relative path of the cell view. This provides the location on the server of the cell view within the collection and indicates to DesignSync that the object is a cell view within a collection. To find the relative path of a cell view, use the url members command with the -relative option.

SYNOPSIS

```
diff [-ancestor <commonAncestorFile>] [-binary] [-case] [-embed]
    [-kk] [-member <cellview_path>] [-output <resultFile>]
    [-standard | -unified | -syncdiff | -annotate | -gui]
    [-version <id>] [-white]
    {[-file1] <fileA>} {[-file2] <fileB>} [--]
```

ARGUMENTS

- [File Object](#)

File Object

<file> You can specify one or two files as simple filenames, relative pathnames, absolute pathnames, collection cell view versions, or URLs to DesignSync objects. You can also specify versions by appending the filename with a semicolon (;) and a version number or tag name (including Latest and Orig).

Note: When in stcl/stclc mode, you must surround filenames that have spaces or version-extended names with double quotes, for example:

"foo.bar;1.5" The file argument can be specified with or without the `-file/-file2` options. You can use version-extended filenames (see Description section).

OPTIONS

- [-ancestor](#)
- [-annotate](#)
- [-binary](#)
- [-case](#)
- [-embed](#)
- [-file1](#)
- [-file2](#)
- [-gui](#)
- [-kk](#)
- [-member](#)
- [-output](#)
- [-standard](#)
- [-syncdiff](#)
- [-unified](#)
- [-version](#)
- [-white](#)
- `--`

-ancestor

`-ancestor <fn>` Specifies the common ancestor for a three-way comparison. You can use version-extended filenames (see Description section).

For example, two users fetch the same version of a file, and each makes changes to their copy. By specifying the original unmodified version as the common ancestor, the first user's modified copy as fileA and the second user's modified copy as fileB, the diff operation can indicate who made which changes and whether the changes would conflict when merged.

Specify an asterisk as the ancestor (`-ancestor *`) to have diff automatically calculate the closest common ancestor of the two file versions (using `'url resolveancestor'`). This option is always a file version.

Note: Only `-syncdiff` and `-annotate` output formats support three-way comparisons.

-annotate

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-annotate Uses a column format to display the entire comparison text. The first column displays the line number in fileA. The second column displays the line number in fileB. The third column indicates whether the line is changed and what has changed. The final column provides the text of the line indicated.

This option is mutually exclusive with the `-gui`, `-standard`, `-syncdiff`, and `-unified` options.

-binary

-binary Performs a fast comparison of the files, reporting only whether the files are identical or not. Because differences between binary files cannot be reported, a fast binary comparison is automatically performed if 'diff' detects that either of the files being compared is a binary file. Note that the `-kk`, `-embed`, `-white`, and `-case` diff options are ignored when performing a binary comparison.

-case

-case Ignore character case differences.

-embed

-embed Ignore differences in the amount of whitespace within a line. For example, using `-embed`, there is no difference between a sentence with one space between each word and the same sentence with three spaces between each word.

-file1

-file1 <fileA> Specifies the first file or version to be compared. In most cases, this should be the older version of the two being compared. For more information about what can be specified for `<fileA>`, see the `<file>` argument. If you do not specify the `fileB` argument, then `fileA` is compared to its Original (`;Orig`) version, which is the version that you checked out prior to making local modifications.

Note: The `-file1` and `-file2` switches are optional; you can specify `fileA` and `fileB` without the switches. However, you must either specify both switches or omit both switches. The following syntax is invalid:

```
diff -file1 a.txt b.txt
```

-file2

`-file2 <fileB>` Specifies the second file or version to be compared. For more information about what can be specified for `<fileA>`, see the `<file>` argument. If omitted, `fileB` is assumed to be the Original (`;Orig`) version of `fileA`.

`FileB` should generally be the version with the more recent changes. If `fileB` is older than `fileA`, then the comparison succeeds, but the results are the inverse of the actual modifications. For example, if you add a line to the newer file, but specify the newer file as `fileA`, then `diff` reports that this line was deleted from `fileB` rather than indicating that the line was added to `fileA`. In some cases, this inverse report is useful; for example, when backing out a set of changes.

-gui

`-gui` Invokes the defined graphical Diff utility to display the comparison results. DesignSync provides a graphical utility, or, if you have a preferred diff tool, you may configure your system to use that tool.

For information configuring DesignSync to recognize your graphical Diff utility, see the ENOVIA DesignSync Administrator's Guide.

Note: The `-kk`, `-embed`, `-white`, and `-case` diff options are controlled by registry keys for the graphical Diff utilities. The registry key settings override any command line options specified. The `-output` option is ignored.

This option is mutually exclusive with the `-annotate`, `-standard`, `-syncdiff`, and `-unified` options.

-kk

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-kk Stands for "keep keywords", ignores differences in RCE keyword values by hiding the keyword values (collapsing the keywords) prior to comparing the files. RCE keywords are tokens, such as \$Revision\$, \$Author\$, and \$Log\$ (see Notes), that you can add to your files to provide revision information, such as revision number, author, and comment log.

For example, if the first lines of fileA and fileB are:

```
fileA: $Revision: 1.1 $
fileB: $Revision: 1.3 $
```

then diff reports the difference unless you specify **-kk**, in which case diff collapses each line to: \$Revision\$.

Differences in keyword usage and placement are always reported. For example:

```
fileA: $Revision: 1.1 $
fileB: $Author: Goss $
```

diff reports the difference irrespective of whether you specify **-kk** because the keywords themselves, not just the keyword values, are different.

Notes:

- \$Log\$, when expanded, permanently adds log information to your files. The **-kk** option does not hide these log messages prior to performing a comparison. Diff programs such as tkdiff may flag differences or conflicts (if log information has been edited by hand) if you use \$Log\$ in your files.
- The diff command honors the \$KeysEnd\$ keyword; any expanded keywords after \$KeysEnd\$ are compared fully and literally.

-member

-member Specifies the relative path of the collection object `<collection_path>` member. This option is used to indicate to the system that the files specified are within a collection and to provide the relative path to the cell view.

Note: If you have specified a cell view within a collection as the file argument, this option is required.

-output

-output <fn> Specifies an output file for the diff results. By default, the results are displayed in the shell window. The **-output** option is ignored if you specify **-gui**.

Caution: Any existing file of the same name is overwritten without warning.

-standard

-standard Displays differences in standard Unix diff format.

This option is mutually exclusive with the **-annotate**, **-gui**, **-syncdiff**, and **-unified** options.

-syncdiff

-syncdiff Displays the changed text with margin annotations indicating the changes.

This option is mutually exclusive with the **-annotate**, **-guide**, **-standard**, and **-unified** options.

-unified

-unified Displays differences in unified diff format.

This option is mutually exclusive with the **-annotate**, **-gui**, **-standard**, and **-syncdiff** options.

-version

-version <selector> Specifies another version of fileA to compare to fileA. If the selector resolves to a branch, the latest version on that branch is used for the comparison.

When using the **-version** option, you only need to specify fileA for comparison. The system implicitly processes the two specified versions of fileA without requiring you to type one version as fileB.

-white

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`-white` Ignore leading and trailing whitespace. For example, using `-white`, there is no difference between UNIX and PC line endings, or different indentation levels, as long as the rest of the line content matches.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

SEE ALSO

`DesSync`, `url resolveancestor`, `keywords`

EXAMPLES

- [Examples of Comparing a File against the Original Version](#)
- [Examples of Comparing a File Against the Latest Server Version](#)
- [Example of Comparing a File Against A Specified Version](#)
- [Example of Comparing Original File Against Latest Server Version](#)
- [Example of Showing Conflicts in Your Local Version](#)
- [Examples of Comparing Collection Cell View Versions](#)
- [Example of Comparing Against the Local Cell View Version](#)

Examples of Comparing a File against the Original Version

Example showing compare of a working copy of a file against the original version to see what changes you have made. All of the following specifications are equivalent:

```
dss> diff foo.bar
dss> diff "foo.bar;Orig" foo.bar
dss> diff -v Orig foo.bar
```

Examples of Comparing a File Against the Latest Server Version

Example showing compare of a working copy against the latest version on the same branch, using unified diff format:

```
dss> diff -unified foo.bar "foo.bar;Latest"
dss> diff -unified -version Latest foo.bar
```

Example of Comparing a File Against A Specified Version

Example showing compare of a working copy of a file on the Trunk branch against the latest version on the "rel30" branch:

```
dss> ls -report H samp.asm
  Branch Tags  Name
  -----  ----
           Trunk  samp.asm
dss> diff -v rel30: samp.asm
```

Example of Comparing Original File Against Latest Server Version

This example shows how the latest server version of the file differs from the original version.

```
dss> diff "foo.bar;Orig" "foo.bar;Latest"
```

Example of Showing Conflicts in Your Local Version

This example shows how to find conflicts between your locally modified copy and the latest checked-in version:

```
dss> diff -ancestor "foo.bar;Orig" foo.bar "foo.bar;Latest"
```

or equivalently, use the "*" notation to have "diff" calculate the common ancestor automatically:

```
dss> diff -ancestor * foo.bar "foo.bar;Latest"
```

Examples of Comparing Collection Cell View Versions

These examples show different ways of specifying the same comparison of member file from different versions of a cell view version.

```
stcl> diff -member verilog/verilog.v [url vault verilog.sync.cds]1.2 \
[url vault verilog.sync.cds]1.3
```

```
stcl> diff -member verilog/verilog.v -version 1.2 \
{verilog.sync.cds;1.3}
```

```
stcl> diff -member verilog/verilog.v {verilog.sync.cds;1.2} \
{verilog.sync.cds;1.3}
```

Example of Comparing Against the Local Cell View Version

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This example shows comparing the local version of a member with a specified cell view version.

```
stcl> diff -member verilog/verilog.v {verilog.sync.cds;1.3} \
verilog.sync.cds
```

help

help Command

NAME

help - Provides help on the Synchronicity command set

DESCRIPTION

This command provides a variety of help related functions, displaying the information in the output window. Help is available for:

- All DesignSync command-line commands
- DesignSync topics such as using wildcards or running server-side scripts
- ProjectSync command-line commands

For compound commands such as the 'url' and 'note' commands, surround the command with double quotes and put exactly one space between the two keywords of the command (see Example section).

Every DesignSync command has '-help', '-?', and '-usage' options that you can specify to get full or brief help.

Note:

You can access other DesignSync and related products and integrations documentation from the DesignSync Documentation Main Menu:

- (Windows only) Select "DesignSync Documentation" from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems DesignSync <version>->
DesignSync Documentation
```

- Enter the following URL from your Web browser:

```
http://<host>:<port>/syncinc/doc/index.html
```

where <host> and <port> are the SyncServer host and port. Use

this server-based invocation when you are not on the same local area network (LAN) as the Synchronicity installation.

- Enter the following URL from your Web browser:

```
file:/// $SYNC_DIR/share/content/doc/index.html
```

where \$SYNC_DIR is the location of the Synchronicity installation. Specify the value of SYNC_DIR, not the variable itself. Use this invocation when you are on the same LAN as the Synchronicity installation. This local invocation may be faster than the server-based invocation, does not tie up a server process, and can be used even when the SyncServer is unavailable.

SYNOPSIS

```
help [-all] [-brief] [-output <file>] [-summary] [<topic> [...]]
```

OPTIONS

- [-all](#)
- [-brief](#)
- [-output](#)
- [-summary](#)

-all

-all Displays help information for all available commands and topics. When used with the -brief option, displays only synopsis information. When used without any other options or arguments, displays a list of available commands (same as specifying the help command without any options or specifying the -summary option).

Note: When you use the -all option and specify one or more topic names, the entire help file (full documentation on all commands and topics) is displayed. Because of the size of the help file, this operation may take a while to complete.

-brief

-brief Displays the synopsis information for each specified topic. The synopsis for individual DesignSync commands is typically the command usage, while for

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other topics, it is a brief topic summary. If you do not specify one or more topics, brief help is displayed for all commands.

-output

`-output <file>` This option is used to write help topics to a text file instead of displaying them. When used with the `-all` option, a file is created containing all the available topics. This can be combined with the `-brief` option to provide a full synopsis of all topics.

Caution: If the file specified already exists, its contents will be erased.

-summary

`-summary` Displays the list of available help topics. This option is the same as specifying the help command without any options or arguments.

RETURN VALUE

none

EXAMPLES

The following example returns brief (synopsis) information for the 'ci' and 'co' commands:

```
dss> help -brief ci co
```

The following example returns help information for the 'url vault' command. The double quotes are required, and there must be exactly one space between 'url' and 'vault':

```
dss> help "url vault"
```

You can get the same help information by using the command's `-help` or `-?` option:

```
dss> url vault -help
```

or

```
dss> url vault -?
```

locate

locate Command

NAME

locate - Finds a specified object on the search paths

DESCRIPTION

This command searches the Synchronicity paths for a specified object, either a file or directory. You can find either the first occurrence of the object (the default) or all occurrences of the object.

On the server side, the following paths are searched in this order:

```
<SYNC_CUSTOM_DIR>/servers/<host>/<port>
<SYNC_CUSTOM_DIR>/site
<SYNC_CUSTOM_DIR>/enterprise
<SYNC_DIR>
```

On the client side, the following paths are searched in this order:

```
<SYNC_USER_CFGDIR>
<SYNC_SITE_CUSTOM>
<SYNC_ENT_CUSTOM>
<SYNC_DIR>
```

The environment variables match the following paths:

Variable name:	Path:
-----	-----
SYNC_DIR	Synchronicity installation directory
SYNC_CUSTOM_DIR	<SYNC_DIR>/custom.
SYNC_SITE_CUSTOM	<SYNC_CUSTOM_DIR>/site.
SYNC_ENT_CUSTOM	<SYNC_CUSTOM_DIR>/enterprise
SYNC_USER_CFGDIR	User-specific customization files (UNIX default <HOME>/synchronicity) (Windows default %AppData%\Synchronicity)

You cannot specify path names containing the ".." relative path notation. If you try to include this notation, the locate command throws an exception.

On the client side, you must run this command in stcl/stclc mode.

SYNOPSIS

```
locate [-env | -path | -url] [-first | -all] [-nothrow] [-reverse]
      [--] <ObjectName>
```

ARGUMENTS

- [Object Name](#)

Object Name

ObjectName The name of the file or directory you want to locate.

OPTIONS

- [-all](#)
- [-env](#)
- [-first](#)
- [-nothrow](#)
- [-path](#)
- [-reverse](#)
- [-url](#)
- [==](#)

-all

-all Returns all occurrences of ObjectName in the search paths. The default behavior is -first.

-env

-env Returns environment variables in place of literal path names. For example, instead of returning:

```
/home/john/syncinc/custom/site/share/tcl/test.txt
```

this command returns:

```
<SYNC_CUSTOM_DIR>/site/share/tcl/test.txt
```

The -env, -path, and -url options are mutually exclusive; -path is the default.

-first

-first Returns the first occurrence of ObjectName in the search paths. This behavior is the default.

-nothrow

-nothrow If the object is not found on the search paths, returns an empty string. Without this option, the locate file command throws an exception when the search object is not found.

-path

-path Returns the full file system path of the object. The -env, -path, and -url options are mutually exclusive; -path is the default.

-reverse

-reverse When used with the -all option, returns the path in reverse search order. You get an error if you try to use this option without the -all option.

-url

-url Returns the server URL, prepended by:

- Server area: /syncserver
- Custom area: /syncsite
- Enterprise area: /syncent
- Installation area: /syncinc

If you use the server-side -url option, specify the path to the search object relative to the one of the share/content directories:

```
<SYNC_CUSTOM_DIR>/servers/<host>/<port>/share/content
<SYNC_CUSTOM_DIR>/site/share/content
<SYNC_CUSTOM_DIR>/enterprise/share/content
<SYNC_DIR>/share/content
```

This option is only available when run from the server. The -env, -path, and -url options are mutually exclusive; -path is the default.

--

-- Indicates that the command should stop looking for command options. Use this option when you specify an object whose name begins with a

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hyphen (-).

RETURN VALUE

When you use the `-first` option, returns a string indicating where the specified object was first located in the search path. When you use the `-all` option, returns a list of the places where the specified object was found in the search paths.

The format of the path returned depends on the options you use.

EXAMPLES

- [Examples of using locate](#)
- [Example of Using -nothrow with locate](#)

Examples of using locate

The following example searches for a file called `test.txt`. A user has put copies of the file in two of the directories on the search path (`<SYNC_CUSTOM_DIR>/site/test.txt` and `<SYNC_DIR>/test.txt`).

The command

```
locate -env test.txt
```

returns the first location found on the search path:

```
`${SYNC_CUSTOM_DIR}/site/test.txt
```

When used with the `-all` option, the command finds the file in two of the directories on the search path.

```
{`${SYNC_CUSTOM_DIR}/site/test.txt} {`${SYNC_DIR}/test.txt}
```

In both cases, the `-env` option causes the paths to be displayed using environment variables.

Example of Using -nothrow with locate

The following example uses the same problem as the previous example, but includes the use of the `-nothrow` option to avoid throwing an exception if the file is not found. Without the `-nothrow` option, you need to write Tcl code to deal with exceptions. For example:

```
#Trying to find file
if [catch {set filename [locate share/test.txt]} msg] {
    puts "The file was not found on the search path. The result is $msg"
```

```
}
```

The `-nothrow` option lets you write simpler and less error-prone code that gets the same result:

```
#Trying to find file
set filename [locate -nothrow share/tcl/test.txt]
if {$filename == ""} {
    puts "The file was not found on the search path.\n"
}
```

ls

ls Command

NAME

```
ls                - Lists information about the specified objects
```

DESCRIPTION

- [Notes for Files-Based Objects](#)
- [Report Options](#)
- [Report Data Keys Table](#)
- [Status Values for File-Based Objects](#)

This command lists information about the specified objects. You typically specify objects such as folders, files, and collection objects such as Cadence cell views and CTP collections.

Note: The `ls` command reports revision control information about a collection member as if it were the collection itself. In other words, if a collection is locked and has version 1.1, then that information appears in the `ls` output for all of the collection's members. The only exception is when the collection is modified; in this case the `ls` command shows which members are modified or new.

With the `ls` command you can also specify server-side DesignSync objects such as vaults, branches, and versions; however, the `'ls'` command is optimized to give you quick information about workspace objects. By default, `'ls'` reports information accessed only from local metadata, although you can choose to view server information as well. (See "Report Options" below for details). You cannot view server-side module objects with `ls`.

If you specify a container object -- an object that contains other

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objects, such as folders and vaults -- 'ls' returns information about the container object's contents.

You can use wildcards to specify objects to be listed. If you do not specify an argument or the -selected option, then the default is to list the contents of the current folder.

All mirror directories can be treated in the same way as your DesignSync work areas.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Notes for Files-Based Objects

To list objects in vaults according to criteria such as a configuration name, use the 'contents' command. Use the 'compare' command to compare objects in vaults, configurations, and workspaces.

Report Options

The -report option lets you specify what information 'ls' returns. You can specify one of the predefined modes (silent, brief, normal, verbose, status), or you can specify one or more data keys to specify exactly the information you want. For example, if you want to see objects' names, fetched times, and last-modified times, specify '-report NFM'.

Note that:

- All data keys must be uppercase.
- The object's name is always included in the listing whether or not you specify the 'N' key.
- If you specify an unused key (such as 'E' or 'Q'), it is ignored.
- Some keys return values on a single line, while others can span multiple lines. Single-line values are always displayed first, followed by multi-line output.

Note: You can add or remove keys from the predefined modes using the + and - keys with the report data keys listed below. For example, report -normal specifies the MDVLN data keys. If instead of specifying D, workspace status, you chose to specify S, status, you could type 'ls -report normal-D+S' (or '-report MSVLN').

Tip: Because report -normal is the default, 'ls -report normal-D+S' could also be specified as 'ls -report -D+S'; the normal option is implied.

The predefined modes are defined as follows:

Mode	Data Key	Definition
brief	N	
normal	MDVLN	
status	MSRUN	
verbose	OMSRUNCTAX	
silent	!	

The default behavior if `-report` is not specified is `'-report normal'`. The `'normal'` data keys (MDVLN) generate a quick listing because these keys do not access the server vault. To view more detailed status including revision control status and the username of the locker, specify `'-report status'`. The `'status'` report accesses the server vault and therefore is typically not as fast as the `'normal'` report.

Note: The `'-report normal'` command shows the fetched version rather than the upcoming version for locked or auto-branched objects. Use `'-report status'` which includes the `'R'` report key to show the upcoming version instead.

Report Data Keys Table

The following table lists the `-report` data keys. The table indicates whether the data key accesses the server vault or gathers the data locally and thus can provide a quicker listing. The table also provides the property name corresponding to each data key.

Data Key	Property Name	From Vault?	# of Lines	Description
!	N/A	N/A	N/A	Silent output. Use the <code>'!'</code> key with no other data keys to suppress the listing, although errors are still displayed. If the <code>'!'</code> key is used with other data keys, it is ignored. This key is useful with the <code>-addselect</code> option when you are only interested in defining your select list.
A	branchtags	Yes	Multi	Branch tags. Use <code>'H'</code> for single-line format.
C	comments	Yes	Multi	Original and checkout log comments. Original Log comments include: <ul style="list-style-type: none"> o author o creation time of the current version o check-in comments, if any. Checkout Log comments, if any, include: <ul style="list-style-type: none"> o check-out comments o changes made from the Revision Log field on the

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				DesignSync GUI (File=>Properties=>Revision Control).
D	wsstatus	No	Single	<p>Workspace status. These options are explained more fully in the status values table. Values include:</p> <ul style="list-style-type: none"> o Absent - for objects fetched but no longer present. o Locally Modified - for objects that have been modified in the workspace. o Moved - workspace object has moved. o Null - for objects in the same state as when the directory was last updated. o Unresolved Conflicts <p>Workspace status is a subset of the 'S' revision control status key, displaying status information available from the workspace, however some status information is not reported by the 'S' report option, so you might need to specify both 'S' and 'D' for complete status.</p>
F	fetchtime	No	Single	<p>Fetch time. Note: If you used 'populate -mirror' to fetch the object to your work area, then the fetchtime for the object is listed as 0.</p>
G	tags	Yes	Single	Version tags. Use 'T' for multi-line format.
H	branchtags	Yes	Single	Branch tags. Use 'A' for multi-line format.
I	uid	No	Single	Object UID.
L	fetchstate	No	Single	<p>Fetch state. Options include:</p> <ul style="list-style-type: none"> o Copy o Lock o Mirror o Reference - for unlocked references o Cache o Checkin Excluded - unmanaged object, excluded by exclude file. o Null (" ")- for unmanaged or non-versionable objects. <p>The fetched state displays with header "Type" in the report table. Note: The fetched state for Locked references is "Lock", not "Reference". Use the 'V' mode, which displays "Refers to" for</p>

				references, with 'L' to determine whether an object is a locked reference.
M	mtime	No	Single	Last-modified time. For a listing of vault locks, shows lock time. For references, this field is empty (" ").
N	name	No	Single	Name and, if -path or -fullpath is specified, the path. Note that objects' names are displayed even when 'N' is not specified.
O	type	No	Single	Object Type: <ul style="list-style-type: none"> o File, o Folder o Project o Absent File (a locked reference or deleted file) o Referenced File o Link to File o Link to Folder o Cached File o Mirrored File o Vendor-specific object types such as Cadence and Synopsys libraries, cells, and cell views, or CTP collection object types. For vault objects, types include: <ul style="list-style-type: none"> o File o Version o Branch Point Version. For non-versionable objects: <ul style="list-style-type: none"> o Non-versionable. Note: When running the ls-foreach function, the property type name used is otype.
P	selector	No	Single	Persistent selector list (as defined by the "setselector" command, or "Trunk" by default).
Q	csum	No	Single	The checksum of the object. If the object is not in source control, the checksum is 0.
R	upcoming	Yes	Single	Current version, and upcoming version if object is locked or auto-branched. For a locked reference, 'R' shows the current version and upcoming version to which it refers.
S	status	Yes	Single	Server status. These options are explained more fully in the status values table. Values include: <ul style="list-style-type: none"> o Up-to-date o Needs Merge o Needs Update o Absent - indicates a locked reference or a file deleted from the operating system o Unknown.

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Option	Field	Required	Count	Description
T	tags	Yes	Multi	The status is preceded by [Retired] if the current branch is retired. See the Status Value table below for descriptions of these values. Version tags. Use 'G' for single-line format.
U	user	Yes	Single	Username of the locker, or empty if the object is not locked. If the object is locked in this location, the report displays an asterisk (*) after the username.
V	version	No	Single	<p>Fetches version. Display options include:</p> <ul style="list-style-type: none"> o Version number o Unmanaged - for an object with no local metadata. For example, recreated files display as Unmanaged, because their metadata was removed by a previous rmfile. o Null ("") - for non-versionable objects. <p>Note: This does not show the upcoming version. To show the upcoming version for an object, use the 'R' option.</p>
W	objtype	No	Single	<p>Web object types include:</p> <ul style="list-style-type: none"> o Folder, o File, o Project, o Link to Folder. <p>For vault web objects, object types include:</p> <ul style="list-style-type: none"> o File, o Version o Branch Point Version.
X	owner	No	Single	<p>Owner of the object.</p> <p>For collections - the collection to which a collection member belongs.</p> <p>For a folder - all the modules that own the folder.</p>
Y	memberof	No	Single	This field is blank.
Z	size	No	Single	Size of the object in bytes. For collection objects, this option displays either the total number of member files in the collection, or the size of the objects in bytes. For more information on choosing the display value for Z, see the SyncAdmin help file.
	error	Yes	Multi	Error message. If ls is unable to fetch data for an object, the 'error' property automatically displays with the error.

Status Values for File-Based Objects

The following table describes the status values. Server status values are specified using the 'S' key or the '-report status' option. Workspace status values are specified using the '-D' key, or the '-report normal' option. For ease of use, this list is in alphabetical order.

Status Value	Description
Added By merge, Needs Checkin	<p>Indicates that the file was introduced to the work area by a merge or overlay operation and does not exist on the current branch. These objects do not show as modified by the ls command.</p> <p>Note: If a file was added by merge, but is no longer present in the workspace, it will display with a status of "Added by merge, Needs Checkin", not a status of "Absent".</p>
Absent	<p>Indicates an object that is unexpectedly absent from the workspace. Typically an object is listed as "Absent" if it was deleted from the workspace using operating system commands, leaving behind the local metadata.</p> <p>Note: If a file was added by merge, but is no longer present in the workspace, it will display with a status of "Added by merge, Needs Checkin", not a status of "Absent".</p>
Locally Modified	Indicates that the file has been edited since it was fetched and a more recent version has not been checked into the branch, or that an add has been performed on a module member that has not been checked into the module.
Needs Merge [<change>]	Indicates that a file has been locally modified and the version is not correct for the current selector.
Needs Update [<change>]	Indicates that you have an incorrect version on the given branch.
Remove for Merge	<p>Indicates that an object present in the workspace was removed, being retired on the branch being merged into the workspace. To remove the file on the server in the current branch, remove this file using the retire command. This is a workspace status value.</p> <p>Note: Objects that were removed with rmvault are no longer present on the DesignSync server and do not show up in any ls query.</p>
Unknown	Indicates that the version of the file in the workspace cannot be determined from the local metadata.
Unresolved Conflicts	Indicates that a merge of version contents resulted in conflicts. Any object marked as

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	containing unresolved conflicts is considered locally modified.
Up-to-date	Indicates that the file is currently the correct version for the selector.
[Retired]	Indicates that the current branch is retired. This is not a state of its own; rather it is a prefix to one of the other states. For example, the status column might contain: [Retired] Locally Modified Because the [Retired] status is a prefix to other status terms, sorting causes retired items to be grouped either at the beginning or end of the listing, independent of the items' local state. Note: Retired is not a valid state for module members.

SYNOPSIS

```
ls [-[no]addselect] [-[un]changed] [-exclude <string>]
[-format list | text] [-[no]header] [-[un]locked] [-[un]modified]
[-[no]needsmerge [-branch <branch>]] [-[un]managed]
[-merged added|rename|remove|all|"]
[-output <file> | -stream <stream>] [-[no]path | -fullpath]
[-[no]recursive] [-report <mode>[+<mode>][-<mode>]]
[-[no]selected] [-[non]versionable] [-workspace | -vault>]
[-writableunlocked] [--] [<argument> [<argument>...]]
```

ARGUMENT

- [Server Folder](#)
- [Server Object](#)
- [DesignSync Object or Unmanaged Objects](#)

Server Folder

<server folder> Provides information about the specified object on the server, and if you specify the `-recursive` option, all subfolders. Specify the object with the sync URL in the format:
sync://<host>:<port>/<path>/<folder>

Server Object

<server object> Provides information about the specified object on the server. Specify the object with the sync

URL in the format:
 sync://<host>:<port>/<path>/<object>

DesignSync Object or Unmanaged Objects

<DesignSync object		Provides information about the specified
DesignSync folder		DesignSync object or folder. If you specify a
unmanaged object		folder, you can use the <code>-recursive</code> option to
unmanaged folder>		get information about all subfolders contained
		in the specified folder.

OPTIONS

- [-\[no\]addselect](#)
- [-branch](#)
- [-\[un\]changed](#)
- [-exclude](#)
- [-format](#)
- [-fullpath](#)
- [-\[no\]header](#)
- [-\[un\]locked](#)
- [-\[un\]managed](#)
- [-merged](#)
- [-\[un\]modified](#)
- [-\[no\]needsmerge](#)
- [-output](#)
- [-path](#)
- [-\[no\]recursive](#)
- [-report](#)
- [-\[no\]selected](#)
- [-stream](#)
- [-\[non\]versionable](#)
- [-workspace/-vault](#)
- [-writeableunlocked](#)
- [--](#)

-[no]addselect

`-[no]addselect` Indicates whether objects matching the `ls` specification should be added to the select list.

`-noaddselect` does not add the objects displayed by `ls` to the select list. (Default)

`-addselect` adds the objects that match your `'ls'` specification to your select list. You can use

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this option in conjunction with '-report !' to suppress 'ls' output if you only want to update your select list.

-branch

`-branch <branch>` Use the `-branch` option with the `-needsmerge` or `-noneedsmerge` option to compare objects against the specified branch rather than against the current branch.

Specifying the `-branch` option without the `-needsmerge` or `-noneedsmerge` option generates an error. Specifying `-branch` with `-changed` or `-unchanged` generates an error, as the `-changed` option only compares objects against the current branch. The `-branch` option accepts a branch or version tag or a branch numeric. It does not accept a selector or selector list. If `<branch>` resolves to a version, the branch of that version is used for the comparison.

-[un]changed

`-[un]changed` Determines whether to show only objects that are identical (up-to-date) in both the vault and in the workspace, or only objects with different versions in the vault and the workspace. Objects can have different version in the vault or workspace if local modifications are made or if there is a newer version on the server than the last version fetched.

`-unchanged` shows only objects that are up-to-date.

`-changed` shows only objects that are not up-to-date. An object is considered changed if it is locally modified, if there is a newer version in the vault, or if there's a structural change to a module, such as moved or removed module members. The `-changed` option is a combination of the `-unmanaged` and `-modified` options and the "Needs Update" state. To show objects that are locally modified without checking whether there are newer versions in the vault, use the (faster) `-modified` option. Unmanaged objects or module members that have been added, but not checked in are always considered changed.

Specifying both `-changed` and `-unchanged` is equivalent to specifying neither option: `'ls'`

displays both changed and unchanged objects. If `-changed` is specified with either `-modified` or `-needsmerge` or `-unchanged` is specified with either `-unmodified` or `-needsmerge`, only the `-[un]changed` option is processed, because the changes include both merge information and modified information. If `-changed` is specified with either `-unmodified` or `-needsmerge`, or `-unchanged` is specified with either `-modified` or `-needsmerge`, `ls` returns an error, as these options are mutually exclusive.

The `-[un]changed` options only apply to workspaces. They are silently ignored for `'ls'` of vault objects.

-exclude

`-exclude <string>` Specifies a glob-style expression to exclude matching object names from the listing. The string you specify must match the name of the object as it would have appeared in the listing. Generally, you can specify the leaf name of the objects. If you use the `-fullpath` option, you must specify a glob expression that matches the full path, for example, `file:///home/karen/Projects/Asic/test.v`. If you use the `-path` option, you must specify a glob expression that matches the relative path, for example, `../top*`.

Important: The `exclude` option is applied after the `-filter` option and is used to further refine the filter.

By default, the `'ls'` command does not exclude the objects in the global exclude lists (set using `Tools->Options->General->Exclude Lists` or using `SyncAdmin:General->Exclude Lists`). To exclude these objects from an `'ls'` listing, apply the `-exclude` option with a null string:

```
ls -exclude ""
```

The objects in the global exclude lists are appended to the `'ls'` exclude list if you exclude other values:

```
ls -exclude "README.txt"
```

-format

`-format` Specifies whether the format of the `'ls'` output should be a Tcl list or formatted text:

`list` Display a list with the following format:

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```
{
  name <name>
  type file | folder | version | branch
  props <prop_list>
  objects <object_list>
}
```

For a list of properties, see the "Report Options" table above. Container objects, including folders and branch-point versions, have an 'objects' list containing their subcomponents. The list is the return value of the 'ls' command and is echoed to the screen by the dss/stcl shells. If '-format list' is used with the '-output' or '-stream' option, a formatted list is generated in the file or stream.

The ls command does not operate on Module branches or versions.

To process the results, use the ls-foreach function.

text Display a text table with headers and columns. (Default) Objects shown in alphabetical order. If 'format text' is used, 'ls' has no return value, but 'ls' prints the text table to the screen.

Notes:

- o If an error occurs while accessing an object's vault data, the text output prints an error message preceding the object. For list output, the message precedes the list and the object's property list includes an 'error' property containing the error message. In both cases, the object's revision control status is 'Unknown'.
- o If '-format' is used with '-report silent' or '-report !', the silent option overrides the '-format' option and the list or text output is suppressed.
- o For recursive listings, if multiple objects have the same leaf name, use the -path or -fullpath option to differentiate between these objects.

-fullpath

-fullpath

Display object names as full URLs. By default, only the object name is displayed. The -path and -fullpath options are mutually exclusive.

-[no]header

-[no]header Indicates whether the command should display with field headers before each column in the output.

-noheader does not display the fielder header.

-header displays a field header at the top of the 'ls' output. (Default)

-[un]locked

-[un]locked
 [-workspace|
 -vault]

Determines whether to display only objects that are locked or objects that are not locked.

Specifying the -workspace or -vault option allows you to further restrict the ls output to searching in only the local workspace or searching only on the server. Specifying -workspace provides a faster response to time because the 'ls' command accesses only the local metadata and not the server data.

-unlocked shows only objects that are currently unlocked.

-locked shows only objects that are currently locked by any user. You can differentiate between objects locked by you and others by noting the fetched state (shown with header "Type"). If you have a lock on the object, the fetched state is "Lock".

Specifying both -locked and -unlocked is equivalent to specifying neither option: 'ls' displays both locked and unlocked objects.

-[un]managed

-[un]managed

Determines whether to filter the ls output to show either objects under revision control or objects not under revision control. This option checks the workspace metadata. If the file has been removed on the server, it still displays as managed if the workspace has not been updated.

-unmanaged shows only objects that are not under

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revision control.

`-managed` show only objects that are under revision control.

Specifying both `-managed` and `-unmanaged` is equivalent to specifying neither option: `'ls'` displays both managed and unmanaged objects.

This option only applies to DesignSync file-based objects in workspaces. The option is silently ignored for `'ls'` of vault file-based objects.

Note: The url registered command queries the server to determine if the object is managed.

-merged

`-merged` `added|`
`rename|remove`
`all|""`

Determines whether to display only objects that have been modified as the result of a merge into the workspace. You must specify a modifier to `-merged`. The modifiers behave as follows:

- o `added` - restricts the command output to only those objects added by the merge.
- o `rename` - restricts the command output to only those files that have a different natural path on the merged branch. These files need to be renamed in order to complete the merge.
- o `remove` - restricts the command output to only those objects that are not present on the merged branch.
- o `all` - includes all the objects specified by the `added`, `removed` and `renamed` modifiers.
- o `""` - removes the defaults set with the command default system for the `-merged` option.

-[un]modified

`-[un]modified`

Determines whether to show only objects that have been modified in the workspace, or only objects that have not been modified in the workspace. These options examine only the workspace for modifications. To compare the workspace against the server to determine whether or not the objects have been modified, use the `-[un]changed` options.

`-unmodified` shows only objects that are not modified in the workspace.

`-modified` show only objects that are modified in the workspace. Unmanaged objects are always considered locally modified.

Note: Objects that are "Absent" in the workspace are considered modified.

Specifying both `-modified` and `-unmodified` is equivalent to specifying neither option: `'ls'` displays both modified and unmodified objects. If `-changed` is specified with `-modified` or `-unchanged` is specified with `-unmodified`, the `-[un]modified` option is ignored, because is a subset of the `-[un]changed` option. If `-changed` is specified with `-unmodified`, or `-unchanged` is specified with `-modified`, `ls` returns an error, as these options are mutually exclusive.

This option only applies to workspaces. The option is silently ignored for `'ls'` of vault objects.

`-[no]needsmerge`

`-[no]needsmerge` [-branch <branch>] Determines whether to show only objects that require a merge or only objects that do not require a merge. By default, this command compares workspace files against server files in the same branch. To compare objects against another branch, specify the `-branch` option.

`-noneedsmerge` shows only objects that do not require a merge.

`-needsmerge` shows only objects that need merging.

Note: the `-needsmerge` option displays objects in which both the server and workspace version of an object indicate changes. A merge may not actually be possible, depending on the situation. Specifying both `-needsmerge` and `-noneedsmerge` is equivalent to specifying neither option: `'ls'` lists the objects that need to be merged and those that do not. If `-needsmerge` is specified with `-change` or `-noneedsmerge` is specified with `-unchanged`, the `-[no]needsmerge` option is ignored, because is a subset of the `-[un]changed` option. If `-needsmerge` is specified with `-changed`, or `-noneedsmerge` is specified with `-unchanged`, `ls` returns an error, as these options

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are mutually exclusive.

This option only applies to workspaces. The option is silently ignored for 'ls' of vault objects.

-output

`-output <file>` Prints results to named file. The named file is created or overwritten, but not appended to. To append, use the '`--stream`' option. The `-output` and `-stream` options are mutually exclusive.

-path

`-path` Include relative paths in object names. By default, only the object name is displayed. With `-path`, the path of the object relative to the directory specified as an argument during an 'ls `-recursive`' operation (not necessarily relative to the current directory) is displayed. The `-path` and `-fullpath` options are mutually exclusive.

-[no]recursive

`-[no]recursive` Indicates whether the `ls` command should operate on the specified argument or all subfolders in the argument's hierarchy.

`-norecursive` operates only on the specified argument. (Default)

`-recursive` operates on all subfolders in the specified argument's hierarchy.

If '`ls -recursive`' is invoked in a Cadence Cell folder or above, '`ls`' does not descend into the Cadence View folders, and so does not list member files, unless the following advanced registry key is set:
HKEY_CURRENT_USER\Software\Synchronicity\General\AllowRecursion\Cadence View Folder=dword:1.
See DesignSync Data Manager User's Guide: Advanced Registry Settings for details.

If the DesignSync site is configured for managed links and '`ls -recursive`' is invoked in a directory containing soft links, '`ls`' does not follow the links and instead lists only the

objects that are physically present within the directory structure. If the site is configured to treat links as copies of the linked files or directories, 'ls -recursive' does traverse the directory structure. For more information on managed symbolic links, see the SyncAdmin help.

Note: For recursive listings, if multiple objects have the same leaf name, use the -path or -fullpath option to differentiate between these objects.

-report

-report <mode>

Specifies what information about each object should be displayed. Available report modes are:

- o silent Displays no output (equivalent to '-report !').
- o brief Displays just the object name (equivalent to '-report N'). Because no vault information is needed, a brief listing is very fast.
- o normal Displays common fields that do not require server vault access (equivalent to '-report MDVLN'). This behavior is the default when -report is not specified.
- o verbose Displays most fields (equivalent to '-report OXMSRUNCTA').
- o status Displays status fields (equivalent to '-report MSRUN').
- o K[K...] Displays the fields corresponding to the data keys, where K is a data key listed in the Report Options table above.
- o +K[K...] Displays additional fields corresponding to the data keys specified. This is used to provide addition information when using a predefined mode such as 'brief' or 'normal'.
- o -K[K...] Removes from the display the fields corresponding to the data keys specified. This is used to reduce the amount of information returned when using a predefined mode such as 'brief' or 'normal'.

-[no]selected

-[no]selected

Indicates if the command should use the select list (see the 'select' command) or only the arguments specified on the command line.

-noselected indicates that the command should not

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use the select list. (Default) If `-noselected` is specified, but there are no arguments selected, the `ls` command operates on the current directory.

`-selected` indicates that the command should use the select list and any objects specified on the command line. If `-selected` is not specified, and there are no objects specified on the command line, the `ls` command operates on the current directory.

-stream

`-stream <stream>` Prints results to named Tcl stream. Depending on whether you open the stream using the Tcl 'open' command in write (w) or append (a) mode, you can overwrite or append to an existing file.
Note: The `-stream` option is only applicable in the `stcl` and `stclc` Tcl shells, not in the `dss` and `dssc` shells. The `-output` and `-stream` options are mutually exclusive.

-[non]versionable

`-[non]versionable` Determines whether to restrict the report returned to displaying only non-versionable and excluded objects or only objects that are versionable and included. If this option is not specified, all objects, versionable/non-versionable, excluded and included, are displayed. (Default) An object is excluded if it is unmanaged and matches a pattern in an applicable exclude file. Other non-versionable objects include objects that are members of a versioned collection, which cannot be managed separately.

`-[non]versionable` displays only the non-versionable and excluded objects

`-versionable` displays versionable objects only.

For more information on exclude files, see the DesignSync Data Manager User's Guide: Working with Exclude Files.

-workspace/-vault

`-workspace` | Determines whether to use only the workspace metadata or query only the vault (server) for the objects being displayed by the `ls` command.

`-vault`

`-workspace` shows only items that are locked or unlocked in the local workspace. (Default)

`-vault` shows only items present in the local workspace that are locked or unlocked in the vault.

Using the `-workspace` option provides faster results because it does not check the server for objects locked or unlocked outside of the specified workspace, however `-vault` can provide more complete results.

-writeableunlocked

`-writeableunlocked` Displays unlocked objects with write access in the workspace. Use `-writeableunlocked` to verify that you have locks on all editable objects, so that you do not accidentally edit an object already locked by another user.

This option only applies to workspaces. The option is silently ignored for `'ls'` of vault objects.

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

- o Empty string if `-format` value is text.
- o Tcl list if the `-format` value is list.
- o Empty string if `-output` or `-stream` is used with `-format`.

SEE ALSO

`ls-foreach`, `compare`, `compare-foreach`, `contents`, `contents-foreach`, `select`, `unselect`, `vhistory`, `command defaults`,

EXAMPLES

- [Example Showing the Contents of the Current Folder](#)
- [Example Showing the Contents of the Specified Folder](#)
- [Example Showing Objects that Need to be Merged](#)
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- [Examples Showing Writing to an Output File or TCL stream](#)
- [Example Showing Locked References](#)
- [Example Showing Collection List](#)

Example Showing the Contents of the Current Folder

List the contents of the current folder. By default, 'ls' reports data keys MDVLN -- last modified time, workspace status, fetched version, fetched state (shown as Type), and name. In this example, AddBlock is a directory. SubMod is an unlocked reference, whereas top.v is a locked reference.

```
stcl> ls

Directory of: file:///home/karen/Projects/Rel40

Time Stamp      WS Status  Version      Type      Name
-----
04/11/2003 10:13          Refers to: 1.1 Reference  AddBlock
04/11/2003 09:12 Locally    1.2.1.1      Copy      SubMod
                  Modified
04/10/2003 10:16          Refers to: 1.1 Lock       top.v
                  1.1          Copy       x.v
```

Example Showing the Contents of the Specified Folder

List only the specified file and the objects in the ABlk directory using absolute paths, and add the files to the select list:

```
dss> scd /home/Projects
```

```
dss> ls -addselect -fullpath top.v ABlk/*
Time Stamp      WS Status Version  Type  Name
-----
03/27/2003 11:12          1.1    Lock  file:///home/Projects/ABlk/x.v
03/27/2003 11:13          1.1    Copy  file:///home/Projects/top.v
```

Directory of: file:///home/Projects/ABlk/Add

```
Time Stamp      WS Status Version  Type  Name
-----
03/27/2003 11:12          1.1    Copy  file:///home/Projects/ \
ABlk/Add/Add.v
```

```
dss> select -show
file:///home/Projects/ABlk/x.v
file:///home/Projects/top.v
file:///home/Projects/ABlk/Add/Add.v
```

Example Showing Objects that Need to be Merged

List each object that needs to be merged with its version on the Dev branch:

```
stcl> scd ~/Projects/Rel40
stcl> ls -needsmerge -branch Dev
```

Directory of: file:///home/karen/Projects/Rel40

```
Time Stamp      WS Status  Version      Type      Name
-----
03/27/2003 13:20  Locally     1.3         Copy      test.v
                          Modified
```

Example Showing Objects that do not Need to be Merged

List each object that does not need to be merged with its version on the Dev branch:

```
stcl> ls -noneedsmerge -branch Dev
```

Directory of: file:///home/karen/Projects/Rel40

```
Time Stamp      WS Status  Version      Type      Name
-----
03/27/2003 11:13          1.1         Copy      top.v
```

Example Showing a Recursive Directory Listing

List the changed (not up-to-date) objects in the HTMLHelp folder and

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all subfolders, and display only the object names (brief format):

```
stcl> ls -recursive -changed -report brief HTMLHelp

Directory of: file:///home/karen/Projects/DesSync/HTMLHelp

Name
----
Customizing_History.htm
DSGetStart_GUI.htm
Editing_and_Organizing_Bookmarks.htm
Get_Tags_Versions.htm
Go_Menu.htm

Directory of: file:///home/karen/Projects/DesSync/HTMLHelp/PrintDoc

Name
----
file.bmp
unlock.bmp
```

Example Showing the ls Output in List Format

Output these changed objects in a list format. (The list output is formatted below but doesn't appear that way in the actual list output unless you list to a file or stream.)

```
stcl> ls -recursive -changed -report brief -format list HTMLHelp
{name HTMLHelp type folder objects
  {
    {name Customizing_History.htm type file}
    {name DSGetStart_GUI.htm type file}
    {name Editing_and_Organizing_Bookmarks.htm type file}
    {name Get_Tags_Versions.htm type file}
    {name Go_Menu.htm type file}
    {name PrintDoc type folder objects
      {
        {name unlock.bmp type file}
        {name file.bmp type file}
      }
    }
  }
}
```

Example Showing Locked Objects in the Workspace

List objects locked in my local workspace. This command does not access the SyncServer and does not indicate objects locked by other users:

```
stcl> scd ~/Projects/DesSync/HTMLHelp
```

```
stcl> ls -locked -workspace
```

```
Directory of: file:///home/karen/Projects/DesSync/HTMLHelp
```

Time Stamp	WS Status	Version	Type	Name
03/27/2003 15:06		1.2	Lock	working_folder.htm

Example Showing All Locked Objects

List objects locked in workspace or by others. This command accesses the SyncServer. The `working_folder.htm` file is locked in the workspace, whereas the `ocean_arrow_sm.gif` file is locked by another user.

```
stcl> ls -locked
```

```
Directory of: file:///home/karen/Projects/DesSync/HTMLHelp
```

Time Stamp	WS Status	Version	Type	Name
03/27/2003 15:05		1.2	Copy	ocean_arrow_sm.gif
03/27/2003 15:06		1.2	Lock	working_folder.htm

Example Showing All Locked Objects with Users

List objects locked in workspace and on server. Display using the 'status' report mode which shows the revision control status, the upcoming version, and the locker of each object:

```
stcl> ls -locked -report status
```

```
Directory of: file:///home/karen/Projects/DesSync/HTMLHelp
```

Time Stamp	WS Status	Server Status	Version	Locked By
03/27/2003 15:05		Up-to-date	1.2 -> 1.3	linda
				arrow_sm.gif
03/27/2003 15:06		Up-to-date	1.2 -> 1.3	karen*
				work_folder.htm

Example Showing Locked Server Objects Using Status Report Mode

List only objects locked on the server. Display using 'status' report mode which shows the revision control status, the upcoming version, and the locker of each object.

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This example uses `-vault <vaultURL>`

```
dss> ls -locked -vault sync://src:2647/Projects/Help/image
-report status
```

Directory of: `sync://src:2647/Projects/Help/image`

Time Stamp Name	WS Status	Server Status	Version	Locked By
----- ----	-----	-----	-----	-----
04/30/2012 14:14 delete-file.gif;1		-		mhopkins
04/30/2012 14:14 delete_local_folder.gif;1		-		mhopkins
04/30/2012 14:14 delete_server_folder.gif;1		-		mhopkins
04/30/2012 14:14 delete_vault.gif;1		-		mhopkins
04/30/2012 14:14 delete_version.gif;1		-		mhopkins
04/30/2012 14:14 delete_workspace_mod_dialog.gif;1		-		mhopkins

Example Showing Locked Workspace Objects in Status Report Mode

This example uses `-vault <workspace name>` (in this case `."` for current workspace directory)

```
dss> ls -locked -vault . -report status
```

Directory of:
`file:///c:/Workspaces/Help/image`

Time Stamp Locked By	Name	WS Status	Server Status	Version
----- -----	----	-----	-----	-----
12/13/2006 13:43 mhopkins*	delete-file.gif		Up-to-date	1.7 -> 1.8
12/13/2006 13:43 mhopkins*	delete_local_folder.gif		Up-to-date	1.5 -> 1.6
12/13/2006 13:43 mhopkins*	delete_server_folder.gif		Up-to-date	1.5 -> 1.6
12/13/2006 13:43 mhopkins*	delete_vault.gif		Up-to-date	1.5 -> 1.6
12/13/2006 13:43 mhopkins*	delete_version.gif		Up-to-date	1.5 -> 1.6
12/13/2006 13:43 mhopkins*	delete_workspace_mod_dialog.gif		Up-to-date	1.4 -> 1.5

Example Showing Unmanaged Objects in Current Folder

List unmanaged objects in the current folder, displaying only the name, last-modified time, and size of each file:

```
stcl> ls -unmanaged -report MZ

Directory of: file:///home/karen/Projects/DesSync/HTMLHelp

Time Stamp                Size  Name
-----                -
04/14/2003 14:03          50  about_ds.htm
```

Example Showing Unlocked Writable Objects in the Workspace

List objects that are writeable but which I have not yet locked:

```
stcl> ls -writableunlocked

Directory of: file:///home/karen/Projects/DesSync/HTMLHelp

Time Stamp      WS Status   Version      Type      Name
-----      -
04/14/2003 14:03          Unmanaged          about_ds.htm
03/27/2003 15:06          1.3              Copy      warn_excluded.htm
```

Example Showing Excluding Objects

Exclude objects from a listing:

```
stcl> ls -exclude x.v,top.v

Directory of: file:///home/karen/Projects/Rel40

Time Stamp      WS Status   Version      Type      Name
-----      -
04/11/2003 10:13          Refers to: 1.1   Reference  AddBlock
04/14/2003 13:56          Unmanaged          SubMod
04/15/2003 12:45          Unmanaged          mult.v
04/11/2003 09:12          1.2.1.1         Copy      streamfile
                                test.v
```

You can also specify the excluded objects using an absolute URL. The name in the glob-style expression must match the format listed, in this case, by using the `-fullpath` option:

```
stcl> ls -exclude file:///home/karen/Projects/Rel40/test.v -fullpath

Directory of: file:///home/karen/Projects/Rel40

Time Stamp      ...  Name
-----      ...  -
04/11/2003 10:13  ...  file:///home/karen/Projects/Rel40/AddBlock
```


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```
... file:///home/karen/Projects/Rel40/SubMod
04/14/2003 13:56 ... file:///home/karen/Projects/Rel40/mult.v
04/15/2003 12:45 ... file:///home/karen/Projects/Rel40/streamfile
... file:///home/karen/Projects/Rel40/top.v
04/10/2003 10:16 ... file:///home/karen/Projects/Rel40/x.v
```

Example Showing a Variety of ls Commands To Display Object Vault

List versions of an object vault. For vault objects, the fetched state (shown with the "Type" header) is blank:

```
stcl> scd [url vault what_is_dss.htm]
stcl> spwd
sync://host:2647/Projects/DS/what_is_dss.htm;
stcl> ls

Directory of: sync://host:2647/Projects/DS/what_is_dss.htm;1

Time Stamp      WS Status  Version  Type  Name
-----
12/04/2000 16:06          1.1          what_is_dss.htm;1.1
12/26/2000 16:27          1.2          what_is_dss.htm;1.2
01/02/2001 17:18          1.3          what_is_dss.htm;1.3
08/10/2001 11:19          1.4          what_is_dss.htm;1.4
02/10/2003 13:12          1.5          what_is_dss.htm;1.5
```

You can instead specify a server-side URL of a vault object to list its contents:

```
stcl> ls sync://host:2647/Projects/DS/what_is_dss.htm\;
```

Or you can use the 'url vault' command to specify the vault object:

```
stcl> ls [url vault what_is_dss.htm]
```

You can also provide an explicit version number for the vault:

```
stcl> ls [url vault what_is_dss.htm]1.3
```

You can specify a tag for the vault, as well:

```
stcl> ls [url vault what_is_dss.htm]Latest
```

(To determine the existing tags for an object, use '-report T'.)

Examples Showing Writing to an Output File or TCL stream

Write the list to an output file or Tcl stream.

This example writes to an output file:

```
stcl> ls -output ~/ls_Output
```

```
stcl> cat ~/ls_Output
```

```
Directory of: file:///home/karen/Projects/DesSync/HTMLHelp
```

Time Stamp	Version	Type	Name
03/27/2003 15:06	1.12	Copy	About_DesignSync_Log_Files.htm
03/27/2003 15:06	1.7	Copy	About_Vault_Types.htm
...			
...			

The output can be in a list format instead:

```
stcl> ls -format list -output ~/ls_Output
stcl> cat ~/ls_Output
```

```
{
  {
    name HTMLHelp
    type folder
    objects {
      {
        name http_proxy.htm
        type file
        props {
          fetchedstate Copy
          mtime {03/27/2003 15:04}
          version 1.8
        }
      }
    }
  }
  ...
  ...
}
```

This example writes the output to a Tcl stream:

```
stcl> set channelid [open streamfile w]
file8
stcl> ls -stream $channelid
stcl> close $channelid
stcl> cat streamfile
```

```
Directory of: file:///home/karen/Projects/Rel40
```

Time Stamp	WS Status	Version	Type	Name
04/11/2003 10:13				AddBlock
		Refers to: 1.1	Reference	SubMod
04/14/2003 13:56		Unmanaged		mult.v
...				
...				

Example Showing Locked References

List locked references.

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You might need to regenerate managed objects, in which case you can check them out as 'locked references' rather than actual locked copies of the objects. The example below creates a locked reference, top.v. The top.v fetched state displays as 'Lock' and the Version displays as 'Refers to:' followed by the version:

```
stcl> co -reference -lock -nocomment top.v
```

```
Beginning Check out operation...
```

```
Checking out: top.v : Locked Reference made to 1.1.
```

```
Checkout operation finished.
```

```
{Objects succeeded (1)} {}
```

```
stcl> ls
```

```
Directory of: file:///home/karen/Projects/Rel40
```

Time Stamp	WS Status	Version	Type	Name
-----	-----	-----	----	----
03/27/2003 11:12				AddBlock
04/03/2003 10:46		1.3	Copy	test.v
		Refers to: 1.1	Lock	top.v

Example Showing Collection List

For each member of a collection, list the object type and the owner (the collection to which the member belongs). This example uses a Custom Type Package (CTP) collection.

```
stcl> ls -report OX
```

```
Directory of: file:///home/karen/sf242data/jul16/coltest
```

Object Type	Name
-----	----
File	README
a Test Member	a.html
Owner:	/home/karen/sf242data/jul16/coltest/a.sgc.tst
File	a.prop
a Test collection	a.sgc.tst
a Test Member	a.txt
Owner:	/home/karen/sf242data/jul16/coltest/a.sgc.tst
File	b.prop
File	b.txt
File	c.html
d Test Member	d.html
Owner:	/home/karen/sf242data/jul16/coltest/d.sgc.tst

```

File          d.prop
d Test collection  d.sgc.tst
d Test Member    d.txt
Owner: /home/karen/sf242data/jul16/coltest/d.sgc.tst

f Test Member    f.html
Owner: /home/karen/sf242data/jul16/coltest/f.sgc.tst

File          f.notamember
File          f.prop
f Test collection  f.sgc.tst
f Test Member    f.txt
Owner: /home/karen/sf242data/jul16/coltest/f.sgc.tst

g Test Member    g.html
Owner: /home/karen/sf242data/jul16/coltest/g.sgc.tst

File          g.prop
g Test collection  g.sgc.tst
g Test Member    g.txt
Owner: /home/karen/sf242data/jul16/coltest/g.sgc.tst

File          partnerFile

```

ls-foreach

ls-foreach Command

NAME

```

ls-foreach      - Function to process the results of an ls
                  command

```

DESCRIPTION

This routine loops over the items in an "ls" results list, and processes each item in turn.

Note: The object type, identified by reporting on the O key in the ls command, is identified by the otype property name. This distinguishes it from the type property reported automatically. The type property reports whether the object is a folder, file, or module.

SYNOPSIS

```

ls-foreach var result_list tcl_script [-nofolder] [-path]

```

ARGUMENTS

- [Loop Variable](#)
- [List of Objects to be Processed](#)
- [TCL script](#)

Loop Variable

`var` This is the loop variable. It is treated as a Tcl array, and on each loop around contains the set of properties for the next object in the `result_list`. In addition to the properties in the "props" value for each object, the array will contain a "name" property and a "type" property, which are the name and type properties for the object.

List of Objects to be Processed

`result_list` This is the list of objects to be processed. It must be the result value of a call to the "ls" command with the "-format list" option.

TCL script

`tcl_script` This is the piece of Tcl code that is executed on each loop.

OPTIONS

- [-nofolder](#)
- [-path](#)

-nofolder

`-nofolder` If specified, then the `tcl_script` will not be called for Folder type objects in the `result_list`.

-path

`-path` The "name" property on each loop is usually just the "name" property for the object. However, if this

option is specified, and a recursive "ls" was performed, then the "name" property is the relative path to each object. Normally, you would run "ls" with the -path or -fullpath option, in which case the "name" property contains an appropriate relative or full path. If you did not do that, then passing the "-path" option to ls-foreach will mean that the "name" property contains the relative path for each item, thus allowing you to differentiate between items with the same name in different folders.

The set of properties available for each object is dependant on the "-report" option passed to the "ls" command.

SEE ALSO

ls

EXAMPLE

This shows a sample script that creates an array to run ls-foreach against and extracts the object name and otype. The output shown after the query are the results of running the query against a folder containing Cadence data collections.

```
set result_list [ls -rec -format list -report normal+0]
```

```
ls-foreach obj $result_list {
  if {[info exists obj(otype)]} {
    puts "OBJ: $obj(name), OTYPE: $obj(otype)"
  }
}
```

```
OBJ: cdsinfo.tag, OTYPE: Cadence Info File
OBJ: rec, OTYPE: Cadence Cell
OBJ: schematic.sync.cds, OTYPE: Cadence View
OBJ: schematic, OTYPE: Cadence View Folder
OBJ: mux2, OTYPE: Cadence Cell
OBJ: schematic.sync.cds, OTYPE: Cadence View
OBJ: schematic, OTYPE: Cadence View Folder
OBJ: celdom, OTYPE: Cadence Cell
OBJ: symbol.sync.cds, OTYPE: Cadence View
OBJ: symbol, OTYPE: Cadence View Folder
OBJ: custinv, OTYPE: Cadence Cell
OBJ: symbol.sync.cds, OTYPE: Cadence View
OBJ: symbol, OTYPE: Cadence View Folder
OBJ: .oalib, OTYPE: File
OBJ: risk.TopCat, OTYPE: Cadence Lib Category
...
OBJ: schematic_v1#2e1, OTYPE: Cadence NonView Folder
```

showlocks

showlocks Command

NAME

showlocks - Shows all locked items in the vault

DESCRIPTION

- [Understanding the Output](#)

This command provides a list of all items locked on the server.

Note: To show locked items in the workspace, use the ls command with the '-locked -workspace' options.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

This command supports the command defaults system.

Understanding the Output

By default the command reports the branch and version information of the folder being queried, and a table or Tcl list, containing a list of items locked on the server. The information is presented in order of objects searched and entries for each object are sorted by relative path.

The showlocks command returns the following information:

Column Titles	Property Names	Description
User	user	Displays the username of the user who owns the object lock.
Branch	branch	For DesignSync objects and legacy module objects, the branch information is included in the table.
Tags	tags	Displays the tag information for DesignSync objects and legacy module objects.
Date	date	Displays the date and time the object was locked.
Name	name	Displays the name of the locked object.
Where	where	Displays the full path location of the workspace where the object is locked,

	including the machine name where the workspace is located.
log	Displays the lock comment. Note: Only module branches contain lock comments.
uid	Displays the unique identifier for the object.

SYNOPSIS

```
showlocks [-alloverriden] [-format text|list] [-[no]overridden]
          [-[no]recursive] <argument>
```

ARGUMENTS

- [Server URL](#)
- [Workspace](#)

Server URL

<serverURL> Specifying the server URL provides a list of locked objects on the server. If you specify a branch, only objects locked on that branch are displayed. Specify the server URL in the format:
 sync://<machine>:<port>/<path>[.branchid][;<selector>].

Workspace

<workspace folder> Specifying the workspace argument provides a list of locked objects at the corresponding server location.
 For a list of all the locked items in a workspace, use the ls command with the -locked option.

OPTIONS

- [-alloverriden](#)
- [-format](#)
- [-\[no\]overridden](#)
- [-\[no\]recursive](#)

-alloverriden

-alloverriden

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-format

`-format text|list` Determines the format of the output. For information about the information displayed see the "Understanding the Output" section. Valid values are:

- o `text` - Display a text table with headers and columns. (Default) Objects are shown in alphabetical order.
- o `list` - Displays a list with the following format:

```
{
  name <name>
}
```

-[no]overriden

`-[no]overriden`

-[no]recursive

`-[no]recursive` Indicates whether the command should return the status for the specified argument, or the specified argument and all subfolders.

`-norecursive` displays the status for the specified argument only. (Default)

`-recursive` displays the status for the specified argument and all subfolders.

Note: `-recursive` does not traverse module hierarchies.

SEE ALSO

`command defaults, ci, co, populate, url locktime`

EXAMPLES

- [Example Showing the Locks on the Server from a Workspace Argument](#)

Example Showing the Locks on the Server from a Workspace Argument

This example shows the showlocks command running on a workspace folder.

```
dss> showlocks .
sync://srv2.ABCo.com:2647/mbom
User  Branch  Tags      Date          Name      Where
----  -
janh  1          Trunk     09/11/2006 15:18  abc.c     srv2.ABCo.com:/mbom
janh  1          Trunk     09/11/2006 15:18  abc.txt   srv2.ABCo.com:/mbom
```

This example shows the showlocks command running on a workspace folder with the -format list option.

```
dss> showlocks -format list .
{name abc.c user janh branch 1 tags Trunk date {09/11/2006
15:56} where srv2.ABCo.com:/mbom} {name abc.txt user janh branch 1
tags Trunk date {09/11/2006 15:56} where srv2.ABCo.com:/mbom}
```

syncinfo

syncinfo Command

NAME

syncinfo - Returns Synchronicity environment information

DESCRIPTION

This command returns information about the Synchronicity software environment, such as version number, location of registry files, and default editor and HTML browser. The command can be run from the client to return client information, or from the server to return server information.

By default (with no arguments specified), all available information is returned. You can request specific information by specifying one or more command arguments.

If a given value has not been set or is not available, then 'syncinfo' returns an empty string. For example, if you ask for portRegistryFile from the client, the return value is empty because portRegistryFile is only available from the server.

SYNOPSIS

```
syncinfo [<arg> [<arg>...]]
```

ARGUMENTS

- [General Information](#)
- [isServer](#)
- [syncDir](#)
- [version](#)
- [Registry Information](#)
- [clientRegistryFiles](#)
- [enterpriseRegistryFile](#)
- [portRegistryFile](#)
- [projectRegistryFile](#)
- [serverRegistryFiles](#)
- [siteRegistryFile](#)
- [syncRegistryFile](#)
- [userRegistryFile](#)
- [usingSyncRegistry](#)
- [Customization Information](#)
- [customDir](#)
- [customSiteDir](#)
- [customEntDir](#)
- [siteConfigDir](#)
- [usrConfigDir](#)
- [userConfigFile](#)
- [Client Information](#)
- [connectTimeout](#)
- [commAttempts](#)
- [defaultCache](#)
- [fileEditor](#)
- [htmlBrowser](#)
- [proxyNamePort](#)
- [somTimeout](#)
- [Server Information](#)
- [berkdbIsShmEnabled](#)
- [berkdbShmKey](#)
- [isTestMode](#)
- [serverMetadataDir](#)
- [serverDataDir](#)
- [serverMachine](#)
- [serverName](#)
- [serverPort](#)
- [User Information](#)
- [home](#)
- [userName](#)

General Information

isServer

`isServer` Returns a Tcl boolean value (0 or 1) indicating whether the software executing the `syncinfo` command is acting as a server (1) or client (0).

syncDir

`syncDir` Returns the root directory of the Synchronicity software installation. On UNIX, this value corresponds to the `SYNC_DIR` environment variable (on Windows, `SYNC_DIR` is not required).

version

`version` Returns the version of the Synchronicity software as a string.

Registry Information

clientRegistryFiles

`clientRegistryFiles` Returns a comma-separated list of registry files used by the Synchronicity clients (`DesSync`, `stcl`, `dss`, `stclc`, `dssc`).

enterpriseRegistryFile

`enterpriseRegistryFile` Returns the enterprise-wide registry file.

portRegistryFile

`portRegistryFile` Returns the port-specific registry file.

projectRegistryFile

`projectRegistryFile` Returns the project-specific registry file.

serverRegistryFiles

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`serverRegistryFiles` Returns a comma-separated list of registry files used by a Synchronicity server.

siteRegistryFile

`siteRegistryFile` Returns the site-wide registry file.

syncRegistryFile

`syncRegistryFile` Returns the Synchronicity-supplied standard registry file.

userRegistryFile

`userRegistryFile` Returns the user-specific registry file.

usingSyncRegistry

`usingSyncRegistry` Returns a Tcl boolean value (0 or 1) indicating whether the Synchronicity software is using the text-based registry (1) or the native Windows registry (0).

Customization Information

customDir

`customDir` Returns the root directory of the 'custom' branch of the Synchronicity installation hierarchy, which contains all site- and server-specific customization files. The default value, `<SYNC_DIR>/custom`, can be overridden by the `SYNC_CUSTOM_DIR` environment variable.

customSiteDir

`customSiteDir` Returns the directory that contains site-specific customization files. The default value, `<SYNC_CUSTOM_DIR>/site` (which defaults to `<SYNC_DIR>/custom/site`), can be overridden by the `SYNC_SITE_CUSTOM` environment variable.

customEntDir

customEntDir Returns the directory that contains enterprise-specific configuration files. The default value, <SYNC_ENT_CUSTOM> (which defaults to <SYNC_CUSTOM_DIR>/enterprise), can be overridden by the SYNC_ENT_CUSTOM environment variable.

siteConfigDir

siteConfigDir Returns the directory that contains site-specific configuration files. The default value, <SYNC_SITE_CUSTOM>/config (which defaults to <SYNC_CUSTOM_DIR>/site/config, which defaults to <SYNC_DIR>/custom/site/config), can be overridden by the SYNC_SITE_CNFG_DIR environment variable.

usrConfigDir

userConfigDir Returns the directory that contains user configuration files. The default value, <HOME>/synchronicity, can be overridden by the SYNC_USER_CFGDIR environment variable.

userConfigFile

userConfigFile Returns the user configuration file. The default value, <HOME>/synchronicity/user.cfg, can be overridden by the SYNC_USER_CONFIG environment variable.

Client Information**connectTimeout**

connectTimeout Returns the number of seconds the client will wait per communication attempt with the server.

commAttempts

commAttempts Returns the number of times client/server

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communication is attempted before failing. Using multiple attempts protects against transient network problems. 'Connect Failure' failures do not trigger multiple connection attempts, because transient network problems rarely cause this error.

Note: When the number of communication attempts is the default value of 3, 'syncinfo commAttempts' returns no value instead of returning 3.

defaultCache

defaultCache Returns the default cache directory for the client as specified during installation or using SyncAdmin.

fileEditor

fileEditor Returns the default file editor as specified during installation or using SyncAdmin.

htmlBrowser

htmlBrowser (UNIX only) Returns the default HTML browser as specified during installation or using SyncAdmin.

proxyNamePort

proxyNamePort Returns the <name>:<port> of a proxy, if one is defined in a client registry file or using the ProxyNamePort environment variable.

somTimeout

somTimeout Returns the number of milliseconds after an unsuccessful server connection attempt during which the client does not try to connect again. This timeout protects against an operation on many objects (such as 'ls' on a large directory) taking an excessively long time to complete when there is a connection failure (such as when the server is down). Instead of waiting the connectTimeout period for each

object, the operation fails for all objects after the first connection failure.

Server Information

berkdbIsShmEnabled

berkdbIsShmEnabled For Synchronicity internal use only.

berkdbShmKey

berkdbShmKey For Synchronicity internal use only.

isTestMode

isTestMode For Synchronicity internal use only. Returns a Tcl boolean value (0 or 1) indicating whether the software executing the syncinfo command is running in test mode (1) or not (0). This feature is useful for regression testing of servers.

serverMetadataDir

serverMetadataDir Returns the directory that contains the server metadata (such as relational database) files.

serverDataDir

serverDataDir Returns the directory that contains vault (repository) data that is stored by a server.

serverMachine

serverMachine Returns the name of the server as returned by gethostname(). This value is returned only when 'syncinfo' is run from a server-side script.

serverName

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`serverName` Returns the name of the server as it was specified in the URL used to contact the server. This value is returned only when 'syncinfo' is run from a server-side script.

serverPort

`serverPort` Returns the port number used by the server to respond to the syncinfo request. This value is returned only when 'syncinfo' is run from a server-side script.

User Information

home

`home` Returns the home directory of the user running syncinfo (HOME on UNIX, or as defined in your user profile on Windows platforms).

userName

`userName` Returns the account name of the user running syncinfo.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode:

- If no argument is specified, the return value is a name/value list (Tcl 'array get' format) containing all available information.
- If a single argument is specified, the return value is the requested value (not a list).
- If more than one argument is specified, the return value is a name/value list containing the requested information.
- If any argument is not known, an exception is thrown.

SEE ALSO

`server-side`

EXAMPLES

- [Example Showing the SyncInfo Version on Client Startup](#)
- [Example of Extracting SyncInfo Information to an Array](#)
- [Example Showing Extracting the Information from an Array](#)
- [Example of extracting Name/Value Pairs for Specific Arguments](#)

Example Showing the SyncInfo Version on Client Startup

When you start any Synchronicity client, 'syncinfo version' executes, which displays (and writes to your log file if logging is enabled) the Synchronicity version. In this example, the software is version 3.0.

```
% stclc
Logging to c:\goss\dss_01192000_092559.log
V3.0

stcl>
```

Example of Extracting SyncInfo Information to an Array

The following stcl script fragment shows how to get all known information as a Tcl array variable. The 'version' string is then printed.

```
array set info [syncinfo]
puts "Version: $info(version)"
```

Example Showing Extracting the Information from an Array

This example uses the single-argument form of syncinfo to print the same version information provided by the previous example:

```
puts "Version: [syncinfo version]"
```

Example of extracting Name/Value Pairs for Specific Arguments

The following example uses command arguments to return a list of the 'syncDir' and 'userName' values. This example also shows how to enumerate the name/value list returned by syncinfo without storing it in an array variable.

```
foreach {name value} [syncinfo syncDir userName] {
    puts "$name: $value"
}
```

version

hcm version Command

NAME

hcm version - Displays the DesignSync installation version

DESCRIPTION

This command displays the version of the DesignSync product installation.

SYNOPSIS

```
hcm version
```

OPTIONS

RETURN VALUE

This command does not return Tcl values.

SEE ALSO

```
syncinfo  
,
```

EXAMPLES

The following example displays the DesignSync version information.

```
dss> hcm version  
V6R2012
```

vhistory

vhistory Command

NAME

vhistory - Displays an object's version history

DESCRIPTION

- [Report options](#)
- [Understanding the output](#)

The vhistory command reports version history for managed objects. If the command is run from a workspace, local status is also reported.

This command supports the command defaults system.

Report options

The `-report` option lets you specify what information vhistory reports. You can specify:

- o One of the predefined modes (`silent`, `brief`, `normal`, `verbose`).
- o One or more data keys, to define exactly the information you want.
- o A combination of data keys to add to, or remove from, a predefined report.

The predefined report modes, and how to modify them for a single vhistory invocation, are described in the "`-report`" option description.

The following table lists the `-report` data keys, including the corresponding property names used in "`-format list`" output. Note that all data keys must be uppercase.

Text Label	Data Key	Property Name	Description
-----	-----	-----	-----
Object:	N	name	The workspace path to the object, or to the vault URL.
===== -----	H	N/A	Show horizontal separators between items and versions.
Vault URL	S	url	Show the vault URL (server address) associated with a workspace object.
Current	W	version	Show the version currently in the

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version			workspace.
Current	L	state	Show the fetched state in the workspace. This is not reported for module data.
	B	N/A	Show entries for the branch objects. Note: When used with the B option, on a V6R2010 or higher SyncServer, also reports the username and timestamp for retired branches.
	R	N/A	Show entries for the version objects.
	I	N/A	Do not show (ignore) entries that have no tags.
Branch tags/Version tags	T	tags	Show the branch and version tags. Immutable tags are shown with "(immutable)" appended only if Y is specified as well..
Version	V	version, bud	Show the version numbers for versions, and the branch number for branches. Also, for branches, the property "bud" will be included. A branch is a "bud" branch if it does not yet have any versions. A value of "1" indicates the branch is a bud branch, else "0".
Date	D	date	Show the creation date for a version.
Derived from	F	derived_from	Show the numerical parent version. This maintains the continuity between versions for merge operations. Note: If a merge, or overlay operation occurs to create this version, the referenced version is shown as "Merged from" version.
Author	A	author	Show the author of a version.
Size	K	size	Show the size of the object version in KB. Note: Collections which contain more than one object, display with a size of zero.
Merged from	E	merged_from	Show the version used to create the current version when the current version was created as the result of a merge, skip, or overlay operation requiring an alternate parent version.
Comment	C	comment	Show the checkin comments for a version, and any checkout comments. For

			DesignSync objects, checkout comments are only visible from the workspace in which the checkout occurred.
This branch is retired	X	retired	Show whether a branch is retired. A "retired" value of "1" indicates the branch is retired, else "0". Note: When used with the B option, on a V6R2010 or higher SyncServer, also reports the username and timestamp for retired branches.
Locked by	U	locker, upcoming	Show the lock owner of a locked branch. For DesignSync objects, also show the "version -> upcoming version" information.
Version graph	G	N/A	Show a graphical representation of the version history, as a text graph.
Reverse order	Z	N/A	Show the versions/branches in reverse numeric order.
N/A		objects	In "--format list" output, the property value is a list of the branch and version items reported for that object. Each entry in the objects value is itself a property list.
N/A		retired_properties	In "--format list" output, the property value is an array including date and user properties containing the date and time the retire was performed and the username of the person who performed the retire.
N/A		type	In "--format list" output, the property value is either "branch" (for branch entries) or "version" (for version entries). The value is used in the "objects" property value lists.
N/A	+	N/A	Add codes to a predefined report.
N/A	-	N/A	Remove codes from a predefined report.

Understanding the output

The vhistory output is divided into sections. The first section provides the information about the selected object or module. The second section contains branch information for the currently selected branch, followed by the version information of all versions on that branch. If you have requested information about more than one

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branch, the branch section, ordered by branch number, is displayed, followed by the versions on that branch; followed by the next branch sequentially, etc. until all specified branches and versions have been enumerated. The sequence is based on depth of the branch and version numbers, for example the branch number 1.2.4.1 appears after branch 1.2.3, but before 1.3. The final section is the history graph.

Notes: The sections and fields that appear in your report depend on the report formats you select. For more information on any of the displayed fields, see the Report options section.

Object information can include the following fields:

- o Object - Workspace path to the object..
- o Vault URL - Vault URL associated with the object.
- o Current Version - Version number of the workspace version.
- o Current State - Fetched state in the workspace.

Branch information includes the following fields:

Note: You must include report option B to get information on branches. Additional options determine what branch information you display.

- o Branch - Branch number.
- o Branch tags - Branch tag names.
- o Locked by - username of the branch locker.
- o Comment - Comment applied to the branch during creation. For the Trunk branch, this is the comment entered when the module or DesignSync object was created.
- o This Branch is Retired. - Object branch has been retired, (Non-module data only)
- o Retired by - Username, date, and time associated with the retire.

Version information includes the following fields:

Note: You must include the report option R to get information on versions. Additional options determine what version information you display.

- o Version - Version number.
- o Version tags - Version tag names.
- o Derived From - numeric parent version.
- o Merged From - version used to create the current version.
- o Date - version creation date.
- o Author - version author.
- o Comment - version comment.

History graph information includes the following:
A graphical representation of the object's history.

SYNOPSIS

```
vhistory [-branch <branchname> -descendants <n> |
```

```

    -lastversions <n> -lastbranches <n> | -all]
    [-exclude <string>] [-format list | text] [-maxtags <n>]
    [-modulecontext <context>]
    [-output <filename> | -stream <port>] [-report <mode>]
    [-[no]recursive] [-[no]selected] [--]
    <argument> [<argument>...]

```

ARGUMENTS

- [DesignSync Object](#)
- [Workspace Folder](#)
- [Server Folder](#)

Specify one or more of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object.

Workspace Folder

<Workspace folder> Specifies the history of the contents of the specified folder, and, when used with the recursive option, all subfolders.

Server Folder

<server folder> Specifies the history of the contents of the specified folder on the server, and when used with the `-recursive` option, all subfolders. Specify the object with the sync URL in the format:

```
sync://<host>:<port>/<path>/<folder>
```

If no arguments are given, and the `-selected` option is not specified, then the `vhistory` command will operate on the current directory. This is equivalent to specifying a single argument of `"."`

OPTIONS

- [-all](#)
- [-branch](#)

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- [-descendants](#)
- [-exclude](#)
- [-format](#)
- [-lastbranches](#)
- [-lastversions](#)
- [-maxtags](#)
- [-output](#)
- [-\[no\]recursive](#)
- [-report](#)
- [-\[no\]selected](#)
- [-stream](#)
- [==](#)

-all

`-all` Report branch "1" and all descendants, thereby reporting the entire history of an object.

The "-all" option is mutually exclusive with the "-descendants" option, the "-lastversions" option, the "-lastbranches" option, and with the "-branch" option.

-branch

`-branch <branchname>`

Start the report at the specified branch name. The <branchname> may be a branch tag or a branch numeric.

By default, the current branch for workspace objects is the starting branch. For vault objects, branch 1 is the default starting branch.

To override a default value that was saved with the command default system, specify a value of "". That will use the aforementioned default behavior.

-descendants

`-descendants <n>`

The number of levels of descendant branches to report, from the starting branch. By default, the report is limited to the starting branch (an <n> value of 0).

You may specify any positive number as the <n> value.

For example, if branch 1.2.1 is being reported on, and the descendants value is 1, then branch 1.2.1.3.1 will be reported, but branch 1.2.1.3.1.4.1 will not be.

Specifying a value of "all" will report all levels.

The `-descendants` option is mutually exclusive with the `-lastversions` option and with the `-lastbranches` option.

-exclude

`-exclude <string>`

Specifies a glob-style expression to exclude matching object names from the report. The string you specify must match the name of the object as it would have appeared in the listing.

By default, the `vhistory` command does not exclude the objects in the global exclude lists (set using `Tools->Options->General->Exclude Lists` or using `SyncAdmin's General->Exclude Lists`). To exclude these objects from a `vhistory` report, apply the `-exclude` option with a null string:

```
dss> vhistory -exclude ""
```

The objects in the global exclude lists are appended to the `vhistory` exclude list if you exclude other values:

```
dss> vhistory -exclude "README.txt"
```

-format

`-format`

Specifies whether the `"vhistory"` command generates a formatted report, or returns a Tcl property list.

`list` Returns a list, with each result entry containing the properties reported for each object, and an `"objects"` property. The `objects` property contains a sublist of property lists, with one entry for each branch and version object that is reported for the parent object.

For example, consider the following command:

```
stcl> vhistory -report LNRVT file1.txt \
          file2.txt -lastversions 2 -format list
```

The above command requests a report of the last two versions on the current branch of the two specified objects. The report will contain the object name, the state of the objects in the workspace, and the versions of the object. For each version, the version number and any tags are reported.

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The result might be:

```
{
  name file:///home/tbarbg10/Test/file1.txt
  state Copy
  objects {
    {type version version 1.4 tags {t1 t2}}
    {type version version 1.5 tags {t3 Latest}}
  }
}

{
  name file:///home/tbarbg10/Test/file2.txt
  state Lock
  objects {
    {type version version 1.3.1.5 tags {}}
    {type version version 1.3.1.6 tags Latest}
  }
}
```

As shown above, the result is a list containing one entry for each object for which the history was requested.

To process the results, use the `vhistory-foreach` and `vhistory-foreach-obj` functions.

If the history was requested for a single object, you must start processing the result list by taking the "head" of the list, with a call such as `"[index $result 0]"`.

The property lists will always contain a property even if the value is "", for easier processing of the results.

For a list of properties, see the Report Options table above.

`text` Display a textual result. (Default)

-lastbranches

`-lastbranches <n>`

How many branches back to report. By default, only versions on the specified branch are reported (an `<n>` value of 0).

You may specify any positive number as the `<n>` value. `<n>` parent branches back will be reported on. This option is used to show more of an object's history.

For example, let's say the branch to be reported on is

1.4.1.3.1, with a Latest version of 1.4.1.3.1.2. By default, the vhistory command would only report on versions 1.4.1.3.1.1 and 1.4.1.3.1.2. If "1" was specified as the -lastbranches value, then the vhistory command would also run on one parent branch back, reporting versions 1.4.1.3, 1.4.1.2 and 1.4.1.1.

An <n> value of "all" will run the report on all parent branches, back to branch 1.

The -lastbranches option is mutually exclusive with the -descendants option. That is because specifying a -lastbranches value implies a -descendants value of 0.

The -lastbranches and -lastversions options can be used together. The report will start at the Latest version on the initial branch, and work backwards.

-lastversions

-lastversions <n>

How many versions back to report. By default, all versions on the requested branch are reported (an <n> value of "all").

You may specify any positive number as the <n> value.

The -lastversions option is mutually exclusive with the -descendants option. That is because specifying a -lastversions value implies a -descendants value of 0.

If a specific version object URL is specified as the argument (or -modulecontext), instead of a -branch, then the report will start at the version specified. (Instead of starting at the Latest version on the branch.) This allows the report to be run on a range of versions.

The -lastversions and -lastbranches options can be used together. The report will start at the Latest version on the initial branch, and work backwards.

-maxtags

-maxtags <n>

The maximum number of tags shown for any object. By default, all tags are shown (an <n> value of "all").

-output

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`-output <filename>`

Prints results to the specified file. The named file is created or overwritten, but not appended to. To append, use the `"-stream"` option.

The `-output` and `-stream` options are mutually exclusive.

-[no]recursive

`-[no]recursive`

For a local folder or server folder, whether to descend through sub-folders of the starting folder, or only report on the objects in the specified folder.

The default behavior is `"-norecursive"`.

-report

`-report <mode>`

Specifies what information about each object should be reported. Available report modes are:

`brief` Report tagged versions/branches with their tags and numerics. This is equivalent to `"-report NBRIVT"`.

`normal` Report all available information, except for the module manifest. This is equivalent to `"-report"` with all codes listed in the Report Options table above, except for GZQI.

This behavior is the default when `"-report"` is not specified.

`verbose` Report all available information. This is equivalent to `"-report"` with all codes listed in the Report Options table above, except for GZI.

`K[K...]` Display the fields corresponding to the data keys, where K is a data key listed in the Report Options table above.

You may also use `"+"` and `"-"` operators to add and remove codes from the standard reports.

For example, to report the `"normal"` output, but only for version objects and not branch objects:

```
stcl> vhistory -report normal-B
```

The data keys and predefined report modes may be combined in any order. However, the predefined report mode names may not be immediately preceded or followed by another data key or predefined report name.

For example, the following is valid:

```
stcl> vhistory -report Z+normal-B
```

The above command will report the "normal" output, but without branches, and with the versions in reverse order.

The following syntax is not valid:

```
stcl> vhistory -report Znormal-B
```

If the "-report" value begins with a "+" or "-", the default "normal" predefined report is automatically prepended.

For example:

```
stcl> vhistory -report -B
```

is equivalent to:

```
stcl> vhistory -report normal-B
```

-[no]selected

-[no]selected

Whether to operate on the items in the select list in addition to any arguments on the command line. If no arguments are given on the command line, then the select list is automatically used.

-stream

-stream <port>

Prints results to the specified named Tcl port. Depending on whether you open the stream using the Tcl "open" command in write (w) or append (a) mode, you can overwrite or append to an existing file.

Note: The -stream option is only applicable in the stcl and stclc shells, not in the dss and dssc shells.

The -stream and -output options are mutually exclusive.

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--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

If "-format list" was specified, and neither the "-output" option nor the "-stream" option were specified, then the result list is returned. Otherwise, a value of "" is returned.

SEE ALSO

command defaults, datasheet, ls, select, vhistory-foreach, vhistory-foreach-obj

EXAMPLES

- [Example of Vhistory Showing a Retired Branch](#)

Example of Vhistory Showing a Retired Branch

This example shows a retired branch. The report mode used is normal, which includes the report options: B and X. Both options are required to see the time, date and username associated with the retire. The first command output shows the default format, text. The second shows the -format list output.

```
dss> vhistory c.doc
Object:          file:///home/rsmith/workspaces/M1/doc/c.doc
Vault URL:       sync://srv2.ABCo.com:2647/Projects/M1/doc/c.doc;
Current state:   NotFetched (Locally Modified)
-----
Branch:          1
Branch tags:     Trunk
This branch is retired.
Retired by bjones on Tue Dec 30 01:48:48 PM EST 2008

-----
Version:         1.1
Version tags:    Latest
Date:           Tue Dec 30 01:39:16 PM EST 2008
Author:         rsmith
Comment:        Updates to documentation
=====
```

```
dss> vhistory -format list c.doc
{name file:///home/rsmith/workspaces/M1/doc/c.doc url
{sync://srv2.ABCo.com:2647/Projects/M1/doc/c.doc;} state {NotFetched
(Locally Modified)} objects {{type branch version 1 bud 0 tags Trunk
tag_properties {{Trunk 0 {} {} {}}} locker {} upcoming {} retired 1
retired_properties {date 1230662928 user bjones} comment {}} {type
version version 1.1 tags Latest tag_properties {{Latest 0 {} {} {}}}
derived_from {} merged_from {} date 1230662356 author rsmith comment
{Updates to documentation}}}}
```

vhistory-foreach

vhistory-foreach Command

NAME

```
vhistory-foreach    - Function to process the results of a vhistory
                    command
```

DESCRIPTION

This function is called on the result list returned from "vhistory -format list". Use the vhistory-foreach function in conjunction with the vhistory-foreach-obj function, to process the list result from vhistory.

SYNOPSIS

```
vhistory-foreach obj result_list <tcl_script>
```

ARGUMENTS

- [Object Loop Variable](#)
- [Results List](#)
- [Tcl Script](#)

Object Loop Variable

```
obj                This is the loop variable. It is treated as a Tcl
                    array. The "obj" Tcl array is set to each object
                    in the result list, in turn.
```


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The Tcl array contains the properties for the object, and an "objects" property containing the version and branch entries that were reported for the object.

The set of properties is determined by the "-report" option that was specified to the "vhistory" command. If a "-report" value is not specified, the default "normal" report keys are used.

Results List

`result_list` The result list to be processed. This is the result value from a call to the "vhistory" command with the "-format list" option.

Tcl Script

`tcl_script` The Tcl code to execute on each element in the "obj" Tcl array.

SEE ALSO

vhistory, vhistory-foreach-obj

EXAMPLE

As an example, let's use the vhistory report from the "-format list" option description in the "vhistory" command documentation:

```
stcl> vhistory -report LNRVT file1.txt file2.txt -last 2 -format list
```

We'll capture the result in a variable, then use the vhistory-foreach functions to process the result:

```
set result [vhistory file1.txt file2.txt -lastversions 2 -format list]
```

```
vhistory-foreach obj $result {
  puts "Object name: $obj(name)"

  vhistory-foreach-obj vb obj {
    if { $vb(type) == "version" } {
      puts "Version: $vb(version)"
    } else {
```

```

        puts "Branch: $vb(version)"
    }
}

```

The above code would report:

```

Object name: file1.txt
Version: 1.4
Version 1.5
Object name: file2.txt
Version: 1.3.1.5
Version 1.3.1.6

```

vhistory-foreach-obj

vhistory-foreach-obj Command

NAME

vhistory-foreach-obj- Function to process the results of a vhistory command

DESCRIPTION

This function is called with the property array that was set by the vhistory-foreach function. The two vhistory "foreach" functions are used to process the list result from vhistory.

SYNOPSIS

```
vhistory-foreach-obj vb obj <tcl_script>
```

ARGUMENTS

- [Version/Branch Loop Variable](#)
- [Object Tcl Array](#)
- [Tcl Code](#)

Version/Branch Loop Variable

vb The version/branch entry. This is the loop variable. The "vb" Tcl array is set to each

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version or branch entry for the object, in turn.

Object Tcl Array

`obj` This is the "obj" Tcl array that was set by the "vhistory-foreach" function.

Tcl Code

`tcl_script` The Tcl code to execute on each element in the "vb" Tcl array.

SEE ALSO

vhistory, vhistory-foreach

EXAMPLE

As an example, let's use the vhistory report from the "-format list" option description in the "vhistory" command documentation:

```
stcl> vhistory -report LNRVT file1.txt file2.txt -last 2 -format list
```

We'll capture the result in a variable, then use the vhistory-foreach functions to process the result:

```
set result [vhistory file1.txt file2.txt -lastversions 2 -format list]
```

```
vhistory-foreach obj $result {
  puts "Object name: $obj(name)"

  vhistory-foreach-obj vb obj {
    if { $vb(type) == "version" } {
      puts "Version: $vb(version)"
    } else {
      puts "Branch: $vb(version)"
    }
  }
}
```

The above code would report:

```
Object name: file1.txt
Version: 1.4
Version 1.5
Object name: file2.txt
```

Version: 1.3.1.5

Version 1.3.1.6

webhelp

webhelp Command

NAME

webhelp - Launches Graphical Web Browser to view help

DESCRIPTION

This command provides a variety of help related functions, displaying the information in the default web browser. The default web browser is set during DesignSync client installation. You can change or set the web browser at any time using SyncAdmin. For more information on setting the web browser, see the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide.

Help is available for:

- All DesignSync command-line commands
- DesignSync topics such as using wildcards or running server-side scripts
- ProjectSync command-line commands

For compound commands such as the 'url' and 'note' commands, surround the command with double quotes and put exactly one space between the two keywords of the command (see Example section).

The web browser opens the specified help topic within the ENOVIA Synchronicity Command Reference for the selected help mode you are working in. For information about setting a help mode, see the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide. By default, the help mode is "all," which includes the DesignSync documentation for all working modes, including modules, files-based, and legacy modules modes. You can also specify a help mode using the -mode option.

From the ENOVIA Synchronicity Command Reference, you can navigate to the documentation index to access any other DesignSync documentation.

SYNOPSIS

```
webhelp [-mode module|file|all] [<topic> [...]]
```

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ARGUMENT

- [Topic](#)

Topic

`<topic>[...]` DesignSync command name(s) or topic(s).
If the topic or command specified doesn't exist, the webhelp command launches the web browser and displays the overview topic.

If you specify more than one topic, each topic will open in a separate tab in the web browser.

Note: When looking up a two word topic, such as "defaults show" enclose the command in quotes, otherwise it will be processed as two separate topics. In this example, entering the command "webhelp defaults show" would result in two tabs being opened, one to the "defaults" topic and one to the overview page, since there is no corresponding "show" command.

OPTIONS

- [-mode](#)

-mode

`-mode module | file | all` Determines which version of the help to open.
If you specify the `-mode` option, the setting you choose overrides the default mode.

If no mode is specified, DesignSync uses the default mode defined with the registry key or SyncAdmin. For more information on defining the help mode, see the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide. If no mode is set, the help page displays in the "all" mode.

Note: Once the book is open, you can navigate to the documentation index and from there open a different version of the ENOVIA Synchronicity Command Reference.

RETURN VALUE

If the command succeeds, it returns an empty string (`""`). If the command fails, it returns an appropriate error to explain the cause

of failure.

EXAMPLES

- [Example of Opening a Single Tab in the Default Mode](#)
- [Example of Opening Multiple Tab Help for a Specified Mode](#)

Example of Opening a Single Tab in the Default Mode

The following example opens one tab to the "default show" command.

```
dss> webhelp "defaults show"
```

Note: The quotes are required because the command is more than a single word.

Example of Opening Multiple Tab Help for a Specified Mode

The following example opens two tabs in the specified user mode "file." Using a help mode ensure that all the information provided is specific to the data management methodology you are using.

```
dss> webhelp -mode file ls ci
```

URL Sync Object Model

url Commands

NAME

url - URL navigation commands

DESCRIPTION

These commands return a value, enabling the user to access the Synchronicity Object Model (SOM) of information. This includes going from folders to files, from files to their vaults, from vaults to the versions inside them, and so on. All commands are preceded by the super command "url".

Note: url commands provide information about files and folders in your DesignSync work areas. Do not use these commands to obtain information about local mirror directories. You can use these commands to obtain information about all standard mirror directories.

Most url commands accept either relative or absolute URL paths. For example, both of the following are valid:

```
stcl> url vault .           # relative
stcl> url vault [spwd]     # absolute
```

The following commands require an absolute path:
url projects, url users

Note: The url commands are available from all DesignSync client shells. The stcl/tcl shells allow you to operate on the values returned by the url commands but the dss/dssc shells do not. Thus these commands are more useful in stcl/tcl than in dss/dssc.

SYNOPSIS

```
url <url_command> [<url_command_options>] <object>
```

Usage: url [branchid|configs|container|contents|exist|fetchstate|fetchtime|getprop|inconflict|leaf|locktime|members|mirror|modified|notes|owner|path|projects|properties|registered|relations|resolveancestor|resolvetag|retired|selector|servers|setprop|syslock|

```
tags|users|vault|versionid|versions]
```

OPTIONS

Varies by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl

EXAMPLES

See specific url commands.

url

url Commands

NAME

url - URL navigation commands

DESCRIPTION

These commands return a value, enabling the user to access the Synchronicity Object Model (SOM) of information. This includes going from folders to files, from files to their vaults, from vaults to the versions inside them, and so on. All commands are preceded by the super command "url".

Note: url commands provide information about files and folders in your DesignSync work areas. Do not use these commands to obtain information about local mirror directories. You can use these commands to obtain information about all standard mirror directories.

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Most url commands accept either relative or absolute URL paths. For example, both of the following are valid:

```
stcl> url vault .           # relative
stcl> url vault [spwd]     # absolute
```

The following commands require an absolute path:
url projects, url users

Note: The url commands are available from all DesignSync client shells. The stcl/tcl shells allow you to operate on the values returned by the url commands but the dss/dssc shells do not. Thus these commands are more useful in stcl/tcl than in dss/dssc.

SYNOPSIS

```
url <url_command> [<url_command_options>] <object>
```

```
Usage: url [branchid|configs|container|contents|exist|fetchstate|
fetchtime|getprop|inconflict|leaf|locktime|members|
mirror|modified|notes|owner|path|projects|
properties|registered|relations|resolveancestor|
resolvetag|retired|selector|servers|setprop|syslock|
tags|users|vault|versionid|versions]
```

OPTIONS

Varies by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl

EXAMPLES

See specific url commands.

url branchid

url branchid Command

NAME

url branchid - Returns the branch number of an object.

DESCRIPTION

This command returns the branch number of the specified object.

- o For managed objects, the url branchid command returns the current branch number (as stored in the local metadata).
- o For branch and version objects, the url branch id command returns the branch number.
- o For vaults and for versionable objects that are not under revision control, the url branch id command returns "1", (because 1 is the default branch number).
- o For all other object types, or if the specified object does not exist, an exception is thrown.

SYNOPSIS

```
url branchid [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the current branch number as stored in the metadata.

OPTIONS

- [=](#)

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--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For valid objects, returns the branch number of the specified object. For objects not under revision control, returns 1 (which is identifier for the default branch, "Trunk:").

For invalid or non-existent objects, returns an error.

SEE ALSO

`url versionid`

EXAMPLES

- [Examples of Displaying the Branch ID](#)

The following examples show the different return values for the `url branchid` command.

For unmanaged objects and vaults, returns "1":

```
stcl> url branchid test.s19
1
stcl> url branchid [url vault samp.asm]
1
```

For invalid arguments or if the object does not exist, returns the following error messages.

```
stcl> url branchid .
SomAPI-E-101: The specified object is not associated with a branch
or version.
stcl> url branchid [url vault .]
SomAPI-E-101: The specified object is not associated with a branch
or version.
stcl> url branchid nosuchobject
SomAPI-E-101: Object does not exist at specified URL.
```

Examples of Displaying the Branch ID

```

stcl> ls -report RH samp.asm samp.lst test.mem test.s19
Version          Branch Tags  Name
-----          -
1.2              Trunk      samp.asm
1.1 -> 1.2       Trunk      samp.lst
1.2.1.2         rel1.2     test.mem
Unmanaged                test.s19

```

For local managed objects, returns the current branch number:

```

stcl> url branchid samp.asm
1
stcl> url branchid samp.lst
1
stcl> url branchid test.mem
1.2.1

```

For versions and branches, returns the branch number:

```

stcl> url branchid [url vault test.mem]1.2.1
1.2.1
stcl> url branchid [url vault test.mem]1.2.1.2
1.2.1

```

url configs

url configs Command

NAME

url configs - Returns the configurations of a ProjectSync project

DESCRIPTION

This command returns the list of configurations for a ProjectSync-defined project. The project and associated configurations must be defined from ProjectSync -- see the ProjectSync User's Guide for more information. You can use this command in conjunction with 'url contents' to see the DesignSync-tagged versions that are associated with a ProjectSync-defined configuration.

The specified object can be a project's vault folder or a corresponding local working folder. Any other object type results in an empty list.

SYNOPSIS

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```
url configs [--] <argument>
```

ARGUMENTS

- [Workspace Folder](#)
- [Server Folder](#)

Specifies one or more of the following arguments:

Workspace Folder

<DesignSync folder> Specifies the workspace folder of a project for which you want a list of configurations.

Server Folder

<server folder> Specifies the vault folder of a project for which you want a list of configurations.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For valid objects, returns list of configurations.

For other objects: Returns an empty list.

SEE ALSO

url contents

EXAMPLES

This example returns the ProjectSync-defined configurations for the Sportster project, first by specifying the project folder on the SyncServer, then the corresponding local folder. Sportster has two configurations: Alpha and Gold.

```
dss> url configs sync://holzt:2647/Projects/Sportster
sync://holzt:2647/Projects/Sportster@Alpha
sync://holzt:2647/Projects/Sportster@Gold
dss> url configs /home/goss/Projects/Sportster
sync://holzt:2647/Projects/Sportster@Alpha
sync://holzt:2647/Projects/Sportster@Gold
```

You can then use 'url contents' to see what DesignSync-tagged versions correspond to a project configuration. Note that 'url contents' is not recursive -- see the help for 'url contents' for details. In this example, the Alpha configuration has one subfolder (code) associated with the configuration, which contains two versions that were tagged with the DesignSync tag associated with the ProjectSync Alpha configuration.

```
dss> url contents sync://holzt:2647/Projects/Sportster@Alpha
sync://holzt:2647/Projects/Sportster/code@Alpha
dss> url contents sync://holzt:2647/Projects/Sportster/code@Alpha
sync://holzt:2647/Projects/Sportster/code/samp.lst;1.1
sync://holzt:2647/Projects/Sportster/code/samp.mem;1.1
```

url container

url container Command

NAME

```
url container          - Returns the object containing a specified
                        object
```

DESCRIPTION

This command returns the URL of the object (such as a folder) containing the specified object (such as a file).

Note: In stcl/stclc mode, when specifying a URL that contains a semicolon (;), surround the URL with double quotes.

SYNOPSIS

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```
url container [--] <object>
```

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For a client-side versionable objects, returns client-side folder. For server-side objects, returns the vault folder. For projects, returns the vault folder containing the project. For server-side note types, returns parent URL. For server-side notes, returns the note type URL.

For other objects: Returns parent folder, or if no parent folder, returns an empty list. Note: 'url container' does not verify that the object exists.

SEE ALSO

`url contents`

EXAMPLES

- [Example Returning the Local Folder that Contains the Object](#)
- [Example Returning the Server Folder that Contains the Object](#)

Example Returning the Local Folder that Contains the Object

```
This example returns the folder that contains top.v.  
dss> url container top.v  
file:///home/Projects/Sportster/synth
```

Example Returning the Server Folder that Contains the Object

This example returns the server folder that contains the top.v

```

vault.
  stcl> url container [url vault top.v]
  sync://server.company.com:port/Projects/Sportster/synth

```

url contents

url contents Command

NAME

`url contents` - Returns the objects in a container object

DESCRIPTION

This command returns a list of URLs of the objects contained in the specified container object, such as a folder or configuration. If the object is not appropriate for the requested operation, an empty list is returned.

The 'url contents' command is not recursive. For example, 'url contents' on a ProjectSync configuration always returns folders as part of the configuration. You can then invoke 'url contents' on each subfolder in the project.

Note: In stcl/stclc mode, when specifying a URL that contains a semicolon (;), surround the URL with double quotes.

SYNOPSIS

```

url contents [-all | -ifpopulated [-incremental]] [-prefetch]
             [-version <selector>[,<selector>...]] [--] <argument>

```

ARGUMENTS

- [DesignSync Folder](#)
- [DesignSync Vault](#)

Specify one or more of the following arguments:

DesignSync Folder

<DesignSync folder> Returns a list of URLs of files and folders contained in the specified folder in the

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workspace.

DesignSync Vault

<DesignSync vault> Returns a list of the URLs of the different vault versions checked into the specified vault.

OPTIONS

- [-all](#)
- [-ifpopulated](#)
- [-incremental](#)
- [-prefetch](#)
- [-version](#)
- [--](#)

-all

-all Reports the objects in the local folder as well as those objects that would be there if it were fully populated with the contents of the associated vault. If the object is a vault-side object (a vault, version, or branch), this option is ignored.

This option is mutually exclusive with -ifpopulate.

-ifpopulated

-ifpopulated Report the contents of the local folder if it were fully populated with the contents of its associated vault.

You can also specify -incremental to limit the result to return only those objects that would return in an incremental populate as opposed to a full populate. The list is empty if the object is not a local folder.

This option is mutually exclusive with -all.

-incremental

-incremental Modifies -ifpopulated to limit the result to

return the URLs of only those objects that would return in an `-incremental populate`.

Note: You must have at some time performed a full `populate` on the folder for the `-incremental` option to work properly.

-prefetch

`-prefetch` Used for advanced programming; exposes an optimization to the caller. If used, the call to `contents` is slower, but the subsequent enumeration of the returned list has extra information cached. If the caller needs to enumerate the contents and for each object call commands such as `'url tags'` or `'url properties'`, overall performance is better if this option is used. If the caller needs to retrieve only the names of the objects, this option makes the operation slower.

-version

`-version <selector>` Use with `-ifpopulate` or `-all`. Specifies the selector list (typically branch or version tag) to use for the hypothetical `populate`. The default (`-version` not specified) is to inherit the selector from the parent folder.

Note: To use `-version` to specify a branch, specify both the branch and version as follows: `'<branchtag>:<versiontag>'`, for example, `'Rel2:Latest'`. You can also use the shortcut, `'<branchtag>:'`, for example `"Rel2:"`. If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

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For a client-side folder (Asic): Returns list of client-side folders and files (file://home/karen/Asic/Sub file://home/karen/Asic/x.v).

For a vault ("sync://holtz:2647/Projects/Asic/x.v;"): Returns vault versions: ({sync://holtz:2647/Projects/Asic/x.v;1.1} {sync://holtz:2647/Projects/Asic/x.v;1.2} {sync://holtz:2647/Projects/Asic/x.v;1.3}).

For a version ("sync://holtz:2647/Projects/Asic/x.v;1.1", "sync://holtz:2647/Projects/Asic/x.v;yellow"): Not a container object; returns an empty list.

For branch ("sync://holtz:2647/Projects/Asic/x.v;1.5.1", "sync://holtz:2647/Projects/Asic/x.v;Golden:Latest"): Not a container object; returns an empty list.

For a project (sync://holtz:2647/Projects/Asic): Returns vault folder containing project: (sync://holtz:2647/Projects).

For a configuration (sync://holtz:2647/Projects/Asic/Sub@Rell): Returns vault folder: (sync://holtz:2647/Projects/Asic).

For a server-side note system URL (sync:///Note) Returns the list of note systems on the server (currently the only note system is SyncNotes)

For a server-side SyncNotes URL (sync:///Note/SyncNotes): Returns the list of URLs for all note types defined on the server.

For a server-side note-type URL (sync:///Note/SyncNotes/HW-Defect-1): Returns a list of URLs of all notes of type HW-Defect-1.

For a server-side Users URL (sync:///Users) Returns a list of URLs for all user profiles on the server.

For a module folder, returns a list of members in that folder.

For other objects: Returns an empty list.

SEE ALSO

note systems, notetype enumerate, populate, selectors, url container, url notes, url users, url versions

EXAMPLES

- [Sample File Structure for Examples](#)
- [Example of Local Folder Contents](#)
- [Example of Vault Folder Contents](#)
- [Example of Returning the Contents of a Branch](#)
- [Example Showing the Contents Resulting from Full Populate](#)

- [Example Showing the Contents Resulting From Incremental Populate](#)
- [Example Showing Contents Resulting From Populate with Selector](#)
- [Example Showing Contents Resulting from Populate with Configuration](#)

Sample File Structure for Examples

In the following examples, the local work area /Projects/ASIC contains the following:

```

ASIC
  FileA          # Three versions exist in the vault
  FileB          # There is a new version in the vault
  FileC          # Not under revision control
  FileD          # In the vault, but not in local working directory
Decoder
  FileE          # There is a new version in the vault
  FileF          # Only file to have tag 'Gold' (version 1.2)

```

Example of Local Folder Contents

Return contents of local folder ASIC

```

dss> url contents /Projects/ASIC
file:///Projects/ASIC/Decoder
file:///Projects/ASIC/FileA
file:///Projects/ASIC/FileB
file:///Projects/ASIC/FileC

```

Example of Vault Folder Contents

Return contents of vault folder ASIC

```

dss> url contents sync://holzt:2647/Projects/ASIC
sync://holzt:2647/Projects/ASIC/Decoder
sync://holzt:2647/Projects/ASIC/FileA;
sync://holzt:2647/Projects/ASIC/FileB;
sync://holzt:2647/Projects/ASIC/FileD;

```

Example of Returning the Contents of a Branch

Return contents of FileA main branch

```

dss> url contents "sync://holzt:2647/Projects/ASIC/FileA;1"
sync://holzt:2647/Projects/ASIC/FileA;1.1
sync://holzt:2647/Projects/ASIC/FileA;1.2
sync://holzt:2647/Projects/ASIC/FileA;1.3

```

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Example Showing the Contents Resulting from Full Populate

Return contents of /Project/ASIC resulting from full populate

```
dss> url contents -ifpopulated /Projects/ASIC
file:///Projects/ASIC/Decoder
file:///Projects/ASIC/FileA
file:///Projects/ASIC/FileB
file:///Projects/ASIC/FileD
```

Example Showing the Contents Resulting From Incremental Populate

Return updated objects of /Project/ASIC after incremental populate

```
dss> url contents -ifpopulated -incremental /Projects/ASIC
file:///Projects/ASIC/Decoder
file:///Projects/ASIC/FileB
file:///Projects/ASIC/FileD
```

Example Showing Contents Resulting From Populate with Selector

Return what is populated when the selector is "Gold", which can be a version or branch tag

```
dss> url contents -ifpopulated -version Gold /Projects/ASIC
file:///Projects/ASIC/Decoder
```

Example Showing Contents Resulting from Populate with Configuration

Return the contents of the ASIC project's "Gold" configuration

```
dss> url contents sync://holzt:2647/Projects/ASIC@Gold
sync://holzt:2647/Projects/ASIC/Decoder@Gold

dss> url contents sync://holzt:2647/Projects/ASIC/Decoder@Gold
sync://holzt:2647/Projects/ASIC/Decoder/FileF;1.2
```

url exists

url exists Command

NAME

url exists - Reports whether an object exists

DESCRIPTION

This command determines whether an object physically exists either in the workspace or in the vault. If it exists, returns 1, if not returns 0.

SYNOPSIS

```
url exists [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specify one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object whose existence you want to verify. Returns 1 if it physically exists. Else returns 0. Returns the same value for vault, branch, version, folder, note, project and unmanaged objects.

Note: A DesignSync reference to a checked-in file returns the value 1 to distinguish it from a file that was never brought into the user's work area.

OPTIONS

- [--](#)

```
--
```

```
--
```

Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all existing objects: Returns 1 (Tcl TRUE).
For nonexistent objects: Returns 0 (Tcl FALSE).

SEE ALSO

url modified, url registered, url retired

EXAMPLES

- [Example of Verifying the Existence of File-Based Objects](#)

Example of Verifying the Existence of File-Based Objects

This example uses 'url exists' to verify the existence of several files.

```
stcl> ls -report OR top*
Object Type      Version          Name
-----
File             1.2             top.gv
File             1.2 -> 1.3      top.v
File             Unmanaged       top.log
Referenced File  Refers to: 1.1  top.f
```

```
stcl> url exists top.gv
1
stcl> url exists top.f
1
stcl> url exists top.log
1
stcl> url exists top.txt
0
```

url fetchedstate

url fetchedstate Command

NAME

url fetchedstate - Returns the fetched state of an object

DESCRIPTION

This command returns the fetched state of the specified object. The fetch state answers the question: "How was this object checked out into my local work area?" Possible states are:

- Lock - Object was checked out with a lock. Note that the object is not necessarily still locked; another user could have unlocked it.
- Copy - Object was checked out unlocked (replica).
- Mirror - Object was checked out as a link to an object in the mirror directory.
- Cache - Object was checked out as a link to an object in the cache.
- Reference - Object was checked out as a reference.
Note: For locked references, the fetched state returned is 'Lock'.
- NotFetched - Object was not fetched using DesignSync. The object is one of the following:
 - o Not versionable (folder, version, and so on)
 - o Not under revision control
 - o Under revision control, but not fetched into the work area by DesignSync (for example, could be a tool's output, or could have been copied at the operating-system level)

Note: If the object is not under revision control and is a link, a return value of "Mirror" instead of "NotFetched" can result.

SYNOPSIS

```
url fetchedstate [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the fetched state.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for

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command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

Returns one of the following strings "Lock", "Copy", "Mirror", "Cache", "Reference", "NotFetched" as indicated below:

For a managed object (specify as client-side object: (Asic/x.v or file://.../Asic/x.v): Returns "Lock", "Copy", "Mirror", "Cache", or "Reference" depending on the command used to fetch the object.

For an object not under revision control: Returns "NotFetched".

For a link not under revision control: Returns "Mirror".

For a nonversionable object (not a folder, collection, nor file): Returns "NotFetched".

For an object under revision control, but not fetched into the work area by DesignSync: Returns "NotFetched".

SEE ALSO

ls, url registered

EXAMPLES

- [Example Showing Fetch State of File-Based Objects](#)

Example Showing Fetch State of File-Based Objects

This example uses 'url fetchedstate' to return the fetched states for several objects:

```
dss> ls -report OR top*
Object Type      Version          Name
-----
File             1.2             top.gv
File             1.2 -> 1.3      top.v
File             Unmanaged       top.log
Referenced File  Refers to: 1.1  top.f
```

```
dss> url fetchedstate top.gv
Copy
dss> url fetchedstate top.v
Lock
dss> url fetchedstate top.log
```

```
NotFetched
dss> url fetchedstate top.f
Reference
```

url fetchtime

url fetchtime Command

NAME

```
url fetchtime      - Returns the time when an object was fetched
```

DESCRIPTION

This command returns when the specified object was checked out into your work area. The 'url fetchtime' command actually returns the timestamp of the object when the object was fetched, not the time of the fetch itself. Therefore, the value returned by 'url fetchtime' depends on whether or not you specified the -retain option when you fetched the object.

Note: If you used 'populate -mirror' to fetch the object to your work area, then a 'url fetchtime' operation for the object always returns 0.

The fetch time is unaffected by making local modifications to the object. In fact, the fetch time and modification time being different is an indicator that the file has been locally modified.

Specify an object in your work area as the argument to 'url fetchtime'.

SYNOPSIS

```
url fetchtime [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specify one of the following arguments:

DesignSync Object

ENOVIA Synchronicity Command Reference - File

<DesignSync object> Specifies the DesignSync object for which you want the time when it was fetched into your work area.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the object you specify begins with a hyphen (-).

RETURN VALUE

For a managed object specified as a client-side object (Asic/x.v or file://.../Asic/x.v): Returns the fetched time in `time_t` format, which is the number of seconds since the birth of UNIX -- January 1, 00:00:00, 1970 (GMT).

For an object reference (or other objects that lack fetch time metadata): Returns 0.

For an object not under revision control: Returns 0.

For a nonversionable object (not a folder, collection, nor file): Returns 0.

Note: You can use the Tcl 'clock format' command to convert the `time_t` format to a date string.

SEE ALSO

`url fetchedstate`, `url locktime`, `url properties`

EXAMPLES

- [Example Showing Last Fetchtime of a DesignSync File-Based Object](#)

Example Showing Last Fetchtime of a DesignSync File-Based Object

This example displays how long, in seconds, `top.v` has been in your work area:

```

set now [clock seconds]
set objfetchtime [url fetchtime top.v]
if { $objfetchtime == 0 } {
    puts "top.v is a reference."
} else {
    set duration [expr $now - $objfetchtime]
    puts "top.v fetched to this directory $duration seconds ago."
}

```

url getprop

url getprop Command

NAME

url getprop - Retrieves a property of an object

DESCRIPTION

This command retrieves properties that were previously set with 'url setprop'. You can use 'url getprop' to access the "type" and "locked" properties of revision control objects; however, you cannot use 'url getprop' to access all of the special, built-in properties as returned by the 'url properties' command for objects other than notes, notetypes, users, and project configurations. For example, you cannot determine when an object was locked by using 'url getprop' of the property "locktime".

Both the object and property must exist. For a note system URL, this command always throws NO_SUCH_PROP. For a note type URL, this command returns the default value for that property on the note type.

You can use 'url getprop' with any object type. However, depending on the type, the command may only work in server-side scripts, such as when accessing notes.

DesignSync automatically determines the data type of an object. You can get the datatype assigned by DesignSync using the 'url getprop' command. You can also use the 'url setprop' command to change the datatype of an existing object. See 'url setprop' and 'ci' commands for more information.

Note: If the URL provided for the argument has a non-numeric extension, the url getprop command identifies the object as a branch and not a version.

ENOVIA Synchronicity Command Reference - File

SYNOPSIS

```
url getprop [--] <argument> <propertyName>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the properties previously set by the 'url setprop' command.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

OPERANDS

- [Object](#)
- [Property Name](#)

Object

<object> A valid object URL.

Property Name

<propertyName> The name of a property to retrieve from the object.

RETURN VALUE

For all valid arguments, returns the value set for the specified user-defined property as a string. also returns the values for the built-in 'type' and 'locked' properties.

For other objects: Raises error.

SEE ALSO

note getprop, url setprop, url properties, note setprops

EXAMPLES

- [Example of Getting a User Defined Property for Use in a Script](#)

Example of Getting a User Defined Property for Use in a Script

This example server-side script sets and displays a CcList user-defined property on a vault.

```
url setprop "sync:///Projects/myproj/foo.v;" CcList {sal mark}
puts [url getprop "sync:///Projects/myproj/foo.v;" CcList]
```

url inconflict

url inconflict Command

NAME

```
url inconflict      - Checks if a file merge had conflicts
```

DESCRIPTION

This command checks whether a merge (see the `-merge` option for the `populate` and `co` commands) resulted in conflicts (returns 1) or not (returns 0). You must resolve merge conflicts before you can check in the file. The conflicts are considered resolved when the file no longer contains any of the conflict delimiters (exactly 7 less-than, greater-than, or equal signs starting in column 1).

SYNOPSIS

ENOVIA Synchronicity Command Reference - File

```
url inconflct [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want to know the conflict status.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For a client-side versionable object (Asic/x.v): Returns 1 (Tcl TRUE) if there is a conflict after a merge; returns 0 (Tcl FALSE) otherwise.

For any invalid arguments or objects that do not exist, the command returns 0.

SEE ALSO

url modified

EXAMPLES

- [Example Showing the Merge Status of a File-Based Object](#)

Example Showing the Merge Status of a File-Based Object

This example demonstrates how 'url inconflict' identifies a file with conflicts.

```
dss> url inconflict top.v
0
dss> ci -nocomment -keep top.v
```

Beginning Check in operation...

```
Checking out: top.v      : Failed:som: Error 105: Newer version
exists in the vault.  Use '-skip' to skip the newer version, or
'co -merge' to merge with it.
```

```
dss> co -merge -nocomment top.v
```

Beginning Check out operation...

```
Success - Checked Out with conflicts version: 1.2
dss> url inconflict top.v
1
```

url leaf**url leaf Command****NAME**

```
url leaf          - Returns the leaf of the URL
```

DESCRIPTION

Returns the leaf of the URL. The leaf is the text that follows the last separator.

Note: In stcl/stclc mode, when specifying a URL that contains a semicolon (;), surround the URL with double quotes.

SYNOPSIS

```
url leaf [--] <argument>
```

ARGUMENTS

ENOVIA Synchronicity Command Reference - File

Specifies one of the following arguments:

OPTIONS

- `--`

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For a client-side versionable object (Asic/x.v): Returns a string containing the leaf of its path (x.v).

For a client-side folder (Asic): Returns the leaf of its path (Asic).

For a vault ("sync://holzt:2647/Projects/Asic/x.v;"): Returns the vault name (x.v;).

For a version ("sync://holzt:2647/Projects/Asic/x.v;1.1", "sync://holzt:2647/Projects/Asic/x.v;yellow"): Returns object and version (x.v;1.1).

For a branch ("sync://holzt:2647/Projects/Asic/x.v;1.5.1", "sync://holzt:2647/Projects/Asic/x.v;Golden:Latest"): Returns object and branch name (x.v;1).

For a project (sync://holzt:2647/Projects/Asic): Returns the project name: (Asic).

For a configuration (sync://holzt:2647/Projects/Asic/Sub@Rel1): Returns the configuration name: (sub@Rel1).

For a server-side note type URL (sync:///Note/SyncNotes/HW-Defect-1): Returns note type (HW-Defect-1).

For a server-side note URL (sync:///Note/SyncNotes/HW-Defect-1/1): Returns note ID (1).

For other objects: Returns argument provided.

Note: 'url leaf' does not verify that the object exists.

SEE ALSO

url path

EXAMPLES

```
This example extracts the leaf "ASIC" from a URL.
dss> url leaf sync://dvorak:2647/Projects/ASIC
ASIC
```

url locktime**url locktime Command****NAME**

url locktime - Returns when a branch was locked

DESCRIPTION

This commands returns when the branch associated with the specified object was locked. Specify a local object or a branch as the argument. If you specify a local object, 'url locktime' determines the current branch for the object.

One application for this command is to determine if any branches have been locked too long based on a project team's design management policies. You might trigger email reminders or perform unlock operations on objects that have been locked too long.

SYNOPSIS

```
url locktime [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

ENOVIA Synchronicity Command Reference - File

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the associated branch or version locktime.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the object you specify begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the lock time, in time_t format; or, if the object is not locked, returns 0. For any invalid arguments, returns 0.

For any non-existent objects, returns error.

Note: The time_t format is the number of seconds since the birth of UNIX -- January 1, 00:00:00, 1970 (GMT). You can use the Tcl 'clock format' command to convert the time_t format to a date string.

SEE ALSO

url fetchtime, url properties

EXAMPLES

- [Example of Viewing the Locktime of a File](#)

Example of Viewing the Locktime of a File

This example notifies the locker of top.v if top.v has been locked for more than a week:

```
# Compute the number of seconds in a week
```

```

set week [expr 60 * 60 * 24 * 7]
# Find out who the locker is
url properties top.v props
set locker $props(locked)
# Is the file locked?
# Could also check whether the file is locked by using
# 'url locktime' itself -- it returns '0' if the file is not
# locked.
if { $locker != 0 } {
    # Figure out how long the file has been locked
    set now [clock seconds]
    set objlocktime [url locktime top.v]
    # If more than a week, send email
    if { $now - $objlocktime > $week } {
        #
        # Provide command to send mail here
        #
        puts "Sent mail to $locker."
    } else {puts "top.v hasn't been locked too long."}
} else {puts "top.v is not locked."}

```

Note that if the branch is not locked, then objlocktime is 0, so 'now - objlocktime' is very large and does not convey the right information. This example therefore uses 'url properties' to first determine if the branch is locked before calling 'url locktime'.

url members

url members Command

NAME

url members - Returns the members of the specified collection

DESCRIPTION

This command returns the list of members for the specified collection object. Specify the collection as a URL or path. DesignSync currently supports the following collection object type:

- Cadence cell views
 - The members of a Cadence cell view collection object are determined by the Cadence software.
- Synopsys cell view collections.
- Custom generic collections (CTP collections).

This command can return the list of members with full (absolute) paths or paths relative to the collection

When in stcl/stclc mode only, you can optionally specify Tcl variable and code arguments. When specified, the command iterates through the

ENOVIA Synchronicity Command Reference - File

returned list of member objects (see Examples).

This command supports the command defaults system.

SYNOPSIS

```
url members -[no]relative [--] <collection> [<varname> <code>]
```

OPTIONS

- [-\[no\]relative](#)
- [--](#)

-[no]relative

-[no]relative Indicates whether members are displayed using a relative or absolute path.

-norelative displays the members using an absolute path (Default).

-relative displays the output of the command as the relative path. This output is useful for identifying the collection cell view version of a member for comparing against a different member version.

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

For a collection specified as a URL or path
(file:///home/projLeader/ttlLib/and2/symbol.sync.cds,
/home/projLeader/ttlLib/and2/symbol.sync.cds):
Returns a list of URLs of view members
(file:///home/projleader/ttlLib/and2/symbol/symbol.cdb
file:///home/projleader/ttlLib/and2/symbol/pc.db
file:///home/projleader/ttlLib/and2/symbol/master.tag)

For other objects: Returns an empty list.

EXAMPLES

This example returns the members of the symbol.sync.cds Cadence cell view:

```
stcl> url members symbol.sync.cds
file:///home/goss/Projects/Cadence/smallLib/and2/symbol/symbol.cdb
file:///home/goss/Projects/Cadence/smallLib/and2/symbol/master.tag
file:///home/goss/projects/Cadence/smallLib/and2/symbol/pc.db
...
```

url mirror

url mirror Command

NAME

url mirror - Returns the URL of a local directory's mirror

DESCRIPTION

This command returns the URL of the mirror directory that was associated with a local directory with the setmirror command. If no mirror is set, an empty string is returned.

Note: Because of the way mirrors is configured for modules, this command does not return any useful information in a modules environment. For information on using mirrors in a module environment, see the DesignSync Data Manager Administrator's Guide.

SYNOPSIS

```
url mirror [--] <directory>
```

OPTIONS

- **--**

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For a folder with a mirror association: Returns URL of the mirror folder.

For other objects: Returns an empty list.

SEE ALSO

setmirror

EXAMPLES

This example sets the mirror for a directory, then uses 'url mirror' to display the directory's mirror.

```
dss> setmirror /home/goss/mirror /home/goss/Projects/Sportster
Sportster Success Set Mirror
dss> url mirror /home/goss/Projects/Sportster
file:///home/goss/mirror
```

url modified

url modified Command

NAME

url modified - Checks if an object has been modified

DESCRIPTION

This command determines whether an object has been modified since it was fetched (returns 1) or not (returns 0).

Objects not under revision control are always flagged as modified. Because of this behavior, 'url modified' provides a way to determine what objects need to be checked in to preserve the folder's current contents. Only by checking in both revision-controlled objects that are modified and objects that are not revision controlled will the vault contain all of the folder's current contents. Use 'url registered' to determine whether objects flagged as modified are under revision control.

SYNOPSIS

```
url modified [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one or more of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want to find modified status. Returns 1 if the object has been modified since it was fetched from the vault. Else returns 0.

OPTIONS

- [--](#)

```
--
```

```
--          Indicates that the command should stop looking for
             command options. Use this option when the argument
             to the command begins with a hyphen (-).
```

RETURN VALUE

For any valid object, returns 1 (Tcl TRUE) if the object has been modified or is not under revision control. If the object has not been modified, it returns 0 (tcl FALSE).

For any non-applicable or non-existent object, returns 0.

SEE ALSO

url exists, url registered, url inconflict

EXAMPLES

ENOVIA Synchronicity Command Reference - File

- [Example Showing If the Files in the Workspace are Modified](#)

Example Showing If the Files in the Workspace are Modified

This example shows various results using 'url modified' and 'url registered':

```
dss> ls -report ORS top*
Object Type      Version              Status      Name
-----
File             1.2                 Locally Modified top.gv
File             1.2 -> 1.3          Up-to-date  top.v
File             Unmanaged           -           top.log
Referenced File  Refers to: 1.1      Up-to-date  top.f
dss> url modified top.gv
1
dss> url modified top.v
0
dss> url modified top.log
1
dss> url registered top.v
1
dss> url registered top.log
0
```

url notes

url notes Command

NAME

```
url notes          - Returns the notes attached to the specified
                   object
```

DESCRIPTION

This command gathers a list of notes attached to a DesignSync object or a server module (branch or version). Because notes are objects addressed by URLs, this command returns a list of URLs. The list may be filtered by note type and by a specific set of query criteria on the note type. When applied to RevisionControl notes, the url notes command searches the Objects field.

This command is a wrapper for: `note query [-type <notetype> -attached <ObjectUrl> -dbquery <Query>]`. In most cases, the note query command provides superior capabilities.

The url notes command' is server-side only. For more information, see the "server-side" and "rstcl" help topics.

SYNOPSIS

```
url notes [-type <type> [-dbquery <query>]] [--]
          <argument>
```

ARGUMENTS

- [DesignSync File](#)

Specifies one of the following arguments:

DesignSync File

<DesignSync object> Specifies the DesignSync object to which the notes are attached. If no notes are attached, returns an empty list.

OPTIONS

- [-type](#)
- [-dbquery](#)
- [--](#)

-type

-type <type> The name of a note type, which must exist, to query against.

-dbquery

-dbquery <query> A valid dBase query string, used to further constrain the set of notes returned.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

OPERANDS

- [Object](#)

Object

<object> A valid object URL.

RETURN VALUE

For any valid object, returns a list of note URLs; or, if there are no notes attached, an empty list.

For any invalid object, returns an error.

For any non-existent object, returns an empty list.

SEE ALSO

note links, note query, url contents

EXAMPLES

- [Example Showing the List of Specific Note Types in a Specific State](#)
- [Example of a Script Fragment that Extracts Attached Note Information](#)

Example Showing the List of Specific Note Types in a Specific State

The following example returns the list of SyncDefect notes in the open state attached to the Munich project:

```
set notes [url notes
  sync:///Projects/Munich -type SyncDefect -dbquery "State='open'"]
```

Example of a Script Fragment that Extracts Attached Note Information

The following excerpt of a server-side script extracts all of the notes in all of the projects on a SyncServer and prints their titles. The excerpt uses the 'url notes' command to extract the notes of a project.

```
foreach project [url projects sync:///] {
  foreach note [url notes $project] {
```

```

    puts <pre>
    puts "Project: $project"
    puts "NoteURL: $note"
    puts "Notetype: [url leaf [url container $note]]"
    puts "Note Id: [url leaf [url path $note]]"
    puts "Note Title: [note getprop $note Title]"
    puts </pre>
  }
}

```

url owner

url owner Command

NAME

`url owner` - Returns the owner of an object

DESCRIPTION

This command returns the owner of the specified object. The object can be a project, project configuration, branch, or vault.

The owner of a branch is the creator of the initial version of the branch unless a different owner has been specified with the `setowner` command. For example, the default owner of the Trunk branch (branch 1) is the creator of version 1.1. The owner of a design object's vault is defined as the owner of the object's Trunk branch.

The `'url properties'` command also returns an object's owner. Use `'url properties'` when you need more property information than just the object owner.

SYNOPSIS

```
url owner [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

ENOVIA Synchronicity Command Reference - File

<DesignSync object> Specifies the DesignSync object for which you want the owner.

OPTIONS

- `--`

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the username of the object owner.

For all invalid or non-existent objects, returns an applicable error.

SEE ALSO

setowner, url properties

EXAMPLES

- [Example Changing the Owner of a File-Based Object](#)
- [Example of Returning the Owner of the File-based Project](#)

Example Changing the Owner of a File-Based Object

This example returns the owner (barbg) of the main branch of reg5.v. The owner is then changed to 'goss' and the change is verified. Note that the second 'url owner' command passes the vault as the argument, which shows that the vault owner is always the owner of the main branch.

```
stcl> url owner "sync://holzt:2647/Projects/Sportster/decoder/
reg5.v;1"
barbg
stcl> setowner "sync://holzt:2647/Projects/Sportster/decoder/
reg5.v;1" goss
Success: setowner
stcl> url owner [url vault reg5.v]
goss
```

Example of Returning the Owner of the File-based Project

This example returns the owner of a ProjectSync project called ASIC, and the owner of the Alpha configuration.

```
stcl> url owner "sync://vonnegut:2647/Projects/ASIC"
mmf
stcl> url owner "sync://vonnegut:2647/Projects/ASIC@Alpha"
wayne
```

url path**url path Command****NAME**

```
url path          - Extracts the path section of a URL
```

DESCRIPTION

This command extracts the path section of a URL, stripping off the protocol and machine name. This command also returns the absolute path of an object when a relative path is specified.

Note: In stcl/stclc mode, when specifying a URL that contains a semicolon (;), surround the URL with double quotes.

On Windows, this command returns a localized path using "\" characters, instead of "/" characters. Use the following Tcl example to reverse the "\" characters:

```
stcl> url path .
e:\build\main\src\doc\
stcl> join [split [url path .] \\] /
e:/build/main/src/doc
```

SYNOPSIS

```
url path [--] <object>
```

OPTIONS

ENOVIA Synchronicity Command Reference - File

- [=](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the absolute path without URL protocol or host information, (for example, /home/karen/Asic/x.v).

For other objects, including non-existent objects: Returns absolute path of the current directory with the object concatenated; for example, 'url path' applied to a nonexistent file named 'junk' returns /home/karen/junk. The 'url path' command does not verify that the object exists.

SEE ALSO

url leaf, url getprop

EXAMPLES

- [Example Showing How to Get Path and Reverse the Separator](#)
- [Example Showing the URL Path of a File-based Server Object](#)
- [Example Showing the URL Path of a File-based Workspace Object](#)

Example Showing How to Get Path and Reverse the Separator

This example shows how to reverse the "\" characters on Windows:

```
stcl> url path .
e:\build\main\src\doc\
stcl> join [split [url path .] \\] /
e:/build/main/src/doc
```

Example Showing the URL Path of a File-based Server Object

This example extracts the path "/Projects/ASIC/" from a URL.

```
dss> url path sync://dvorak:2647/Projects/ASIC
/Projects/ASIC
```

Example Showing the URL Path of a File-based Workspace Object

This example returns the full path of top.v, which is in the current working directory:

```
dss> url path top.v
/home/Projects/Sportster/synth
```

url projects**url projects Command****NAME**

```
url projects          - Returns a SyncServer's ProjectSync projects
```

DESCRIPTION

This command returns the list of all ProjectSync projects defined on the specified SyncServer. See ProjectSync User's Guide for details on creating projects. Note that:

- o ProjectSync projects may or may not have an associated DesignSync vault. You specify whether the project has an associated vault when you create the project.
- o Creating a DesignSync project vault, even when located in a SyncServer's Projects directory, does not automatically create a ProjectSync project. You must independently create the ProjectSync project and associate it with the DesignSync vault.

The 'url projects' command accepts one argument, a sync: URL. When run from a server-side script, the projects defined on the SyncServer running the script are returned (the specified argument is always mapped to sync:///Projects). When run from a client, the projects defined on the SyncServer specified by the URL are returned (the specified argument is always mapped to sync://<host>:<port>/Projects). When run from the client or server, 'url projects' returns an empty string if you specify a file: URL.

SYNOPSIS

```
url projects <object>
```

OPTIONS

ENOVIA Synchronicity Command Reference - File

none

RETURN VALUE

For all valid objects, returns the projects defined for the specified server. In server-side scripts, 'url projects' returns the projects defined on the server on which the script is running.

For non-applicable or non-existent objects, returns empty list.

SEE ALSO

url configs, url users

EXAMPLES

This example shows two methods for returning the ProjectSync projects on the holzt:2647 SyncServer.

```
stcl> url projects sync://holzt:2647
sync://holzt:2647/Projects/Sportster sync://holzt:2647/Projects/Test
stcl> url projects [url vault top.v]
sync://holzt:2647/Projects/Sportster sync://holzt:2647/Projects/Test
```

url properties

url properties Command

NAME

url properties - Returns properties for the specified object

DESCRIPTION

- [Properties of File Objects](#)

This command retrieves all the properties of the specified object and returns the values in a Tcl array passed by name. The Tcl array need not exist prior to the call. If the array does exist, its contents are first emptied and then filled in with the property data for the object. If <varname> was previously set as a scalar

variable, it is changed to an array by this command. If the command encounters an error, <varname> is left unset, regardless of its prior state. The Tcl array is indexed by property name.

The properties defined for an object depend on the object's type:

- note - The current property values on the note.
- note type - The default property values of the note type.
- note system - An empty set.
- user - The fixed set of properties of the user profile: EmailAddr, Key, Name, PageNumber, PhoneNumbr, UserList and Username. For backward compatibility, the shadow properties email, name, pager, phone, and userName are also returned.

Properties of File Objects

The properties on an object can be:

- name - The name of the specified object.
- description - The generic description for the object, or an empty string if none exists.
- type - The type of the specified object. Examples are File, Folder, Vault, Version, Branch, Project, and Project Configuration.
Note: There may be other types present as a result of using the CustomType System, DesignSync DFII or DesignSync Custom Compiler.
- owner - The owner of the object. The following object types have owners: projects, project configurations, vaults, and branches. If owner is the only property you are interested in, use 'url owner'.
- locked - The name of the user who has the object locked, or '0' if it is unlocked. A non-zero value can be expected only for files, vaults, branches, and versions. If a vault is specified, the default branch is examined. Specifying a file has the same effect as specifying the file's current branch to the command.
- locktime - The time, in time_t format, that the object was locked (if the object is locked -- value of 'locked' property is nonzero), otherwise '0'. If locktime is the only property you are interested in, use 'url locktime'. Note that you can convert the time_t format to a date string using the Tcl 'clock format' command.
- citime - The time, in time_t format, that a version was created in the vault. This time is not influenced by the "-retain" option to ci/co/populate; citime is always the actual time the version was created. Note that you can convert the time_t format to a date string using the Tcl 'clock format' command.
- log - The log information for the specified object. If the object is a version, its checkin log is returned, unless it is a placeholder (upcoming) version, in

ENOVIA Synchronicity Command Reference - File

- which case its checkout log is returned. If the object is a file, its ongoing log is returned.
- selector - The selector list (tag) associated with a ProjectSync project configuration that identifies the versions of DesignSync data that are part of the configuration.
- exposure - The list of team members (usernames) associated with a project configuration. The configuration owner is always included in the exposure list. Note that if the member list is the default of all users defined on the SyncServer, then the exposure list is empty.
- parents - The parent workspace(s) of the object.

Note that you use 'url properties' to access predefined (built-in) properties. To access user-defined properties, as created by 'url setprop', use 'url getprop'. You cannot use 'url setprop' to modify these built-in properties.

SYNOPSIS

```
url properties [--] <argument> <array_name>
```

ARGUMENTS

- [DesignSync Object](#)
- [Array Name](#)

Specify the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the predefined properties. The properties are returned in a Tcl array passed by name.

Array Name

<array_name> The name of a Tcl variable in which to store the property values returned.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-)._

RETURN VALUE

Returns the property values indicated in the supplied array variable:

For a client-side versionable object (Asic/x.v): Returns these property values in the supplied array variable: name, type, locked, locktime, citime, and log.

For a client-side folder (Asic/Sub): Returns these property values: name and type.

For a server-side note type URL (sync:///Note/SyncNotes/HW-Defect-1): Returns the properties of the note type. Values are only listed for those properties that have default values specified in the note type definition.

For a server-side note URL (sync:///Note/SyncNotes/HW-Defect-1/1): Returns the properties of the note type, as well as the values set for those properties.

For a user URL (sync:///Users/chris): Returns the property values set for that user.

For a version ("sync://holzt:2647/Projects/Asic/x.v;1.1", "sync://holzt:2647/Projects/Asic/x.v;yellow"): Returns these property values: name, type, locked, locktime, citime, and log.

For a branch ("sync://holzt:2647/Projects/Asic/x.v;1.5.1", "sync://holzt:2647/Projects/Asic/x.v;Golden:Latest"): Returns these property values: name, type, owner, locked, locktime, citime, and log.

For a vault ("sync://holzt:2647/Projects/Asic/x.v;"): Returns these property values: name, type, owner, locked, locktime, citime, and log.

For a project (sync://holzt:2647/Projects/Asic): Returns these property values: name, description, type, and owner.

For a configuration ("sync://holzt:2647/Projects/Asic/Sub@Rel1"): Returns these property values: name, description, type, owner, selector, and exposure.

For any invalid object, returns an appropriate error.

SEE ALSO

ENOVIA Synchronicity Command Reference - File

note getprop, note setprops, url getprop, url setprop, url locktime,
url owner, server-side

EXAMPLES

- [Example Scripts Showing a Specific Property](#)
- [Example Script Showing All Properties of a Project](#)

Example Scripts Showing a Specific Property

In this example (server-side script), each property for user Joe Brown is displayed:

```
url properties "sync:///Users/jbrown" userProps
foreach prop [array names userProps] {
  puts "Prop $prop=$userProps($prop)<BR>"
}
```

The properties that are displayed by this script are for User web object type.

In this example (server-side script), the field and field values of note number 3 of the BugReport notetype are returned:

```
url properties "sync:///Note/SyncNotes/BugReport/3" noteProps
foreach prop [array names noteProps] {
  puts "Prop $prop=$noteProps($prop)<BR>"
}
```

The HTML page resulting from this script is:

```
Prop KeyWords=Release Notes
Prop State=new
Prop Resp=goss
Prop CCList=
Prop Customer=Other
Prop DateCreate=2003-05-29 12:34:56
Prop Author=goss
Prop Severity=STOPPER
<and so on>
```

In this example, the properties for the user 'jbrown' are returned:

```
url properties "sync:///Users/jbrown" userProps
foreach prop [array names userProps] {
  puts "Prop $prop=$userProps($prop)<BR>"
}
```

The HTML page resulting from this script is:

```
Prop Key=gdyb21LQTcIANtvYMT7QVQ==
Prop UserList=
```

```

Prop PhoneNumbr=555-5555
Prop InitVector=
Prop Username=jbrown
Prop userName=jbrown
Prop email=jbrown@synchronicity.com
Prop Name=Joe Brown
Prop name=Joe Brown
Prop phone=555-5555
Prop EmailAddr=jbrown@synchronicity.com
Prop PageNumber=555-6666
Prop pager=555-6666

```

Notes:

- The Key property is the user's encrypted password.
- The InitVector property records the expiration time of a user profile that was created from an LDAP database.

Example Script Showing All Properties of a Project

This server-side stcl script outputs all the properties of the Asic project, each on its own line:

```

url properties "sync:///Projects/Asic" Props
foreach prop [array names Props] {
  puts "Prop $prop=$Props($prop)<BR>"
}

```

For use on the client side, you must specify the <host>:<port> in the URL of the project. Also, the HTML
 tag to control the output formatting does not apply:

```

url properties "sync://holzt:2647/Projects/Asic" Props
foreach prop [array names Props] {
  puts "Prop $prop=$Props($prop)"
}

```

For the server-side script, the results are displayed as an HTML page in your browser. For the client-side script, the results are output to stdout.

url registered**url registered Command****NAME**

```

url registered      - Checks whether an object is under revision
                    control

```

ENOVIA Synchronicity Command Reference - File

DESCRIPTION

This command checks whether an object has been put under revision control (returns 1) or not (returns 0). Objects that cannot be put under revision control always return 0.

The `url registered` command looks up an object on the server to verify that the object is under revision control. By contrast, the `-managed` option to `ls` command checks the workspace metadata to see if the object is managed.

SYNOPSIS

```
url registered [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want to know the revision control status.

OPTIONS

- `--`

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

If the object is under revision control, returns 1 (Tcl TRUE). If the object is not under revision control, returns 0 (Tcl FALSE).

If the object does not exist or cannot be versioned, returns 0.

SEE ALSO

url exists, url fetchedstate

EXAMPLES

- [Example Showing Whether a File Under Revision Control](#)
- [Example Showing a File Deleted From the Server](#)

Example Showing Whether a File Under Revision Control

This example checks whether files are under revision control:

```
dss> ls -report ORS top*
Object Type      Version                Status      Name
-----
File             1.2                   Locally Modified top.gv
File             1.2 -> 1.3           Up-to-date  top.v
File             Unmanaged              -          top.log
Referenced File  Refers to: 1.1       Up-to-date  top.f
```

```
dss> url registered top.gv
1
dss> url registered top.v
1
dss> url registered top.f
1
dss> url registered top.log
0
```

Example Showing a File Deleted From the Server

This example shows a file that has been removed on the server. Note that `ls -managed` shows the file as managed, while `url registered` does not.

Note: This example shows a file removed with `rmvault`. Files that are removed from a module or retired from DesignSync are still DesignSync objects and show as registered.

```
stcl> rmvault sync://tallis:30132/Projects/example/file1.txt;
file1.txt;: Success deleted
```

```
stcl> ls -managed ./file1.txt
Time Stamp      WS Status  Version  Type      Name
-----
09/19/2007 10:14      -          1.1      Copy      file1.txt
```


ENOVIA Synchronicity Command Reference - File

```
stcl> url registered file1.txt
0
```

url relations

url relations Command

NAME

url relations - Determine collection object dependencies

DESCRIPTION

This command returns the objects on which a given collection object depends. Specify the collection as a URL or path. The relationship specification (`relation_name` argument) supported by DesignSync for Cadence cell view collections is "dependencies". For custom generic (CTP) collections, DesignSync supports any relation name set up for the collection.

This command is useful for determining the entire set of files associated with a design object. For example, you might create an `stcl` script that returns all of the dependencies of a collection object, then checks out the collection object and its dependencies.

When in `stcl/stclc` mode only, you can optionally specify `Tcl` variable and code arguments. When specified, the command iterates through the returned list of member objects (see Examples).

The `url relations` command supports the following collection objects:

- Cadence cell views
 - The 'url relations' command determines dependencies from the `pc.db` file, which is located in the cell view folder.
 - Use the 'addcdslib' command to resolve dependency paths.
- Custom generic (CTP) collections
 - For these collections, DesignSync supports any relation name set up for the collection.

SYNOPSIS

```
url relations [--] <collection> <relation_name> [<varname> <code>]
```

OPTIONS

- ==

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

For a collection specified as a URL or path
(file:///home/projLeader/ttlLib/and2/symbol.sync.cds,
/home/projLeader/ttlLib/and2/symbol.sync.cds):
Returns a list of URLs of objects on which this collection is
dependent as a list of lists, each sublist containing two
values: a collection URL and a string of the format "alias:name"
(file:///home/projlead/Projects/ttlLib/and2/symbol
ttlLib:and2/symbol.sync.cds
file:///home/projlead/Projects/ttlLib/nor2/symbol
ttlLib:nor2/symbol.sync.cds)

If the alias is unknown, the URL is replaced by the string
"<unrecognized alias>". For Cadence cell views, use the
'addcdslib' command to resolve library paths.

If there are internal dependencies -- dependencies that point to
components within the object itself, the URL is the collection
object itself.

For an object that is not a collection: Returns an empty list.

SEE ALSO

addcdslib, url members

EXAMPLES

This command shows the dependencies of a collection object on one
or more other collection objects. Note: For Cadence cell view
collections, use the 'addcdslib' command to resolve dependency
paths. In this example, the cds.lib file in /home/Libraries
contains the library definition for "basic", but not for "sample".

```
stcl> url relations cmos_sch.sync.cds dependencies
{<unrecognized alias>} basic:vdd/symbol.sync.cds
{<unrecognized alias>} basic:gnd/symbol.sync.cds
{<unrecognized alias>} sample:nmos/symbol.sync.cds
```

ENOVIA Synchronicity Command Reference - File

```
stcl> addcdslib /home/Libraries
stcl> url relations cmos_sch.sync.cds dependencies
file:///home/tgoss/Projects/Cadence/basic/opin/symbol.sync.cds
basic:opin/symbol.sync.cds
file:///home/tgoss/Projects/Cadence/basic/gnd/symbol.sync.cds
basic:gnd/symbol.sync.cds
{<unrecognized alias>} sample:nmos/symbol.sync.cds
```

url resolveancestor

url resolveancestor Command

NAME

url resolveancestor - Returns the closest common ancestor of two versions

DESCRIPTION

This command returns the closest common ancestor of two versions of the same object (file, module or collection object). DesignSync uses the closest common ancestor when merging two versions. DesignSync compares the versions to the ancestor to determine how each version has changed, then performs the merge. The two versions being merged are called the "merge sides".

For the "url resolveancestor" command, one of the merge sides is specified by the "-version <selectorList>" option. DesignSync determines the other merge side from the object argument:

- o If the object is a local object, then DesignSync uses the current (last-retrieved) version, as stored in the object's local metadata.
- o If the object is a version, then DesignSync uses that version.
- o If the object is a branch, then DesignSync uses the Latest version of the object on that branch.
- o Any other object type causes DesignSync to throw an exception.

DesignSync records "merge edges" -- information about what versions participated in the merge -- with the new version resulting from a merge. DesignSync uses merge edges in future calculations of closest common ancestors instead of always going back to the original ancestor (by considering only branch points and not merge edges). This capability relieves you from having to resolve the same merge conflicts during future merges. Specify the -noedges option if you want "url resolveancestor" to return the common ancestor without considering merge edges.

Note: DesignSync does not currently record merge edges from -overlay (without -merge) and -skip operations.

SYNOPSIS

```
url resolveancestor [-noedges] -version <selector>[,<selector>...]
                    [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the closest common ancestor of two different versions.

OPTIONS

- [-noedges](#)
- [-version](#)
- [--](#)

-noedges

-noedges Specifies not to consider merge edges when determining the closest common ancestor.

Note: The -noedges option applies only to merge edges created across-branches. Merge edges within a branch ("skip" edges) are still considered when computing the closest common ancestor.

-version

-version <selector> Specifies one of the versions (merge sides) to compare. See the "selectors" help topic for more information on selectors. DesignSync determines the other merge side from the command argument.

Notes:

- o If you specify Latest or Date(<date>),

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DesignSync uses branch 1
(1:Latest,1:Date(<date>)).

- o To use `-version` to specify a branch, specify both the branch and version as follows:
'<branchtag>:<versiontag>', for example, 'Rel2:Latest'. You can also use the shortcut, '<branchtag>:', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the version number of the closest common ancestor of the current version of this object and the version specified with the `-version` option.

For all non-valid objects, or non-existent objects, returns an error.

Note: If two valid versions are specified, there is always a return value, because all versions have a common ancestor of version 1.1. If two valid versions are not specified, an error is raised.

SEE ALSO

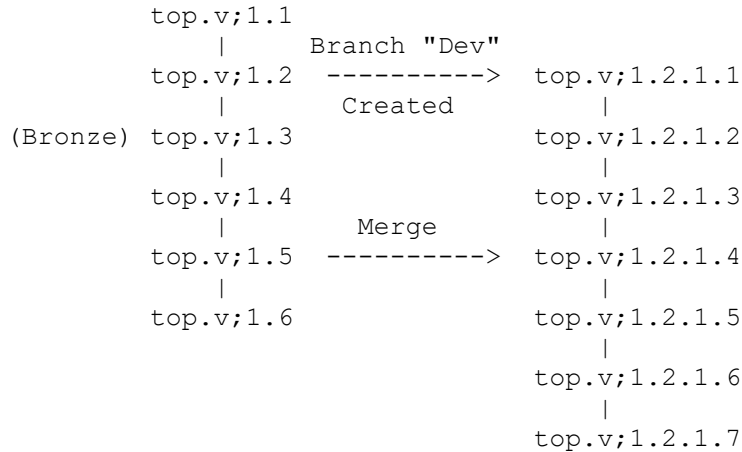
`co`, `selectors`

EXAMPLES

- [Example Showing Common Ancestor from Versions on the Same Branch](#)
- [Example Showing Common Ancestor from Versions on Different Branches](#)
- [Example Showing Common Ancestor Using Branch and Version Arguments](#)

Assume the following version history for a file called "top.v":

Trunk (branch 1) Dev (branch 1.2.1)



Example Showing Common Ancestor from Versions on the Same Branch

Assume that version 1.3 of "top.v" is tagged "Bronze", and version 1.6, which is the Latest version on the same branch (Trunk), is the current version:

```
stcl> url resolveancestor -version Bronze top.v
1.3
```

DesignSync compares the version tagged "Bronze" (1.3) and the current version (1.6) and returns 1.3 as the closest common ancestor. Whenever both versions are on the same branch, the lower version number is, by definition, the closest common ancestor.

Example Showing Common Ancestor from Versions on Different Branches

Assume that your current version is 1.2.1.7. You want to know the common ancestor of your current version and the Latest version on the Trunk branch.

```
stcl> url resolveancestor -version Trunk top.v
1.5
```

DesignSync compares the Latest version on Trunk (1.6) and the current version (1.2.1.7) and returns 1.5 as the closest common ancestor. When versions 1.5 and 1.2.1.3 were merged to create version 1.2.1.4, DesignSync recorded the merge edge. Version 1.2.1.4 includes the resolution of any conflicts between 1.2.1.3 and 1.5. Subsequent merges between Trunk and Dev leverage this information so that you do not need to resolve the same conflicts.

If you want DesignSync to ignore merge edges, specify `-noedge`:

```
stcl> url resolveancestor -noedge -version Trunk top.v
1.2
```

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Version 1.2 is the branch point where Dev was branched from Trunk. This version is the closest common ancestor if you do not consider the merge of 1.5 and 1.2.1.3.

Example Showing Common Ancestor Using Branch and Version Arguments

In the previous examples, the argument to "url resolveancestor" was a local file. You can also specify a version object:

```
stcl> url resolveancestor -version Trunk [url vault top.v]1.2.1.7
1.5
```

or a branch object:

```
stcl> url resolveancestor -version Trunk [url vault top.v]Dev
1.5
```

In the case of a branch, DesignSync uses the Latest version on the specified branch.

url resolvetag

url resolvetag Command

NAME

```
url resolvetag      - Returns the version number associated with a
                    selector
```

DESCRIPTION

This command returns the version number to which a specified selector (typically a version or branch tag) or selector list resolves.

- If you specify a version selector (for example, a version tag), the corresponding version number is returned.
- If you specify a branch selector (for example, a branch tag), the version number of the Latest version on that branch is returned.
- If you do not specify a selector (no -version option), the version number of the Latest version on the current branch is returned.
- If the selector list does not resolve to a version, an exception is thrown.

Specify a versionable object as the argument to this command. If you specify any other object type, an empty string is returned.

SYNOPSIS

```
url resolvetag [-version <selector>[,<selector>...]] [--]
  <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the version number of the current version.

OPTIONS

- [-version](#)
- [--](#)

-version

`-version <selector>` Specifies the selector list (typically a branch or version tag) for which you want the corresponding version number returned. The default behavior (if `-version` is not specified) is to return the version number of the Latest version on the current branch.

Note: To use `-version` to specify a branch, specify both the branch and version as follows: '`<branchtag>:<versiontag>`', for example, 'Rel2:Latest'. You can also use the shortcut, '`<branchtag>:`', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid versionable objects, returns the version number of the current version of this object or the version number corresponding to the selector specified with the `-version` option.

For any non-valid objects, returns an empty list.

For nonexistent object: raises an error.

Note: Use the `-version` argument to specify the selector of the object. If the version specified by `-version` does not exist, 'url resolvetag' raises an error.

SEE ALSO

url tags

EXAMPLES

- [Example Showing a Resolved Version Tag](#)
- [Example Showing the Latest Version of an Object](#)
- [Example Showing the Latest Version on a Specified Branch](#)
- [Example of Using a Selector List](#)

Example Showing a Resolved Version Tag

This example returns the version of "top.v" that is tagged "gold":

```
stcl> url resolvetag -version gold top.v
1.2.2.3
```

Example Showing the Latest Version of an Object

This example returns the version number of the Latest "top.v" on the current branch, which in this case is different than the version in the work area:

```
stcl> url resolvetag top.v
1.4
stcl> url versionid top.v
1.2
```

Example Showing the Latest Version on a Specified Branch

This example returns the Latest version of "top.v" on the branch tagged "Rel2.1". Because "top.v" is not in the work area, you must specify the vault.

```
stcl> url resolvetag -version Rel2.1:Latest [url vault top.v]
1.5.1.4
```

Example of Using a Selector List

This example specifies a selector list. The file "samp.asm" does not have a version tagged "beta", so the version corresponding to the tag "alpha" is returned. The file "top.v" does not have a version corresponding to "alpha" or "beta" version tags, so an exception is thrown.

```
stcl> url resolvetag -version beta,alpha samp.asm
1.3
stcl> url resolvetag -version beta,alpha top.v
som-E-152: No Such Version.
```

url retired

url retired Command

NAME

url retired - Returns whether a branch is retired

DESCRIPTION

This command checks whether an object's branch is retired (returns 1) or not (returns 0).

The object can be:

- o A versionable object (file or collection), in which case the retired status of the current branch is returned.
- o A branch, in which case the retired status of that branch is returned.
- o A vault, in which case the retired status of branch 1 is returned.

The command returns "0" for all other object types.

SYNOPSIS

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url retired [--] <argument>

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the branch of a DesignSync object that you want to know is retired or not. Returns 1 if the specified branch is retired, otherwise 0.

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For any valid object, returns 1 (Tcl TRUE) if it is retired, otherwise returns 0 (Tcl FALSE).

For invalid or non-existent objects, returns 0.

SEE ALSO

retire, vhistory, url exists, url registered

EXAMPLES

- [Example Showing the Status of a File Before/After Retirement](#)
- [Example Showing the Status of a Retired Branch](#)

Example Showing the Status of a File Before/After Retirement

This example checks the retired status of a file's current branch before and after retiring the branch.

```
dss> url retired top.gv
0
dss> retire -keep top.gv
Beginning Retire operation...

top.gv: Branch 1 Retired in the vault.

Retire operation finished.
dss> url retired top.gv
1
dss> retire -unretire top.gv
Beginning Retire operation...

top.gv: Branch 1 in Vault is now active.

Retire operation finished.
dss> url retired top.gv
0
```

Example Showing the Status of a Retired Branch

This example checks the retired status of the "Rel2.1" branch of "top.v" by specifying the branch object itself:

```
dss> url retired "sync://host:3002/Projects/Mod1/top/top.gv;Rel2.1"
1
```

or from stcl/stclc, you can use "url vault" to simplify the specification of the branch URL:

```
stcl> url retired [url vault top.gv]Rel2.1
1
```

url selector**url selector Command****NAME**

```
url selector          - Returns an object's persistent selector list
```

DESCRIPTION

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This command returns the persistent selector list (comma-separated list of selectors stored in an object's local metadata) associated with a specified object. You can specify a versionable object (file or collection object) or a local folder. If you specify any other object type, or a nonexistent object, an exception is thrown.

The selector list returned by 'url selector' is determined as follows:

1. If the object has its own persistent selector list, return that selector list.
2. Otherwise, return the persistent selector list of the first folder from the parent folder to the file-system root (/) that has a persistent selector list. In other words, the object inherits its parent folder's selector list.
3. Otherwise, return "Trunk", which is the default persistent selector list.

Some revision-control commands use the persistent selector list to determine which branch or version to operate on, unless overridden by an explicit `-version` or `-branch` option. See the "selectors" help topic for more information on selectors and selector lists.

Note that the "P" data key for the 'ls' command and the Selector column of the List View (in the DesignSync graphical user interface) also report an object's persistent selector list.

SYNOPSIS

```
url selector [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specify one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the associated persistent selector list.

OPTIONS

- `--`

--

```
--          Indicates that the command should stop looking
           for command options. Use this option when the
           object you specify begins with a hyphen (-).
```

RETURN VALUE

For all valid objects, returns the persistent selector list set for the object; if no persistent selector list is set, returns the first persistent selector list found from the parent folder upward to the file system root (/). If no persistent selector list is inherited, returns the default persistent selector list, Trunk.

For any invalid or non-existent objects, returns an applicable error.

SEE ALSO

setselector, selectors, ls

EXAMPLES

- [Example Showing the Persistent Selector List for a File](#)
- [Example Showing a Single Persistent Selector](#)

Example Showing the Persistent Selector List for a File

In the following example, a local work area folder called folder1 contains a file called top.v. The recursive 'setselector' command sets the persistent selector list for the folder and its contents.

```
dss> setselector -recursive Gold,Silver,Bronze folder1
dss> cd folder1
dss> url selector .
Gold,Silver,Bronze
dss> url selector top.v
Gold,Silver,Bronze
```

Example Showing a Single Persistent Selector

In the following example, you want to populate an empty work area called projectA with the latest versions of objects that have a "Gold" branch or specific versions tagged "Gold".

```
dss> cd projectA
dss> setselector Gold .
dss> populate
```

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```
<Files are fetched into the work area, including one called gc7.v>
dss> url selector gc7.v
Gold
```

You now fetch a different version of gc7.v. The selector list for gc7.v is updated while the selector list for the folder remains "Gold".

```
dss> co -version rel2.1 gc7.v

Beginning Check out operation...

Checking out: gc7.v           : Success - Fetched version: 1.6

Checkout operation finished.

dss> url selector gc7.v
rel2.1
dss> url selector .
Gold
```

url servers

url servers Command

NAME

```
url servers           - Returns server-list definitions
```

DESCRIPTION

This command returns the SyncServers or vaults specified in the server-list (sync_servers.txt) files.

Using server-list files simplifies the selection of SyncServers or vaults from DesignSync (from the Workspace Wizard) and DesignSync DFII (from the Vault Browser). When setting up a work area, users can select a SyncServer or vault using a friendly name instead of specifying the URL.

The user server-list file is:

```
<SYNC_USER_CFGDIR>/sync_servers.txt
```

where SYNC_USER_CFGDIR is the environment variable that specifies your directory for user-specific customization files. If you have not defined the SYNC_USER_CFGDIR environment variable, then DesignSync looks for:

```
<home>/synchronicity/sync_servers.txt
```

where <home> is your home directory as defined by \$HOME on UNIX or your user profile, which is managed by the User Manager tool, on Windows platforms.

The site server-list file is:

```
<SYNC_SITE_CNFG_DIR>/sync_servers.txt
```

where SYNC_SITE_CNFG_DIR is the environment variable that specifies the directory for site-specific customization files. If you have not defined the SYNC_SITE_CNFG_DIR environment variable, then DesignSync looks for:

```
<SYNC_DIR>/custom/site/config/sync_servers.txt
```

The user and site sync_servers.txt files are not provided as part of the Synchronicity installation, so you need to create them if they do not already exist.

The enterprise server-list file is:

```
<SYNC_ENT_CUSTOM>/config/sync_servers.txt
```

where SYNC_ENT_CUSTOM is the environment variable that specifies the directory for enterprise-specific customization files. If you have not defined the SYNC_ENT_CUSTOM environment variable, then DesignSync looks for:

```
<SYNC_DIR>/custom/enterprise/config/sync_servers.txt
```

The user, site, and enterprise sync_servers.txt files are not provided as part of the Synchronicity installation, so you need to create them if they do not already exist.

The syntax for the server-list file is:

```
NAME <name>           Friendly name for the SyncServer or vault
REFERENCE <url>       The complete URL to the SyncServer or vault
DESCRIPTION <text>    Brief description of the SyncServer or vault
```

The following rules apply to the sync_servers.txt files:

- o The NAME keyword begins a new SyncServer or vault definition. It must appear before the REFERENCE and DESCRIPTION keywords.
- o The REFERENCE and DESCRIPTION keywords can appear in any order.
- o The keywords are case insensitive.
- o Keywords must be the first non-whitespace characters on a line.
- o The DESCRIPTION field is optional.
- o The DESCRIPTION text can span multiple lines and is terminated by a blank line or a keyword as the first non-whitespace characters on a line. A comment itself can therefore not include a blank line; otherwise, the remaining comment will be ignored.
- o Each NAME value must be unique; duplicates are ignored.
- o If the same NAME value appears in both the user and site files, the user definition takes precedence.
The order of precedence is:
 - 1) user

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- 2) site
 - 3) enterprise
- o Comments are indicated by a pound sign (#) as the first non-whitespace character on a line.
Note: Text that does not follow a keyword is ignored and therefore behaves like a comment. However, because the supported keywords may change in future releases, precede all comments with #.

SYNOPSIS

```
url servers [-all | -enterprise | -site | -urls* | -user]
```

OPTIONS

- [-all](#)
- [-enterprise](#)
- [-site](#)
- [-urls](#)
- [-user](#)

-all

-all Returns both site and user server lists, with duplicates removed (user definitions have precedence over site definitions).

-enterprise

-enterprise Returns only the enterprise server list.

-site

-site Returns only the site server list.

-urls

-urls Preserves the previous behavior of returning only the REFERENCE URL for each SyncServer or vault with a unique NAME from both the site and user sync_servers.txt files.

*Note: This option is the default behavior in order to maintain backward compatibility. The `-urls` option will be removed in a future DesignSync release, and the default behavior (no options specified) will change. Therefore, it is recommended that you use the `-enterprise`, `-site`, `-user`, or `-all` option.

-user

`-user` Returns only the user server list.

RETURN VALUE

If `-url` or no option is specified, a list of REFERENCE URLs:
`url url ...`

Otherwise, a list of lists, with each sublist containing the NAME, REFERENCE, and DESCRIPTION values:
`{{name} {url} {description}} {{name} {url} {description}} ...`

EXAMPLES

A site `sync_servers.txt` file contains the following:

```
# This sync_servers.txt file is used by the entire
# Marlboro site.
NAME Doc Vault
REFERENCE sync://docserver:2647/Projects/docs
DESCRIPTION Server for documentation source files.
Only the documentation group can lock files.

NAME Source
REFERENCE sync://src:3001
```

and a user `sync_servers.txt` file contains the following:

```
NAME My Server
REFERENCE sync://localhost:2647

NAME Source
REFERENCE sync://src.myco.com:3001
DESCRIPTION The company-wide source repository
```

The following are the results of `'url servers'`. Note that in the combined list (with `-all` specified), `'url servers'` returns the user's "Source" definition, because the user's `sync_servers.txt` file takes precedence over the site file.

```
stcl> url servers -user
```

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```
{{My Server} {sync://localhost:2647} {}}
{{Source} {sync://src.myco.com:3001} {The company-wide source
  repository.}}
stcl> url servers -site
{{Doc Vault} {sync://docserver:2647/Projects/docs}
{Server for documentation source files. Only the documentation group
can lock files.}} {{Source} {sync://src:3001} {}}
stcl> url servers -all {{My Server} {sync://localhost:2647} {}}
{{Source} {sync://src.myco.com:3001} {The company-wide source
  repository.}}
{{Doc Vault} {sync://docserver:2647/Projects/docs}
{Server for documentation source files. Only the documentation group
can lock files.}}
```

url setprop

url setprop Command

NAME

url setprop - Sets a property on an object

DESCRIPTION

This command lets you set the value of a property on most objects (on notes you can change existing properties, but not add new ones). Properties are specified as a name (typically a short identifier) and a value, which can be a string of any length. Such properties are stored with the metadata representing the object.

IMPORTANT: The property prefix "Sync" is reserved for DesignSync properties. You should not create any properties that begin with this reserved prefix. While this prefix is case sensitive, DesignSync recommends, to minimize confusion, that you avoid using "sync" with any casing variant as a prefix to any custom properties.

For note URLs, both the object and property must exist and the property value supplied must be legal for its property type. The new property value specified in this command is checked against the current value of the property. If they are the same, no change is made to the object.

Note that the "special" properties that are supported by the url properties command are not available to url setprop. For example, if url properties reports that an object is locked by someone, you cannot unlock it with url setprop by passing in "locked 0".

You can use url setprop with most object types. However, depending on the type, the command may only work in server-side scripts, such as when accessing notes. User-defined properties are not supported for configurations.

Because DesignSync automatically determines the datatype of the vault, it may assign a datatype that you do not want. For example, it may assign the binary datatype to an ASCII file. In such cases, you can use the 'url setprop' command to change the vault datatype.

The successful execution of this command on a note object causes an atomic note modify event and fires the corresponding triggers in response. If the property value equals the current value of the property, no event is generated.

Note: If you need to set more than one property on the same note, it is preferable to use the note setprops command, because it is more efficient and reduces trigger activity.

You can use the "url setprop" command to change the checkin comments of objects checked into a vault.

Note: This command does not change the comments associated with tags. To change tag comments remove the tag and add it back again.

The "url setprop" command is subject to access controls on the server. For more information, see the ENOVIA Synchronicity Access Control Guide.

SYNOPSIS

```
url setprop [--] <Object_url> <prop_name> <prop_value>
```

OPTIONS

- [--](#)

--

-- Indicates that the command should stop looking for command options. Use this option when property names or values begin with a hyphen (-).

OPERANDS

- [Object URL](#)
- [Property Name](#)
- [Property Value](#)

Object URL

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<Object_url> A valid object URL.

Property Name

<prop_name> The name of the property to set on the object.

You can specify the special property name `DataType` to assign the data type of the vault.

Property Value

<prop_value> The value of the property to set on the object.

When you use the special `DataType` property for a vault, it can take one of the following values:

- o `ascii` or `text` - changes the vault data type ASCII.
- o `binary` - changes the vault data type to binary.
- o `undefined` - lets DesignSync determine the vault data type at the next check in, based on the file's contents.

RETURN VALUE

For all valid objects, returns the value set for the new property.

For all invalid or non-existent objects, returns an error.

SEE ALSO

`note getprop`, `note setprops`, `url getprop`, `url properties`

EXAMPLES

- [Example of Setting a User-Defined Property on a Server Vault](#)
- [Example of Changing the `DataType` value for an Object](#)
- [Example of Changing a Comment](#)

Example of Setting a User-Defined Property on a Server Vault

This server-side example sets and displays a `CcList` user-defined property on a vault.

```
stcl> url setprop "sync:///Projects/myproj/foo.v;" CcList {sal jason mark}
stcl> puts [url getprop "sync:///Projects/myproj/foo.v;" CcList]
```

Example of Changing the DataType value for an Object

This example changes the vault data type to ascii. "url vault" is used to identify the vault file associated with the workspace file.

```
stcl> url setprop [url vault samp.asm] DataType ascii
```

Example of Changing a Comment

This example changes the comment stored with the object version.

```
stcl> url setprop "[url vault samp.asm];1.3" log "SD 1550 - changed
comment to include SD number for correction."
```

Note: If the log property value is not specified on the command, DesignSync prompts for an interactive comment specified either on the command line or by spawning the defined file editor. When the file editor is launched to edit the comments, it is initialized with the current value of the log property. For more information on defining a file editor, see the DesignSync Data Manager Administrator's Guide, "General Options."

url syslock

url syslock Command

NAME

```
url syslock          - Sets a system lock on a lock name or file path
```

DESCRIPTION

This command lets you manipulate arbitrary system locks by name. The name may be a logical lock name or a path to an actual file. Note that the locks are advisory locks. This means that there is nothing from preventing a user from performing an action for which another user has obtained a lock. It is up to each user to check for the existence of the lock before performing the operation. This process is cooperative.

There are two types of locks and three basic locking operations. Locks may be shared or exclusive. A shared lock (also called a read lock) may be held by several processes at one time. An exclusive lock (also called a write lock) may be held by only one

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process at a time. Furthermore, an exclusive lock will not be granted if any shared lock is in place.

The three locking operations are acquire, yield, and release. Acquire and release simply obtain and give up the named lock. The yield call allows the holder of a lock to release that lock temporarily and then re-obtain it. In this way processes that expect to hold a lock for a long period of time may choose to release the lock temporarily to allow other processes to obtain the lock, perform some relatively fast operation, and then release the lock again. At this point the original process may again acquire the lock. Normally, acquire requests are counted and the lock released only when the reference count drops to zero. The `-all` option overrides this behavior and forces a release. The original reference count is then restored when the lock is re-acquired. This option is only recognized by the yield call.

A timeout may be specified when calling to acquire or yield a lock. By default the call blocks until the specified lock becomes available. If the timeout value is supplied, however, this will be taken as the maximum number of seconds to wait for the specified lock to become available. Should the timeout period expire, an error is returned.

The canonization flag specifies that the string supplied should be interpreted as a file path name and, further, that the name should be resolved into a canonical path. The canonization process will take file system mount points into consideration. For example, if your home directory is mounted to `/u/home/user` on `system_X` and to `/home1/user` on `system_Y`, and your home directory actually resides at `/users/home` on `system_A`, then the canonization process results in the path `system_A:/users/home` regardless of the system from which you invoke the lock request.

The `realmount` and `realpath` calls canonize the supplied paths. For `realmount`, the path is resolved down to the mount point. For `realpath`, the path is only resolved down to the root of the local file system; no mount point resolution is taken into account.

The `showlocks` call displays the locks that the current process holds. The output format includes the lock name, its index within the master lock file (the file used to acquire operating system level locks), the number of read locks pending, and the number of write locks pending.

SYNOPSIS

```
url syslock -acquire      <name_or_path> [-canonize] [-shared]
                           [-timeout secs]
url syslock -yield       <name_or_path> [-canonize] [-shared]
                           [-timeout secs] [-all]
url syslock -release     <name_or_path> [-canonize]
url syslock -realmount   <name_or_path>
```

```
url syslock -realpath <name_or_path>
url syslock -showlocks
```

Note: The <name_or_path> argument must follow the
-acquire/-yield/-release/-realmount/-realpath option.

OPTIONS

- [-all](#)
- [-acquire](#)
- [-canonize](#)
- [-realmount](#)
- [-realpath](#)
- [-release](#)
- [-shared](#)
- [-showlocks](#)
- [-timeout](#)
- [-yield](#)
- [--](#)

-all

-all Only available with -yield. The default behavior is that a lock is released only when the reference count drops to zero. The -all option overrides this behavior and forces a release. The original reference count is then restored when the lock is re-acquired.

-acquire

-acquire Obtains the specified lock.

-canonize

-canonize Specifies that the string supplied should be interpreted as a file path name and that the name should be resolved into a canonical path. The canonization process takes file system mount points into consideration. For example, if your home directory is mounted to /u/home/user on system_X and to /home1/user on system_Y, and your home directory actually resides at /users/home on system_A, then the canonization process results in the path system_A:/users/home regardless of the system from which you invoke

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the lock request.

-realmount

`-realmount` Canonizes the specified path, resolved down to the mount point.

-realpath

`-realpath` Canonizes the specified path, resolved down to the root of the local file system; no mount point resolution is taken into account.

-release

`-release` Gives up the specified lock.

-shared

`-shared` Specifies that the lock to be acquired or yielded is a shared (read) lock. When `-share` is not specified, the lock is an exclusive (write) lock.

-showlocks

`-showlocks` Displays the locks that the current process holds.

-timeout

`-timeout <secs>` Available with `-acquire` and `-yield`. By default, the call blocks until the specified lock becomes available. If a timeout value is supplied, you specify the maximum number of seconds to wait for the specified lock to become available. Should the timeout period expire, an error is returned.

-yield

`-yield` Allows the holder of a lock to release that lock

temporarily and then re-obtain it.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For a logical lock name (Asic/x.v:lnx:16738,rd:0,wr:1): Performs the action specified by the options, but provides no return value.

Note: The logical lock name format includes the lock name, its index within the master lock file (the file used to acquire operating system level locks), the number of read locks pending, and the number of write locks pending.

For other client-side objects: Performs the action specified by the options, but provides no return value; 'url syslock' does not verify that the object exists.

For server-side objects: Raises error.

EXAMPLES

This example shows acquiring a lock, viewing the lock, and then releasing the lock.

```
stcl> url syslock -acquire /home/users/dave/sample.txt -canonize
Acquired: /home/users/dave/sample.txt
stcl> url syslock -showlocks
Current Locks: /home/users/dave/sample.txt:lnx:16738,rd:0,wr:1
stcl> url syslock -release sample.txt -canonize
Released: /home/users/dave/sample.txt
```

url tags

url tags Command

NAME

url tags - Returns the version tags associated with a specified object

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DESCRIPTION

This command returns the list of version tags associated with the specified object. Tags are listed with "Latest" first, if applicable, then in order from oldest to newest. If the object has no associated version tags, a null string is returned.

By default the command returns the version tags associated with the currently fetched version of the object. Use the `-version` option to fetch the tags associated with a particular version of the object.

Note: You can use the `-btags` argument with the `url tags` command to specify the branch tags, rather than the version tags.

SYNOPSIS

```
url tags [-btags] [-version <selector>] [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one of the following arguments:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the associated version tag.

OPTIONS

- [-btags](#)
- [-version](#)
- [=](#)

-btags

`-btags` Specifies displaying branch tags instead of the version tags for the specified argument.

-version

`-version <selector>` Specifies the version of the local object (file or collection) for which you want the associated tags. The `-version` option is ignored if you specify a version or branch as the argument to "url tags". See the "selectors" help topic for details on selectors.

Note: To use `-version` to specify a branch, specify both the branch and version as follows: '`<branchtag>:<versiontag>`', for example, 'Rel2:Latest'. You can also use the shortcut, '`<branchtag>:`', for example "Rel2:". If you don't explicitly specify the branch selector in this way, DesignSync does not resolve the selector as a branch selector.

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the specified list of tags associated with the specified object, with "Latest" first, if applicable, then in order from oldest to newest. If no tags exist, it returns an empty list.

For other invalid or non-existent objects, returns appropriate error.

SEE ALSO

url resolvabletag, url versionid, tag

EXAMPLES

- [Example Showing the Tags Associated with a File](#)
- [Example Showing the Tags Associated with a Specified File Version](#)

Example Showing the Tags Associated with a File

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This example returns the version tags associated with the current version of "top.v". Because the current version is also the latest version on that branch, DesignSync automatically associates "Latest" with that version.

```
dss> url tags top.v
Latest Gold
```

Example Showing the Tags Associated with a Specified File Version

This example returns the tags associated with version 1.2 of "top.v":

```
dss> url tags -version 1.2 top.v
Bronze
```

You can also specify the version object itself. You might do this if you do not have the object in your work area or if you are using "url tags" in a server-side script. Specifying the -version option would have no effect in this case because you have specified a version as the command argument:

```
stcl> url tags [url vault top.v]1.2
Bronze
```

url users

url users Command

NAME

```
url users          - Returns all users defined for an object's
                    server
```

DESCRIPTION

This command returns the list of all users defined for a server. If no users exist, an empty string is returned.

The <object> parameter is optional and is always ignored. This parameter is retained for backward compatibility. If you supply an object URL, the URL must be valid.

Note that the object can be the server root itself, such as:

```
url users sync:///
```

Note: 'url users' is a server-side only command. For more information, type 'help server-side'.

SYNOPSIS

```
url users <path>
```

OPTIONS

none

OPERANDS

- [Path to the Server](#)

Path to the Server

<path> The path to the server. Optional.

RETURN VALUE

For a server or server-side object, returns a list of the users defined for the server.

For any invalid objects or non-existent objects, returns an error.

SEE ALSO

url contents, url projects, server-side, rstcl

EXAMPLES

This example returns the users currently defined for the Sportster project. Because users are defined on a per-server basis, all users defined for the holzt:2647 server are returned.

1. In <SYNC_DIR>/custom/site/share/tcl, create 'users.tcl' that contains the following lines:

```
puts [url users sync:///Projects/Sportster]
```
2. From your browser, issue the following URL:

```
http://holzt:2647/scripts/isynch.dll?panel=TclScript&file=users.tcl
```

The browser displays the users currently defined for the

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```
Sportster project:
  sync:///Users/goss
  sync:///Users/barbg
```

You could also execute this script from a DesignSync client using the `rstcl` command.

url vault

url vault Command

NAME

```
url vault          - Returns the URL of an object's vault
```

DESCRIPTION

This command returns the URL of the vault object associated with the specified object. If the object is a directory, the vault-side directory that it is associated with is returned.

The general syntax for the url commands is described under "help url".

SYNOPSIS

```
url vault <argument>
```

ARGUMENTS

- [Designsync Object](#)

Specify one or more of the following arguments:

Designsync Object

<DesignSync object> Specifies the DesignSync object for which you want the URL of the vault.

OPTIONS

RETURN VALUE

For all valid objects, returns the URL of the vault associated with the specified object.

For any non-valid objects or non-existent objects, returns an empty list.

SEE ALSO

`url`, `setvault`

EXAMPLES

- [Example of Getting Vault for the Current Working Directory](#)
- [Example of Getting the Vault for a Specified File](#)
- [Example of Using the `url vault` command within a Command](#)

Example of Getting Vault for the Current Working Directory

This example returns the vault folder for the current directory using relative and absolute paths:

```
dss> url vault .
sync://holzt:2647/Projects/Sportster
```

```
dss> url vault /home/goss/Projects/Sportster
sync://holzt:2647/Projects/Sportster
```

Example of Getting the Vault for a Specified File

This example returns the vault for `top.v`:

```
dss> url vault top.v
sync://holzt:2647/Projects/Sportster/top/top.v;
```

Example of Using the `url vault` command within a Command

This example uses `'url vault'` to change directory into a vault folder:

```
stcl> scd [url vault top.v]
stcl> spwd
sync://holzt:2647/Projects/Sportster/top/top.v;
```

url versionid

url versionid Command

NAME

url versionid - Returns the version number of the specified object

DESCRIPTION

This command returns the version number of the specified object.

- For managed objects, the current version number (as stored in the local metadata) is returned.
- If the object is a reference, the version number is preceded by "Refers to:".
- If the object is locked, the current version number and upcoming version number are returned.
- For version objects specified with a version number, that version number is returned.

Notes:

- o To get the version number of a selector list or a tag, use url resolvetag command.
- o The return value of 'url versionid' is the same as the version returned by the 'ls -report R' command and the Version column of the List View (from the DesignSync graphical user interface).

SYNOPSIS

```
url versionid [--] <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one or more of the following arguments:

DesignSync Object

<DesignSync objects> Specifies the DesignSync object for which you want the current version number.

OPTIONS

- [=](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the argument to the command begins with a hyphen (-).

RETURN VALUE

For all valid objects, returns the version number of the object (1.3). If the object is a reference, the version number is preceded by "Refers to:". If the object is locked, the current version number and upcoming version number are returned (1.3 -> 1.4).

For invalid revision controlled objects, returns an empty list.

For any objects not under revision control, returns "unmanaged."

For any objects that do not exist, returns an appropriate error.

SEE ALSO

`url versions`, `url branchid`, `url resolvabletag`, `ls`

EXAMPLES

- [Example Showing a Variety of Different Return Values for File Objects](#)

Example Showing a Variety of Different Return Values for File Objects

The following examples show the different return values for the 'url versionid' command.

```
stcl> ls -report R samp.asm samp.lst test.mem test.asm test.s19
Version          Name
-----          ----
1.2              samp.asm
1.1 -> 1.2       samp.lst
1.2.1.2         test.mem
Refers to: 1.1  test.asm
Unmanaged       test.s19
```

For local managed objects, returns the current version number:

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```
stcl> url versionid samp.asm
1.2
stcl> url versionid test.mem
1.2.1.2
```

For references, precedes the version number with "Refers to:":

```
stcl> url versionid test.asm
Refers to: 1.1
```

For locked objects, returns the current and next version number:

```
stcl> url versionid samp.lst
1.1 -> 1.2
```

For unmanaged objects, returns "Unmanaged":

```
stcl> url versionid test.s19
Unmanaged
```

For version objects, returns the version number:

```
stcl> url versionid [url vault samp.asm]1.1
1.1
```

For folders, vaults, and other objects that do not have versions, returns an empty string:

```
stcl> url versionid .
stcl> url versionid sync://myhost:2647
stcl> url versionid [url vault samp.asm]
```

If the object does not exist, an exception is thrown:

```
stcl> url versionid nosuchobject
somapi-E: Unable to locate: nosuchobject
```

url versions

url versions Command

NAME

url versions - Returns the URLs of an object's versions

DESCRIPTION

This command returns a list of URLs of the version objects associated with the specified object. If the object is a vault, the versions on the main branch (branch 1) are returned. If the object is a branch, the versions on that branch are returned. If the object is a local managed object, the versions for that object's current branch are returned. If the object is not a vault, branch, or managed object, then an empty list is returned.

Note: In stcl/stclc mode, when specifying a URL that contains a

semicolon (;), surround the URL with double quotes.

SYNOPSIS

```
url versions <argument>
```

ARGUMENTS

- [DesignSync Object](#)

Specifies one or more of the following:

DesignSync Object

<DesignSync object> Specifies the DesignSync object for which you want the URLs of the associated versions.

OPTIONS

none

RETURN VALUE

For valid objects, returns a list of the version URLs associated with the object; either on the specified branch or all branches.

For any invalid object, returns empty list.

For nonexistent objects, raises error.

SEE ALSO

url contents

EXAMPLES

- [Example Showing Versions on the Trunk Branch](#)
- [Example Showing Versions on File Vault Object](#)

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Example Showing Versions on the Trunk Branch

This example shows the versions on the Trunk branch of top.v (top.v;1.3 is in the local work area, so version information for the Trunk branch is returned).

```
dss> url versions top.v
sync://holzt:2647/Projects/Sportster/top/top.v;1.1
sync://holzt:2647/Projects/Sportster/top/top.v;1.2
sync://holzt:2647/Projects/Sportster/top/top.v;1.3
```

Example Showing Versions on File Vault Object

This example shows the versions of samp.asm on the "rel20" branch:

```
stcl> url versions [url vault samp.asm]rel20:Latest
{sync://localhost/Projects/Sportster/code/samp.asm;1.2.1.1}
{sync://localhost/Projects/Sportster/code/samp.asm;1.2.1.2}
```


TCL Interface

auto_mkindex

auto_mkindex Command

NAME

auto_mkindex - Indexes stcl procedures

DESCRIPTION

By placing your stcl procedures in designated site-wide or project-level tcl directories, DesignSync indexes them so that users at your site can autoload the procedures only when they need them. In some cases, you might want to generate the indexes manually using the auto_mkindex command. The indexes you create are not accessible to currently running DesignSync clients, but you can issue the auto_reset command in a DesignSync client to make the procedures in the indexes accessible. Thus, using auto_mkindex and auto_reset helps you efficiently debug your stcl procedures.

The auto_mkindex command creates the array of stcl procedures used by the current Tcl interpreter. These procedures are stored in the auto_index array and are loaded by the Tcl autoloader when users at your site invoke them. These autoloaded stcl procedures are only accessible in the stcl mode of DesignSync. If the auto_index generates successfully, a file named tclIndex is created in the site or custom tcl directory.

For your stcl procedures to be autoloaded, you must store the procedure files in the site-wide or project-level tcl directory. Thus, the <directory_name> argument must be the absolute path to the site or project tcl directory:

* For site-wide stcl files: <SYNC_SITE_CUSTOM>/share/client/tcl

* For project-level stcl files: <SYNC_PROJECT_CFGDIR>/tcl

SYNC_PROJECT_CFGDIR has no default; no project information is loaded if this environment variable is not set. SYNC_SITE_CUSTOM resolves to <SYNC_CUSTOM_DIR>/site.

Note: SYNC_SITE_CUSTOM is equivalent to <SYNC_CUSTOM_DIR>/site; if SYNC_SITE_CUSTOM is not set, but SYNC_CUSTOM_DIR is set, DesignSync will still access the site-wide stcl files. You must have write access to the site or client tcl directory for the auto_index to be generated.

If you specify a file with the <file> argument, you must specify

the entire name of the file, including the .tcl extension. If you do not specify a file, `auto_mkindex` adds procedures in all files with .tcl extensions in the specified directory to the `auto_index` array.

SYNOPSIS

```
auto_mkindex <directory_name> [<file>...]
```

Note: This command is supported only in `stcl` mode.

RETURN VALUE

none

SEE ALSO

`parray auto_index`, `auto_reset`

EXAMPLES

This example adds the procedures in the `site tcl` directory to the Tcl index. In this example, the procedure, `popasic`, is included in a file, `revcmds.tcl` in the `site tcl` directory, `<SYNC_DIR>/custom/site/share/client/tcl`. The example also shows how to use `auto_reset` to make the newly added procedure accessible in the current session.

```
stcl> auto_mkindex "c:\\Program Files\\Synchronicity\\DesignSync\\
    custom\\site\\share\\client\\tcl"
stcl> auto_reset
    0
stcl> popasic
    ...
```

auto_reset

auto_reset Command

NAME

```
auto_reset          - Resets the Tcl autoload index
```


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DESCRIPTION

This command lets you use newly indexed stcl procedures without restarting your DesignSync client. Use the `auto_mkindex` command to index new stcl procedures. Then issue the `auto_reset` command to make the new procedures accessible in your current DesignSync session.

You must have write access to the site-wide and project-level tcl directories, as well as the tclIndex files in those directories, for the indexes to be reloaded. The site and project tcl directories are located as follows:

- * For site-wide stcl files: <SYNC_SITE_CUSTOM>/share/client/tcl

- * For project-level stcl files: <SYNC_PROJECT_CFGDIR>/tcl

SYNOPSIS

```
auto_reset
```

Note: This command is supported only in stcl mode.

RETURN VALUE

0 if the indexes are loaded successfully; 1 otherwise.

SEE ALSO

`auto_mkindex`, `parray auto_index`

EXAMPLES

This example shows how to use `auto_reset` to make a newly added procedure accessible in the current session.

```
stcl> auto_mkindex "c:\\Program Files\\Synchronicity\\DesignSync\\
  custom\\site\\share\\client\\tcl"
stcl> auto_reset
0
stcl> popasic
...
```

gets

gets Command

NAME

gets - Reads a string from a file

DESCRIPTION

This command is the Tcl gets command with Synchronicity extensions. Refer to a Tcl language reference manual for a full description of the standard gets command.

Synchronicity has extended the gets command to a -prompt option that you use to specify a prompt string.

SYNOPSIS

See a Tcl language reference manual.

EXAMPLES

The following example demonstrates the -prompt option, which pops up a simple dialog box (when run from the graphical interface) and prompts the user for input:

```
set name [gets stdin -prompt "Enter your name:"]
```

parray auto_index

parray auto_index Command

NAME

parray auto_index - Lists the autoloaded stcl procedures

DESCRIPTION

This command returns the array of stcl procedures in the current Tcl interpreter. These procedures are stored in the auto_index

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array and are loaded by the Tcl autoloader when you invoke them. You can add procedures to the Tcl interpreter by storing them in a designated tcl directory and then invoking a DesignSync client or by indexing them manually using the `auto_mkindex` command.

If you use `auto_mkindex` to manually index the new procedures, issue the `auto_reset` command to make the `auto_index` accessible in the current session. The autoloader stcl procedures are only accessible in the stcl mode of DesignSync.

SYNOPSIS

```
parray auto_index
```

Note: This command is supported only in stcl mode.

RETURN VALUE

An array of stcl procedures and their source files.

SEE ALSO

`auto_mkindex`, `auto_reset`

EXAMPLES

This example lists the stcl procedures currently indexed as part of the Tcl interpreter:

```
stcl> parray auto_index

# auto_index(::safe::interpAddToAccessPath)= source {c:/
    Program Files/Synchronicity/DesignSync/share/tcl/
    library/safe.tcl}
# auto_index(::safe::interpConfigure) = source {c:/Program Files/
    Synchronicity/DesignSync/share/tcl/library/safe.tcl}
...
...
...
# auto_index(parray) = source {c:/Program Files/
    Synchronicity/DesignSync/share/tcl/library/parray.tcl}
# auto_index(pkg_mkIndex) = source {c:/Program Files/
    Synchronicity/DesignSync/share/tcl/library/init.tcl}
# auto_index(pop) = source {c:/Program Files/
    Synchronicity/DesignSync/custom/site/share/client/tcl/
    autoload.tcl}
```

...
...

puts

puts Command

NAME

puts - Writes a string to a file

DESCRIPTION

This command is the Tcl 'puts' command. Refer to a Tcl language reference manual for a full description of the standard 'puts' command.

IMPORTANT:

In previous software versions, the 'puts' command was extended to support two special file identifiers, 'log' and 'trace'. These file identifiers are no longer supported. The Synchronicity 'puts' command is now the standard Tcl 'puts' command. You can use 'puts stderr' in client scripts to display output on the screen. You can use 'puts stderr' in server scripts to channel the output to the server's error log,
\$SYNC_CUSTOM_DIR/servers/<host>/<port>/logs/error_log.
Migrate existing scripts by removing instances of the 'log' and 'trace' identifiers.

SYNOPSIS

See a Tcl language reference manual.

SEE ALSO

log

rstcl

rstcl Command

NAME

ENOVIA Synchronicity Command Reference - File

`rstcl` - Runs server-side `stcl` scripts

DESCRIPTION

This command runs server-side `stcl` scripts from DesignSync clients. You can also execute server-side scripts by passing a URL to the SyncServer from your browser. See the 'server-side' topic or the ProjectSync User's Guide for details.

You run client-side scripts using the DesignSync `run` command or the `Tcl` source command. The choice of whether to implement a script as client-side or server-side depends on what you are trying to accomplish. You can use client scripts to automate user tasks or implement enhancements to the built-in user command set. You create server-side scripts for any of the following reasons:

- To set server-wide policies (such as triggers or access controls)
- To create server customizations (such as customized ProjectSync panels or data sheets)
- To reduce the amount of client/server traffic that a client-side script accessing vault data would require
- To execute commands that are only available as server-side commands (such as 'access reset' and most ProjectSync commands)

When you execute a script with `rstcl`, the SyncServer looks for the specified script in the following locations (in the order listed):

1. Server-specific `Tcl` scripts (UNIX only):
`<SYNC_CUSTOM_DIR>/servers/<host>/<port>/share/tcl`
2. Site-wide `Tcl` scripts:
`<SYNC_CUSTOM_DIR>/site/share/tcl`
3. Enterprise-wide `Tcl` scripts:
`<SYNC_CUSTOM_DIR>/enterprise/share/tcl`
4. Synchronicity-provided `Tcl` scripts:
`<SYNC_DIR>/share/tcl`

Do not put scripts in `<SYNC_DIR>/share/tcl` because this directory is reserved for Synchronicity scripts, and your scripts may be overwritten when you upgrade your Synchronicity software.

`rstcl` requests mutually exclude each other. I.e. They all acquire the same exclusive lock, named `smdSrvrMetaDataLock`. If you analyze your script and know it to be safe to run in parallel with other scripts, you may release the exclusive lock from within your script by using `'url syslock -release smdSrvrMetaDataLock'`. If your script reads or writes an external file, it is probably not parallelizable. `rstcl` requests and `panel=` requests (invoked via ProjectSync) never mutually exclude each other; `panel` requests are entirely independent of `rstcl`'s lock.

Notes:

- If you make modifications to your script, use the ProjectSync Reset Server menu option to force the SyncServer to reread your script.
- When specifying 'sync:' URLs within scripts that are run on the server, do not specify the host and port. For example, specify:
 sync:///Projects/Asic
 not
 sync://holzt:2647/Projects/Asic
 Because the script is run on the server itself, host:port information is unnecessary and is stripped out by the server, which may lead to incorrect behavior during object-name comparisons.
- The SYNC_ClientInfo variable is not defined when running server-side scripts with rstcl -- you must use the browser-based invocation. All other SYNC_* variables (SYNC_Host, SYNC_Port, SYNC_Domain, SYNC_User, and SYNC_Parm if parameters are passed into the script) are available when using rstcl.

SYNOPSIS

```
rstcl [-output <file>] -server <serverURL> -script <script>
      [-urlparams <name>=<value>[&<name>=value[...]]]
```

OPTIONS

- [-output](#)
- [-server](#)
- [-script](#)
- [-urlparams](#)

-output

`-output <file>` Specifies the file to which script output is written. If omitted, the output is displayed.

-server

`-server <serverURL>` Specifies the URL of the SyncServer that will execute the script. Specify the URL as follows:
 sync://<host>[:<port>]
 where 'sync://' is required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (if omitted, defaults to 2647/2679). For example, you might specify the following:
 -server sync://serv1.abco.com:1024

ENOVIA Synchronicity Command Reference - File

-script

`-script <script>` Specifies the name of the script to be executed. This script must be in one of the Tcl script directories on the SyncServer specified by the `-server` option. The Tcl directories are (in the order in which they are searched):

1. Server-specific Tcl scripts (UNIX only):
`<SYNC_DIR>/custom/servers/<host>/<port>/share/tcl`
2. Site-wide Tcl scripts:
`<SYNC_DIR>/custom/site/share/tcl`
3. Enterprise-wide Tcl scripts:
`<SYNC_DIR>/custom/enterprise/share/tcl`
4. Synchronicity-provided Tcl scripts:
`<SYNC_DIR>/share/tcl`

The script can contain Tcl constructs and Synchronicity commands, including server-side only commands.

-urlparams

`-urlparams <params>` Specifies the parameters that are passed into the script. Specify each parameter as a name/value pair separated by an equal sign (=), and separate multiple parameters with an ampersand (&):

```
<param1>=<value1>&<param2>=<value2>...
```

For example:

```
-urlparams Name=Joe&IDNum=1234
```

Parameters are passed into the script using the global variable `SYNC_Parm`, which is a Tcl array. The array keys are the names of the parameters. To access the value of a parameter from within the script, use the following syntax:

```
$SYNC_Parm(<param_name>)
```

For example, the following Tcl line would display the value of the 'name' parameter:

```
puts "The name is: $SYNC_Parm(name)"
```

Note: If any parameter name or value contains whitespace, surround the entire parameter list with double quotes. For example:

```
-urlparams "name=Joe Black&IDNum=1234"
```

RETURN VALUE

- o If `-output` is not specified, returns (and displays) the script output.
- o If `-output` is specified, output is written to the specified file and the return value is an empty string.

If the script has an error, a Tcl exception is thrown from the client side and the Tcl stack trace is output. Proper usage for handling exceptions would be to provide an exception handler when you use the `rstcl` command:

```
if [catch {rstcl -server ...} result] {
    # Something bad happened.
    # 'result' contains the output generated by the script
    #   prior to the error and the Tcl stack trace.
} else {
    # All is fine.
    # 'result' contains whatever output is generated
    # by the script.
}
```

If the `-output` option to the `rstcl` command was specified, then the exception is still thrown, but the script output and Tcl stack trace are written to the specified output file.

SEE ALSO

server-side, run, url syslock

EXAMPLES

A common use of `rstcl` is to run the 'access reset' command, which restarts the SyncServer. See the 'access reset' command for details.

Most ProjectSync-related scripts must be run on the server and could therefore use `rstcl`. This example creates a ProjectSync note using the 'note create' command, which is a server-side only command, and displays the URL of the new note. This output is then returned to the `rstcl` command in `callNoteCreate.tcl`.

1. In the `<SYNC_CUSTOM_DIR>/site/share/tcl` directory on the `holzt:2647` server is the `noteCreate.tcl` script, which contains the following:

```
set noteUrl [note create -type Note \
    [list Title $SYNC_Parm(title)] [list Body $SYNC_Parm(body)] \
    [list Author $SYNC_Parm(author)] ]
puts "$noteUrl"
```


ENOVIA Synchronicity Command Reference - File

2. On the client side, the callNoteCreate.tcl script provides an exception catcher in case the noteCreate.tcl script fails.

```
if [catch {rstcl -server sync://holz:2647 -script noteCreate.tcl \
    -urlparams "author=Goss&title=This is a note.&body=New note."} \
    result] {
    puts "Couldn't create the note!"
} else {
    puts "Created note: $result"
}
```

3. From stcl, run the client script:

```
stcl> source callNoteCreate.tcl
Created note: sync:///Note/SyncNotes/Note/3
```

You could also run the rstcl command directly from the command line (no exception catcher). Doing so creates a second note:

```
stcl> rstcl -server sync://holz:2647 -script noteCreate.tcl \
    -urlparams "author=Goss&title=Another note.&body=New note."
sync:///Note/SyncNotes/Note/4
```

run

run Command

NAME

run - Executes a DesignSync command file or stcl script

DESCRIPTION

This command will execute the DesignSync or Tcl commands contained in the specified file. Specify the file with a relative or absolute path, not as a URL. If the extension of the file is ".tcl", the script is run in stcl mode, irrespective of the current mode (dss or stcl). Otherwise, the script is run in dss/dssc mode irrespective of your current mode. From stcl/stclc, using the run command is the same as using the Tcl source command except that the run command does not return the script's return value.

If you do not specify a path to the command file, the run command looks in the default log directory. By default, the default log directory is your home directory (as defined by \$HOME on UNIX or your user profile, which is managed by the User Manager tool, on Windows platforms). You can change the default using the -defaultdir option to either the log or the run command.

The batch file may be created in a text editor or captured with

the log command. The '#' character in column 1 treats the remainder of the line as a comment.

Note: Use the rstcl command to execute server-side stcl scripts.

SYNOPSIS

```
run [-defaultdir <dir>] [-dryrun] [-ignoreerrs] [-verbose]
    [--] [<filename>]
```

OPTIONS

- [-defaultdir](#)
- [-dryrun](#)
- [-ignoreerrs](#)
- [-verbose](#)
- [--](#)

-defaultdir

`-defaultdir <dir>` Set the location of the default log directory, which is also where DesignSync looks for scripts. This value is saved between sessions.

Note: Specifying the defaultdir is mutually exclusive with specifying a filename to run.

-dryrun

`-dryrun` Like verbose, but do not execute. This option is useful to verify the behavior of a command file before executing it.

-ignoreerrs

`-ignoreerrs` Continue executing the DesignSync command file even if an error is encountered.

This option is not allowed when running stcl (*.tcl) scripts. You must provide your own Tcl exception handler to catch errors in your stcl script. Use the Tcl 'catch' command.

-verbose

ENOVIA Synchronicity Command Reference - File

`-verbose` Print commands as they are executed.

`--`

`--` Indicates that the command should stop looking for command options. Use this option when arguments to the command begin with a hyphen (-).

RETURN VALUE

none

SEE ALSO

`log`, `rstcl`

EXAMPLES

This example sets the default log directory, which is also where DesignSync looks for scripts, to `/home/goss/Projects`, then executes `myscript.dss`.

```
dss> run -defaultdir /home/goss/Projects
dss> run myscript.dss
```


Third-Party Integrations

DSDFII

addcdslib

addcdslib Command

NAME

addcdslib - Specifies a cds.lib file

DESCRIPTION

This command adds a path to the search path that DesignSync uses to locate Cadence cds.lib files. The cds.lib files map Cadence libraries to their locations. For example, a cds.lib file might contain the following:

```
DEFINE TTL1 /home/TLLibraries/TTL1
DEFINE basic /usr1/CoreLibraries/basic
```

DesignSync uses these mappings to resolve dependencies that a design object, in this case a Cadence cell view, has on other design objects. Using the 'url relations' command, you could, for example, write an stcl script that checks out a cell view and all of its dependencies.

Specify the path argument to the addcdslib command as the absolute path to the directory containing the cds.lib file (do not include "cds.lib" as part of the specification).

SYNOPSIS

```
addcdslib <path>
```

OPTIONS

- [=](#)

--

-- Indicates that the command should stop looking for command options. Use this option when the path you specify begins with a hyphen (-).

SEE ALSO

url relations

EXAMPLES

This command shows how to resolve dependencies by using the `addcdslib` command. The `cds.lib` file in `/home/Libraries` contains the library definition for "basic", but not for "sample".

```
stcl> url relations cmos_sch.sync.cds dependencies
  {<unrecognized alias>} basic:vdd/symbol.sync.cds
  {<unrecognized alias>} basic:gnd/symbol.sync.cds
  {<unrecognized alias>} sample:nmos/symbol.sync.cds
stcl> addcdslib /home/Libraries
stcl> url relations cmos_sch.sync.cds dependencies
file:///home/tgoss/Projects/Cadence/basic/opin/symbol.sync.cds\
basic:opin/symbol.sync.cds
file:///home/tgoss/Projects/Cadence/basic/gnd/symbol.sync.cds\
basic:gnd/symbol.sync.cds
{<unrecognized alias>} sample:nmos/symbol.sync.cds
```

Administration

Access Control

access Commands

NAME

access - Access-control commands

DESCRIPTION

These commands provide access to the access control system used by DesignSync tools. Note that some access control commands (access allow, access define, access deny, access filter, access global, access init) are available ONLY within an AccessControl file. See the ENOVIA Synchronicity Access Control Guide for more information.

SYNOPSIS

```
access <access_command> [<access_command_options>]
```

Usage: access [allow|db_filter|define|deny|filter|global|init|list|reset|verify]

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl, server-side, rstcl, access reset, access verify

EXAMPLES

See specific "access" commands.

ACAdmin Commands

acadmin

acadmin Command

NAME

acadmin - Access Administrator Commands

DESCRIPTION

The Access Administrator tool (ACAdmin) provides a graphical web interface to create, remove, maintain, and manage access controls. Using the ACAdmin interface provides a simpler, more intuitive interface to customizing the access controls for DesignSync. In addition to the graphical web interface, DesignSync provides a set of acadmin commands, prefixed by "acadmin" to use for scripting or other acadmin maintenance. For more information on the functionality, organization and usage of ACAdmin, see the ENOVIA Synchronicity Access Control Guide.

In order to use any of the acadmin commands, the Access Control Administrator must be enabled on the server. When any of these commands are used to modify the ACAdmin configuration, the changes made are not applied to the server until the acadmin reset command is run.

SYNOPSIS

```
acadmin <acadmin_command> [acadmin_command_options>]
```

```
Usage: acadmin
[addgroup|addgroupusers|addobj|addusers|listcats|listcmds|listgroups|
listobjs|listperms|listusers|reset|rmgroup|rmgroupusers|rmobj|
rmusers|setcatperm]
```

EXAMPLES

See specific acadmin commands.

acadmin addgroup

acadmin addgroup Command

ENOVIA Synchronicity Command Reference - File

NAME

acadmin addgroup - Create a new user group.

DESCRIPTION

This command creates user groups. These user groups are then available to be assigned to command categories. Grouping users into groups allows you to define and assign roles and maintain the roles and functions easily even when individual group members change.

Notes:

- o Usually only the DesignSync administrators should have permission to create or modify user group definitions.
- o There are three dynamic (or virtual) user groups that should never be manipulated manually. They are All-Module-Owners, All-Project-Owners, and All-Server-Users. These groups are automatically generated when ACAdmin is reset. If you have made changes that affect these groups, you should perform an ACAdmin Reset.

This command is subject to ACAdmin access controls as defined in AccessControl.aca. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin addgroup -group <groupName> [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

-server <SyncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is

installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example:
 sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-group](#)

-group

`-group <groupName>` Name of the user group. This name should correspond to DesignSync naming conventions. For a list of reserved characters that should not be used in the user group name, see the ENOVIA Synchronicity DesignSync Data Manager User's Guide: URL Syntax.

Tip: To allow you to easily differentiate between user groups and individual users, you should implement a naming convention such as prefixing the user group with a standard prefix like Group- or by creating group names in all capital letters. For example:

```
DEVELOPERS
or
GROUP-Developers
```

RETURN VALUE

This command doesn't return any TCL values. If the command succeeds, you'll receive a success message. If the command fails, you'll receive an error message explaining the failure.

SEE ALSO

acadmin addgroupusers, acadmin listgroups, acadmin rmgroup

EXAMPLES

ENOVIA Synchronicity Command Reference - File

- [Example of Creating a Group in ACAdmin](#)

Example of Creating a Group in ACAdmin

This example creates a documentation group in ACAdmin.

```
dss> acadmin addgroup -group GROUP-Doc -server \  
sync://serv1.ABCo.com:2647
```

Created 1 User Group(s)

acadmin addgroupusers

acadmin addgroupusers Command

NAME

acadmin addgroupusers - Add users to group

DESCRIPTION

This command adds defined users to an existing group. Both usernames and group names are case sensitive. You can only add users to one group at a time.

The group being added to must already exist. To create new groups, use the acadmin addgroup command.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin addgroupusers -group <groupName> -users <userlist>  
[-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is
 installed, and <port> is the SyncServer port
 number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync
 users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,
 DesignSync uses the vault association set on the
 current working directory. If there is no vault
 or there are multiple vaults associated with the
 directory, for example, when you have overlapping
 modules, the command fails.

OPTIONS

- [-group](#)
- [-user](#)

`-group`

`-group <groupName>` Name of the group to which the users are being
 added. This group must already exist. Group
 names are case sensitive.

If you are not sure what groups exist, use the
 acadmin listgroup command to get a list of
 existing groups.

Note: If the group is associated with an object,
 you need to specify the fully extended group
 name. Fully extended group name is specified as:

```
<GroupName>@sync:///<ServerObjectPath>
Where <GroupName> is the case sensitive name of
the group.
<ServerObjectPath> is the path to the object on
which the group was created for example:
Projects/ [<ProjectFolder>/...]ProjectName
Modules/ [<Category>/...]ModuleName
```

`-user`

ENOVIA Synchronicity Command Reference - File

`-user <userlist>` A comma separated list of users to associate with the group. The users must already exist. You may also use the special user definitions provided by DesignSync. For more information on the special users, see the Access Administration Guide.

RETURN VALUE

This command does not return any TCL values. When successful, this command returns a success message. If the command fails, it displays an error message explaining the failure.

SEE ALSO

`acadmin addgroup`, `acadmin addusers`, `acadmin listusers`,
`acadmin listgroups`, `acadmin rmgroup`, `acadmin rmgroupusers`

EXAMPLES

- [Example of a User defined for a Usergroup](#)
- [Example of Adding a User to a Usergroup defined for an Object](#)

Example of a User defined for a Usergroup

This example shows adding a user to a usergroup.

```
dss> stcl> acadmin addgroupusers -group DocWriters -users rsmith \  
-server sync://serv1.ABCo.com:30126
```

Updated 1 User Group(s)

Example of Adding a User to a Usergroup defined for an Object

This example shows adding a user to a usergroup when the usergroup is defined for a specific object, in this example, it is the module XLP-12Pro in the ChipDesign category.

```
dss> acadmin addgroupusers -group \  
chipDevelopers@sync:///Modules/ChipDesign/XLP-12Pro -users \  
thopkins -server sync://serv1.ABCo.com:30126
```

Updated 1 User Group(s)

acadmin addobj

acadmin addobj Command**NAME**

acadmin addobj - Manage the given object with ACAdmin

DESCRIPTION

This command adds permissions for all the existing categories for specified object to the acadmin configuration files. Using the setcatperm command, you can then modify the permissions for each category as needed, granting finer control for the specified object.

The object does not need to exist in order to be added. For example, if you have a list of modules be created, you can define the access permissions first and then create the modules as needed.

Note: When this command is run, it assigns the permission(s) selected to all categories that exist.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin addobj -object <objectURL> [-permission <permission>]
                [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

-server <SyncURL> Specifies the option Sync URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>]
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is
 installed, and <port> is the SyncServer port
 number (defaults to 2647/2679). For example:
 sync://apollo.spaceco.com:1024

ENOVIA Synchronicity Command Reference - File

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-object](#)
- [-permission](#)

-object

`-object <objectURL>` Enter the Sync URL of the object on which to set the permissions. You can set the permissions for any object on the server. You may specify objects as follows:

```
sync:///
```

Controls the default permissions for all object-independent actions on the server. For example, user creation and removal actions do not depend on specific server objects. (Default)

```
sync:///*
```

Controls the default permissions for all object-dependent actions on the server. For example, browsing objects on the server, creating or modifying modules, etc. depend on having access to related server objects.

```
sync:///Projects[/ProjectName]/[pathToObject]
```

Controls the permission for the specified project or the entire project area on the server.

```
sync:///Modules[/Category [...]][/ModName]
```

Controls the permission for the specified module, category, or entire module area on the server.

Notes:

You can use wildcards, such as * to specify all matching objects within the specified path, for example: `sync:///Modules/Chip/*.c` controls access to all .c files within the module Chip. If Chip was a category and you wanted to specify all modules within the category, you could specify the URL either of the following ways:

```
sync:///Modules/Chip/*
```

```
sync:///Modules/Chip
```

The `sync:///` and `sync:///*` URLs are generic Sync URLs that can be used to provide default access for the server.

-permission

```
-permission          Enter a comma separated list of defined
  <permission>       permissions to associate with the object.
```

```
ALL, LIST, EXCLLIST, NONE, SERVDEF
```

When LIST or EXCLLIST are used, you can specify a user or userlist for whom to set the permissions.

RETURN VALUE

This command doesn't return any TCL values. If the command succeeds, you'll receive a success message for each category associated with the object. If the command fails, you'll receive an error message explaining the failure.

SEE ALSO

```
acadmin addgroup, acadmin addgroupusers, acadmin rmobj
```

EXAMPLES

- [Example of Adding the Permissions Categories to A Server Object](#)

Example of Adding the Permissions Categories to A Server Object

This example shows how to create categories for a server object. The command creates all the categories that exist on the server in the `acadmin` configuration file.

```
dss> acadmin addobj -object sync:///Modules/Chip/ALU -permission ALL \
  -server sync://serv1.ABCo.com:30126
```

```
Category ACAProjectDefs created
Category ADMIN-MODULE created
Category BROWSE created
Category DS-PROJADMIN created
Category DS-READ created
Category DS-WRITE created
```


ENOVIA Synchronicity Command Reference - File

Object sync:///Modules/Chip/ALU has been added

acadmin addusers

acadmin addusers Command

NAME

acadmin addusers - Add a user(s) to specified Object and Category

DESCRIPTION

This command adds one or more users to a specified category of permissions assigned to an object. This allows you to modify the list of users assigned to a permissions category as needed.

Note: The specified user does not need to exist when this command is run; it can be created later. For more information on creating users in DesignSync see the DesignSync Administrator's Guide.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin addusers -category <categoryName> -object <objectURL>
                 -users <userlist> [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

-server <SyncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port

number (defaults to 2647/2679). For example:
 sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-category](#)
- [-option](#)
- [-user](#)

-category

-category <categoryName> Name of the command category associated with the user. The command category must exist already.

-option

-object <objectURL> Sync URL of the object associated with the user. The object or object special URL (for example, sync:///) must already exist.

-user

-user <userlist> A comma separated list of users to associate with the category and object.

RETURN VALUE

This command does not return a TCL value. The command displays a success message when successful or an appropriate error if the command fails.

SEE ALSO

ENOVIA Synchronicity Command Reference - File

```
acadmin addgroup, acadmin addgroupusers, acadmin addobj,  
acadmin rmusers
```

EXAMPLES

- [example adduser multiple](#)

This example shows adding three users to a category for an object.

```
dss> acadmin addusers -category ADMIN-MODULE -object \  
sync:///Modules/Chip/ALU -users rsmith,thopkins,chipAdmin \  
-server sync:///lwvrh17mon:30126
```

```
Category ADMIN-MODULE updated
```

acadmin listcats

acadmin listcats Command

NAME

```
listcats          - Lists all categories defined on a server
```

DESCRIPTION

The listcats command lists all the categories defined on the specified server.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listcats [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is
 installed, and <port> is the SyncServer port
 number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync
 users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,
 DesignSync uses the vault association set on the
 current working directory. If there is no vault
 or there are multiple vaults associated with the
 directory, for example, when you have overlapping
 modules, the command fails.

RETURN VALUE

This command does not return a TCL value. When successful, this
 command lists the categories available on the server. If the command
 fails, it displays an error message explaining the failure.

SEE ALSO

`acadmin addusers`, `acadmin listcmds`, `acadmin listperms`,
`acadmin setcatperm`

EXAMPLES

- [Example of Listing the Categories for a Server](#)

Example of Listing the Categories for a Server

This example shows listing the categories for a server. This server
 has no custom categories, so the listing shows only the default
 categories that come with ACAdmin.

```
dss> acadmin listcats -server sync://serv1.ABCo.com:2647
```

```
ACAProjectDefs
ADMIN-MODULE
BROWSE
DS-PROJADMIN
DS-READ
DS-WRITE
Mirrors
PS-Read
```

ENOVIA Synchronicity Command Reference - File

PS-Write
SRV-ADMIN

acadmin listcmds

acadmin listcmds Command

NAME

acadmin listcmds - Lists all commands by category

DESCRIPTION

The listcmds command lists all the commands associated with the defined categories. If you are interested in the commands associated with a specific category, you can use the `-category` option to limit the results to a single category.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listcmds [-category <categoryName>] [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example:
sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,

DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-category](#)

-category

-category Name of the command category associated with the
<categoryName> user. The command category must exist already.

Note: You can only specify a single category.

RETURN VALUE

Does not return a TCL value. Displays an alphabetized list of categories and the commands within each category.

SEE ALSO

acadmin addusers, acadmin listcats, acadmin listperms,
acadmin setcatperm

EXAMPLES

- [Example Showing Listing Commands for All Categories on the Server](#)

Example Showing Listing Commands for All Categories on the Server

This example shows the list of command associated with the categories for a server. This server has no custom categories, so the listing shows only the default categories that come with ACAdmin.

```
dss> acadmin listcmds -server sync://serv1.ABCo.com:2647
```

```
ACAProjectDefs {AcaProjCatPrmDef AcaProjUserGroupDef}
ADMIN-MODULE {ChangeCommentAll DeleteFolder DeleteVault
DeleteVersion ExportModule FreezeModule ImportModule MemberUnlockAll
Mkmod Move MoveModule Rmalias Rmconf Rmedge Rmmod Rollback SetOwner
SwitchLocker TagRelease UnfreezeModule UnlockAll}
BROWSE BrowseServerObj
DS-PROJADMIN {ChangeCommentAll DeleteFolder DeleteVault
DeleteVersion MakeBranch Move SetOwner SwitchLocker TagRelease
```

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```
UnlockAll}  
DS-READ CheckoutNoLock  
DS-WRITE {Addhref ChangeComment Checkin CheckoutLock HcmUpgrade Lock  
MakeBranch MakeBranchTrunk MakeFolder MemberUnlock Mkedge Retire  
Rmhref Tag Unlock Unretire}  
Mirrors Mirrors  
PS-Read {AcaViewDef BrowseServer EditUser EmailSubscribe ViewNote}  
PS-Write {AddNote AddPSReport CreateConfig DeleteNote DeletePSReport  
EditNote EditNoteAttachments EditUser ModifyConfig  
ModifyNoteProperty ReviseNoteHistory SetNoteProperty UnlockNote  
ViewNote}  
SRV-ADMIN {ACAActions AddDevelopmentInstance Addlogin AddMirror  
AddProject AddTrigger AddUser AdministrateNoteTypes  
AdministrateServer DeleteConfig DeleteDevelopmentInstance  
DeleteMirror DeleteProject DeletePSReportAll DeleteTrigger  
DeleteUser EditAllUser EditMirror EditTrigger EmailAllSubscribe  
EmailMgrAdmin ExportProject ImportProject ModifyDevelopmentInstance  
ModifyMirror ModifyProject PrimaryMirrorFetch ResetAccessControls  
Rmlogin Showlogins Suspend TransferFile ViewMirror}
```

acadmin listgroups

acadmin listgroups Command

NAME

acadmin listgroups - lists the defined groups and their users

DESCRIPTION

The acadmin listgroups command lists all defined groups. All groups are available server-wide. Groups can be specified as associated with an object, however this association is non-binding and purely intended as a guide to the user to indicate how the group should be used.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listgroups [-group <groupName>] [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is
 installed, and <port> is the SyncServer port
 number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync
 users the environment variable `SYNC_SERVER_URL`.

If there is no `SYNC_SERVER_URL` variable defined,
 DesignSync uses the vault association set on the
 current working directory. If there is no vault
 or there are multiple vaults associated with the
 directory, for example, when you have overlapping
 modules, the command fails.

OPTIONS

- [-group](#)

-group

`-group <groupName>` Name of the group you want to view the users
 associated with.

Note: If the group was associated with an object,
 you need to specify the fully extended group
 name. Fully extended group name is specified as:

`<GroupName>@sync:///<ServerObjectPath>`

Where <GroupName> is the case sensitive name of
 the group.

<ServerObjectPath> is the path to the object on
 which the group was created for example:

`Projects/ [<ProjectFolder>/...]ProjectName`

`Modules/ [<Category>/...]ModuleName`

RETURN VALUE

This command does not return any TCL values. If the command is
 successful it will display a list of groups, alphabetically, followed
 by a list of users.

SEE ALSO

ENOVIA Synchronicity Command Reference - File

```
acadmin addgroup, acadmin addgroupusers, acadmin rmgroup,  
acadmin rmgroupusers
```

EXAMPLES

- [Example Showing a List of All Groups](#)
- [Example Showing the Users for a Specified Group](#)

Example Showing a List of All Groups

This example shows the list of all groups on the server. Groups associated with a specific object are shown with the object path.

```
dss> acadmin listgroups -server sync://serv1.ABCo.com:30126  
  
DocWriters mhopkins  
chipDevelopers@sync:///Modules/ChipDev/XLP-12Pro {rsmith thopkins}
```

Example Showing the Users for a Specified Group

This example shows the list for the chipDevelopers group on the Module object XLP-12Pro. Note that when you specify a group that is on an object, you must specify the full group path as <group>@<relativeObjectPath>, as shown.

```
dss> acadmin listgroups -group \  
chipDevelopers@sync:///Modules/ChipDev/XLP-12Pro -server \  
sync://serv1.ABCo.com:30126  
  
chipDevelopers@sync:///Modules/ChipDev/XLP-12Pro {rsmith thopkins}
```

acadmin listobjs

acadmin listobjs Command

NAME

```
acadmin listobjs - lists all acadmin managed objects on the server
```

DESCRIPTION

This command lists all the objects that are managed in the acadmin configuration files. The objects can be added with the acadmin addobjs command and modified with the setcatperm command.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listobjjs [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync uses the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

RETURN VALUE

This command does not return any TCL values. When successful, this command returns a list, in alphabetical order, of all the objects managed by acadmin. If the command fails, it returns an error message explaining the failure.

SEE ALSO

acadmin addobj, acadmin rmobj

ENOVIA Synchronicity Command Reference - File

EXAMPLES

- [Example of Listing Objects Managed by ACAdmin](#)

Example of Listing Objects Managed by ACAdmin

This example shows a list of all the objects managed by ACAdmin.

```
dss> acadmin listobjs -server sync://serv1.ABCo.com:30127

sync:///
sync:///Modules/ChipDev/ALU
sync:///Modules/ChipDev/XLP-12Pro
```

acadmin listperms

acadmin listperms Command

NAME

```
acadmin listperms - list all permissions for the object or category
```

DESCRIPTION

This command shows the permissions for all the objects that are managed with ACAdmin.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listperms [-category <categoryName>] -object <ObjectURL>
[-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

-server <SyncURL> Specifies the option Sync URL as follows:

```
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port
number (defaults to 2647/2679). For example:
sync://apollo.spaceco.com:1024
```

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-category](#)
- [-object](#)

-category

`-category <categoryName>` Name of the command category associated with the user. The command category must exist already.

Note: You can only specify a single category.

-object

`-object <objectURL>` Enter the Sync URL of the object for which you are viewing the permissions. You can view the permissions for any object on the server. You may specify objects as follows:

```
sync:///
Controls the default permissions for all
object-independent actions on the server. For
example, user creation and removal actions do not
depend on specific server objects. (Default)
```

```
sync:///*
Controls the default permissions for all
object-dependent actions on the server. For
example, browsing objects on the server, creating
or modifying modules, etc. depend on having
access to related server objects.
```

```
sync:///Projects[/ProjectName]/[pathtoObject]
```

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Controls the permission for the specified project or the entire project area on the server.

```
sync:///Modules[/Category [...]][/ModName]
```

Controls the permission for the specified module, category, or entire module area on the server.

Notes:

You can use wildcards, such as * to specify all matching objects within the specified path, for example: `sync:///Modules/Chip/*.c` controls access to all .c files within the module Chip. If Chip was a category and you wanted to specify all modules within the category, you could specify the URL either of the following ways:

```
sync:///Modules/Chip/*
sync:///Modules/Chip
```

The `sync:///` and `sync:///*` URLs are generic Sync URLs that can be used to provide default access for the server.

RETURN VALUE

Does not return a TCL value. When successful, this command lists the categories and permissions for the object, alphabetically by category. If there is an error, DesignSync return an appropriate error message explaining the failure.

SEE ALSO

`acadmin addobj`, `acadmin rmobj`, `acadmin setcatperm`

EXAMPLES

- [Example Showing the List of Permissions for an Object in ACAdmin](#)

Example Showing the List of Permissions for an Object in ACAdmin

This example shows the list of permissions for a specified object in ACAdmin.

```
dss> acadmin listperms -object sync:///Modules/ChipDev/ALU -server \
sync://serv1.ABCo.com:2746
```

```
DS-READ {ALL {}}
DS-PROJADMIN {ALL {}}
ADMIN-MODULE {ALL {anewman rsmith}}
BROWSE {ALL {}}
ACAPProjectDefs {ALL {}}
```

```
DS-WRITE {ALL {}}
```

acadmin listusers

acadmin listusers Command

NAME

```
acadmin listusers - lists users for the server or specified object
```

DESCRIPTION

The `acadmin listusers` command lists users associated with `acadmin` objects or groups. As shown in the example below, user-defined groups are expanded in the output, so you will not see the user-defined group name. Virtual groups, such as All-Module-Owners, are not expanded and you may see them referenced in the command output. For more information on virtual groups and how to use them, see the ENOVIA Synchronicity Access Control Guide.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin listusers [-object <ObjectURL>] [-server <SyncURL>]
```

ARGUMENTS

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync users the environment variable `SYNC_SERVER_URL`.

If there is no `SYNC_SERVER_URL` variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the

ENOVIA Synchronicity Command Reference - File

directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-object](#)

-object

`-object <objectURL>` Enter the Sync URL of the object on which to view the users. You can view the users for any object on the server. You may specify objects as follows:

```
sync:///
```

Controls the default permissions for all object-independent actions on the server. For example, user creation and removal actions do not depend on specific server objects. (Default)

```
sync:///*
```

Controls the default permissions for all object-dependent actions on the server. For example, browsing objects on the server, creating or modifying modules, etc. depend on having access to related server objects.

```
sync:///Projects[/ProjectName]/[pathtoObject]
```

Controls the permission for the specified project or the entire project area on the server.

```
sync:///Modules[/Category [...]][/ModName]
```

Controls the permission for the specified module, category, or entire module area on the server.

Notes:

You can use wildcards, such as `*` to specify all matching objects within the specified path, for example: `sync:///Modules/Chip/*.c` controls access to all `.c` files within the module `Chip`. If `Chip` was a category and you wanted to specify all modules within the category, you could specify the URL either of the following ways:

```
sync:///Modules/Chip/*
```

```
sync:///Modules/Chip
```

The `sync:///` and `sync:///*` URLs are generic Sync URLs that can be used to provide default access for the server.

RETURN VALUE

This command doesn't return any TCL values. If the command is successful, you will see a list of users who have been assigned to acadmin categories. If the command fails, it will return an appropriate error message explaining the failure.

SEE ALSO

acadmin addusers, acadmin rmusers, acadmin listgroups

EXAMPLES

- [Example of Listing Users Associated with Categories on the Server](#)

Example of Listing Users Associated with Categories on the Server

This example shows the users associated with acadmin categories on the server. This is a very simple example which has very open permissions except for one category assigned to the user group DocWriters. The user rsmith is the only user in the group DocWriters, therefore, his is the only username that appears separately.

```
dss> acadmin listusers -server sync://serv1.ABCo.com:2476
everyone rsmith
```

acadmin reset**acadmin reset Command****NAME**

```
acadmin reset          - Regenerates the AccessControl file and runs an
                        Access Reset.
```

DESCRIPTION

The acadmin reset command regenerates the AccessControl to collect all the changes made to the system since the last reset. Then the command runs the Access Reset to load the changes onto the server.

SYNOPSIS

ENOVIA Synchronicity Command Reference - File

```
acadmin reset [-server <SyncURL>]
```

ARGUMENTS

`-server <SyncURL>` Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port
number (defaults to 2647/2679). For example:
sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync
users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,
DesignSync uses the vault association set on the
current working directory. If there is no vault
or there are multiple vaults associated with the
directory, for example, when you have overlapping
modules, the command fails.

RETURN VALUE

This command does not return a TCL value. When successful, the
command displays a success result. When it fails, the command
displays an error explaining the failure.

SEE ALSO

acadmin addgroup, acadmin addgroupusers, acadmin addobj,
acadmin addusers, acadmin rmgroup, acadmin rmgroupusers,
acadmin rmobj, acadmin rmusers, acadmin setcatperm

EXAMPLES

- [ACAdmin Reset Example](#)

ACAdmin Reset Example

This example shows the response you see when an ACAdmin Reset is
successful.

```
dss> acadmin reset -server sync://serv1.ABCo.com:2647
```

```
Updated AccessControl file
```

Reset Access Control

acadmin rmgroup

acadmin rmgroup Command

NAME

acadmin rmgroup - Remove a user group.

DESCRIPTION

This command removes user groups. These user groups, when removed, are removed from all the command categories they were associated with.

Notes:

- o Usually only the DesignSync administrators should have permission to remove or modify user group definitions.
- o There are three dynamic (or virtual) user groups that can never be removed. They are All-Module-Owners, All-Project-Owners, and All-Server-Users. These groups are automatically generated when ACAdmin is reset.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

SYNOPSIS

```
acadmin rmgroup -group <groupName> [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

```
-server <SyncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port
number (defaults to 2647/2679). For example:
sync://apollo.spaceco.com:1024
```

ENOVIA Synchronicity Command Reference - File

If this argument is not specified, DesignSync uses the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

`-group <groupName>` Name of the user group. This name should match exactly the name used when the group was added, including case. If you are not sure how to correctly specify the name of the group being removed, you can list the available groups using the `acadmin listgroup` command.

RETURN VALUE

This command doesn't return any TCL values. If the command succeeds, you'll receive a success message. If the command fails, you'll receive an error message explaining the failure.

SEE ALSO

`acadmin addgroup`, `acadmin listgroups`, `acadmin rmgroupusers`

EXAMPLES

- [Example of Removing a Group](#)

Example of Removing a Group

This example shows removing a group from the server.

```
dss> acadmin rmgroup -group DocWriters -server \  
sync://serv1.ABCo.com:2647
```

```
Deleted 1 User Group(s)  
Updated Permissions file
```

acadmin rmgroupusers

acadmin rmgroupusers Command**NAME**

acadmin rmgroupusers- Remove users from group.

DESCRIPTION

This command removes defined users from an existing group. Both usernames and groupnames are case sensitive. You can only remove users from one group at a time.

This does not remove users or groups from the system. In order to delete users or groups, you must use the acadmin rmusers or acadmin rmgroups command respectfully.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin rmgroupusers -group <groupName> -users <userlist>
                    [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

-server <SyncURL> Specifies the option Sync URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>]
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is
 installed, and <port> is the SyncServer port
 number (defaults to 2647/2679). For example:
 sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync users the environment variable SYNC_SERVER_URL.

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If there is no SYNC_SERVER_URL variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-group](#)
- [-user](#)

-group

`-group <groupName>` Name of the group to which the users are being removed. Group names are case sensitive.

If you are not sure what groups exist, use the `acadmin listgroups` command to get a list of existing groups.

Note: If the group is associated with an object, you need to specify the fully extended group name. Fully extended group name is specified as:

```
<GroupName>@sync:///<ServerObjectPath>  
Where <GroupName> is the case sensitive name of  
the group.  
<ServerObjectPath> is the path to the object on  
which the group was created for example:  
Projects/[<ProjectFolder>/...]ProjectName  
Modules/[<Category>/...]ModuleName
```

-user

`-user <userlist>` A comma separated list of users to associate with the group. User names are case sensitive. If you are not sure what usernames to specify, use the `acadmin listusers` command to get a list of existing users. You may also use the special user definitions provided by DesignSync. For more information on the special users, see the Access Administration Guide.

RETURN VALUE

This command does not return any TCL values. When successful, the command indicates that the usergroup was removed. If the command fails, DesignSync returns an appropriate error message explaining the

failure.

SEE ALSO

acadmin addgroup, acadmin addusers, acadmin addgroupusers,
acadmin listusers, acadmin listgroups, acadmin rmgroup

EXAMPLES

- [Example of Removing a User from a Group](#)

Example of Removing a User from a Group

This example shows removing a user from an acadmin group.

```
dss> acadmin rmgroupusers -user rsmith -group DocWriters -server \
sync://serv1.ABCo.com:2647
```

```
Updated 1 User Group(s)
```

acadmin rmobj

acadmin rmobj Command

NAME

```
acadmin rmobj          - Remove the object from ACAdmin management
```

DESCRIPTION

This command removes all the categories defined for the specified object from the acadmin configuration files. The object must have been added to acadmin to manage, but, the object does not need to exist on the server.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

ENOVIA Synchronicity Command Reference - File

```
acadmin rmobj -object <objectURL> [-server <SyncURL>]
```

ARGUMENTS

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port
number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync
users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,
DesignSync uses the vault association set on the
current working directory. If there is no vault
or there are multiple vaults associated with the
directory, for example, when you have overlapping
modules, the command fails.

OPTIONS

`-object <objectURL>` Enter the Sync URL of the object to remove from
ACAdmin control. You may specify objects as
follows:

```
sync:///Projects[/ProjectName]/[pathtoObject]  
Controls the permission for the specified project  
or the entire project area on the server.
```

```
sync:///Modules[/Category [...]][/ModName]  
Controls the permission for the specified module,  
category, or entire module area on the server.
```

Note:

The `sync:///` and `sync:///*` URLs are generic Sync
URLs that can be used to provide default access
for the server.

RETURN VALUE

This command does not return any TCL values. When successful, the
command returns a message indicating that the object was
removed. If the command fails, it returns an error message explaining
the failure.

SEE ALSO

acadmin addobj, acadmin rmgroup, acadmin rmgroupusers

EXAMPLES

- [Example of Removing an Object from ACAdmin Management](#)

Example of Removing an Object from ACAdmin Management

This example shows removing an object from ACAdmin management.

```
dss> acadmin rmobj -object sync:///Modules/ChipDev/ALU -server \
sync://server1.ABCo.com:2647
```

```
Object sync:///Modules/ChipDev/ALU has been deleted from AC
definitions.
```

acadmin rmusers**acadmin rmusers Command****NAME**

```
acadmin rmusers      - Removes a user(s) from the specified Object and
                      Category.
```

DESCRIPTION

This command removes one or more users from a specified category of permissions assigned to an object. This allows you to modify the list of users assigned to a permissions category as needed.

users are assigned to a permissions category as your needs change.

Note: The user does not need to exist when the command is run, as long as it is present in the acadmin configurations files. For more information on creating users in DesignSync see the DesignSync Administrator's Guide.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must

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reset the server using the acadmin reset command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin rmusers -category <categoryName> -object <objectURL>
                -users <userlist> [-server <SyncURL>]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is
installed, and <port> is the SyncServer port
number (defaults to 2647/2679). For example:
sync://apollo.spaceco.com:1024

If this argument is not specified, DesignSync
users the environment variable SYNC_SERVER_URL.

If there is no SYNC_SERVER_URL variable defined,
DesignSync uses the vault association set on the
current working directory. If there is no vault
or there are multiple vaults associated with the
directory, for example, when you have overlapping
modules, the command fails.

OPTIONS

- [-category](#)
- [-object](#)
- [-user](#)

-category

`-category`
<categoryName> Name of the command category associated with the
user.

-object

-object <objectURL> Sync URL of the object associated with the user.

-user

-user <userlist> A comma separated list of users to remove from the category and object.

RETURN VALUE

This command does not return a TCL value. The command displays a success message when successful or an appropriate error message if the command fails.

SEE ALSO

acadmin addobj, acadmin addgroup, acadmin addgroupusers

EXAMPLES

- [Example of Removing a User from a Category on an Object](#)

Example of Removing a User from a Category on an Object

This example shows the removal of a user from a category defined for an object.

```
dss> acadmin rmusers -object sync:///Modules/Chip/ALU -category \
ADMIN-MODULE -user rsmith -server sync://serv1.ABCo.com:2647
```

```
Category ADMIN-MODULE updated
```

acadmin setcatperm

acadmin setcatperm Command

NAME

acadmin setcatperm - Set permission for users, objects, & categories

DESCRIPTION

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This command allows you to adjust the permissions associated with categories, and optionally users, associated with objects managed by ACAdmin.

Before you can adjust the permissions, you need to associate the objects with ACAdmin using the `acadmin addobj` command. This also makes the defined categories available for the object with the permissions specified by the command.

Once those have been created, the permissions for the category can be adjusted for all users or individual users or user groups assigned to the category.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

To use this command, the Access Control Administrator must be enabled on the server being updated.

To apply the changes created by this command to the server, you must reset the server using the `acadmin reset` command or ACAdmin Reset from the DesignSync Web UI.

SYNOPSIS

```
acadmin setcatperm -category <categoryName> -object <objectURL>
                  -permission <permission> [-users <userlist>]
                  [-server sync(s)://host:port]
```

ARGUMENTS

- [Sync URL](#)

Sync URL

`-server <SyncURL>` Specifies the option Sync URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]`
where 'sync://' or 'syncs://' are required,
<host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example:
`sync://apollo.spaceco.com:1024`

If this argument is not specified, DesignSync users the environment variable `SYNC_SERVER_URL`.

If there is no `SYNC_SERVER_URL` variable defined, DesignSync uses the vault association set on the current working directory. If there is no vault or there are multiple vaults associated with the

directory, for example, when you have overlapping modules, the command fails.

OPTIONS

- [-category](#)
- [-object](#)
- [-permission](#)
- [-user](#)

-category

`-category` Name of the command category being modified.
`<categoryName>` The command category must exist already.

-object

`-object <objectURL>` Enter the Sync URL of the object on which to set the permissions. You can set the permissions for any object on the server. You may specify objects as follows:

`sync:///`
 Controls the default permissions for all object-independent actions on the server. For example, user creation and removal actions do not depend on specific server objects. (Default)

`sync:///*`
 Controls the default permissions for all object-dependent actions on the server. For example, browsing objects on the server, creating or modifying modules, etc. depend on having access to related server objects.

`sync:///Projects[/ProjectName]/[pathtoObject]`
 Controls the permission for the specified project or the entire project area on the server.

`sync:///Modules[/Category [...]]/[ModName]`
 Controls the permission for the specified module, category, or entire module area on the server.

Note:

The `sync:///` and `sync:///*` URLs are generic Sync URLs that can be used to provide default access for the server.

-permission

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`-permission` Enter a comma separated list of defined
 `<permission>` permissions to associate with the object.

ALL, LIST, EXCLLIST, NONE, SERVDEF

When LIST or EXCLLIST are used, you can specify a user or userlist for whom to set the permissions.

-user

`-user <userlist>` A comma separated list of users whose permissions
 are being modified for the specified category.

If no users are specified, the permissions for all users in the category are modified.

RETURN VALUE

This command does not return any TCL values. When successful, lists the categories that have been modified, or returns an appropriate error message if the command fails.

SEE ALSO

acadmin addgroup, acadmin addobj, acadmin addusers,
acadmin listcats, acadmin listobj, acadmin listperms, acadmin reset

EXAMPLES

- [Example of Setting Permissions for a Category](#)
- [Example of Setting Permissions for a User](#)

Example of Setting Permissions for a Category

This example shows how to set permissions for a category defined for a module object. The acadmin listperms command following shows the permissions for the category.

```
dss> acadmin setcatperm -object sync:///Modules/Chip/ALU -category \  
ADMIN-MODULE -permission ALL -server sync://serv1.ABCo.com:2647
```

```
Category ADMIN-MODULE updated
```

```
dss> acadmin listperms -object sync:///Modules/Chip/ALU -category \
ADMIN-MODULE -server sync://serv1.ABCo.com:2647

ALL rsmith
```

Example of Setting Permissions for a User

This example shows how to set permissions for a user associated with a category defined for a module object.

```
dss> acadmin setcatperm -object sync:///Modules/Chip/ALU -category \
ADMIN-MODULE -permission LIST -user rsmith -server \
sync://lwvrh17mon:30126
```

Category ADMIN-MODULE updated

```
dss> acadmin listperms -object sync:///Modules/Chip/ALU -category \
ADMIN-MODULE -server sync://lwvrh17mon:30126
```

LIST rsmith

access

access Commands

NAME

access - Access-control commands

DESCRIPTION

These commands provide access to the access control system used by DesignSync tools. Note that some access control commands (access allow, access define, access deny, access filter, access global, access init) are available ONLY within an AccessControl file. See the ENOVIA Synchronicity Access Control Guide for more information.

SYNOPSIS

```
access <access_command> [<access_command_options>]
```

```
Usage: access [allow|db_filter|define|deny|filter|global|init|list|
reset|verify]
```

OPTIONS

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Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl, server-side, rstcl, access reset, access verify

EXAMPLES

See specific "access" commands.

access allow

access allow Command

NAME

access allow - Allows access to the specified actions

DESCRIPTION

The 'access allow' and related 'access deny' commands allow or deny access to a specified list of actions. You can allow or deny access for particular users and under circumstances you specify.

See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

SYNOPSIS

```
access {allow | deny} <actionList> {everyone | [only] users <userList>}  
    [when <parm> <globExpr> [when ...]]  
    [-because "<message_string>"]
```

OPTIONS

- [actionList](#)
- [everyone](#)
- [users](#)
- [userList](#)
- [when](#)
- [-because](#)

Note: For list parameters, (<actionList> and <userList>) surround multiple values with braces, for example, {Checkin Checkout}. The braces are optional when you specify a single value; for example, both {Checkout} and Checkout are valid.

actionList

`actionList` The name of the actions to be controlled. The default actions are defined in the default Synchronicity access control file by 'access define' statements and have names such as Checkin, Checkout, and Delete. Note: Actions are case sensitive.

everyone

`everyone` Specifies that the access control applies to all users.

users

`users` Specifies the group of users to which the access control applies. The 'only' modifier to the users argument indicates that users not on the list are assigned opposite access permissions. For example, 'access allow Checkin users Joe' means Joe is allowed to check in files, but 'access allow Checkin only users Joe' means that nobody other than Joe is allowed to check in files. One use of 'only' is to define restrictive access rights (deny access to everyone) and then specifically grant rights to certain users using the 'only' modifier. Users can be named more than once by multiple allow and deny commands. Access by users listed as both allowed and denied is determined by the last list in which they appear.

userList

`userList` The list of users to which 'access allow' or 'access deny' applies. Surround a multiple list of

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users with braces; the braces are optional for a single user. Note: User names are case sensitive.

when

when Use optional 'when' clauses to indicate that the <userList> is only allowed or denied access when the named parameter <parm> (corresponding to the <parameterList> argument of the 'access define' command) matches the glob-style expression given by <globExpr>. If multiple 'when' clauses are used, all of them must match in order for the access rights to be affected; in other words, 'when' clauses are joined with an implicit AND operator.

-because

-because Use optional -because clauses with 'access allow' and 'access deny' statements to provide a message string to users indicating why an action failed. In 'access allow' statements, use the -because clause with the 'only' modifier to explain under which circumstances the 'only' modifier is restricting access. If an AccessControl file contains multiple 'access allow', 'access deny', or 'access filter' statements for an action, the -because clause of the last 'access allow|deny' statement (or the return message string in the case of an 'access filter' statement) is returned if the action fails. If a -because or return message string is not included in the last 'access allow', 'access deny', or 'access filter' statement, only the default "Permission denied by the AccessControl system" message is returned.

RETURN VALUE

none

SEE ALSO

access filter, access reset, access verify

EXAMPLES

The following skeleton example uses the wildcard character passed

to access verify to ensure that notes for which users have only partial view access are not entirely suppressed from the GUI:

```
access allow ViewNote everyone when id \\*
```

You also can use constructs of this type for EditNote and DeleteNote actions.

For additional examples of using 'access allow' and 'access deny,' see the ENOVIA Synchronicity Access Control Guide.

access db_filter

access db_filter Command

NAME

```
access db_filter - Specify criteria for allowing or denying access
                  for ViewNote or EditNote
```

DESCRIPTION

This command lets you specify criteria for allowing or denying access to users attempting to view or edit notes. The access db_filter command can be used only for ViewNote and EditNote filters. For any ViewNote or EditNote action that requires verifying more than one note, access db_filter performs better than access filter.

The access db_filter command is used only in scripts in conjunction with the note query -filter command.

The access db_filter rule always gets a parameter query. When this rule is invoked by the note query -filter command, this parameter contains an unfiltered query string. The filter script can use this unfiltered query in any way. Usually the filter script constructs a complex query based on the unfiltered query. This complex query then expresses access control constraints. In this way, access control verification is done at once for all the notes resulting from the initial query.

An access db_filter script must use the directives ALLOW, DENY, ALLOW_ALL, or DENY_ALL. It must not return any value.

Most access rules (access allow, access deny, access filter) operate on one note at a time and can return only a single value (ALLOW, DENY or UNKNOWN).

However, an access db_filter rule returns results in a different way from other rules because it can operate on multiple notes gathered from the note query command. Instead of returning a tri-state value, it modifies a tri-state value (0 (denied), 1 (allowed), ? (unknown))

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in a Tcl array. The access commands use this Tcl array to determine which notes are passed back to the user through the note query -filter command.

Before entering an access db_filter block, all notes for which access is to be determined are stored in the ACCESS array. Each array value is initially set to "?", indicating that access has not been determined.

When an unfiltered query is passed to access db_filter, it is allowed to modify the array ACCESS as appropriate by the supplied API. When access is granted, the array element changes to 1; when access is denied, the element changes to 0. At the end of the rule evaluation, the array ACCESS is checked for the presence of unknown elements. If all elements are in a known state, the loop over the rules is aborted. If, for instance, the last rule in a ViewNote action list is:

```
access allow NoteActions masteradmin
```

this rule is the only one processed for the masteradmin user.

An access db_filter rule never adds entries to the array ACCESS; it can only modify existing unknown entries (containing "?") and can never set a value to ?.

When access db_filter is called, the unfiltered query has already been executed, extracting only ID's. The access db_filter can:

- Rerun the query, tacking on a filter expression, using FILTERED_IDS.

- Run a related query, and then do its own "join".

When writing custom access db_filter scripts, do not directly access the ACCESS array. Instead, use the functions provided by the API, listed in the API FUNCTIONS section.

The access db_filter rule can coexist with other rules, such as access allow or access deny. All combinations of the note query -filter and access verify commands with access allow, access deny, access filter, and access db_filter rules are valid. Different rules for the same action are applied in the same order as in the current system, with the last rule providing a definite answer.

You add 'access db_filter' commands to the site or server AccessControl file within the <SYNC_CUSTOM_DIR> hierarchy (defaults to <SYNC_DIR>/custom):

Site-wide:

```
<SYNC_SITE_CUSTOM>/share/AccessControl  
(where <SYNC_SITE_CUSTOM> defaults to <SYNC_CUSTOM_DIR>/site)
```

Server-specific (UNIX only):

```
<SYNC_CUSTOM_DIR>/servers/<host>/<port>/share/AccessControl
```

Note: Do not edit any of the access control files in the \$SYNC_DIR/share area; you should edit the site or server AccessControl

file. See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

SYNOPSIS

```
access db_filter <actionList> [when <parm> <globExpr> [when ...]]
      <script>
```

OPTIONS

- [actionList](#)
- [when](#)
- [script](#)

Note: For the list parameter <actionList>, surround multiple values with braces, for example, {ViewNote EditNote}. The braces are optional when you specify a single value; for example, both {ViewNote} and EditNote are valid.

actionList

actionList The name of the actions to be controlled - ViewNote and/or EditNote. These actions are defined in the default Synchronicity access control file by 'access define' statements

when

when Use optional 'when' clauses to indicate that the user is only allowed or denied access when the named parameter <parm> (corresponding to the <parameterList> argument of the 'access define' command) matches the glob-style expression given by <globExpr>.

If multiple 'when' clauses are used, all of them must match for the access rights to be affected. In other words, 'when' clauses are ANDed.

script

script A Tcl script or Tcl statements supplied directly to the 'access db_filter' command and evaluated to determine whether a given user should be allowed or

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denied access to the named action for each note returned by the query. When invoked, <script> is passed a parameter named \$user that holds the name of the user whose access is in question, in addition to the parameters listed in the access define statement that defined the action.

Another parameter available to the script is \$action, which always has either the value EditNote or ViewNote, depending on what action is being verified. Using the \$action parameter, you can invoke different commands depending on which action has triggered the filter statement.

An access db_filter script must use the directives ALLOW, DENY, ALLOW_ALL, or DENY_ALL.

API FUNCTIONS

- [ALLOW](#)
- [ALLOW_ALL](#)
- [CHECK_STAR](#)
- [DENY](#)
- [DENY_ALL](#)
- [FILTERED_IDS](#)
- [FOREACH_NOTE](#)
- [FOREACH_UNKNOWN](#)
- [SINGLE_NOTE](#)

The access db_filter contains the following API functions for accessing the ACCESS array:

ALLOW

ALLOW - This function grants access to a single note and sets the ACCESS array element for that note to "1". For example:

```
ALLOW $id
```

ALLOW_ALL

ALLOW_ALL - This function sets all notes as allowed--that is, access is granted. All ACCESS array elements are set to "1". For example:

```
ALLOW_ALL
```

CHECK_STAR

CHECK_STAR - This function is used when access is always granted because an asterisk is passed to the access verify command. In this case, the CHECK_STAR function grants access and immediately returns to the calling application code. You therefore do not need to return after calling CHECK_STAR. This function should appear at the top of every access db_filter call unless the asterisk case is handled differently.

See the EXAMPLES section for an example of using this function.

DENY

DENY - This function denies access to a single note and sets the ACCESS array element for that note to "0". For example:

```
DENY $id
```

DENY_ALL

DENY_ALL - This function sets all notes as denied--that is, access is denied. All ACCESS array elements are set to "0". For example:

```
DENY_ALL
```

FILTERED_IDS

FILTERED_IDS - This function returns a filtered list of note IDs based on a set of specified criteria. The variables listed below are available to every access db_filter script. For example:

```
# Other users can access their own notes.
set AC_squery "[sq $user] = f_Author"

set AC_notes [FILTERED_IDS $type $sqlquery $dbquery
$attached $AC_squery <$selectList>]
```

where:

- \$type is the note type passed into the filter.
- \$sqlquery is the original SQL query passed in to the filter, if any.

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- \$dbquery is the original database query passed in to the filter, if any.
- \$attached is the URL for note query -attached calls passed in to the filter, if any.
- \$AC_squery is an additional SQL query describing the additional criteria needed to determine access on the set of notes.
- \$selectList is an optional parameter that allows you to specify extra properties from the note type that the filter needs to determine access. If you specify \$selectList, it returns a list of lists in the form: {id prop prop ...} {id prop prop ...}.

FOREACH_NOTE

FOREACH_NOTE - This function iterates over the ACCESS array and returns one note at a time, regardless of whether the note has been allowed or denied by a previous ALLOW, DENY, ALLOW_ALL or DENY_ALL command. For example:

```
FOREACH_NOTE <varName> {  
  # Process the note, whose ID is stored in <varName>  
  ALLOW $<varName>  
}
```

FOREACH_UNKNOWN

FOREACH_UNKNOWN -This function iterates over the ACCESS array and returns one note at a time. Only notes marked as unknown ("?") are returned. For example:

```
FOREACH_UNKNOWN <varName> {  
  # Process the note, whose ID is stored in <varName>  
  DENY $<varName>  
}
```

SINGLE_NOTE

SINGLE_NOTE - This function checks whether a single note is being access controlled, and returns the note ID for a single note or a null string if there are multiple notes.

It is not necessary for access db_filter to know whether a single note or multiple notes are being checked; the filter must be able to handle 0, 1, or multiple notes. However, in some instances, an optimization is possible if you know that a single note is being checked.

For example:

```
set noteId [SINGLE_NOTE]
if {$noteId == ""} {
    # Multiple notes are being access controlled
} else {
    # Only one note, $noteId contains the note id
}
```

RETURN VALUE

none

SEE ALSO

access filter, access global, access init, access reset, access verify

EXAMPLES

- [Set Different Access Rights for a Note](#)
- [Create a Filter to View Notes Authored By User](#)

Set Different Access Rights for a Note

In this example, the script passed to 'access db_filter' ensures that SecretIngredient notes can be viewed by anyone if their secrecy level is low; otherwise, only their Inventor can view these notes. But SecretIngredient notes can be edited only by their Inventor, regardless of the secrecy level.

The script sets up a query, filter_squery, an SQL query that gathers up all the notes whose Inventor is the current user if the action is EditNote. The query gathers up both the notes whose Inventor is the current user and the notes with Secrecy level set to 'low' if the action is ViewNote. Note that in SQL queries, you must prepend 'f_' to the property name, for example, 'f_Inventor' and 'f_Secrecy'. The query is passed to the FILTERED_IDS function which actually gathers the notes. Finally, for all the notes that match the query, the EditNote or ViewNote action is set to ALLOW.

```
access db_filter {ViewNote EditNote} when type SecretIngredient {
    CHECK_STAR
    # CHECK_STAR checks if first note Id == '*' and
    # allows action if so; this is used so that the
    # note type shows up in the Quick View panel.

    if {$action == "ViewNote"} {
        set filter_squery "f_Inventor = [sq $user] OR f_Secrecy = 'low'"
    }
}
```


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```
} else {
    set filter_squery "f_Inventor = [sq $user]"
}
set filtered_notes [FILTERED_IDS $type $sqlquery $dbquery \
    $attached $filter_squery]
# The FILTERED_IDS function runs a subquery, which
# is the original query with the filter_squery tacked
# onto it.

# filtered_notes now holds a list of notes that matches the
# original query,
# AND passed the access checks. Now update the ACCESS map
# by setting the flag for each note that passed muster and
# denying those that didn't

foreach AC_note $filtered_notes {
    ALLOW $AC_note
}

FOREACH_UNKNOWN AC_note {
    DENY $AC_note
}
}
```

Create a Filter to View Notes Authored By User

This example creates a filter to display notes authored by the user who runs the query.

```
access db_filter ViewNote when type "SyncDefect" {

# -----
# The following variables are available to this filter:
#
#   $type . . . . . The note type
#   $sqlquery . . . The original SQL query, passed in from
#                   the note query command, if any.
#   $dbquery . . . The original DB query, passed in from the
#                   the note query command, if any.
#   $attached . . . A note attachment, passed in from the note
#                   query -attached command, if any.
#   $user . . . . . The user ID of the user requesting access.
# -----

# Check for the "*" operator, which could be sent in from a
# note panel. If a "*" is found, the filter will return
# immediately after granting access.

CHECK_STAR

# For purposes of this example filter, allow users to view
# only the SyncDefect notes that they authored. Therefore,
```

```

# build a new SQL query to gather only those notes where the
# user is the author.

Set AC_squery "[sq $user] = f_Author "

# Gather the filtered list of note IDs where the criteria
# matches the original query and our criteria.

set AC_ids [FILTERED_IDS \
  $type $sqlquery $dbquery $attached $AC_squery]

# The variable AC_ids now holds the list of note IDs that
# pass the original query (say, we queried for all "open" defects)
# AND match our criteria of the user being the author. These are
# the notes the user has access to view. Therefore, we
# iterate through the ID list and allow each note returned from
# FILTERED_IDS.

foreach noteId $AC_ids {
  ALLOW $noteId
}

# Now DENY all the notes that did NOT match our criteria.
# Iterate through all the notes that are still in an UNKNOWN
# state and DENY them.

FOREACH_UNKNOWN noteId {
  DENY $noteId
}
}

```

access define

access define Command

NAME

```
access define - Define additional actions to be access controlled
```

DESCRIPTION

Use the 'access define' command within to specify new actions to be access controlled.

The pre-defined access control files included with DesignSync define the actions for which you can control access. See the ENOVIA Synchronicity Access Control Guide for descriptions of the pre-defined action definitions and details on setting up and using access controls.

You use the 'access define' command only to define additional actions when performing advanced access rights checking.

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SYNOPSIS

```
access define <action> [<parameterList>]
```

OPTIONS

- [action Option](#)
- [parameterList Option](#)

Note: For list parameters, such as <parameterList>, surround multiple values with braces, for example, {DRCCheck ERCCheck}. The braces are optional when you specify a single value; for example, both {DRCCheck} and DRCCheck are valid.

action Option

action The name of a new action to be defined. The default actions are defined in the default Synchronicity access control file by 'access define' statements. and have names such as Checkin, Checkout, and Delete. Note: Actions are case sensitive.

parameterList Option

parameterList A list of the arguments required by any access filter scripts or when clauses in 'access allow' or 'access deny' commands.

RETURN VALUE

none

SEE ALSO

access allow, access filter, access reset, access verify

EXAMPLES

See the ENOVIA Synchronicity Access Control Guide for an example of a custom action definition.

access deny

access deny Command

NAME

access deny - Denies access to the specified actions

DESCRIPTION

See the "access allow" command.

SYNOPSIS

```
access {allow | deny} <actionList> {everyone | [only] users <userList>}
[when <parm> <globExpr> [when ...]] [-because "<message_string>"]
```

access filter

access filter Command

NAME

access filter - Specify criteria for allowing or denying access

DESCRIPTION

Use 'access filter' in situations where you need to allow, deny or decline access based on criteria other than simple pattern matching of the parameters.

To create filters where multiple notes are evaluated for ViewNote or EditNote actions, you should use the access db_filter command to improve performance.

See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

ENOVIA Synchronicity Command Reference - File

SYNOPSIS

```
access filter <actionList> [when <parm> <globExpr> [when ...]]  
    <script>
```

OPTIONS

- [actionList](#)
- [script](#)
- [when](#)

Note: For list parameter <actionList>, surround multiple values with braces, for example, {Checkin Checkout}. The braces are optional when you specify a single value; for example, both {Checkout} and Checkout are valid.

actionList

actionList The name of the actions to be controlled. The actions are defined in the default Synchronicity access control files by 'access define' statements and have names such as Checkin, Checkout, and Delete. Note: Actions are case sensitive.

script

script A Tcl script or Tcl statements supplied directly to the 'access filter' command evaluated in order to determine if a given user should be allowed or denied access to the named action. When invoked, <script> is passed a parameter named <user> which holds the name of the user whose access is in question, in addition to the parameters listed in the access define statement that defined the action.

You can also pass the parameter <action> which lets you differentiate between actions, such as Checkin or Checkout. Using the <action> parameter, you can invoke different commands depending on which action has triggered the filter statement. For example, if the action is a Checkin, you might want to check the <CommentLen> parameter is a specific length. If the action is a Checkout, you might want to allow only administrators to lock the objects.

The order in which a filter is declared relative to the 'access deny' and 'access allow' commands is important. Details are in the "Access Control Search

Order" section of the topic "Setting Up Access Controls", in the ENOVIA Synchronicity Access Control Guide.

The filter script must return a value of ALLOW, DENY, DECLINE, UNKNOWN, or a message string indicating that an action is denied and explaining why. If a message string was not specified, when an action is denied, only the default "Permission denied by the AccessControl system" message is returned.

The return value of ALLOW allows the action, overriding DENY values already processed for the same operation. Likewise, the return value of DENY prevents the action, overriding ALLOW values already processed for the action. Unlike ALLOW and DENY, the return value of UNKNOWN causes the access control system to continue as if the filter had never been invoked.

The return value of DECLINE causes the appropriate Member access control to be called. The effective return value is then the result of that Member access control. Or, if there is no Member access rule, then DENY is returned.

In general, set the overall access controls you want to enforce. Then use an access filter to return ALLOW or DENY if you want to explicitly override those default rules. Otherwise, return UNKNOWN.

Note: Any value other than ALLOW, DENY, DECLINE or UNKNOWN is treated as DENY. Any uncaught exceptions are treated as DENY. For example, if you return a message string rather than DENY, the action is denied and users receive the string as an error message in addition to the default "Permission denied by the AccessControl system" message.

when

when

Use optional 'when' clauses to indicate that the user is only allowed or denied access when the named parameter <parm> (corresponding to the <parameterList> argument of the 'access define' command) matches the glob-style expression given by <globExpr>.

If multiple 'when' clauses are used, all of them must match in order for the access rights to be affected; in other words, 'when' clauses are joined with an implicit AND operator.

RETURN VALUE

ENOVIA Synchronicity Command Reference - File

none

SEE ALSO

access allow, access deny, access db_filter, access global,
access init, access reset, access verify

EXAMPLES

The following skeleton example uses the wildcard character passed to access verify to ensure that notes for which users have only partial delete access are not entirely suppressed from the GUI:

```
access filter DeleteNote when type ... {
  if {$id == "*"} {
    return ALLOW
  }
  ...
}
```

For other examples of using "access filter", see the Access Control Guide.

access global

access global Command

NAME

access global - Defines global variables and procs for
access filters

DESCRIPTION

Access filters let you allow or deny access based on criteria beyond simple pattern matching of the parameters. You define static variables and procs within 'access global' commands. (See 'access init' for defining dynamic data.) To use a global variable in an access filter, it must be declared as a global within the filter.

Unlike a normal Tcl script, the AccessControl files (both system and custom) are sourced only once, at startup. When an 'access verify' command is executed, only those commands given as part of access filter scripts are evaluated. Therefore, any variables or procs defined outside of the access commands are unknown by the Tcl interpreter. Do not define any code or data outside either an 'access global' or

'access init' block.

For variables and procs to be available to the access filter scripts, they must be defined within the <script> parameter passed to either 'access global' or 'access init'. Each 'access global' block is sourced once when the access control system initializes and at every "access reset" command. The 'access global' scripts are evaluated in the order in which they appear in the custom AccessControl file.

You cannot specify a list of actions for the 'access global' command (unlike 'access init'). The 'access global' scripts are executed for all actions.

See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

Important: The 'access global' code block runs inside a Tcl namespace called '::SyncAC'. Any variables that the global code block sets or procs that it defines reside in that namespace. When you use these variables or procs in other access filters, qualify them using the '::SyncAC' namespace qualifier, rather than the Tcl global qualifier '::'. Note that access filters let you qualify a variable or proc with the Tcl global namespace '::'. However, in this case, the variable or proc resides in the global namespace which is reset upon every request. Thus, these variables and procs are not visible to subsequent access filters. Note that 'access init' blocks reside in the global namespace, thus they do not need the '::SyncAC' namespace qualifier. See the EXAMPLES section for an example of the '::SyncAC' namespace qualifier.

SYNOPSIS

```
access global <script>
```

OPTIONS

- [script](#)

script

script A Tcl script or Tcl statements that initialize the variables and procs used in the 'access filter' command for the specified actions.

RETURN VALUE

none

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SEE ALSO

access filter, access init, access allow,, access reset,
access verify

EXAMPLES

This example shows how to use 'access global' and demonstrates how the 'access global' command differs from 'access init.' The example sets up two lists of administrators, globalAdmins and filterAdmins. The globalAdmins list is set up in an 'access global' block; the filterAdmins list is set up in an 'access init' block. The AddNote access filter demonstrates the use of the two lists. If a user is contained in either of the lists, the filter allows permission. Otherwise, the filter denies permission.

To use the globalAdmins list in an access filter, it must be first be declared as a global variable in the filter. Anything declared inside an access global block resides in the ::SyncAC namespace rather than the global namespace (::) and needs to be referenced inside access filters using the ::SyncAC namespace qualifier.

The filterAdmins variable does not need to be declared in the access filter because it is set up in an 'access init' block, which is sourced at the time the filter is run and is in the global scope of the filter.

```
access global {
    set globalAdmins "norm barb mitch betty"
}

access init {
    set filterAdmins "mark deb sal"
}

access filter AddNote {
    global globalAdmins

    if {[lsearch -exact $::SyncAC::globalAdmins $user] == -1} {
        if {[lsearch -exact $filterAdmins $user] == -1} {
            return DENY
        } else {
            return UNKNOWN
        }
    } else {
        return UNKNOWN
    }
}
```

In the example, the return value UNKNOWN defers to any other access controls that might be set. If no other access control denies access, the user is allowed to add a note.

For other examples of using "access global", see the Access Control

Guide.

access init

access init Command

NAME

access init - Defines variables and procs

DESCRIPTION

You use access init to create variables for both access filters and for use within simple access allow/access deny rules. You also can use access init to create procs for use in access filters.

Access filters let you allow or deny access based on criteria beyond simple pattern matching of the parameters. You define dynamic variables and procs for access filters within 'access init' commands. (See 'access global' for defining static data.) When possible, you should use access global to avoid performance penalties. Because an access init statement is sourced each time a filter is run, operations such as viewing a note can become unacceptably slow. The access global command, which is used inside filter scripts, is sourced only once, when the access control system is initialized.

Unlike a normal Tcl script, the AccessControl files (both system and custom) are sourced only once, at startup. When an 'access verify' command is executed, only those commands given as part of access filter scripts are evaluated; any variables or procs defined outside of the access commands are unknown by the Tcl interpreter. Do not define any code or data outside either an 'access init' or 'access global' block.

In order for variables and procs to be available to access filter scripts, they must be defined within the <script> parameter passed to 'access init' or 'access global'. The 'access init' scripts are evaluated in the order in which they appear in the custom AccessControl files. By default, all 'access init' scripts are evaluated before any 'access filter' script is evaluated. However, you can specify that an 'access init' script be evaluated only before access filters verifying a particular type of action. To do this, include the type of action within the <actionList> parameter of the 'access init' statement. See the example of an <actionList> within the 'access init' example below.

Although code in 'access init' statements is executed when filters are run, it also is available immediately for use by access allow/access deny rules that follow the 'access init' definition.

See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

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SYNOPSIS

```
access init [<actionList>] <script>
```

OPTIONS

- [actionList](#)
- [script](#)

Note: For list parameter <actionList>, surround multiple values with braces, for example, {Checkin Checkout}. The braces are optional when you specify a single value; for example, both {Checkout} and Checkout are valid.

actionList

actionList The name of the access filter actions for which the access init <script> will be sourced. If no actionList is provided, the 'access init' script is evaluated before any access filter is executed and the script is executed for all actions.

script

script A Tcl script or Tcl statements that initialize the variables and procs used in the 'access filter' command for the specified actions.

RETURN VALUE

none

SEE ALSO

access filter, access global, access allow, access reset,
access verify

EXAMPLES

This example shows an 'access init' statement that includes an <actionList> argument. The 'access init' statement is defined for the Checkin action; thus, this 'access init' is evaluated only before Checkin access filters. If the <actionList> argument (Checkin) were not included, the 'access init' would be evaluated before any access filters are evaluated.

```
# Set up a variable that defines the project leader
access init Checkin {
    set projectLeader karen
}
```

```
# Only the project leader can check in
access filter Checkin {
    if {$user == $projectLeader} {
        return ALLOW
    }
    return "You must be projectleader to check in."
}
```

For other examples of using "access init", see the Access Control Guide.

access list

access list Command

NAME

```
access list          - Returns a list of defined access controls
```

DESCRIPTION

The access list command returns a list of defined access actions.

SYNOPSIS

```
access list -actions
```

OPTIONS

- [-actions](#)

-actions

ENOVIA Synchronicity Command Reference - File

`-actions` The list of defined access action types.

RETURN VALUE

A space delimited list of the defined access controls appropriate to the options selected.

SEE ALSO

`access allow`, `access deny`, `access define`

EXAMPLES

```
access list -actions
returns "Mkmod DeleteMirror EditMirror SwitchLocker ..."
```

access reset

access reset Command

NAME

`access reset` - Updates a SyncServer's access controls

DESCRIPTION

This server-side command causes the SyncServer to reread the AccessControl files, which causes any changes in access controls to take effect. All processes of a multi-process server are affected by 'access reset', not just the process that receives the request.

A SyncServer reads the AccessControl files upon startup, so stopping and restarting the SyncServer also updates access controls. Using 'access reset' avoids having to stop and restart the SyncServer, thereby not interrupting users' access to the SyncServer.

To update a SyncServer's access controls:

1. Modify the access control files as needed.

See the ENOVIA Synchronicity Access Control Guide for details on setting up and using access controls.

2. Create a file with a .tcl extension containing the 'access reset' command in one of the Synchronicity Tcl script directories:

Site-wide:

```
<SYNC_SITE_CUSTOM>/share/tcl
  (where <SYNC_SITE_CUSTOM> defaults to <SYNC_CUSTOM_DIR>/site)
```

Server-specific (UNIX only):

```
<SYNC_CUSTOM_DIR>/servers/<host>/<port>/share/tcl
  (where <SYNC_CUSTOM_DIR> defaults to <SYNC_DIR>/custom)
```

3. Execute the script on the server using one of the following methods:

- o From your browser, specify the following URL:
http://<host>:<port>/scripts/isynch.dll?panel=TclScript&file=<filename>
- o From a DesignSync client, specify the following command:
rstcl -server sync://<host>:<port> -script <filename>

where <filename> is the name of your script containing the 'access reset' command.

See the "server-side" and "rstcl" help topics for additional information on executing server-side scripts.

Note:

- ProjectSync provides an Access Reset option on the ProjectSync menu. Use this method for resetting access controls if you are a ProjectSync user and have privileges to use the Access Reset option (the Access Reset option from ProjectSync can be access controlled).
- When you execute the script containing the access reset command, the access reset command checks the AccessControl file for syntactic errors before changing the server state. If the file contains such errors, the command aborts, leaving the server state (and access controls) unchanged.
- Errors in an AccessControl file can cause your server to become unresponsive if the errors are not corrected quickly. To avoid this problem, correct access control errors immediately and reset the server.

SYNOPSIS

```
access reset
```

OPTIONS

```
none
```

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RETURN VALUE

none

SEE ALSO

stcl, rstcl, server-side, access verify

EXAMPLES

This example updates the holzt:2647 server with a site-wide access control that stops users from unlocking files they do not own.

1. Add the following line to <SYNC_SITE_CUSTOM>/share/AccessControl:
access deny Unlock everyone when IsLockOwner "no"

Note: <SYNC_SITE_CUSTOM> defaults to <SYNC_CUSTOM_DIR>/site which defaults to <SYNC_DIR>/custom/site.

2. In <SYNC_SITE_CUSTOM>/share/tcl, create 'reset.tcl' that contains the following line:
access reset
3. Execute the script using one of the following methods:
 - o From your browser, issue the following URL:
<http://holzt:2647/scripts/isynch.dll?panel=TclScript&file=reset.tcl>
 - o From a DesignSync client (dssc in this example), execute the following command:
dss> rstcl -server sync://holzt:2647 -script reset.tcl

access verify

access verify Command

NAME

access verify - Determines whether a user is allowed to perform an action

DESCRIPTION

This server-side command checks whether the given user is allowed to perform the named action. Use 'access verify' to check access controls explicitly in server-side scripts; server-side scripts do not automatically perform the named action.

For ViewNote, EditNote, and DeleteNote filters, you can use a special application of access verify to determine whether a user can access any notes of that type. You can pass in an asterisk as a wildcard for the value of a note ID. Any ViewNote, EditNote, or DeleteNote allow/deny/filter rule treats this wildcard specially and answers whether the specified user can access notes of that type. If the answer is DENY, then the user does not see the note type name in certain contexts (e.g., it disappears from QuickView because the user does not have the right to access any notes of that type). See the entries for access allow, access deny, and access filter for examples of how to use the wildcard in scripts with these commands.

SYNOPSIS

```
access verify <action> <user> [<arg> [...]] [-why<var>]
```

```
access verify <note_action> <note_system> <note_type> *
```

ARGUMENTS

- [action](#)
- [args](#)
- [note_action](#)
- [note_system](#)
- [note_type](#)
- [user](#)
- [-why](#)

action

action The name of the action to be checked. The actions are defined in the access control file by "access define" statements and have names such as Checkin, Checkout, and Delete.

args

args The definition of the action in the access control file includes a list of parameters that give additional information about the action. These parameters are used in 'when' clauses and filter scripts in the access control file to determine if access will be allowed or denied. You must pass a value for each of these

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parameters to the access verify command to make this information available to the commands in the access control file.

note_action

<note_action> The ViewNote, EditNote, or DeleteNote action, when you want to pass as asterisk as a wildcard for the note ID number.

note_system

<note_system> The name of the note system, which is always SyncNotes.

note_type

<note_type> The name of the note type to be checked for access.

* A wildcard character that stands for any note ID number.

user

user The user name of the user whose access to the given action is being determined.

-why

-why The definitions of access allow, deny, and filter statements in the access control file can include message strings describing why access has been denied. Use the -why option to retrieve this message from an action's access allow, deny, or filter statement and store it in the named variable. You can also set the variable to an appropriate message string directly. If the access statement provides no message string, the named variable is set to "access denied". If the named variable already exists and the access statement provides no message string, the variable's value remains unchanged.

See the ENOVIA Synchronicity Access Control Guide for information on the pre-defined access control files.

RETURN VALUE

- 0 (Tcl FALSE) - user is not allowed access to the named action.
- 1 (Tcl TRUE) - user is allowed access to the named action.
- 2 - additional rules need to be invoked, to determine whether the user has access to the named action.

SEE ALSO

access allow, access deny, access filter, stcl, rstcl, server-side

EXAMPLES

- [Verifying Access Rights for a User](#)
- [Using the Default "why" Message](#)
- [Using a Custom "why" Message](#)
- [Using a Wildcard for note ID](#)

Verifying Access Rights for a User

This example determines whether user 'joe' has access rights to add the version tag "Release" to top.v. Note that you do not specify a host:port in the Object (top.v) URL (see the "server-side" help topic for more information).

```
if {[access verify Tag $SYNC_User {sync:///Projects/ASIC/top.v} \
    Release ADD VERSION]} {
    puts "$SYNC_User is allowed to tag top.v Release"
} else {
    puts "Nice try, $SYNC_User"
}
```

Using the Default "why" Message

This example shows the default message issued because the variable, message, is not set. If a message is included in the -because or return clause of the access allow, deny, or filter statement for the action, the named variable is set to that message.

```
# Just use the default message.
# output -> "access denied"
unset message
if {[access verify CustomTag $SYNC_User -why message]} {
    puts $message
}
```

Using a Custom "why" Message

ENOVIA Synchronicity Command Reference - File

This example shows how to use the variable, message, to issue a descriptive message explaining why access is denied. If a message is included in the -because or return clause of the access allow, deny, or filter statement for the action, the named variable is set to that message.

```
# Use a descriptive default message.
# output -> "Sorry, only project leader can perform CustomTag."
set message "Sorry, only project leader can perform CustomTag."
if {[access verify CustomTag $SYNC_User -why message]} {
    puts $message
}
```

Using a Wildcard for note ID

This example passes a wildcard as the value of the note ID and returns if access is not granted.

```
if {[access verify ViewNote $SYNC_User SyncNotes $noteType *]} {
    return
}
```

Authentication

password

password Command

NAME

```
password          - Stores a user's name and password
```

DESCRIPTION

This command allows you to save a userID and password for a DesignSync server or a 3DPassport Central Authentication Server, eliminating the need to manually authenticate. This allows the user to run background jobs without requiring user input.

The username, password, and server information is saved in the user's registry, the UserRegistry.reg file. Whenever the user accesses the specified server from any system, the saved password is used.

Note: The saved login information is sent to the server for all queries, even if authentication isn't required. If authentication is not required, this command succeeds regardless of the supplied values.

To use the command, enter the server on the command line with the `-save` option, then enter the username and password when prompted.

When using the password command with the 3DPassport server, the login is persistent for the command-line and graphical clients. This provides the ability to use the 3DPassport single-signon functionality. For information on using 3DPassport, see the DesignSync Data Manager Administrator's Guide: Enabling 3DPassport.

Note: The password command does not save the password for Web authentication. If you are using a web-based application, you may need to log in again through that interface.

SYNOPSIS

```
password -save <ServerURL>
```

OPTIONS

- [save_option](#)

<code>-save</code>	Specify the DesignSync URL for the server connection
<code><serverURL></code>	appropriate for the username/password you are saving in the form: <code>sync[s]://<host>[:<port>]</code> where <code><host></code> is the hostname of the SyncServer and <code><port></code> is the SyncServer port number.

RETURN VALUE

This command does not return any TCL values. If the server cannot be reached, or the account does not exist on the server, the password is saved but not authenticated.

SEE ALSO

dssc, stclc, dss, stcl

EXAMPLES

This example shows how to save the username and password for the specified server.

```
dss> password -save sync://srv2.ABCo.com:2647
```

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```
Please enter account information for Synchronicity, host srv2.ABCo.com:2647.  
Username: rsmith  
Password: *****  
Password confirmed and saved.
```

Command Defaults

defaults Command

NAME

```
defaults          - Commands for the command defaults system
```

DESCRIPTION

The "defaults" commands are used to set default values for command options, for commands run from the command line. For general information about the command line defaults system, in a DesignSync command shell, enter: help "command defaults"

To display a list of available "defaults" commands, in a DesignSync command shell, enter: defaults <Tab>

SYNOPSIS

```
defaults <defaults_command> [<defaults_command_options>]
```

```
Usage: defaults [commands|off|on|refresh|set|show|state]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

defaults commands, defaults off, defaults on, defaults refresh,
defaults set, defaults show, defaults state, command defaults

EXAMPLES

See specific "defaults" commands.

defaults

defaults Command

NAME

defaults - Commands for the command defaults system

DESCRIPTION

The "defaults" commands are used to set default values for command options, for commands run from the command line. For general information about the command line defaults system, in a DesignSync command shell, enter: help "command defaults"

To display a list of available "defaults" commands, in a DesignSync command shell, enter: defaults <Tab>

SYNOPSIS

```
defaults <defaults_command> [<defaults_command_options>]
```

```
Usage: defaults [commands|off|on|refresh|set|show|state]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

ENOVIA Synchronicity Command Reference - File

defaults commands, defaults off, defaults on, defaults refresh,
defaults set, defaults show, defaults state, command defaults

EXAMPLES

See specific "defaults" commands.

defaults commands

defaults commands Command

NAME

defaults commands - Lists the commands that support the defaults system

DESCRIPTION

Lists the commands that support the defaults system. Those commands can have default values set for them, by using the "defaults set" command.

SYNOPSIS

defaults commands

RETURN VALUE

A list of the commands that accept default values. The order of the entries in the list is non-deterministic. For a family of commands, its sub-commands are listed.

For example:

```
{replicate {addroot data showroots showdata rmroot rmdata disable  
reset enable setoptions scrub masrename}}
```

SEE ALSO

defaults on, defaults refresh, defaults set, defaults show,
defaults state, command defaults

EXAMPLES

To list all commands that support the command defaults system:

```
stcl> defaults commands
vhistory rmlogin showmcache {view {check get list put remove}} tag
mkmod {replicate {addroot data showroots showdata rmroot rmdata
disable reset enable setoptions scrub masrename}} mvfile unfreezmod
showstatus contents mkbranch compare hcm lock {mcache {scan touch
scrub show}} annotate rmfolder remove addbackref upgrade add
reconnectmod switchlocker mvmod showmods migratetag edithrefs rmmod
exportmod ci showlogins addhref cancel setview freezmod co populate
rmfile mvfolder showhrefs unremove importmod purge showlocks
rmversion addlogin {sitr {env integrate lookup mkbranch mkmod
populate release select status submit update}} rmvault mvmember
{swap {replace restore show}} retire unlock rmhref whereused version
ls

stcl>
```

defaults off**defaults off Command****NAME**

defaults off - Disables the command defaults system

DESCRIPTION

Disables the command default system. If you do not specify an <expr>, the command default system is disabled until a subsequent "defaults on" command is run within the current client session. When a DesignSync client is started, the command defaults system is enabled.

If you do specify an <expr>, the command defaults system is disabled for the duration of the execution of the supplied Tcl expression.

The "defaults off" and "defaults on" commands do not "nest". The caller of those commands must ensure that the command defaults system is in the correct state at any time.

Use the "defaults state" command to show whether the command defaults system is current enabled or disabled.

To disable the command defaults system when running an individual command, specify the "-nodefaults" option to the command. Use "defaults off" if you are calling a user-defined procedure or alias that itself calls one or more DesignSync commands.

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SYNOPSIS

```
defaults off [<expr>]
```

RETURN VALUE

If you do not specify an <expr>, the state value "off" is returned. If you do specify an <expr>, the result of that <expr> is returned. If the <expr> throws an error, "defaults off" will throw an error.

When an <expr> is specified, the state of the command defaults system is always returned to what it was originally, even if the <expr> threw an error.

SEE ALSO

defaults commands, defaults on, defaults refresh, defaults set, defaults show, defaults state, command defaults

EXAMPLES

This example shows what happens when you set a default on a command, run the command. The example sets the default "-report verbose" for the ls command and then shows running the command with the default mode disabled.

```
stcl> defaults set -- ls -report verbose
```

The "defaults show" command confirms the default setting for "ls":

```
stcl> defaults show ls
{ls {-report verbose}}
stcl>
```

"ls" of an object, without specifying a "-report" option, uses the saved default mode of "-report verbose" (instead of the out-of-the-box default mode of "-report normal"):

```
stcl> ls samp.asm
Object Type   Time Stamp                Status   Version   Locked By   Name
-----
File          05/25/1997 22:04   Up-to-date   1.1                samp.asm
Original Log: --> Created by tbarbg10 @05/26/2006 09:40:10
               --> Old DAC demo files
Version Tags: Latest
Branch Tags:  Trunk
stcl>
```

To ignore saved default values while a command is run, preface the command invocation with "defaults off". For example, if the command defaults system is disabled while an "ls" is run, that "ls" will use the out-of-the-box default mode of "--report normal":

```
stcl> defaults off ls samp.asm
Time Stamp           WS Status  Version   Type       Name
-----
05/25/1997 22:04           1.1      Copy      samp.asm
stcl>
```

defaults on

defaults on Command

NAME

defaults on - Enables the command defaults system

DESCRIPTION

Re-enables the command default system. The command defaults system is enabled by default. The command defaults system remains enabled within a client session until the "defaults off" command is run.

The "defaults off" and "defaults on" commands do not "nest". The caller of those commands must ensure that the command defaults system is in the correct state at any time.

SYNOPSIS

```
defaults on
```

RETURN VALUE

The state value "on".

SEE ALSO

defaults commands, defaults off, defaults refresh, defaults set, defaults show, defaults state, command defaults

EXAMPLES

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The example shows enabling and disabling the command defaults system, and using the "default state" command to show whether defaults is enabled.

```
stcl> defaults off
off
stcl> defaults state
off
stcl> defaults on
on
stcl> defaults state
on
stcl>
```

defaults refresh

defaults refresh Command

NAME

defaults refresh - Refreshes the command defaults system

DESCRIPTION

Refreshes the command defaults system, by re-reading the registry files sourced by the DesignSync client on startup. Default values set via the command defaults system are used by the DesignSync client from which the default values were set. If you saved default values in concurrent DesignSync client sessions, run the "defaults refresh" command to read all saved default values.

Similarly, if default values were saved by a project lead or site administrator, run "defaults refresh" to read default values from all client registry files. See the DesignSync Data Manager User's Guide topic "Registry Files" for further information. New DesignSync client sessions read all saved default values (from registry files) on startup.

SYNOPSIS

```
defaults refresh
```

RETURN VALUE

Not defined.

SEE ALSO

defaults commands, defaults off, defaults on, defaults set, defaults show, defaults state, command defaults, sregistry scope

EXAMPLES

This example shows what happens when a default on a command in a different client than the one you're using, and you want to refresh your client to read in the new default value.

```
stcl> defaults set -- ls -report verbose
stcl>
```

"defaults show" shows that the only saved default value for "ls" is the report mode:

```
stcl> defaults show ls
{ls {-report verbose}}
stcl>
```

In another stclc session, you save another default value for "ls":

```
stcl> defaults set -- ls -report verbose -recursive
stcl>
```

Back in the stclc session from which you set the "-report verbose" default value, "-report verbose" is still the only default value saved for "ls":

```
stcl> defaults show ls
{ls {-report verbose}}
stcl>
```

Still in the stclc session from which you set the "-report verbose" default value, you run "defaults refresh", to re-read the client registry files:

```
stcl> defaults refresh
stcl>
```

Now, that initial stclc recognizes the default values that were saved in the other stclc session:

```
stcl> defaults show ls
{ls {-recursive -report verbose}}
stcl>
```

defaults set**defaults set Command****NAME**

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defaults set - Defines the default values for a command

DESCRIPTION

Defines the default values for a command or sub-command. For a default value to apply to all commands that support the specified option, specify a <command> value of "*". For a default value to apply to a family of commands, specify the parent command as the <command> value. For example, a <command> value of "access" applies the specified default values to all "access" sub-commands that support the specified option.

Note: The values set as the new command default REPLACE the previously set command defaults. All previously set defaults specified for the same command level are removed. For example, if you have changed the report mode for the replicate command set, it will not remove the defaults set on the specific replicate commands. For more clarification, see the examples section.

"defaults set" saves defaults for the user. To set default values for a project team, or for all users at a site, use the "sregistry scope" command. See the "sregistry scope" command documentation for details.

To set a command line default value for the fetch state, specify the exact option name used by a command. To specify local copies as the default fetch state value, set the "--keep" option for the "cancel" and "ci" commands. And set the "--get" option for the "co" and "populate" commands.

To remove the saved default values for a command, specify empty double quotes ("") as the option value. See the Examples section for syntax.

SYNOPSIS

```
defaults set [-temporary | -nooverride] -- <command> <option>
             [<option> ...]
```

OPTIONS

- [-nooverride](#)
- [-temporary](#)
- [--](#)

-nooverride

-nooverride The saved default value cannot be overridden. This option is intended for project leaders or site administrators.

When using the "sregistry scope" command to set a default value for a project, specifying "-nooverrule" prevents a user's saved default value from overriding the project's default value.

Similarly, when using the "sregistry scope" command to set a site-wide default value, specifying "-nooverrule" prevents project and user saved default values from overriding the site's default value.

Command options specified by the user will be used, taking precedence over a "-nooverrule" setting.

-temporary

-temporary The saved default value applies only to the DesignSync client session from which the "defaults set" command was run.

--

-- Indicates that the command should stop looking for command options. Use this option when an argument to the command begins with a hyphen (-).

RETURN VALUE

Not defined.

SEE ALSO

defaults commands, defaults off, defaults on, defaults refresh, defaults show, defaults state, command defaults, sregistry scope

EXAMPLES

- [Example of Setting the Default Options for a Specific Command](#)
- [Example of Resolving Default Conflicts](#)
- [Example of Clearing the Defaults](#)
- [Example of Setting Defaults for All Commands](#)

Example of Setting the Default Options for a Specific Command

ENOVIA Synchronicity Command Reference - File

This example sets the following options for the `ls` command:

- * Sets the `-report` mode to "status"
- * Sets the `-[no]path` option to path

```
stcl> defaults set -- ls -report status -path
```

To see the saved defaults for the "ls" command

```
stcl> defaults show ls
{ls {-report status -path}}
```

Example of Resolving Default Conflicts

This example shows how DesignSync resolves set default conflicts. Locally, you have set the default defined in Example 1. Your project team leader uses the "sregistry scope" command to save "--fullpath" as a default option to "ls".

Adding the "--source" option to "defaults show" shows the two different (mutually exclusive) options that were saved at the user level ("-path") and at the project level ("-fullpath"):

```
stcl> defaults show -source ls
{ls temporary {} project -fullpath project_nooverrule {}
user {-report status -path} user_nooverrule {} site {}
site_nooverrule {} enterprise {} enterprise_nooverrule {}}
```

The default value saved by the user ("-path") takes precedence, because the project leader did not specify "--nooverrule". (The `project_nooverrule` value in the "defaults show" output above is empty.) That is why "defaults show" (without "--source") still shows the default "-path" value that you saved:

```
stcl> defaults show ls
{ls {-report status -path}}
```

Example of Clearing the Defaults

This example shows how to remove your saved default values for the "ls" command:

```
stcl> defaults set ls ""
```

Using the settings from example 2, the default "--fullpath" value is still valid because it was set at the project level:

```
stcl> defaults show ls
{ls -fullpath}
stcl> defaults show -source ls
{ls temporary {} project -fullpath project_nooverrule {} user {}
user_nooverrule {} site {} site_nooverrule {} enterprise {}
enterprise_nooverrule {}}
```

Example of Setting Defaults for All Commands

This example shows setting the "-recursive" option as the default behavior for all commands that support the command defaults system (and have a "-recursive" option):

Note: This does not remove any previously set defaults on specific commands or command sets. If you look at the ls command in the "defaults show" results displayed in this example, you will see that the command defaults set in the Example 1, for ls, are still set.

```
stcl> defaults set -- * -recursive
```

To see which commands now have "-recursive" saved as their default behavior:

```
stcl> defaults show
{vhistory -recursive} {rmlogin {}} {showmcache {}} {view {}} {{view
check} {}} {{view get} {}} {{view list} {}} {{view put} {}} {{view
remove} {}} {tag {-recursive -report normal}} {mkmod {}} {replicate
{}} {{replicate addroot} {}} {{replicate data} {}} {{replicate
showroots} {}} {{replicate showdata} {}} {{replicate rmroot} {}}
{{replicate rmdata} {}} {{replicate disable} {}} {{replicate reset}
{}} {{replicate enable} {}} {{replicate setoptions} {}} {{replicate
scrub} {}} {{replicate masrename} {}} {mvfile {}} {showstatus
-recursive} {contents -recursive} {mkbranch -recursive} {compare
-recursive} {hcm -recursive} {lock {}} {mcache {}} {{mcache scan} {}}
{{mcache touch} {}} {{mcache scrub} {}} {{mcache show} {}} {annotate
{}} {rmfolder -recursive} {remove -recursive} {addbackref -recursive}
{upgrade {}} {add {-recursive -report normal}} {switchlocker {}}
{showmods {}} {migratetag {}} {rmmod -recursive} {ci {-recursive
-report normal}} {showlogins {}} {addhref {}} {cancel -recursive}
{setview -recursive} {co -recursive} {populate {-recursive -report
normal}} {mvfolder {}} {rmfile {}} {showhrefs -recursive} {unremove
{}} {purge -recursive} {rmversion {}} {showlocks -recursive}
{addlogin {}} {sitr {}} {{sitr env} {}} {{sitr integrate} {}} {{sitr
lookup} {}} {{sitr mkbranch} {}} {{sitr mkmod} {}} {{sitr populate}
{}} {{sitr release} {}} {{sitr select} {}} {{sitr status} {}} {{sitr
submit} {}} {{sitr update} {}} {mvmember {}} {swap {}} {{swap
replace} {}} {{swap restore} {}} {{swap show} {}} {retire -recursive}
{rmvault {}} {unlock -recursive} {rmhref {}} {whereused -recursive}
{version {}} {ls {-recursive -report status -path}} {* -recursive}
```

If you want an option, as in this example, -recursive, to be the default for the majority of command that support it, but have specific commands for which you would prefer a different mode, you can set the different mode as a specific default on the command.

Note: The show output is truncated for clarify.

```
stcl> defaults set -- populate -norecursive
```

```
stcl> defaults show
```

```
{vhistory -recursive} {rmlogin {}} {showmcache {}} {view {}}
...
```


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```
{setview -recursive} {co -recursive} {populate -norecursive}  
...  
{ls {-recursive -report status -path}} {* -recursive}
```

defaults show

defaults show Command

NAME

defaults show - Shows the current default values for a command

DESCRIPTION

Shows the current default values for a command or sub-command. If no <command> is specified, then the current default values for all commands and sub-commands are reported.

A <command> value of "*" will show the current default values saved against "*". Those default values will be applied to all commands that take those options.

If a sub-command is specified as the <command> value, such as "replicate disable", default values for the specific sub-command ("replicate disable" in this case), its parent command ("replicate" in this example) and any global default values will be shown. Similarly, the results for a command combine the default values for the specific command, with any global default values.

If a sub-command is specified as the <command> value and the -source option is selected, the default command returns ONLY the default values for the specific command. The reply does not include any global defaults or any parent command defaults.

SYNOPSIS

```
defaults show [-source] [<command>]
```

OPTIONS

- [-source](#)

-source

-source When specified, the output indicates where the default

value is saved. By default, command default values are stored for the user who ran the "defaults set" command. Default values can also be stored for a project, or site-wide. See the "sregistry scope" command for details.

When you specify both a command and the `-source` option, the command output displays ONLY the command default values associated with that command. Any values set on a parent command or globally do not display.

RETURN VALUE

A list, where each entry in the list is the current setting of defaults for a command or subcommand. The order of the entries in the list is non-deterministic.

SEE ALSO

defaults commands, defaults off, defaults on, defaults refresh, defaults set, defaults state, command defaults, sregistry scope

EXAMPLES

An example in the "defaults set" command documentation sets `"-recursive"` as the default behavior, for every command that supports the command defaults system (and has a `"-recursive"` option).

After having saved the global `"-recursive"` default, "defaults show" shows the default `"-recursive"` value for the "tag" command:

```
stcl> defaults show tag
{tag -recursive}
```

Next, let's save `"-modified"` as default behavior for the "tag" command:

```
stcl> defaults set -- tag -modified
```

Now, "defaults show" shows both the global `"-recursive"` option, and the `"-modified"` default value that was explicitly saved for the "tag" command.

```
stcl> defaults show tag
{tag {-recursive -modified}}
```

The above output from "defaults show" shows the combined defaults for the "tag" command. This represents exactly what options will be applied when the "tag" command is run.

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Adding the "--source" option to the "defaults show" command shows where the default values for the "tag" command were saved.

```
stcl> defaults show -source tag
{tag temporary {} project {} project_nooverrule {} user -modified
user_nooverrule {} site {} site_nooverrule {} enterprise {}
enterprise_nooverrule {}}
```

The above output shows that the "--modified" option to "tag" was saved at the user level. The "--recursive" option is not shown, because that option was saved globally.

For global default values, specify "*" as the command:

```
stcl> defaults show -source *
{* temporary {} project {} project_nooverrule {} user -recursive
user_nooverrule {} site {} site_nooverrule {} enterprise {}
enterprise_nooverrule {}}
```

The above output shows that the "--recursive" option was set globally, at the user level.

defaults state

defaults state Command

NAME

defaults state - Returns the state of the command defaults system

DESCRIPTION

Returns whether the command defaults system is currently enabled ("on") or disabled ("off").

SYNOPSIS

```
defaults state
```

RETURN VALUE

The state value "on" or the state value "off".

SEE ALSO

defaults commands, defaults off, defaults on, defaults refresh,
defaults set, defaults show, command defaults

EXAMPLES

This example shows the default state with the command defaults system enabled and disabled.

```
stcl> defaults state
on
stcl> defaults off
off
stcl> defaults state
off
stcl>
```

Custom Type System

Custom Type Packages

ctp

ctp Commands

NAME

ctp - Commands to list and verify Custom Type Packages

DESCRIPTION

The 'ctp' commands help you to manage the installed Custom Type Packages (CTPs). You can list the CTPs using 'ctp list' and debug your CTPs using the 'ctp verify' command.

A CTP is a Tcl file containing procedures that recognize and traverse your custom data hierarchy, grouping the data into collections. You install the CTP in one of the following Synchronicity custom hierarchy directories:

- o Project-level CTP:
 <SYNC_PROJECT_CFGDIR>/ctp/<ctp_file>.ctp
- o Site-level CTP:
 <SYNC_SITE_CUSTOM>/share/client/ctp/<ctp_file>.ctp

When next you invoke a DesignSync client, the DesignSync Custom Type System registers the CTP so that each revision control operation can

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now recognize and manage the collection types defined in your CTP.

To develop a CTP for your custom data, see the DesignSync Custom Type System Programmer's Guide.

SYNOPSIS

```
ctp <ctp_command> [<ctp_command_options>]
```

```
Usage: ctp [list|verify]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

ctp list, ctp verify, localversion, localversion delete, localversion list, localversion restore, localversion save

EXAMPLES

See specific 'ctp' commands.

ctp list

ctp list Command

NAME

```
ctp list          - Lists installed Custom Type Packages
```

DESCRIPTION

This command lists the names of all currently installed Custom Type Packages (CTPs). You run the 'ctp list' command from any directory, with no arguments.

A CTP is a Tcl file containing procedures that recognize and traverse your custom data hierarchy, grouping the data into collections. You install the CTP in one of the following Synchronicity custom hierarchy directories:

- o Project-level CTP:
 <SYNC_PROJECT_CFGDIR>/ctp/<ctp_file>.ctp
- o Site-level CTP:
 <SYNC_SITE_CUSTOM>/share/client/ctp/<ctp_file>.ctp

When next you invoke a DesignSync client, the DesignSync Custom Type System registers the CTP so that each revision control operation can now recognize and manage the collection types defined in your CTP.

To develop a CTP for your custom data, see the DesignSync Custom Type System Programmer's Guide.

SYNOPSIS

```
ctp list
```

ARGUMENTS

None.

OPTIONS

None.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, the command returns a list of the installed CTPs and an empty list if there are no installed CTPs.

SEE ALSO

ctp, ctp verify, localversion, localversion delete, localversion list, localversion save, localversion restore

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EXAMPLES

The following example lists all of the Custom Type Packages (CTPs) currently installed.

```
stcl> ctp list
collectionCTP localCTP kmlocalCTP dsmwCTP
```

ctp verify

ctp verify Command

NAME

ctp verify - Validates installed Custom Type Package files

DESCRIPTION

This command verifies all installed Custom Type Packages (CTPs). A CTP is a Tcl file containing procedures that recognize and traverse your custom data hierarchy, grouping the data into collections. You install the CTP in one of the following Synchronicity custom hierarchy directories:

- o Project-level CTP:
 <SYNC_PROJECT_CFGDIR>/ctp/<ctp_file>.ctp
- o Site-level CTP:
 <SYNC_SITE_CUSTOM>/share/client/ctp/<ctp_file>.ctp

When next you invoke a DesignSync client, the DesignSync Custom Type System registers the CTP so that each revision control operation can now recognize and manage the collection types defined in your CTP.

To develop a CTP for your custom data, see the DesignSync Custom Type System Programmer's Guide.

The 'ctp verify' command tests for inconsistencies in the behavior of related procedures in the CTPs. There are several places where a CTP is required to return the same information in multiple places, and these must be consistent for the CTP to work correctly. For example, if mapViews assigns an objtype to a particular object, but updateObject does not, then the CTP will not behave correctly. 'ctp verify' flags this type of inconsistency. Among the ways a CTP can be internally inconsistent are:

- o The mapViews and determineFolderType procedures return different values for a given folder.
- o The mapViews procedure identifies an object as a member, but it is not returned by any collection's members procedure.

- o The mapViews procedure fails to identify an object as a member when it is returned by a collection's members procedure.
- o A collection member has an owner property identifying a collection, but that collection does not identify it as a member.
- o More than one collection identifies a file as a member.

The 'ctp verify' command validates all of the installed CTPs against the data in the specified path. The command lists:

- o The installed and active CTPs
- o The folder and subfolders being validated
- o A status of the collection members in the folder and its subfolder

The command lists the objects that are not members of any of the installed CTPs. It also lists the collections that have no members. These occurrences might flag an error in a CTP.

It is important that you use the 'ctp verify' command to validate your CTPs before making them available for use with production design data. The Custom Type System checks for exceptions thrown by particular CTP procedures, but it does not check for inconsistent CTPs during revision control operations. These checks would greatly diminish the efficiency of DesignSync's data traversal.

In order to fully validate your CTPs, it is important that you develop test data that exercises all aspects of the CTPs. See the DesignSync Custom Type System Programmer's Guide to help you design your test data to ensure that 'ctp verify' detects specific error conditions.

In addition to applying 'ctp verify' to your CTPs, use the 'ls -report OX' command to list objects and their collection owners. Use the 'url members' command to list a collection's members. These commands will help ensure that your CTP manages your data as intended.

SYNOPSIS

```
ctp verify [<path>]
```

ARGUMENT

- [path](#)

path

path The path to the directory/folder containing the

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data used to validate the installed CTPs. You can specify an absolute or relative path. If no path is specified, 'ctp verify' validates the installed CTPs against the current directory.

OPTIONS

None.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, the command returns the number of errors found.

SEE ALSO

ctp, ctp list, localversion, localversion delete, localversion list, localversion save, localversion restore

EXAMPLES

- [Example of a Clean ctp verify](#)
- [Example of a cpt verify Showing Errors](#)

Example of a Clean ctp verify

The following example shows verification of a clean CTP; the 'ctp verify' command returns an error count of 0.

```
stcl> ctp verify
===== Verifying CTPs =====
The following CTPs are installed: collectionCTP dsmwCTP
Verifying at root /home/karen/sf242data/jul16/coltest

---- Verifying /home/karen/sf242data/jul16/coltest

---- Verify collection member information
0
```

Example of a cpt verify Showing Errors

This next example verifies a single CTP, collection.ctp:

```
stcl> ctp list
collectionCTP
stcl> ctp verify
===== Verifying CTPs =====
The following CTP's are installed: collectionCTP
Verifying at root /home/karen/sf242data/sep2/ctp_tests/coltest

---- Verifying /home/karen/sf242data/sep2/ctp_tests/coltest
ctp collectionCTP: For object 'g.sgc.tst', the property 'objtype' is
not the same:
    'Test orange' is set in the updateObject proc and
    'Test collection' is set in the mapViews proc.
ctp collectionCTP: For object 'f.sgc.tst', the property 'objtype' is
not the same:
    'Test orange' is set in the updateObject proc and
    'Test collection' is set in the mapViews proc.
ctp collectionCTP: For object 'a.sgc.tst', the property 'objtype' is
not the same:
    'Test orange' is set in the updateObject proc and
    'Test collection' is set in the mapViews proc.
ctp collectionCTP: For object 'd.sgc.tst', the property 'objtype' is
not the same:
    'Test orange' is set in the updateObject proc and
    'Test collection' is set in the mapViews proc.

---- Verify collection member information
4
```

Managing Local Versions of Collections

localversion

localversion Commands

NAME

localversion - Commands to manage local versions of collections

DESCRIPTION

Some design tools implement their own basic version management by making local copies of design objects. A local copy of a design object is referred to as a 'local version', to distinguish it from the DesignSync version, which is created in the DesignSync vault upon checkin (a vault version).

Where DesignSync manages such data either through a predefined recognition package or through a developer's Custom Type Package (CTP), DesignSync incorporates the local version number into a tag name it applies upon checkin of the object.

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For example, if an object's local version is 6, DesignSync applies the tag <collection_type>_6 upon checkin.

Depending upon the options you choose, the DesignSync 'co' and 'populate' commands can remove local versions of an object, replacing them with the requested version from the DesignSync vault. You can save the local versions using the -savelocal option to the 'co' or 'populate' commands. You can also save the local versions using the 'localversion save' command and later retrieve them using the 'localversion restore' command. The 'localversion list' command lets you view the saved local versions.

You can change the local version default behavior so that DesignSync automatically saves all local versions before fetching. To change this setting, a Synchronicity administrator can use the Local Versions field on the Command Defaults pane of the SyncAdmin tool. For information, see SyncAdmin help.

SYNOPSIS

```
localversion <localversion_command> [<localversion_command_options>]
```

Usage: localversion [delete|list|restore|save]

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

localversion delete, localversion list, localversion restore, localversion save, ctp

EXAMPLES

See specific 'localversion' commands.

localversion delete

localversion delete Command

NAME

localversion delete - Deletes a saved version of the given collection

DESCRIPTION

Use the 'localversion delete' command to delete a local version that was previously saved for the specified collection. Use the 'localversion list' command to list the local versions to be deleted.

Some design tools implement their own basic version management by making local copies of design objects. A local copy of a design object is referred to as a 'local version', to distinguish it from the DesignSync version, which is created in the DesignSync vault upon checkin (a vault version).

Where DesignSync manages such data either through a predefined recognition package or through a developer's Custom Type Package (CTP), DesignSync incorporates the local version number into a tag name it applies upon checkin of the object. For example, if an object's local version is 6, DesignSync applies the tag <collection_type>_6 upon check-in.

Note: This command only affects objects of a collection defined by the Custom Type Package (CTP). This command does not affect objects that are not part of a collection or collections that do not have local versions.

SYNOPSIS

```
localversion delete <sync collection>|<sgc collection> <locint>
```

OPTIONS

- [Synchronicity Collection](#)
- [Custom Generic Collection](#)
- [Local Version Integer](#)

Synchronicity Collection

sync collection - Specify a Synchronicity predefined collection in the format <object>.sync.<collectiontype> where

<object> is the base name of the object, for example, a cell or view name.

sync indicates a Synchronicity predefined

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collection.

<collectiontype> is the collection name. Predefined collection names include cds and mw.

Examples of Synchronicity predefined collection objects include NAND.sync.mw and cell1.sync.mw.

You can specify the object as a local URL (starts with the file:/// protocol) or as an absolute or relative path.

Custom Generic Collection

`sgc collection` - Specify a custom generic collection (defined in a Custom Type Package) using the format <object>.sgc.<collectiontype> where

<object> is the base name of the object, for example, a cell or view name.

sgc indicates a custom collection defined in a Custom Type Package.

<collectiontype> is the collection name defined in a Custom Type Package (CTP). See the DesignSync Custom Type System Programmer's Guide for more information. An example of a custom generic collection object is symbol.sgc.mytool.

You can specify the object as a local URL (starts with the file:/// protocol) or as an absolute or relative path.

Local Version Integer

`locint` - Specify the integer assigned to the saved local version of the collection. If you do not know the integer, use the 'localversion list' command to view the saved local version numbers.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In `stcl/stclc` mode, the command returns the integer corresponding to the deleted local version. If a collection has no saved local versions or if the value specified for the saved local version number is not an integer, the command throws an error.

SEE ALSO

`localversion`, `localversion list`, `localversion save`,
`localversion restore`

EXAMPLES

The following example deletes the saved local version of the `local.sgc.loc` collection. The example first lists the saved local versions of the `local.sgc.loc` collection.

```
stcl> localversion list .
local.sgc.loc {1 2 3}
stcl> localversion delete local.sgc.loc 1
1
stcl> localversion list .
local.sgc.loc {2 3}
```

localversion list

localversion list Command

NAME

`localversion list` - Lists saved versions of collection objects

DESCRIPTION

Use the '`localversion list`' command to list the local versions that were previously saved for the specified collection. You can instead specify a directory name to list all of the collections with previously saved local versions in that directory. In this case, each collection is listed, followed by a list of its local version numbers. If a collection has no saved local versions or if a directory contains no collections with saved local versions, the '`localversion list`' command returns an empty list.

Some design tools implement their own basic version management by making local copies of design objects. A local copy of a design object is referred to as a 'local version', to distinguish it from the DesignSync version, which is created in the DesignSync vault upon checkin (a vault version).

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Where DesignSync manages such data either through a predefined recognition package or through a developer's Custom Type Package (CTP), DesignSync incorporates the local version number into a tag name it applies upon checkin of the object. For example, if an object's local version is 6, DesignSync applies the tag `<collection_type>_6` upon checkin.

Note:

This command only affects objects of a collection defined by the Custom Type Package (CTP). This command does not affect objects that are not part of a collection or collections that do not have local versions.

SYNOPSIS

```
localversion list <sync collection>|<sgc collection>|<directory>
```

OPTIONS

- [Synchronicity Predefined Collection](#)
- [Custom Generic Collection](#)
- [Collection Directory](#)

Synchronicity Predefined Collection

```
sync collection - Specify a Synchronicity predefined collection in the format <object>.sync.<collectiontype> where
```

<object> is the base name of the object, for example, a cell or view name.

sync indicates a Synchronicity predefined collection.

<collectiontype> is the collection name. Predefined collection names include cds and mw.

Examples of Synchronicity predefined collection objects include NAND.sync.mw and cell1.sync.mw.

You can specify the object as a local URL (starts with the file:/// protocol) or as an absolute or relative path.

Custom Generic Collection

`sgc collection` - Specify a custom generic collection (defined in a Custom Type Package) using the format `<object>.sgc.<collectiontype>` where

`<object>` is the base name of the object, for example, a cell or view name.

`sgc` indicates a custom collection defined in a Custom Type Package.

`<collectiontype>` is the collection name defined in a Custom Type Package (CTP). See the DesignSync Custom Type System Programmer's Guide for more information. An example of a custom generic collection object is `symbol.sgc.mytool`.

You can specify the object as a local URL (starts with the `file:///` protocol) or as an absolute or relative path.

Collection Directory

`directory` - Specify a directory containing a collection. You can specify the directory as a local URL (starts with the `file:///` protocol) or as an absolute or relative path.

RETURN VALUE

In `dss/dssc` mode, you cannot operate on return values, so the return value is irrelevant.

In `stcl/stclc` mode, the command returns a list of integers representing the saved local version numbers if you specify a collection. If you specify a directory, the command returns each collection in the directory with a corresponding list of saved local version numbers for the collection.

If a specified collection does not exist, the command throws an error.

SEE ALSO

`localversion delete`, `localversion restore`, `localversion save`

EXAMPLES

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The following example lists the saved local versions of the local.sgc.loc collection.

```
stcl> localversion list local.sgc.loc
1 2 3
```

You can list all of the collections containing local versions in a particular directory by specifying a directory instead of a collection.

```
stcl> localversion list .
local.sgc.loc {1 2 3} kmlocal.sgc.loc2 3
```

localversion restore

localversion restore Command

NAME

localversion restore- Restores a saved version of the given collection

DESCRIPTION

Use the 'localversion restore' command to retrieve a local version that was previously saved for the specified collection.

Some design tools implement their own basic version management by making local copies of design objects. A local copy of a design object is referred to as a 'local version', to distinguish it from the DesignSync version, which is created in the DesignSync vault upon checkin (a vault version).

Where DesignSync manages such data either through a predefined recognition package or through a developer's Custom Type Package (CTP), DesignSync incorporates the local version number into a tag name it applies upon checkin of the object. For example, if an object's local version is 6, DesignSync applies the tag <collection_type>_6 upon check-in.

You might want to save the local version using the 'localversion save' command before you check out or populate a collection. Then, you can use the 'localversion restore' command to retrieve your local version if you later decide to use it.

Notes:

- o This command only affects objects of a collection defined by the Custom Type Package (CTP). This command does not affect objects that are not part of a collection or collections that do not have local versions.
- o DesignSync stores the saved local versions within the workspace directory. If you delete the workspace directory, you cannot

recover the local versions.

- o If you apply 'localversion restore' to an unmanaged object, the command fails.

SYNOPSIS

```
localversion restore <sync collection>|<sgc collection> <locint>
```

OPTIONS

- [Synchronicity Predefined Collection](#)
- [Custom Generic Collection](#)
- [Local Version Integer](#)

Synchronicity Predefined Collection

`sync collection` - Specify a Synchronicity predefined collection in the format `<object>.sync.<collectiontype>` where

`<object>` is the base name of the object, for example, a cell or view name.

`sync` indicates a Synchronicity predefined collection.

`<collectiontype>` is the collection name. Predefined collection names include `cds` and `mw`.

Examples of Synchronicity predefined collection objects include `NAND.sync.mw` and `cell1.sync.mw`.

You can specify the object as a local URL (starts with the `file:///` protocol) or as an absolute or relative path.

Custom Generic Collection

`sgc collection` - Specify a custom generic collection (defined in a Custom Type Package) using the format `<object>.sgc.<collectiontype>` where

`<object>` is the base name of the object, for example, a cell or view name.

`sgc` indicates a custom collection defined

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in a Custom Type Package.

<collectiontype> is the collection name defined in a Custom Type Package (CTP). See the DesignSync Custom Type System Programmer's Guide for more information. An example of a custom generic collection object is symbol.sgc.mytool.

You can specify the object as a local URL (starts with the file:/// protocol) or as an absolute or relative path.

Local Version Integer

locint - Specify the integer assigned to the saved local version of the collection. If you do not know the integer, use the 'localversion list' command to view the saved local version numbers.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode, the command returns the integer corresponding to the restored local version. If a collection has no saved local versions or if the value specified for the saved local version number is not an integer, the command throws an error.

SEE ALSO

ctp, localversion, localversion delete, localversion list, localversion save

EXAMPLES

The following example restores the saved local version of the local.sgc.loc collection. The example first lists the saved local versions of the local.sgc.loc collection.

```
stcl> localversion list .
local.sgc.loc {1 2 3}
dss> localversion restore local.sgc.loc 3
3
```

localversion save

localversion save Command

NAME

localversion save - Saves local version of the given collection

DESCRIPTION

Use the 'localversion save' command to save the current local version of a collection in preparation for fetching an alternate local version from the vault. This command does not remove the local version from your workspace. If you need a saved local version in the future, you use the 'localversion restore' command to retrieve it.

Some design tools implement their own basic version management by making local copies of design objects. A local copy of a design object is referred to as a 'local version', to distinguish it from the DesignSync version, which is created in the DesignSync vault upon checkin (a vault version).

Where DesignSync manages such data either through a predefined recognition package or through a developer's Custom Type Package (CTP), DesignSync incorporates the local version number into a tag name it applies upon checkin of the object. For example, if an object's local version is 6, DesignSync applies the tag <CollectionType>_6 upon checkin.

Depending upon the options you choose, the DesignSync 'co' and 'populate' commands can remove local versions of an object, replacing them with the requested version from the DesignSync vault. You can save the local versions using the -savelocal option to the 'co' or 'populate' commands. You can also save the local versions using the 'localversion save' command and later retrieve them using the 'localversion restore' command. The 'localversion list' command lets you view the saved local versions.

By default, check-out and populate operations on collections fail if your workspace contains a local version with a higher number than the local version being fetched. You can change the local version default behavior so that DesignSync automatically saves or removes the local versions before fetching. To change this setting, a Synchronicity administrator can use the Local Versions field on the Command Defaults pane of the SyncAdmin tool. For information, see SyncAdmin help.

Notes:

- o This command only affects objects of a collection defined by the Custom Type Package (CTP). This command does not affect objects that are not part of a collection or collections that do not have

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local versions.

- o DesignSync stores the saved local versions within the workspace directory. If you delete the workspace directory, you cannot recover the local versions.

SYNOPSIS

```
localversion save <sync collection>|<sgc collection>
```

OPTIONS

- [Synchronicity Predefined Collection](#)
- [Custom Generic Collection](#)

Synchronicity Predefined Collection

`sync collection` - Specify a Synchronicity predefined collection in the format `<object>.sync.<collectiontype>` where

`<object>` is the base name of the object, for example, a cell or view name.

`sync` indicates a Synchronicity predefined collection.

`<collectiontype>` is the collection name. Predefined collection names include `cds` and `mw`.

Examples of Synchronicity predefined collection objects include `NAND.sync.mw` and `cell1.sync.mw`.

You can specify the object as a local URL (starts with the `file:///` protocol) or as an absolute or relative path.

Custom Generic Collection

`sgc collection` - Specify a custom generic collection (defined in a Custom Type Package) using the format `<object>.sgc.<collectiontype>` where

`<object>` is the base name of the object, for example, a cell or view name.

`sgc` indicates a custom collection defined

in a Custom Type Package.

<collectiontype> is the collection name defined in a Custom Type Package (CTP). See the DesignSync Custom Type System Programmer's Guide for more information. An example of a custom generic collection object is `symbol.sgc.mytool`.

You can specify the object as a local URL (starts with the `file:///` protocol) or as an absolute or relative path.

RETURN VALUE

In `dss/dssc` mode, you cannot operate on return values, so the return value is irrelevant.

In `stcl/stclc` mode, the command returns an integer representing the saved local version.

If a specified collection does not exist, the command throws an error.

SEE ALSO

`ctp`, `localversion`, `localversion delete`, `localversion list`, `localversion restore`

EXAMPLES

- [Example of Saving the Current Local Version](#)
- [Example of Saving Local Version of Milkyway Data](#)

Example of Saving the Current Local Version

The following example saves the current local version of the `local.sgc.loc` collection. The example lists the saved local versions of the `local.sgc.loc` collection.

```
stcl> localversion save local.sgc.loc
3
stcl> localversion list local.sgc.loc
1 2 3
```

Example of Saving Local Version of Milkyway Data

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This example shows how localversion commands might be used for Milkyway data.

Note: The DesignSync Milkway integration has been deprecated. This example is meant to be used only as a reference.

In this scenario, Fadi checks out the Milkyway collection object top_design.sync.mw to fix a defect assigned against the object, thus fetching local version number 2 to his workspace. He edits the object, creating local version 3. However, he finds out Jocelyn has already made a fix for the defect when she checked in her local version 3. Before he checks out her local version, he saves his local versions:

```
stcl> cd /home/tfadi/top_design_library
stcl> localversion save top_design.sync.mw
3
```

Later the team decides that Jocelyn's fix was not efficient, so Fadi decides to retrieve his local version.

```
stcl> localversion list top_design.sync.mw
3
stcl> localversion restore top_design.sync.mw 3
3
```

Data Replication

Data Replication System

replicate Command

NAME

replicate - Data replication commands

DESCRIPTION

These commands control the data replication system. The data replication system provides a configurable environment to automatically setup and manage mirrors, caches, and module caches associated with a server URL.

The replicate command and sub-commands support the command default system.

SYNOPSIS

```
replicate <replicate_command> [<replicate_command_options>]
```

Usage: replicate [addroot, data, disable, enable, reset, rmdata, rmroot, showdata, showroots, setoptions]

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

mirror

EXAMPLES

See specific "replicate" commands.

replicate addroot

replicate addroot Command

NAME

replicate addroot - Associates a Data Replication Root with a MAS

DESCRIPTION

This command associates a Data Replication Root (DRR) with a particular Mirror Administration Server (MAS). There are no limits to the number of DRRs that can be associated with a MAS.

The DRR is associated with the MAS using a name that must be unique across the MAS. This name is a shortcut to identify the DRR when enabling, disabling, or checking the status of the DRR. The name is also used for any auto-generated mirrors that registered to handle updates to the data replicated within the DRR.

In addition to registering the name with the MAS, the addroot

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command:

- o creates the DRR path (specified by the `-path` option), if it does not already exist. If the path given to the command isn't an absolute path, DesignSync uses the current working directory with the path value appended.
- o verifies that the path is suitable for storing a replication root. In order to store a replication root, the specified directory cannot contain a module cache or dynamic folder. It can contain an existing file cache.
- o sets the appropriate permissions on the folder.
- o creates the sub-folders needed to support data replication. The data replication system uses three folders: `dynamic`, for dynamic content; `module_cache`, for static module content; and `file_cache`, for static file and module member versions.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate addroot -name <name> -path <rootpath> [-readmode {all|group}]  
                <serverURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<serverURL> Specifies the URL of the MAS on which to store the data replication root. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
For example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)
- [-path](#)
- [-readmode](#)

-name

`-name <name>` Logical name of the DRR. This name must be unique with respect to all other DRRs defined on the MAS. This name is also used as the name of the mirror that handles updates to the replications registered in the DRR.

-path

`-path <rootpath>` Specifies the path to the DRR being added. If the path does not exist, and is creatable, the command creates it.

Note: The path cannot contain a module cache or dynamic folder. It can contain an existing file cache.

-readmode

`-readmode`
[all|group] The read permissions set on the DRR directory. This option is valid only when SUID mode is enabled.

`-readmode all` sets the read permission be readable by all users, the primary group of the MAS owner, and the MAS owner.

`-readmode group` sets the read permission to be readable by the primary group of the MAS owner, and the MAS owner.

Note: If SUID is not enabled for the MAS installation, and the "enforce SUID" option is not enabled on the mirror, the system will enable read and write modes for all. If the "enforce SUID" option is enabled, the command will fail. The "enforce SUID" option is set on the Mirrors| General Settings page of the DesignSync Web Interface. For information on setting the "enforce SUID" option for the MAS, see the ENOVIA Synchronicity DesignSync Administrator's Guide.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

ENOVIA Synchronicity Command Reference - File

mirror setoptions, replicate data, replicate rmroot

EXAMPLES

This example shows the replicate addroot command and then the replicate showroots command showing that the DRR has been created.

```
dss> replicate addroot -path /RepHome/repdata -name MainDRR -readmode
all sync://data.ABCo.com
dss> replicate showroots sync://data.ABCo.com
```

Name	Read Mode	Path
-----	-----	-----
MainDRR	all	/RepHome/repdata

replicate data

replicate data Command

NAME

replicate data - Replicates data on the replication root

DESCRIPTION

- [Working with File-Based Vaults](#)

This command adds the desired data to the specified data replication root (DRR).

This command is subject to access controls on the server.

This command supports the command defaults system.

Working with File-Based Vaults

For files-based vault data, the replicate data command calls the mirror create command in order to create the data replication mirror.

The base directory of the replicated data is computed from the file path and selector information of the data, like this:

```
<DRR/dynamic/<ServerHost>/<port>/<leafname>/<selector>/<basedir>
```

SYNOPSIS

```

replicate data [-name <name>] -root <drd>
               [-selector <selector>[,<selector>...]] -vaulturl <URL>
               <ServerURL>

```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS on hosting the data replication root. Specify the URL as follows: sync://<host>[:<port>] or syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). For example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)
- [-root](#)
- [-selector](#)
- [-vaulturl](#)

-name

-name <name> A user friendly name for a file-based project. The name is used by the mirror create command,

-root

-root <drd> Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the replicate showroots command to see a list of defined DRRs on a MAS.

Note: The DRR must exist on the MAS specified by the ServerURL argument.

-selector

-selector <list> Specifies the selector, or selector list. If no

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selector is specified, the command will use the default selector, 'Trunk'.

-vaulturl

`-vaulturl <URL>` Specifies the URL of the data location on the server. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
For example: sync://serv1.abco.com:1024

RETURN VALUE

Returns an empty string on success.

SEE ALSO

mirror create, replicate enable, replicate disable, replicate rmdata

EXAMPLES

- [Example of Adding File-Based Data to the DRR](#)

Example of Adding File-Based Data to the DRR

This example shows adding a file-based vault URL to the DRR and the subsequent replicate showdata command showing the file-based vault URL in the DRR. .

```
dss> replicate data -vaulturl sync://data.ABCo.com:2647/Projects/CPU  
-root MainDRR -name CPU sync://mirror.ABCo.com:2647
```

```
dss> replicate showdata -root MainDRR sync://mirror.ABCo.com:2647
```

Name	Enabled	Status	Vault URL
Selector	Base Dir		
----	-----	-----	-----
EclipseProj	yes	1	sync://data.ABCo.com:2647/Projects/EclipseProj
Trunk:Latest	9d/71/9d711cc172956426eb333ae18fb131ba/	Test1/Trunk/	basedir

replicate disable

replicate disable Command**NAME**

replicate disable - Disables a replicated data instance

DESCRIPTION

This command turns off updates for the specified data instance or all replicated instances on the MAS.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate disable -all | -name <name> -root <dr> <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the data replication root. Specify the URL as follows: sync://<host>[:<port>] or syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647). For example: sync://serv1.abco.com:1024

OPTIONS

- [-all](#)
- [-name](#)
- [-root](#)

-all

-all Disables all active replication instances on the DRR. This option is mutually exclusive with the

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-name option.

-name

-name <name> The name of the data replication to disable. When the -name option is specified, only the named data replication is disabled. Any referenced sub-modules continue to be updated. This option is mutually exclusive with the -all option.

-root

-root <dr> Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the replicate showroots command to see a list of defined DRRs on a MAS.

RETURN VALUE

If the command succeeds, it returns an empty string (""). If the command fails, it returns an appropriate error to explain the cause of failure.

SEE ALSO

replicate enable, mirror disable

EXAMPLES

This example shows disabling all data replications on a DRR. This DRR consists of one file-based project, and one module hierarchy.

Note: The reply from the server shows all the stopped data replications. In the example below, the CPU%0 and ROM%0 module instances are referenced submodules of Chip%0.

```
dss> replicate disable -root MainDRR -all sync://mirror.ABCo.com
disabling mirror 'CPU%0'
disabling mirror 'Chip%0'
disabling mirror 'ROM%0'
Disabling files based mirror 'EclipseProj'
```

replicate enable

replicate enable Command**NAME**

replicate enable - Enables replication for a data replication

DESCRIPTION

This command turns on updates for the specified data replication. If the data instance has file-based references, those are enabled by the replicate enable command running the mirror enable command on the mirror that controls the file-based updates.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate enable -all | -name <name> -root <drr> <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the data replication root. Specify the URL as follows: sync://<host>[:<port>] or syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647). For example: sync://serv1.abco.com:1024

OPTIONS

- [-all](#)
- [-name](#)
- [-root](#)

-all

-all Enables all inactive data replications on the

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DRR. This option is mutually exclusive with the `-name` option.

-name

`-name <name>` The name of the data replication to enable. This option is mutually exclusive with the `-all` option.

-root

`-root <drd>` Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the `replicate showroots` command to see a list of defined DRRs on a MAS.

RETURN VALUE

If the command succeeds, it returns an empty string (`""`). If the command fails, it returns an appropriate error to explain the cause of failure.

SEE ALSO

`replicate disable`, `mirror enable`

EXAMPLES

This example shows enabling all data replications on the DRR. This example includes a modules-based and a files based DRR.

Note: The response from the server does not display hierarchically referenced submodules. In the example below, the `Chip%0` module has submodules `CPU%0` and `ROM%0` module which are enabled along with their parent module, `Chip%0`, but not listed separately.

```
dss> replicate enable -root MainDRR -all sync://mirror.ABCo.com
enabling mirror 'Chip%0'
Enabling files based mirror 'EclipseProj'
```

replicate reset

replicate reset Command

NAME

replicate reset - Manually updates a data replication

DESCRIPTION

This command performs a manual update on a data replication.

If the specified data replication is file-based or contains references to a file-based sub-instance, the replicate reset command calls the mirror reset command to update the files on the DRR.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate reset -name <name> -root <dr> <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the data replication root. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647).
 For example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)
- [-root](#)

-name

-name <name> The name of the data replication to reset. The reset operates recursively on the named data replication.

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-root

`-root <dr>` Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the `replicate showroots` command to see a list of defined DRRs on a MAS.

RETURN VALUE

If the command succeeds, it returns an empty string (`""`). If the command fails, it returns an appropriate error to explain the cause of failure.

SEE ALSO

`mirror reset`, `replicate data`, `replicate showdata`

EXAMPLES

This example shows the `reset` command.
`dss> replicate reset -root MainDRR -name Chip%0 sync://qelwsun14:30125`
`dss>`

replicate rmdata

replicate rmdata Command

NAME

`replicate rmdata` - Removes the data replication from the dynamic folder.

DESCRIPTION

- [Notes for Files-Based Objects](#)

This command removes the data replication from the 'dynamic' folder within the DRR. The deletion cannot be undone.

Note: Although the deletion is permanent, you can recreate the data replication using the same name using the `replicate data` command.

This command is subject to access controls on the server.

This command supports the command defaults system.

Notes for Files-Based Objects

When replicate rmdata is run on a file-based replication or if a sub-module contains links to file-based data, the replicate rmdata command runs the mirror delete command to remove the data.

SYNOPSIS

```
replicate rmdata -name <name> -root <dr>> <Server-URL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the DRR. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647).
 For example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)
- [-root](#)

-name

-name <name> The name of the data replication to remove.

-root

-root <dr>> Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the replicate showroots command to see a list of defined DRRs on a MAS.

ENOVIA Synchronicity Command Reference - File

RETURN VALUE

If the command succeeds, it returns an empty string (""). If the command fails, it returns an appropriate error to explain the cause of failure.

SEE ALSO

replicate data, replicate showdata, replicate rmroot, mirror delete,

EXAMPLES

- [Example Showing Removing a File-Based Data Replication](#)

Example Showing Removing a File-Based Data Replication

This example shows removing a file-based vault data replication. This shows the passed through output of the underlying mirror delete command.

```
dss> replicate rmdata -root MainDRR -name EclipseProj
sync://mirror.ABCo.com:2147
Deleted empty directory '/RepHome/repdata/dynamic/9d/71/
9d711cc172956426eb333ae18fb131ba/EclipseProj/Trunk'
Deleted empty directory '/RepHome/repdata/dynamic/9d/71/
9d711cc172956426eb333ae18fb131ba/EclipseProj'
Deleted empty directory '/RepHome/repdata/dynamic/9d/71/
9d711cc172956426eb333ae18fb131ba'
Deleted empty directory '/RepHome/repdata/dynamic/9d/71'
Deleted empty directory '/RepHome/repdata/dynamic/9d'
```

replicate rmroot

replicate rmroot Command

NAME

replicate rmroot - removes the specified data replication root

DESCRIPTION

This command removes the specified data replication root (DRR) from the list of registered replication roots. All the data and metadata within the DRR are deleted along with the DRR. The deletion cannot be undone.

Note: Although the deletion is permanent, you can recreate the DRR using the same name.

The command does not remove any symbolic links to items in the DRR. If users have created symbolic links, for example, workspaces still pointing to the file cache contained within a data replication, these need to be manually removed.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate rmroot -root <dr> <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the DRR. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647).
 For example: sync://serv1.abco.com:1024

OPTIONS

- [-root](#)

-root

-root <dr> Logical name of the DRR. This name is case sensitive. If you cannot remember the name of the DRR, you can use the replicate showroots command to see a list of defined DRRs on a MAS.

RETURN VALUE

If the command succeeds, it returns an empty string (""). If the command fails, it returns an appropriate error to explain the cause of failure.

ENOVIA Synchronicity Command Reference - File

SEE ALSO

replicate rmdata, replicate addroot, replicate data

EXAMPLES

This example shows removing the DRR on a MAS that has both replicated modules and files-based data.

```
dss> replicate rmroot -root MainDRR sync://mirror.ABCo.com:2647
  Removing files based mirror 'EclipseProj'
  Removing the data from '/RepHome/repdata'
  Removing the dynamic scripted (autogen) mirror
  Removing the static scripted (autogen) mirror
  Removing the metadata entry for replication root 'MainDRR'
```

replicate setoptions

replicate setoptions Command

NAME

replicate setoptions - Sets replicate options

DESCRIPTION

This command sets the options for data replication. The available options are described in the Options section.

This command is subject to access controls on the server.

This command supports the command defaults system.

SYNOPSIS

```
replicate setoptions [-defaultuser <user>] [-[no]refcount]
                    <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the data replication root. Specify the URL as follows:

sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://'
 are required, <host> is the machine on which the
 SyncServer is installed, and <port> is the SyncServer
 port number (defaults to 2647).
 For example: sync://serv1.abco.com:1024

OPTIONS

- [-defaultuser](#)
- [-refcount](#)

-defaultuser

-defaultuser
 <user>

Specifies the default user for the data replication system. You must specify the user name with the -defaultuser option. If this parameter is specified, you are prompted for the default user's password. Specifying this parameter makes 'replicate setoptions' an interactive command.

Note: You may also use the mirror setoptions command to set the defaultuser. There is only one default user stored for each MAS, regardless of whether you store the username/password with the mirror or replicate setoptions command.

-refcount

-[no]refcount

Specifies whether reference counting in the file cache is enabled or disabled for the system.

-[no]refcount specifies that references should not be counted. It is used if the site policy is not to use reference counting and the corresponding site-wide setting, set in SyncAdmin as "Enable Cache optimizations" is also disabled.

-refcount specifies that reference should be counted (Default). This allows DesignSync to maintain optimal performance by automatically removing files versions that are no longer linked to.

Note: This option is not retroactive. Any existing data continues to have the refcount setting that was in use when the data was fetched. Any subsequently fetched data uses the newly set mode.

For more information on enabling or disabling reference counting, see the ENOVIA Synchronicity

ENOVIA Synchronicity Command Reference - File

DesignSync Data Manager Administrator's Guide.

RETURN VALUE

If the command succeeds, it returns an empty string (""). If the command fail, it returns an appropriate error to explain the cause of failure.

SEE ALSO

mirror setoptions, replicate addroot

EXAMPLES

This example shows a single replicate setoptions command that sets the default user and disables reference counting.

```
dss> replicate setoptions -defaultuser admin -norefcnt
sync://mirror.ABCo.com:2647
Enter the password for the default user (admin): *****
Processing BackupDRR
Processing MainDRR
  Registering mirror for 'sync://mirror.ABCo.com:2647'
  Done registering mirror for 'sync://mirror.ABCo.com:2647'
```

replicate showdata

replicate showdata Command

NAME

replicate showdata - Lists the data replications in the DRR

DESCRIPTION

- [Notes for File-Based Objects](#)
- [Understanding the Output](#)

This command lists all the replication instances in the 'dynamic' folder along with the important properties for the instance.

This command is subject to access controls on the server.

This command supports the command defaults system.

Notes for File-Based Objects

For files-based vaults, the `replicate showdata` command calls the `mirror status` command.

Understanding the Output

The output of the `replicate showdata` command can be formatted for easy viewing (`-format text`) or optimized for TCL processing (`-format list`). Both viewing formats show the same information, but may have different names. In the table below, the Column Titles column shows the text output column header and the Property Names column shows list output key value.

The `replicate showdata` command, by default, displays the following information:

Column Titles	Property Names	Description
-----	-----	-----
Name	name	The name of the data replication.
Base Dir	basedir	Base directory of the data replication.
Status	status	Status of the DRR indicating whether the replication is functioning normally, or there are errors. <ul style="list-style-type: none"> o 1 (one) indicates that there are no failures in applying any updates. o 0 (zero) indicates there were failures in applying updates and the replication administrator should examine the replication log available from the DesignSync web interface.
Vault URL	vaulturl	URL of the source vault for the data replication.
Selector	selector	The selector for the data replication as supplied to the <code>replicate data</code> command. This varies depending on the type of href.
Enabled	enabled	Activity status of the data replication. <ul style="list-style-type: none"> o Yes or 1 (one) indicates the data replication is active. o No or 0 (zero) indicates the data replication is inactive.

SYNOPSIS

ENOVIA Synchronicity Command Reference - File

```
replicate showdata [-format {text|list}] [-name dataname]
                  [-report {brief|normal|verbose}] -root <ddr>
```

ARGUMENTS

- [-root](#)

-root

-root <ddr> The name of the registered DRR to examine. You can use the replicate showroots command to view the list of the DRRs.

OPTIONS

- [-format](#)
- [-name](#)
- [-report](#)

-format

-format text|list Determines the format of the output.

-format text displays a text table with headers and columns. (Default) Objects are shown in alphabetical order

-format list displays a TCL list containing name/value pairs.

For a list of properties displayed, see the "Understanding the Output" section above.

-name

-name <dataname> The name of a data replication. If you specify a name, the command returns only the results for that data replication. If no name is specified, the command returns information for all the data replications on the DRR.

-report

-report brief| Determines what information is returned in the

normal |verbose output of the command.

Valid values are:

- o brief - outputs the name of the data replication and any failures. The -format option is ignored for this report mode.
- o normal - the properties list in the format specified with the -format option. (Default),
- o verbose - the properties list in the format specified with the -format option. There is no difference between the verbose and normal reports.

RETURN VALUE

If you run the command with the '-format list' option, it returns a TCL list. If the command fails, it returns a TCL error. For all other options, it returns an empty string ("").

SEE ALSO

replicate showroots, replicate data, replicate rmdata

EXAMPLES

- [Example of Replicate Showdata in Text Format in Report Normal Mode](#)
- [Example of Replicate Showdata in Text Format in Report Brief Mode](#)
- [Example of Replicate Showdata in List Format in Report Normal Mode](#)
- [Example of Replicate Showdata in List Format in Report Brief Mode](#)

Example of Replicate Showdata in Text Format in Report Normal Mode

This example shows running replicate showdata in normal, text mode on a DRR containing both modules and file-based vaults. The module is a module hierarchy consisting of top-level module Chip and dynamically referenced submodules CPU and ROM.

```
dss> replicate showdata -root MainDRR sync://mirror.ABCo.com:2647
```

Name	Enabled	Status	Selector
Vault URL			
Base Dir			
-----	-----	-----	-----

CPU%0	yes	1	

ENOVIA Synchronicity Command Reference - File

```
sync://data.ABCo.com:2647/Modules/Components/CPU Trunk:
9b/1e/9b1e794175a7c24bd5a329b3a5bd8d7a/CPU/Trunk/basedir
Chip%0          yes          1
sync://data.ABCo.com:2647/Modules/ChipDesign/Chip Trunk:
ef/ea/efea1173a39a7df9e42e3e8d821fd580/Chip/Trunk/basedir
ROM%0           yes          1
sync://data.ABCo.com:2647/Modules/Components/ROM Trunk:
ee/f5/ee5d1b4b3eab3c9ec3f95b82b1b90dc/ROM/Trunk/basedir
EclipseProj     yes          1
sync://data.ABCo.com:2647/Projects/Test1
Trunk:Latest    9d/71/9d711cc172956426eb333ae18fb131ba/Test1/Trunk/basedir
```

Example of Replicate Showdata in Text Format in Report Brief Mode

This example shows running replicate showdata in text mode with report -brief selected using the same data set as Example 1.

```
dss> replicate showdata -report brief -root MainDRR
sync://mirror.ABCo.com:30125
```

```
CPU%0
Chip%0
ROM%0
EclipseProj
```

Example of Replicate Showdata in List Format in Report Normal Mode

This example shows running replicate showdata in -format list TCL and -report normal mode using the same data set as Example 1.

Note: Because some of these strings exceed the line length for this documentation, the \ character is used to show that the string does not contain spaces.

```
dss> replicate showdata -format list -root MainDRR
sync://mirror.ABCo.com:2647
```

```
{name CPU%0 target sync://data.ABCo.com:2647/Modules/Components/CPU
basedir /home/RepHome/repdata/dynamic/9b/1e/\
9b1e794175a7c24bd5a329b3a5bd8d7a/CPU/Trunk/basedir selector Trunk:
version 1.3 enabled 1 reset 0 top 0 itags {} error {} seenlist \
{{sync://data.ABCo.com:2647/Modules/Components/ROM;Trunk:}} touchtime
1344447297 efile {} status 1 dynamic 1 ismodule 1} {name Chip%0 target
sync://data.ABCo.com:2647/Modules/ChipDesign/Chip basedir
/home/RepHome/repdata/dynamic/ef/ea/efea1173a39a7df9e42e3e8d821fd580/Chip/\
Trunk/basedir selector Trunk: version 1.14 enabled 1 reset 0 top 1
itags {} error {} seenlist
{{sync://data.ABCo.com:2647/Modules/Components/CPU;Trunk:}} touchtime
1344447292 efile {} status 1 dynamic 1 ismodule 1} {name ROM%0 target
sync://data.ABCo.com:2647/Modules/Components/ROM basedir
/home/RepHome/repdata/dynamic/ee/f5/ee5d1b4b3eab3c9ec3f95b82b1b90dc/\
ROM/Trunk/basedir selector Trunk: version 1.2 enabled 1 reset 0 top 0
```

```

itags {} error {} seenlist {} touchtime 1344447301 efile {} status 1
dynamic 1 ismodule 1} {name EclipseProj target
sync://data.ABCo.com:2647/Projects/Test1 basedir
/home/RepHome/repdata/dynamic/9d/71/9d711cc172956426eb333ae18fb131ba/\
Test1/Trunk/basedir selector Trunk:Latest enabled 1 reset 0 top 0
itags {} error {} seenlist {} touchtime 0 dynamic 1 efile {} status 1
ismodule 0}

```

Example of Replicate Showdata in List Format in Report Brief Mode

This example shows running replicate showdata in with report -brief selected using the same data set as Example 1.

```

dss> replicate showdata -report brief -root MainDRR
sync://mirror.ABCo.com:2647

```

```

CPU%0 Chip%0 ROM%0 EclipseProj

```

replicate showroots

replicate showroots Command

NAME

replicate showroots - Lists the registered data replication roots

DESCRIPTION

- [Understanding the Output](#)

This command lists the data replication roots (DRRs) and their properties registered on the MAS.

This command is subject to access controls on the server.

This command supports the command defaults system.

Understanding the Output

The output of the replicate showroots command can be formatted for easy viewing (-format text) or optimized for TCL processing (-format list). Both viewing formats show the same information, but may have different names. In the table below, the Column Titles column shows the text output column header and the Property Names column shows list output key value.

ENOVIA Synchronicity Command Reference - File

The replicate showroots command, by default, displays the following information:

Column	Property	
Titles	Names	Description
-----	-----	-----
Name	name	The name of the DRR.
Path	path	The root path to the DRR.
File cache	file_cache	The name of the file cache subdirectory.
Module cache	module_cache	The name of the module cache subdirectory.
Read Mode	readmode	The readmode specified when the DRR was created. The possible values are 'all' and 'group.'
Dynamic	dynamic	The name of the subdirectory where the dynamic data is mirrored.

SYNOPSIS

```
replicate showroots [-format {text|list}] [-name <rootname>]
                    [-report {brief|normal|verbose}] <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

<ServerURL> Specifies the URL of the MAS hosting the data replication root. Specify the URL as follows: sync://<host>[:<port>] or syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647). For example: sync://serv1.abco.com:1024

OPTIONS

- [-format](#)
- [-name](#)
- [-report](#)

-format

`-format text|list` Determines the format of the output.

`-format text` displays a text table with headers and columns. (Default) Objects are shown in alphabetical order

`-format list` displays a TCL list containing name/value pairs.

For a list of properties displayed, see the "Understanding the Output" section above.

-name

`-name <rootname>` Logical name of the DRR. This name must be unique with respect to all other DRRs defined on the MAS.

-report

`-report brief|normal|verbose` Determines what information is returned in the output of the command.

Valid values are:

- o `brief` - outputs the name of the DRRs. The `-format` option is ignored for this report mode.
- o `normal` - the properties list, in the format specified with the `-format` option. (Default)
- o `verbose` - the properties list, in the format specified with the `-format` option. This is identical to `-report normal`.

RETURN VALUE

If you run the command with the `'-format list'` option, it returns a TCL list. If the command fails, it returns a TCL error. For all other options, it returns an empty string (`""`).

SEE ALSO

`replicate addroot`, `replicate enable`, `replicate disable`, `replicate rmroot`

ENOVIA Synchronicity Command Reference - File

EXAMPLES

- [Example of Replicate Showroots in Text Format in Report Normal Mode](#)
- [Example of Replicate Showroots in Text Format in Report Brief Mode](#)
- [Example of Replicate Showroots in List Format in Report Normal Mode](#)

Example of Replicate Showroots in Text Format in Report Normal Mode

This example shows running replicate showroots in normal, text mode.

```
dss> replicate showroots -root MainDRR sync://mirror.ABCo.com:2647
```

Name	Read Mode	Path
----	-----	----
BackupDRR	all	/home/RepBk/repdata
MainDRR	all	/home/RepHome/repdata

Example of Replicate Showroots in Text Format in Report Brief Mode

This example shows running replicate showroots in text mode with report -brief specified using the same data set as Example 1.

```
dss> replicate showroots -report brief sync://mirror.ABCo.com:30125
```

```
BackupDRR  
MainDRR
```

Example of Replicate Showroots in List Format in Report Normal Mode

This example shows running replicate showroots in -format list and -report normal (default) mode using the same data set as Example 1. Note: Because some of these strings exceed the line length for this documentation, the \ character is used to show that the string does not contain spaces.

```
dss> replicate showroots -format list sync://mirror.ABCo.com:2647
```

```
{name BackupDRR path /home/RepBk/repdata readmode all dynamic dynamic  
module_cache module_cache file_cache file_cache} {name MainDRR path  
/home/RepHome/repdata readmode all dynamic dynamic module_cache  
module_cache file_cache file_cache}
```

File Cache Maintenance

Caching Objects

caching

675

caching Command**NAME**

caching - Caching behavior commands

DESCRIPTION

These commands provide a way to view and control the caching behavior of DesignSync objects; excepting or including intellectual property from the default caching.

SYNOPSIS

caching <caching_command>

Usage: caching disable|caching enable|caching list|caching status

ARGUMENTS

Server URL

RETURN VALUE

Various by command.

SEE ALSO

caching disable, caching enable, caching list, caching status ,

EXAMPLES

See specific command.

 caching disable **caching disable Command**

ENOVIA Synchronicity Command Reference - File

NAME

 caching disable - Disables object caching for server URLs

DESCRIPTION

This command disables caching for specific objects specified by server URLs.

When object caching is disabled, the caching property of the object URL is set to zero (0). The value of this property may be viewed with the caching status command.

Note: Clients with this feature can disable the local caching functionality for objects on an older (pre-3DEXPERIENCE 2016x) server version, but older clients cannot use this feature on newer clients. Servers accepting commands from older clients can be set up to refuse enable/disable caching requests from older clients. For more information, see the DesignSync Data Manager Administrator's Guide.

If the object for which caching is being disabled were already loaded into a cache, those caches are not automatically removed, however attempts to update the cache, for example with cancel, ci, populate, or co, will fail.

This command is subject to access controls on the server.

SYNOPSIS

```
caching disable <SyncURL>[ <SyncURL>...]
```

ARGUMENTS

- [URL](#)

URL

<syncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>]/[<path>] or
syncs://<host>[:<port>]/[<path>]
where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). And the path is the server path to the desired object. For example, all of these are valid syncURLs:

```

sync://apollo.spaceco.com:2647
sync://apollo.spaceco.com:2647/Modules
sync://apollo.spaceco.com:2647/Modules/Blueprints/FuelCell2
sync://apollo.spaceco.com:2647/Projects/SpaceShuttle

```

RETURN VALUE

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed. If the command failed to run, DesignSync returns an appropriate error explaining the failure.

SEE ALSO

caching enable, caching list, caching status, url getprop, url setprop

EXAMPLES

- [Example Showing Disabling cachability for an object](#)

Example Showing Disabling cachability for an object

This example shows disabling the caching for a specific object and verifying that the cachability was disabled using the status command, which returns a status of zero (0).

```
dss> caching disable sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip
{Objects succeeded (1)} {}
```

```
dss> caching status sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip
0
```

caching enable

caching enable Command

NAME

caching enable - Enables object caching for server URLs

DESCRIPTION

ENOVIA Synchronicity Command Reference - File

This command enables caching for specific objects specified by server URLs.

When object caching is enabled, the caching property of the object URL is set to one (1). The value of this property may be viewed with the caching status command.

Note: Clients with this feature can enable the local caching functionality for objects on an older (pre-3DEXPERIENCE 2016x) server version, but older clients cannot use this feature on newer clients. Servers accepting commands from older clients can be set up to refuse enable/disable caching requests from older clients. For more information, see the DesignSync Data Manager Administrator's Guide.

This command is subject to access controls on the server.

SYNOPSIS

```
caching enable <SyncURL>[ <SyncURL>...]
```

ARGUMENTS

- [URL](#)

URL

<syncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>]/[<path>] or
syncs://<host>[:<port>]/[<path>]
where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). And the path is the server path to the desired object. For example, all of these are valid syncURLs:
sync://apollo.spaceco.com:2647
sync://apollo.spaceco.com:2647/Modules
sync://apollo.spaceco.com:2647/Modules/Blueprints/FuelCell12
sync://apollo.spaceco.com:2647/Projects/SpaceShuttle

RETURN VALUE

In stcl/stclc mode, two lists are returned, where the first list is non-empty if at least one object was successfully processed, and the second list is non-empty if at least one object failed. If the command failed to run, DesignSync returns an appropriate error

explaining the failure.

SEE ALSO

caching disable, caching list, caching status

EXAMPLES

- [Example Showing enabling cachability for an object](#)

Example Showing enabling cachability for an object

This example shows enabling the caching for a specific object and verifying that the cachability is enabled using the status command which returns a status of one (1).

```
dss> caching enable sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip
{Objects succeeded (1)} {}
```

```
dss> caching status sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip
1
```

caching list

caching list Command

NAME

caching list - Displays the cache status for folders

DESCRIPTION

- [Understanding the Output](#)

Displays a list of subfolders and/or parent folders for a specified vault that have an explicitly set cache status. An explicitly set cache status indicates

that caching is either enabled (on) or disabled (off) for the folder. Folders that inherit their state from their parents are not displayed.

This command is subject to access controls on the server. This command respects the command defaults setting.

Understanding the Output

ENOVIA Synchronicity Command Reference - File

The output of the caching list command can be formatted for easy viewing (-format text) or optimized for TCL processing (-format list). Both viewing formats show the same information, but may have different names. In the table below, the Column Titles column shows the text output column header and the Property Names column shows list output key value.

The caching list command, by default, displays the following information:

Column Titles	Property Names	Description
Caching Status	status	Caching status for the folder. <ul style="list-style-type: none">o Enabled - In text mode, if caching is active for folder, it displays Enabled. In list mode, it displays 1.o Disabled - In text mode, if caching is inactive for the folder, it displays Disabled. In list mode, it displays 0.
Path	path	The server path to the folder.

SYNOPSIS

```
caching list [-disabled] [-down] [-enabled] [-format list | text]
              [-up] <argument>
```

ARGUMENTS

- [{} URL](#)

{ } URL

<SyncURL> Specifies the DesignSync vault URL. The command examines either backwards (up) or forwards (down) to determine whether the folder has an explicitly set cache status.
The vault is specified as:
sync://<host>[:<port>]/[<path>] or
syncs://<host>[:<port>]/[<path>]
where 'sync://' or 'syncs://' are required,
<host> is the

<port>
2647/2679).
object.

machine on which the SyncServer is installed, and
is the SyncServer port number (defaults to

And the path is the server path to the desired

For example, all of these are valid syncURLs:
sync://serv1.abco.com:2647
sync://serv1.abco.com:2647/Modules
sync://serv1.abco.com:2647/Modules/ChipDesigns

sync://serv1.abco.com:2647/Projects/SharedLibraries

OPTIONS

- [{}](#)
- [-down](#)
- [-enabled](#)
- [-format](#)
- [-up](#)

{

-disabled Show all of the folders that have caching explicitly disabled.
If this option is specified with **-enabled**, the command shows folders that have either enabled or disabled status specified, which is the same as specifying neither option.

-down

-down Show all of the folders below the selected Sync URL argument.
If this option is specified with **-up**, the command shows folders up and down from the specified Sync URL, which is the same as specifying neither option.

-enabled

-enabled Show all of the folders that have caching explicitly enabled.
If this option is specified with **-disabled**, the command shows folders that have either enabled or disabled status specified, which is the same as specifying neither option.

ENOVIA Synchronicity Command Reference - File

-format

`-format text|list` Determines the format of the output.

`-format text` displays a text table with headers and columns. (Default) Objects are shown in alphabetical order

`-format list` displays a TCL list containing name/value pairs.

For a list of properties displayed, see the "Understanding the Output" section above.

-up

`-up` Show all of the folders below the selected Sync URL argument.
If this option is specified with `-up`, the command shows folders up and down from the specified Sync URL, which is the same as specifying neither option.

RETURN VALUE

Returns an empty string when `-format text` is used. Returns a TCL list as described in the Understanding the Output section when `-format list` is used.

SEE ALSO

`caching disable`, `caching enable`, `caching status`

EXAMPLES

- [Example of Listing the Cache Status using Text Formatting](#)
- [Example of Listing the Cache Status using List Formatting](#)

Example of Listing the Cache Status using Text Formatting

This example shows listing the status of caching for all folders above and below the specified vault folder.

Note that in this example, the specified module is not displayed

because it inherits it's state from the parent category,
"/Modules/ChipDesigns"

```
stcl> caching list sync://serv1.ABCo.com:2647/Modules/ChipDesigns/NXZ-45
Caching Status   Path
-----
Enabled          /Modules
Disabled         /Modules/TradeSecrets
Enabled          /Modules/ChipDesigns
Disabled         /Modules/ChipDesigns/NXZ-45/Proprietary
Enabled          /Modules/ChipDesigns/NXZ-45/Propertyary/ReadyForRelease
```

Example of Listing the Cache Status using List Formatting

This example shows listing the status of caching for all folders below the specified vault folder.

```
Stcl> caching list -down "format list
sync://serv1.ABCo.com:2647/Modules/ChipDesigns/NXZ-45

{
  {path /Modules/ChipDesigns/NXZ-45/Proprietary status 0}
  {path /Modules/ChipDesigns/NXZ-45/Proprietary/ReadyForRelease status 0}
```

caching status

caching status Command

NAME

caching status - Displays caching status of server URLs

DESCRIPTION

Displays the caching status (on or off) of the object URL. URLs can be explicitly excluded from the cache to protect access to the file and comply with intellectual property protection needs.

SYNOPSIS

```
caching status <SyncURL>
```

ARGUMENTS

- [URL](#)

ENOVIA Synchronicity Command Reference - File

URL

<syncURL> Specifies the option Sync URL as follows:
sync://<host>[:<port>]/[<path>] or
syncs://<host>[:<port>]/[<path>]
where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679). And the path is the server path to the desired object. For example, all of these are valid syncURLs:
sync://serv1.abco.com:2647
sync://serv1.abco.com:2647/Modules
sync://serv1.abco.com:2647/Modules/Blueprints/FuelCell2
sync://serv1.abco.com:2647/Projects/SpaceShuttle

RETURN VALUE

Returns a value of zero (0) if the object can not be cached, or one (1) if the object is able to be cached.

SEE ALSO

caching disable, caching enable, caching list

EXAMPLES

- [Example Showing the cachability status for an object](#)

Example Showing the cachability status for an object

This example shows enabling/disabling the caching for a specific object and verifying that the cachability is enabled using the status command, which returns a zero (0) if cachability is disabled or one (1) if cachability is enabled.

```
dss> caching enable sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip  
{Objects succeeded (1)} {}
```

```
dss> caching status sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip  
1
```

```
dss> caching disable sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip  
{Objects succeeded (1)} {}
```

```
dss> caching status sync://srv1.ABCo.com:2647/Modules/ChipDesign/Chip  
0
```

cachescrubber

cachescrubber Command

NAME

cachescrubber - Cleans the cache of outdated or unused files

DESCRIPTION

This command, sometimes used in conjunction with the cachetouchlinks command, cleans your cache by deleting old or unused files. See cachetouchlinks for more information.

The 'cachescrubber' command must be run from a Unix shell.

Note: All users have access to the cachescrubber command, although it should only be run by the owner of the cache directory. It is possible for users to run it on a cache directory and remove files that should not be removed. To prevent users from inadvertently removing files from the cache, enable SUID for caches as described in the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide.

SYNOPSIS

```
cachescrubber <cache directory> [<age in days>] [-dryrun] [-noref]
                    [-preds32] [-report <mode>]
```

OPTIONS

- [cache directory](#)
- [age in days](#)
- [-dryrun](#)
- [-noref](#)
- [-preds32](#)
- [-report](#)

cache directory

<cache directory> The directory to be scrubbed.
This can be an absolute or relative path.

age in days

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<age in days> Versions this age and older will be scrubbed. When specified, this must follow the <cache directory> argument. You must supply an integer value. This is optional when the -noref or -preds32 options are supplied, since when using those options the files in the cache are not removed based on age. If the <age in days> argument is specified in addition to the -noref and/or -preds32 options, then files that don't meet the no reference or pre-DS3.2 criteria will be removed if they meet the <age in days> criteria.

-dryrun

-dryrun Do not remove any files but report what will be removed when run without this option. This option can be run with any of the report modes.

-noref

-noref Remove versions in the cache that have no references. If the <age in days> argument is also specified, the versions with no references will be removed regardless of the age criteria.

-preds32

-preds32 Remove versions put into the cache from pre-version 3.2 DesignSync clients. If the <age in days> argument is also specified, the pre-3.2 versions will be removed regardless of the age criteria.

-report

-report Where <mode> is brief, normal, or verbose. The 'normal' mode will only report warnings and errors. The 'brief' mode displays the same information as 'normal' mode. The 'verbose' mode will report all objects being removed. The default mode is 'normal'.

RETURN VALUE

The cachescrubber Unix command line script will return a 0 for success and a 1 for failure.

SEE ALSO

cachetouchlinks

EXAMPLES

The following example shows how to run cachetouchlinks and cachescrubber from a shell script. If cachetouchlinks fails, cachescrubber will not run.

```
#!/bin/csh -f
#
# Touch all cache files in all workspaces listed in "workspace_files"
cachetouchlinks -file /home/syncmgr/workspace_files
if ($status != 0) then
    echo "### cachetouchlinks failed when running with"
    echo "    /home/syncmgr/workspace_files ###"
    exit 1
endif
echo "### successfully touched all cache files from workspaces listed in"
echo "    /home/syncmgr/workspace_files ###"
# If cachetouchlinks was successful, run it on all cache directories
cachescrubber /home/syncmgr/caches/sync_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning sync_cache ###"
    exit 1
else
    echo "### successfully cleaned sync_cache ###"
endif
#
cachescrubber /home/syncmgr/caches/ASIC_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning ASIC_cache ###"
    exit 1
else
    echo "### successfully cleaned ASIC_cache ###"
endif
cachescrubber /home/syncmgr/caches/CPU_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning CPU_cache ###"
    exit 1
else
    echo "### successfully cleaned CPU_cache ###"
endif
exit 0
```

Note: If this shell script is run once a week, then the 'age in days' argument could be an integer greater than 1. If the cachetouchlinks script ran for more than 1 day, then this integer must be greater than 1. If 5 days were used and this script was run once a week, this would cover the situation where the cachetouchlinks script ran for more than 1 day (and less than 5 days). Since cachetouchlinks was run 7 days earlier, then the 'age

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in days' should be less than 7. You should record the time that cachetouchlinks ran so that the cachescrubber could be run with an 'age in days' argument that is greater than the number of days used with cachetouchlinks.

cachetouchlinks

cachetouchlinks Command

NAME

cachetouchlinks - Determines which files to be cleaned by the cachescrubber command

DESCRIPTION

Before cleaning the cache with the cachescrubber command, you can run cachetouchlinks on your workspace to identify which files should be deleted. Cachetouchlinks recurses through all specified workspaces and when it finds a local object that is a cache type, it reads the value of the symbolic link and "touches" the cached file that is referenced. For a collection object, it "touches" each cached member file.

Notes:

- * The cachetouchlinks script does not consider hard links during processing.
- * If you unintentionally remove a cache file that is still being referenced, you can use the refreshcache command to recreate the links.
- * The cachetouchlinks command is both a UNIX command line script and Tcl command. Both commands have the same argument list, but return different values. See the Return Values section for more information.

SYNOPSIS

```
cachetouchlinks [-checkerrors] [-dryrun] [-ignoreerrs]
  [-file <workspace-path-list>] -path <path-to-workspace-dir>]
  [-norecursive] [-report <mode>]
```

OPTIONS

- [-checkerrors](#)
- [-dryrun](#)

- [-file](#)
- [-ignoreerrs](#)
- [-path](#)
- [-norecursive](#)
- [-report](#)

-checkerrors

`-checkerrors` Uses the workspace metadata to verify that objects in the cache state are linked to a cache. This option has a performance implication and should only be used when necessary.

-dryrun

`-dryrun` Only report what will be done, do not touch any links. This can be run with any of the `'-report'` modes.

-file

`-file` Valid path to a file containing the list of workspaces referring to caches that will be cleaned. The 'list file' can be specified as an absolute or relative path. The workspaces in the 'list file' can be absolute or relative paths. (Entries in the file that are relative paths are relative to the current working directory, rather than relative to the file itself.) When using the directory list file, directories with spaces must not be escaped. Leading and trailing spaces are removed.

Workspace list file syntax:
 one line for every workspace
 comments have line beginning with #

Example workspace path list file:

```
# workspace ASIC for user larry
/home/larry/Projects/ASIC
# workspace CPU for user larry
/home/larry/Projects/CPU
# all workspaces for user frank
/home/frank/Projects
# workspace ASIC for user rizzo
/home/rizzo/Projects/ASIC
# workspace CPU for user rizzo
/home/rizzo/Projects/CPU
```


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Note: Paths listed in the workspace path list file could be absolute or relative paths. If spaces exist in a path, the path should not be escaped or enclosed in quotes.

-ignoreerrs

-ignoreerrs Continue executing even if an error is encountered. The default is to stop at the first error.

-path

-path Valid path to a workspace whose corresponding cache is to be cleaned. Absolute or relative paths are accepted. A path containing spaces must be escaped. If run from the Unix command line, escaping can be either using a backslash '\' preceding a space or enclosing the path in double quotes. When run from an stcl shell, escaping could be using a backslash preceding a space or enclosing the path in double quotes or braces '{}'. When run from a dss shell, the only escaping allowed is enclosing the path in double quotes. A valid directory must be specified following this option. If this option is not specified, cachetouchlinks will default to the current working directory

-norecursive

-norecursive Do not recursively process the workspace(s). The default is to recursively process each workspace.

-report

-report <mode> Where mode is brief, normal, or verbose. The 'normal' mode will report only warnings and errors. The 'brief' mode displays the same information as 'normal' mode. The 'verbose' mode will report all objects that are being touched. The default is 'normal'.

RETURN VALUE

- On failure, an exception occurs (the return value is thrown, not returned).
- If `-ignoreerrs` is specified, The `cachetouchlinks` Tcl procedure will return a `TCL_ERROR` (1) on failure.
- On success, a `TCL_OK` (0) will be returned.

The `cachetouchlinks` Unix command line script will return a 0 for success and a 1 for failure.

SEE ALSO

`cachescrubber`, `refreshcache`

EXAMPLES

The following example shows how you can run `cachetouchlinks` and `cachescrubber` from a shell script. If `cachetouchlinks` fails, `cachescrubber` will not run.

```
#!/bin/csh -f
#
# Touch all cache files in all workspaces listed in "workspace_files"
cachetouchlinks -file /home/syncmgr/workspace_files
if ($status != 0) then
    echo "### cachetouchlinks failed when running with"
    echo "    /home/syncmgr/workspace_files ###"
    exit 1
endif
echo "### successfully touched all cache files from workspaces listed in"
echo "    /home/syncmgr/workspace_files ###"
# If cachetouchlinks was successful, run the cachescrubber
# on all cache directories
cachescrubber /home/syncmgr/caches/sync_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning sync_cache ###"
    exit 1
else
    echo "### successfully cleaned sync_cache ###"
endif
#
cachescrubber /home/syncmgr/caches/ASIC_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning ASIC_cache ###"
    exit 1
else
    echo "### successfully cleaned ASIC_cache ###"
endif
cachescrubber /home/syncmgr/caches/CPU_cache 1
if ($status != 0) then
    echo "### cachescrubber failed while cleaning CPU_cache ###"
    exit 1
else
```

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```
        echo "### successfully cleaned CPU_cache ###"  
    endif  
    exit 0
```

Note: If this shell script is run once a week, then the 'age in days' argument could be an integer greater than 1. If the cachetouchlinks script ran for more than 1 day, then this integer must be greater than 1. If 5 days were used and this script was run once a week, this would cover the situation where the cachetouchlinks script ran for more than 1 day (and less than 5 days). Since cachetouchlinks was run 7 days earlier, then the 'age in days' should be less than 7. You should record the time that cachetouchlinks ran so that the cachescrubber could be run with an 'age in days' argument that is greater than the number of days used with cachetouchlinks.

refreshcache

refreshcache Command

NAME

```
refreshcache      - Refreshes a workspace, re-establishing cache links  
                   to point to either a new cache location or to new  
                   cache names
```

DESCRIPTION

This command traverses the workspace directory hierarchy in search of objects that exist in the shared cache mode and recreates the link to the cache.

This command can be used when moving a cache to re-establish links to the new cache directory. The cache file naming mechanism changed in DesignSync version 3.2 to address consistency and reliability issues. If pre-version 3.2 cache links still exist, the refreshcache command can be used to re-establish links to cache files using the new cache file name format. It is beneficial to re-establish links to cache files using the new cache name file format since there have been consistency and reliability issues addressed with the new cache naming. Links to the old cache file names will still work.

If you only have the latest version of any branch populated, first 'populate -recursive -reference -unifystate' to replace any cache links with DesignSync references. Then 'populate -recursive -share -unifystate' to recreate the cache links, which will now lead to cached files in the new cache location. This will also replace pre- DS 3.2 style cache links with the newer cache link format.

Note that the DesignSync reference state is only intended to be temporary. DesignSync references do not exist on disk, so tools requiring actual data will not work properly with DesignSync references.

The `refreshcache` command is useful when non-latest versions exist in the workspace since it recreates a new link to the current version in the workspace.

SYNOPSIS

```
refreshcache [-continue_on_error] [-dryrun]
             [ -file <path> | -workspace <path>] [-norecursive]
             [-preds32] [-verbose]
```

OPTIONS

- [-continue_on_error](#)
- [-dryrun](#)
- [-file](#)
- [-norecursive](#)
- [-preds32](#)
- [-workspace](#)
- [-verbose](#)

-continue_on_error

`-continue_on_error` If an error is encountered, do not exit, but continue processing workspace(s). By default, the `refreshcache` command will exit on encountering an error.

-dryrun

`-dryrun` Only report what will be done, do not refresh any links.

-file

`-file` A full or relative path to a file containing a list of workspaces to be refreshed. Either this option or the `'-workspace'` option must be supplied, but not both. The format of this file is one line for every workspace. A line beginning with a `'#'` is a comment.

-norecursive

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`-norecursive` Do not recursively process the workspace(s).

`-preds32`

`-preds32` The cache file naming mechanism changed in DesignSync Version 3.2 to address consistency and reliability issues. It is beneficial to re-establish links to the new cache file names. Using this option will only select links that are currently pointing to the old cache file name format and re-establish them so that they are linking to files using the new cache file name format.

This can be useful if a user already has a workspace with a mix of links pointing to cache files with the old naming convention and the new naming convention. This way it would not waste time refreshing the links to files in the new name format.

`-workspace`

`-workspace` The full path or relative path to workspace to be refreshed. Either this option or the `'-file'` option must be supplied, but not both.

`-verbose`

`-verbose` Extra report processing - reports object being processed, version id, object type and old cache file links. The old cache file links are reported with `-preds32` option.

RETURN VALUE

If the refresh is successful, returns an empty string. If the refresh fails, returns an appropriate error.

SEE ALSO

`cachescrubber`, `cachetouchlinks`, `populate`

EXAMPLES

- [Example Showing a Dry Run](#)
- [Example Showing Updating Pre-3.2 Cache Files](#)
- [Example Showing Updating Workspaces From a File](#)

Example Showing a Dry Run

Reports all cache links in the asic hierarchy that will be refreshed, but doesn't refresh any:

```
stcl> refreshcache -workspace /home/larry/Projects/asic -dryrun
```

Example Showing Updating Pre-3.2 Cache Files

Add the `-preds32` option and it will report all links that point to cache files using the old naming convention, which will be refreshed if the `-dryrun` option is not specified.

Re-establishes cache links in workspace `/home/larry/Projects/asic`:

```
stcl> refreshcache -workspace /home/larry/Projects/asic
```

Can use the `-preds32` option to only refresh cache links that were linked to files before version 3.2. These links are pointing to cache files that used the old naming convention.

First report what will be refreshed.

```
stcl> refreshcache -workspace /home/larry/Projects/asic -preds32 -dryrun
```

Re-establishes cache links:

```
stcl> refreshcache -workspace /home/larry/Projects/asic -preds32
```

Example Showing Updating Workspaces From a File

Reports all cache links in all workspaces listed in file `/home/larry/workspace_list`, which will be refreshed, but doesn't refresh any.

The workspace list file might look like follows:

```
# comment - ASIC project
/home/larry/Projects/asic
# CPU project
/home/larry/Projects/cpu
```

```
stcl> refreshcache -file /home/larry/workspace_list -dryrun
```

Re-establishes cache links:

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```
stcl> refreshcache -file /home/larry/workspace_list
```

Mirror System

mirror Commands

NAME

```
mirror          - Mirror management commands
```

DESCRIPTION

The `mirror` commands allow you to create, view, edit, and check the status of mirrors. You also can administer mirrors using the DesignSync WebUI.

SYNOPSIS

```
mirror <mirror_command> [<mirror_command_options>]
```

```
Usage: mirror [create|delete|disable|edit|enable|get|getoptions|
              isenabled|ismirror|list|rename|requeue|reset|setoptions|
              status|wheremirrored]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror requeue`,
`mirror reset`, `mirror setoptions`, `mirror status`,
`mirrorsetdefaultuser`, `mirror wheremirrored`

mirror**mirror Commands****NAME**

`mirror` - Mirror management commands

DESCRIPTION

The `mirror` commands allow you to create, view, edit, and check the status of mirrors. You also can administer mirrors using the DesignSync WebUI.

SYNOPSIS

```
mirror <mirror_command> [<mirror_command_options>]
```

```
Usage: mirror [create|delete|disable|edit|enable|get|getoptions|
             isenabled|ismirror|list|rename|requeue|reset|setoptions|
             status|wheremirrored]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror requeue`,
`mirror reset`, `mirror setoptions`, `mirror status`,
`mirrorsetdefaultuser`, `mirror wheremirrored`

mirror create**mirror create Command****NAME**

ENOVIA Synchronicity Command Reference - File

mirror create - Creates a mirror

DESCRIPTION

This command creates a mirror. When a password is required, you are prompted and the command becomes interactive.

Note: When you create a mirror, submirrors for referenced data are created automatically.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror create [-cachedir <path>] [-cachelinktype hard|soft]
              [-category <category>] [-description <description>]
              [-[no]enable] [-fetchstate get|share]
              [-MASuser <user>] -mirrordir <mirrorDir>
              -name <name> [-notify<email_list>]
              [-parentname <parent_mirror>] [-PMASuser <user>]
              [-primaryserver <serverURL>] [-RSuser <user>]
              [-script <TCL_script>]
              [-selector <list>] [-type normal|primary|secondary]
              -vaultURL <vaultURL> <serverURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror will be created. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
For example: sync://serv1.abco.com:1024

OPTIONS

- [-cachedir](#)
- [-cachelinktype](#)
- [-category](#)

- [-description](#)
- [-\[no\]enable](#)
- [-fetchstate](#)
- [-MASuser](#)
- [-mirrordir](#)
- [-name](#)
- [-notify](#)
- [-parentname](#)
- [-PMASuser](#)
- [-primaryserver](#)
- [-RSuser](#)
- [-script](#)
- [-selector](#)
- [-type](#)
- [-vaultURL](#)

-cachedir

`-cachedir` The `-cache` option allows you specify the path to the
`<path>` mirror specific file cache. If you update mirrors
 with the share state and no file cache is specified,
 the default cache or project caches are used. The
 default cache is determined by the MUP's registry
 files which include the server's registry files and
 the MirrorRegistry.reg file.

-cachelinktype

`-cachelinktype` The `-cachelinktype` option indicates whether creating
`hard|soft` a mirror with cache links uses hard or soft
 (symbolic) links in the mirror. This option is
 ignored if the `-fetchstate get` option is used.

"`-cachelinktype hard`" populates the mirror with hard
 links to the cache. Hard links require that mirror
 and the cache be on the same disk partition. If the
 system cannot create hard links to the cache, it
 will switch automatically to creating soft links to
 the cache.

"`-cachelinktype soft`" populates the mirror with
 symbolic links to the cache. (Default)

Note: This option does not use the registry settings
 that determine whether a hard link or soft link
 should be used. The default setting for this option
 is to use soft links.

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-category

-category An optional parameter to assign a category (arbitrary string) to a mirror. All mirrors belonging to a category can be selected by using the -category parameter of 'mirror list'. When mirror definitions are automatically generated as the result of encountering references, they will inherit the category of their parent mirror. A category must be composed of the following set [A-Za-z0-9_/-.] or a space.

-description

-description An optional description of the mirror. A description must be composed of the following set [A-Za-z0-9_/-.] or a space.

-[no]enable

-[no]enable Determine if the mirror should be enabled when it is created. The default is enable.

-fetchstate

-fetchstate
get|share An optional mode to indicate whether the mirror should be populated with local copies, or populated with file cache links.

"-fetchstate get" populates the mirror with local copies. (Default)

"-fetchstate share" populates the mirror with links the cache. You can use the -cachelinktype to specify whether the links should be soft links (symbolic links) or hard links.

-MASuser

-MASuser The name of the user to establish communication from the repository server (RS) to the mirror administration server (MAS). When this parameter is omitted, the default user (mirror setoptions -defaultuser) is used for this connection. If the

default user is not set, an error will be thrown. If the 'mirror setoptions -enforcedefaultuser' option is set on the MAS and this parameter is specified, an error will be thrown. If this parameter is specified, the user will be prompted for the corresponding password. Therefore, specifying this parameter makes the 'mirror create' command an interactive command.

-mirrordir

-mirrordir The pathname of the mirror directory.
 Note: This parameter is required.

The pathname must be unique with respect to all other mirrors defined on the mirror administration server (MAS).

If this pathname contains a relative path with respect to the stcl's cwd, it is converted to an absolute pathname before the name is passed to the mirror administration server.

If the mirror directory pathname contains a symbolic link (UNIX only), the user controls whether the symbolic link is resolved or used as is, with the EnableRealMirrorPaths registry key.

The '~' home directory character is allowed (UNIX only).

The directory pathname must be relevant on the same LAN as the mirror administration server.

The directory name can be prefixed with 'file:/' if an absolute pathname is specified.

The mirror directory path and the relative path of the mirror must be unique. You cannot use a directory that is already in use by another mirror.

-name

-name Logical name of the mirror. This name must be unique with respect to all other mirrors defined on the mirror administration server (MAS). When mirror definitions are automatically generated as the result of encountering references, the new mirror names should reflect the point in the mirror hierarchy where the reference was encountered. The hierarchical delimiter used must be a slash, '/'.
 EXAMPLE: If the mirror 'liba' uses mirror directory

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/home/libs/liba and during the initial populate a reference is encountered at the /home/libs/liba/iocells/scancells directory, a new mirror called 'liba/iocells/scancells' will be created. Names must be composed of the following set [A-Za-z0-9_/-]. Mirror names cannot begin with a dash (-).

When `-name` is used without the `-parentname` argument, the name parameter cannot be the name of an existing mirror. However, when used in combination with the `-parentname` argument, the name parameter can refer to an existing mirror. In this case, the mirror directory, vault URL, and selector are validated and if any of these parameters is incorrect, an error is thrown. When `-name` and `-parentname` are used in combination, all other parameters for the mirror create command are used only for validation.

The `-name` value is required.

-notify

`-notify` A comma-separated or space-separated list of email addresses and/or user names to send email to whenever the mirror generates notifications. The `defaultnotifylist` (see 'mirror setoptions') will be internally appended to this list. If the `defaultnotifylist` has not been set then this list will default to the email address in the user's profile for the user executing this command on the MAS. If user names are specified, the users must have user profiles on the MAS servers.

-parentname

`-parentname` When you are creating a submirror, the logical name of the parent mirror. The parent mirror must already exist. See the `-name` argument description, above, for information on how the `-name` and `-parentname` arguments interact.

-PMASuser

`-PMASuser` The name of the user to establish communication from the mirror administration server (MAS) to the primary mirror server (PMAS). If the `-type` parameter is not set to "secondary", this parameter is silently ignored. When the `-type` is set to "secondary" then if this

parameter is omitted, the default user (mirror setoptions -defaultuser) is used for this connection. If the default user is not set, an error will be thrown. If the 'mirror setoptions -enforcedefaultuser' option is set on the MAS and this parameter is specified, an error will be thrown. If this parameter is specified, the user will be prompted for the corresponding password. Therefore, specifying this parameter makes the 'mirror create' command an interactive command.

-primaryserver

-primaryserver Specifies the URL of the SyncServer hosting the primary mirror (PMAS). If the -type parameter is not set to "secondary", this parameter is silently ignored. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the PMAS is installed, and <port> is the PMAS port number (defaults to 2647)
 For example" -primaryserver
 sync://serv1.abco.com:1024

-RSuser

-RSuser The name of the user to establish communication from the mirror administration server (MAS) to the repository server (RS). This User must have a user profile on the RS. When this parameter is omitted, the default user (mirror setoptions -defaultuser) is used for this connection. If the default user is not set, an error will be thrown. If the 'mirror setoptions -enforcedefaultuser' option is set on the MAS and this parameter is specified, an error will be thrown. No companion password parameter is available for -RSuser. If this parameter is specified, the user will be prompted for the corresponding password. Therefore, specifying this parameter makes the 'mirror create' command an interactive command.

-script

-script <TCL_script> The -script option allows you to specify the TCL script that defines the scripted mirror. The script must be in the syncinc/share/tcl, or custom/site/share/tcl directory. For information about how to create the TCL script, see the ENOVIA

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Synchronicity DesignSync Administrator's Guide.

The `-script` option is mutually exclusive with the `-type` option.

-selector

`-selector`
`<list>`

The `-selector` option is used to choose which versions of the files in the vault to place in the mirror directory. This value's syntax is checked to make sure the selector is valid. The default is `'Trunk:Latest'`.

-type

`-type`

The type of the mirror. This must be `'normal'`, `'primary'`, or `'secondary'`. Secondary mirrors require the `-primaryserver` parameter and may specify the `-PMASuser` parameter. The default is `'normal'`.

This option is mutually exclusive with the `-script` option.

-vaultURL

`-vaultURL`

Specifies the URL of the vault directory whose contents will be mirrored out. This parameter is required. Specify the URL as follows:
`sync://<host>[:<port>]/path_to_vault` or
`syncs://<host>[:<port>]/path_to_vault` where
`'sync://'` or `'syncs://'` are required,
`<host>` is the remote server,
`<port>` is the remote server's port number
(defaults to 2647)
and the `path_to_vault` is the path from the remote servers root to the vault directory being mirrored.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

mirror delete, mirror disable, mirror edit,
 mirror enable, mirror get, mirror getoptions, mirror isenabled,
 mirror ismirror, mirror list, mirror rename, mirror reset,
 mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

This example creates a primary mirror on the MAS sync://faure:30138. The default user, as specified in the 'mirror setoptions' example, is used for mirror communications. The mirror is not initially enabled.

```
stcl> mirror create -recursive -type primary -description "FCS builds" \  
stcl> -noenable sync://faure:30138 -name releases -mirrordir \  
stcl> /home/tbarbg2/Mirrors/releases -vaultURL \  
stcl> sync://srv2.ABCo.com:2647/releases  
stcl>
```

mirror delete

mirror delete Command

NAME

mirror delete - Deletes a mirror

DESCRIPTION

This command deletes the mirror definition from both the MAS and the RS. It does not stop any updates that are in progress on the mirror's behalf or remove the mirror directory. If the MAS can be contacted but the mirror cannot be removed because the RS cannot be contacted, the mirror will be placed in a disabled state.

Generated mirrors cannot be removed. Scripted mirrors, which are used to generate and modify the generated mirrors can be deleted.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror delete [-force] -name <name> <serverURL>
```

ARGUMENTS

- [Server URL](#)

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Server URL

`serverURL` Specifies the URL of the MAS where the mirror will be deleted. Specify the URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]` where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
For example: `sync://serv1.abco.com:1024`

OPTIONS

- [-force](#)
- [-name](#)

-force

`-force` Specifying this option deletes the mirror definition from the MAS (to clean up the status output and stop unwanted email) when the RS is not available.

Note: Use this option only when the RS is not available and is not likely to become available.

When the `-force` option is used and the RS is not accessible, the user gets the following message:
"Connect failure. Server '<host>:<port>' may have reset the connection." But the mirror definition is removed from the MAS.

-name

`-name` Name of the mirror to delete.

Note: Generated mirrors cannot be removed. Generated mirrors use the `<TCL_script>@<script_assigned_name>`. Any mirror containing a "@" is a generated mirror.

The `-name` option is required.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

```
mirror create, mirror disable, mirror edit,
mirror enable, mirror get, mirror getoptions, mirror isenabled,
mirror ismirror, mirror list, mirror rename, mirror reset,
mirror setoptions, mirror status, mirrorsetdefaultuser
```

EXAMPLES

- [Example Showing Deleting a Mirror](#)
- [Example Showing That the Mirror Cannot Be Deleted](#)
- [Example Using The Force Option to Delete a Mirror](#)

Example Showing Deleting a Mirror

This example deletes the 'Releases' mirror from the MAS
sync://giovannelli:30138.

```
stcl> mirror delete sync://giovannelli:30138 -name Releases
stcl>
```

Example Showing That the Mirror Cannot Be Deleted

This example cannot delete the 'NML8B0' mirror from the MAS
sync://qechrh102:30046 as the RS is disabled.

```
stclc> mirror delete sync://qechrh102:30046 -name NML8B0
Connect failure. Server 'sting:30046' may have reset the connection.
```

```
Could not remove the mirror's definition from the repository server.
The mirror is disabled: NML8B0
- Attempting to contact repository server...
- som-E-11: Communication Connect Failure.
```

Example Using The Force Option to Delete a Mirror

This example deletes the 'NML8B0' mirror from the MAS
sync://qechrh102:30046 even though the RS is disabled using the
-force option.

```
stclc> mirror delete sync://qechrh102:30046 -force -name NML8B0
Connect failure. Server 'sting:30046' may have reset the connection.
```

```
stcl> mirror ismirror sync://qechrh102:30046 -name NML8B0
0
```

mirror disable

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mirror disable Command

NAME

mirror disable - Disables a mirror

DESCRIPTION

The mirror disable command disables a single mirror or all mirrors depending on the parameter specified. When a mirror is disabled, it is marked disabled on the MAS and an attempt is made to remove the mirror definition from the mirror's repository server. Failing to remove the definition from the repository server does not cause an error. The RS mirror definition is replaced when the mirror is enabled or removed when the mirror is deleted.

If an error occurs while processing one mirror in a list (during -all switch) all remaining mirrors are processed. An error is thrown if all mirrors being processed fail. If only one mirror is being processed, an empty string is returned on success. If multiple mirrors are processed, an error status message is printed for each mirror that fails and the return value shows success and failure status in the form { succeeded 3 failed 2 }.

Note: When a parent scripted mirror is disabled, the mirrors generated by that script are also disabled. Additionally, the script can disable a generated mirror by returning a status value of 2, followed by a list of the generated mirrors to disable in the Mirrors list.

Generated mirrors use the format <MirrorName>@<script_assigned_name>. Any mirror containing a "@" is a generated mirror.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror disable <serverURL> -all | -name <name>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror will be disabled. Specify the URL as follows:

sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 For example: sync://serv1.abco.com:1024

OPTIONS

- [-all](#)
- [-name](#)

-all

-all Evaluates all mirrors on the server.

-name

-name Name of the mirror to disable.

RETURN VALUE

If only one mirror is being processed, an empty string is returned on success. If multiple mirrors are being processed, an error status message is printed for each mirror that fails and the return value shows success and failure status in the form { succeeded 3 failed 2 }.

An error is thrown if all of the mirrors being processed fail.

SEE ALSO

mirror create, mirror delete, mirror edit,
 mirror enable, mirror get, mirror getoptions, mirror isenabled,
 mirror ismirror, mirror list, mirror rename, mirror reset,
 mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

This example disables the "Releases" mirror on the MAS
 sync://giovannelli:30138.

```
stcl> mirror disable sync://giovannelli:30138 -name Releases
stcl>
```

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mirror edit

mirror edit Command

NAME

mirror edit - Modifies mirror parameters

DESCRIPTION

- [Notes for File-Based and Legacy Module Objects](#)

The mirror edit command modifies specified mirror parameters. Passwords are never specified on the command line for this command. When passwords are needed, you are prompted and the command becomes interactive.

Note: You cannot change the name of the mirror using mirror edit. To change the mirror name, use the 'mirror rename' command.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

Notes for File-Based and Legacy Module Objects

Vaults containing DesignSync references always recursively mirrors the contents of their reference vaults.

SYNOPSIS

```
mirror edit [-cachedir <path>] [-cachelinktype hard|soft]
            [-category <category>] [-description <description>]
            [-fetchstate get|share] [-MASuser <user>]
            -name <name> [-notify <email_list>] [-PMASuser <user>]
            [-primaryserver <serverURL>] [-[no]recursive]
            [-RSuser <user>] [-vaultURL <vaultURL>]
            [-selector <selector_list>] [-script <TCL_script>]
            [-type normal|primary|secondary] <serverURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror will be edited. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-cachedir](#)
- [-cachelinktype](#)
- [-category](#)
- [-description](#)
- [-fetchstate](#)
- [-MASuser](#)
- [-mirrordir](#)
- [-name](#)
- [-notify](#)
- [-PMASuser](#)
- [-primaryserver](#)
- [-RSuser](#)
- [-script](#)
- [-selector](#)
- [-type](#)
- [-vaultURL](#)

-cachedir

-cachedir <path> The -cache option allows you specify the path to the mirror specific file cache. If you update mirrors with the share state and no file cache is specified, the default cache or project caches are used. The default cache is determined by the MUP's registry files which include the server's registry files and the MirrorRegistry.reg file.

-cachelinktype

-cachelinktype hard|soft The -cachelinktype option indicates whether creating a mirror with cache links uses hard or soft (symbolic) links in the mirror. This option is ignored if the -fetchstate get option is used.

"-cachelinktype hard" populates the mirror with hard links to the cache. Hard links require that mirror

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and the cache be on the same disk partition. If the system cannot create hard links to the cache, it will switch automatically to creating soft links to the cache.

"-cachelinktype soft" populates the mirror with symbolic links to the cache. (Default)

Note: This option does not use the registry settings that determine whether a hard link or soft link should be used. The default setting for this option is to use hard links.

-category

-category A parameter to assign a category (arbitrary string) to a mirror. All mirrors belonging to a category can be selected by using the -category parameter of 'mirror list'. A category must be composed of the following set [A-Za-z0-9_/-.] or a space.

-description

-description An optional description of the mirror. A description must be composed of the following set [A-Za-z0-9_/-.] or a space.

-fetchstate

-fetchstate
 get|share An optional mode to indicate whether the mirror should be populated with local copies, or populated with file cache links.

"-fetchstate get" populates the mirror with local copies. (Default)

"-fetchstate share" populates the mirror with links the cache. You can use the -cachelinktype to specify whether the links should be soft links (symbolic links) or hard links.

-MASuser

-MASuser The name of the user to establish communication from the repository server (RS) to the mirror administration server (MAS). If the 'mirror setoptions

`-enforcedefaultuser` option is set on the MAS and this parameter is specified, an error will be thrown. If this parameter is specified, the user will be prompted for the corresponding password. Therefore, specifying this parameter makes the `'mirror edit'` command an interactive command.

-mirrordir

`-mirrordir` Pathname of the mirror directory. This pathname must be unique with respect to all other mirrors defined on the mirror administration server (MAS).

If this pathname contains a relative path with respect to the `stcl`'s `cwd`, it will be converted to an absolute pathname BEFORE the name is passed to the mirror administration server.

If the mirror directory pathname contains a symbolic link (UNIX only), the user controls whether the symbolic link is resolved or used as is, with the `EnableRealMirrorPaths` registry key.

The `'~'` home directory character is allowed (UNIX only). The directory pathname must be relevant on the same LAN as the mirror administration server. The directory name can be prefixed with `'file://'` if an absolute pathname is specified.

The mirror directory path and the relative path of the legacy module must be unique. You cannot use a directory for a legacy module that is already in use by another mirror.

-name

`-name` Name of the mirror to edit. This parameter is required.

-notify

`-notify` A comma-separated or space-separated list of email addresses and/or user names to send email to whenever the mirror generates notifications. The `defaultnotifylist` (see `'mirror setoptions'`) will be appended to this list. If user names are specified, the users must have user profiles on the MAS servers.

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-PMASuser

`-PMASuser` The name of the user to establish communication from the mirror administration server (MAS) to the primary mirror administration server (PMAS). If the mirror's type is not set to "secondary", this parameter is silently ignored. If the 'mirror setoptions -enforcedefaultuser' option is set on the MAS and this parameter is specified, an error will be thrown. If this parameter is specified, the user will be prompted for the corresponding password. Therefore, specifying this parameter makes the 'mirror edit' command an interactive command.

-primaryserver

`-primaryserver` Specifies the URL of the SyncServer hosting the primary mirror (PMAS). If the mirror's type is not set to "secondary", this parameter is silently ignored. Specify the URL as follows:
sync://<host>[:<port>] or syncs://<host>[:<port>]
where 'sync://' or 'syncs://' are required, <host> is the machine on which the PMAS is installed, and <port> is the PMAS port number (defaults to 2647).
Example: `-primaryserver sync://serv1.abco.com:1024`

-RSuser

`-RSuser` The name of the user to establish communication from the mirror administration server (MAS) to the repository server (RS). This User must have a user profile on the RS. If the 'mirror setoptions -enforcedefaultuser' option is set on the MAS and this parameter is specified, an error will be thrown. No companion password parameter is available for `-RSuser`. If this parameter is specified, the user is prompted for the corresponding password. Therefore, specifying this parameter makes the 'mirror edit' command interactive.

-script

`-script <TCL_script>` The `-script` option allows you to specify the TCL script that defines the scripted mirror. The script must be in the `syncinc/share/tcl`, or `custom/site/share/tcl` directory. For information

about how to create the TCL script, see the ENOVIA Synchronicity DesignSync Administrator's Guide.

IMPORTANT: You cannot use the `-script` option to change the mirror type. You can only use it to change which script controls the scripted mirror. The `-script` option is mutually exclusive with the `-type` option.

-selector

`-selector` The `selector_list` to use to choose which versions of the files in the vault to place in the mirror directory. This value's syntax will be checked to make sure the selector is valid. With the exception of a scripted mirror, you cannot edit the selector when the mirror reflects a module.

-type

`-type` Specify the type of the mirror as 'normal', 'primary', or 'secondary'. Secondary mirrors require the `-primaryserver` parameter and may specify the `-PMASuser` parameter.

-vaultURL

`-vaultURL` Specifies the URL of the vault directory whose contents will be mirrored out. Specify the URL as follows: `sync://<host>[:<port>]/path_to_vault` or `syncs://<host>[:<port>]/path_to_vault` where 'sync://' or 'syncs://' are required, `<host>` is the remote server, `<port>` is the remote server's port number (defaults to 2647), and the `path_to_vault` is the path from the remote servers root to the vault directory to be mirrored out.

Note:

- o You can edit the vault URL from a DS folder to a legacy module and vice versa.
- o You can edit the vault URL from one module folder to another module folder.
- o You cannot edit the vault URL when the mirror reflects a module.
- o You cannot edit the vault URL from a legacy module or a DS vault to non-legacy module or vice versa. If a mirror is created to populate a legacy module, it cannot be modified to populate a

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non-legacy module. Likewise, if a mirror is created to populate a non-legacy module, it cannot be modified to populate a legacy module. An error is generated if such an attempt is made.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror enable, mirror get, mirror getoptions, mirror isenabled, mirror ismirror, mirror list, mirror rename, mirror reset, mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

This example changes the mirror directory for the "releases" mirror that was created in the 'mirror create' example. The 'mirror rename' example shows how to change the mirror name.

```
stcl> mirror edit sync://faure:30138 -name releases -mirrordir \  
stcl> /home/tbarbg2/Mirrors/Releases  
stcl>
```

mirror enable

mirror enable Command

NAME

mirror enable - Enables a specified mirror

DESCRIPTION

This command enables a single mirror, all disabled mirrors, or all mirrors depending on the parameter specified. When a mirror is enabled, it is effectively re-registered. The repository server for each mirror will be contacted and the mirrors definition on the repository server replaced. If the mirror cannot re-register, the mirror will remain in (or be moved to) the disabled state.

Note that enabling an already enabled mirror could result in the mirror becoming disabled if the RS is unreachable. If an error occurs while processing one mirror in a list (-disabled or -all switches) all

remaining mirrors will be processed. An error is thrown if all mirrors fail.

Note: When a parent scripted mirror is enabled, the mirrors generated by that script are also enabled. Additionally, if the script returns a list of mirrors to generate, then those mirrors are automatically enabled, if they were in the disabled state.

Generated mirrors use the format:
<MirrorName>@<script_assigned_name>.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror enable <serverURL> -all | -disabled | -name name
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror will be enabled. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
Example: sync://serv1.abco.com:1024

OPTIONS

- [-all](#)
- [-disabled](#)
- [-name](#)

-all

-all Enables all the mirrors on the server.

This option is mutually exclusive with -disabled and -name.

-disabled

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`-disabled` Enables all all mirrors on the server that are currently in the disabled state.

This option is mutually exclusive with `-all` and `-name`.

`-name`

`-name <name>` Name of the mirror to enable.

Note: Generated mirrors cannot be enabled or disabled. If the parent scripted mirror is enabled, that, in turn, enables any disabled generated mirrors generated by that scripted mirror. Generated mirrors use the name `<MirrorName>@<script_assigned_name>`. Any mirror containing a "@" is a generated mirror.

This option is mutually exclusive with `-all` and `-disabled`.

RETURN VALUE

If only one mirror is being processed, an empty string is returned on success. If multiple mirrors are being processed, an error status message is printed for each mirror that fails and the return value shows success and failure status in the form `{ succeeded 3 failed 2 }`. An error is thrown if all of the mirrors being processed fail.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror reset`,
`mirror setoptions`, `mirror status`, `mirrorsetdefaultuser`

EXAMPLES

This example enables the "Releases" mirror.

```
stcl> mirror enable sync://faure:30138 -name Releases
stcl>
```

mirror get

mirror get Command

NAME

mirror get - Returns all parameters for specified mirror

DESCRIPTION

The mirror get command returns all the parameters for a specified mirror. The following parameters are set to an empty string if they are not relevant or cannot be derived:

```
'primaryserver'
'usingdefPMASuser',
'PMASuser'
```

The following parameters return 1 or 0 when the format is 'list' and 'True' or 'False' when the format is 'text':

```
'modulerecursion',
'usingdefaultRSuser'
'usingdefaultMASuser'
'usingdefaultPMASuser'
'enabled'
```

The defaultuser is the user specified with:

```
'mirror setoptions -defaultuser'
```

Note: When a generated mirror is specified, the parameters returned are for the scripted mirror definitions with only the following parameters coming directly from the generated mirror:

```
'vault'
'selector'
'mirror directory'
'script' (empty)
'type' (normal)
```

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror get <serverURL> [-format text|list] -name <name>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS to get the mirror

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parameters from. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
Example: sync://serv1.abco.com:1024

OPTIONS

- [-format](#)
- [-name](#)

-format

-format Specifies the way the output is returned. The default is text. The format 'text' will return each mirror parameter on a new line in the format name=value. The format 'list' will list the values in a Tcl list in the form {name1 value1 name2 value2 ...}

-name

-name <name> Name of the mirror. This parameter is required.

RETURN VALUE

Returns the parameters for the mirror. The following parameters are returned:

name
mirrordir
vaultURL
selector
script
category
description
notifylist
commonnotifylist
modulerecursion
hrefmode
type
enabled
primaryserver
defaultuser
RSuser
MASuser
PMASuser
usingdefaultRSuser

```

usingdefaultPMASuser
usingdefaultMASuser
fetchstate
cachelinktype
cachedir
mcachemode

```

SEE ALSO

```

mirror create, mirror delete, mirror disable, mirror edit,
mirror enable, mirror getoptions, mirror isenabled,
mirror ismirror, mirror list, mirror rename, mirror reset,
mirror setoptions, mirror status, mirrorsetdefaultuser

```

EXAMPLES

- [Example Showing the Parameters for a Non-Scripted Mirror](#)
- [Example Showing the Parameters for a Scripted Mirror](#)

Example Showing the Parameters for a Non-Scripted Mirror

This example returns the parameters for the "Releases" mirror (non-scripted) on the MAS sync://faure:30138.

```

stcl> mirror get sync://faure:30138 -name Releases
name                = Releases
mirrordir           = /home/barbg/Mirrors/Releases
vaultURL            = sync://srv2.ABCo.com:2647/releases
selector            = Trunk:Latest
script              =
category            =
description         = FCS builds
type                = primary
enabled             = True
modulerecursion    = True
hrefmode            = Normal
primaryserver       =
notifylist          =
commonnotifylist    = barbg
defaultuser         = barbg
usingdefaultMASuser = True
MASuser             = barbg
usingdefaultRSuser  = True
RSuser              = barbg
usingdefaultPMASuser = False
PMASuser            =
fetchstate          = get
cachelinktype       = soft
cachedir            =
mcachemode          = server
stcl>

```


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Example Showing the Parameters for a Scripted Mirror

This example returns the parameters for the "AUTO_RELEASES" scripted mirror on the MAS sync://qewflx10:30047.

```
stcl> mirror get sync://qewflx10:30047 -name SCR_1
name                = AUTO_RELEASES
mirrordir           = /home/tlarry1/Modules/mirrors/DS_AUTO_RELEASES
vaultURL            = sync://qewflx10:30047/Modules/Blocks
selector            = REL_*
script               = generate_mirror.tcl
category            =
description         =
type                = autogen
enabled              = True
modulerecursion     = True
hrefmode            = normal
primaryserver       =
notifylist          =
commonnotifylist    = masteradmin
defaultuser         = masteradmin
usingdefaultMASuser = True
MASuser             = masteradmin
usingdefaultRSuser  = True
RSuser              = masteradmin
usingdefaultPMASuser = False
PMASuser            =
fetchstate          = share
cachelinktype       = hard
cachedir            = /home/tlarry1/Modules/sync_cache
mcachemode          = link
stcl>
```

mirror getoptions

mirror getoptions Command

NAME

mirror getoptions - Gets mirror options on a server

DESCRIPTION

This command is used to get general mirror options for all mirrors on a MAS or RS. Options that have not been set will return an empty string. The following parameters will return 1 or 0 when the format is 'list' and 'True' or 'False' when the format is 'text':

isdefaultuserenforced

```
isRSEnabled
isMASEnabled
```

The parameter warnifstale will return 'No' if the value is 0 and the format is text.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror getoptions <serverURL> [-format text|list]
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the SyncServer (RS or MAS). Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-format](#)

-format

-format Specifies the way the output is returned. The default is text. The format 'text' will return each option on a new line in the format name=value. The format 'list' will list the options in a Tcl list in the form {name1 value1 name2 value2 ...}

RETURN VALUE

Returns the general options for the mirrors on a server.

The following parameters will be returned:

```
defaultuser
commonnotifylist
name
```

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```
isdefaultuserenforced
isRSEnabled
isMASEnabled
warnifstale
isSUIDenforced
```

SEE ALSO

```
mirror create, mirror delete, mirror disable, mirror edit,
mirror enable, mirror get, mirror isenabled,
mirror ismirror, mirror list, mirror rename, mirror reset,
mirror setoptions, mirror status, mirrorsetdefaultuser
```

EXAMPLES

- [Example Showing the Mirror Options](#)
- [Example Showing the Mirror Options in a Formatted List](#)

Example Showing the Mirror Options

This example gets the general mirror options for the SyncServer `sync://faure:30138`.

```
stcl> mirror getoptions sync://faure:30138
isRSEnabled           = False
isMASEnabled          = True
name                  = faure
defaultuser           = barbg
isdefaultuserenforced = True
isSUIDenforced        = False
commonnotifylist      = barbg
warnifstale           = No
isSUIDenforced        = Yes

stcl>
```

Example Showing the Mirror Options in a Formatted List

This example shows the `"-format list"` output format:

```
stcl> mirror getoptions sync://faure:30138 -format list
isRSEnabled 0 isMASEnabled 1 name faure:30138 defaultuser barbg
isdefaultuserenforced 1 isSUIDenforced 0 commonnotifylist barbg
warnifstale 0 isSUIDenforced 1
stcl>
```

mirror isenabled

mirror isenabled Command**NAME**

mirror isenabled - Tests whether a mirror is enabled

DESCRIPTION

Test if a mirror is enabled. Used primarily for scripting.

Note: Generated mirrors cannot be disabled directly as an argument to this command. The mirror status command can be used to determine if a generated mirror is enabled or disabled. Generated mirrors are created with the name: <MirrorName>@<script_assigned_name>.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

mirror isenabled <serverURL> -name <name>

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror is defined. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)

-name

-name Name of the mirror. This parameter is required.

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RETURN VALUE

Returns 1 if the mirror is enabled or 0 if the mirror is disabled.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror edit,
mirror enable, mirror get, mirror getoptions,
mirror ismirror, mirror list, mirror rename, mirror reset,
mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

In this example, 'mirror isenabled' returns 1, because the "Releases" mirror on the SyncServer sync://faure:30138 is enabled.

```
stcl> mirror isenabled sync://faure:30138 -name Releases
1
stcl>
```

mirror ismirror

mirror ismirror Command

NAME

```
mirror ismirror      - Tests whether a name is valid for a defined
                      mirror
```

DESCRIPTION

Test if a name is valid for an existing mirror. Used primarily for scripting. Allows a name to be tested instead of one of the other commands throwing an error if the mirror name was wrong.

Note: Generated mirrors cannot be validated using the mirror ismirror command. Generated mirrors are created with the name <MirrorName>@<script_assigned_name>. Any mirror containing a "@" is a generated mirror.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror ismirror <serverURL> -name <name>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror is defined. Specify the URL as follows:
 sync://<host>[:<port>] or
 syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)

-name

-name Name of the mirror.

RETURN VALUE

Returns 1 if the mirror is defined on the server or 0 if the mirror is not defined.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror edit,
 mirror enable, mirror get, mirror getoptions, mirror isenabled,
 mirror list, mirror rename, mirror reset,
 mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

In this example, 'mirror ismirror' returns 1, because there is a "Releases" mirror on the SyncServer sync://faure:30138.

```
stcl> mirror ismirror sync://faure:30138 -name Releases
```

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```
1
stcl>
```

mirror list

mirror list Command

NAME

```
mirror list          - Returns a list of all mirrors from a server
```

DESCRIPTION

The `mirror list` command returns a list of all mirrors from a server that matches a specified search criterion. Used primarily for scripting. The `-enabled`, `-disabled`, and `-all` switches can be combined with patterns from the `-category` and `-name` parameters to reduce the number of mirrors returned in the list.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror list <serverURL> [-category <category_pattern>]
                  [-enabled|disabled|all] [-format text|list]
                  [-name <name_pattern>]
```

ARGUMENTS

- [Server URL](#)

Server URL

`serverURL` Specifies the URL of the MAS where the mirrors are defined. Specify the URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]` where `'sync://'` or `'syncs://'` are required, `<host>` is the machine on which the SyncServer is installed, and `<port>` is the SyncServer port number (defaults to 2647/2679).
Example: `sync://serv1.abco.com:1024`

OPTIONS

- [-all](#)

- [-category](#)
- [-disabled](#)
- [-enabled](#)
- [-format](#)
- [-name](#)

-all

`-all` Request a list of all mirrors from the server. This is the default.

-category

`-category` A category pattern used to further reduce the list of mirrors returned. Mirror categories that do not match the pattern will be removed from the result list. A pattern is defined using UNIX glob-style notation. '*' matches any number of characters, '?' matches exactly one character, [chars] matches any characters in chars, and any other characters in the pattern are taken as literals that must match the input exactly.

-disabled

`-disabled` Request a list of all disabled mirrors from the server.

-enabled

`-enabled` Request a list of all enabled mirrors from the server.

-format

`-format` Specifies the way the output is returned. The default is text. With the 'text' format, the matching mirrors are printed to the screen, one per line. With the 'list' format, the matching mirrors are returned as a Tcl list.

-name

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`-name` A name pattern used to further reduce the list of mirrors returned. Mirror names that do not match the pattern will be removed from the result list. A pattern is defined using UNIX glob-style notation. '*' matches any number of characters, '?' matches exactly one character, [chars] matches any characters in chars, and any other characters in the pattern are taken as literals that must match the input exactly.

RETURN VALUE

Returns the names of all mirrors on the server that match the search criteria. If no mirrors match, an empty string is returned.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror rename`, `mirror reset`,
`mirror setoptions`, `mirror status`, `mirrorsetdefaultuser`

EXAMPLES

- [Example Showing Enabled Mirrors in Text Format](#)
- [Example Showing Enabled Mirrors in List Format](#)

Example Showing Enabled Mirrors in Text Format

This example returns all enabled mirrors on the SyncServer `sync://faure:30138`. There are two mirrors M01 and M02 that are enabled.

```
stcl> mirror list sync://faure:30138 -enabled
M01
M02
```

Example Showing Enabled Mirrors in List Format

The output format is different if you use the `-format list` option.

```
stcl> mirror list sync://faure:30138 -enabled
      -format list
M01 M02
```

mirror rename

mirror rename Command

NAME

`mirror rename` - Changes the mirror name

DESCRIPTION

The `mirror rename` command changes the mirrors name from `<name>` to `<newname>`. The repository server must be contacted for this command.

This command cannot be used to rename scripted or generated mirrors.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror rename <serverURL> -name <name> -newname <newname>
```

ARGUMENTS

- [Server URL](#)

Server URL

`serverURL` Specifies the URL of the MAS where the mirror is defined. Specify the URL as follows:
`sync://<host>[:<port>]` or
`syncs://<host>[:<port>]` where `'sync://'` or `'syncs://'` are required, `<host>` is the machine on which the SyncServer is installed, and `<port>` is the SyncServer port number (defaults to 2647/2679).
 Example: `sync://serv1.abco.com:1024`

OPTIONS

- [-name](#)
- [-newname](#)

`-name`

ENOVIA Synchronicity Command Reference - File

`-name` Current name of the mirror.

-newname

`-newname` New name for the mirror. Names must be composed of the following set [A-Za-z0-9_/-]. Mirror names cannot begin with a dash (-).

RETURN VALUE

Returns an empty string on success.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror reset`,
`mirror setoptions`, `mirror status`, `mirrorsetdefaultuser`

EXAMPLES

This example changes the name of the "releases" mirror, created in the 'mirror create' example, to "Releases".

```
stcl> mirror rename sync://faure:30138 -name releases -newname Releases
stcl>
```

mirror requeue

mirror requeue Command

NAME

`mirror requeue` - Requeue a transaction in the mirror

DESCRIPTION

This command provides a manual option to requeue mirror transactions stored in the transaction record. When a mirror is generated, the transactions that need to be processed are stored in a transaction log and submitted in batches for processing. If the mirror fails for some reason, the transactions can be manually resubmitted for processing either for a single mirror or for all the mirrors on the

MAS.

For more information on mirror requeuing, see the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide.

SYNOPSIS

```
mirror requeue -name <mirror> <ServerURL>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror is defined. Specify the URL as follows:
 sync://<host>[:<port>] or syncs://<host>[:<port>]
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (if omitted, defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)

-name

name <mirror> Name of the mirror.
 To requeue transactions for all mirrors, specify "*".

RETURN VALUE

Returns an empty string on success. If there is a failure, DesignSync reports an appropriate error message.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror enable

EXAMPLES

ENOVIA Synchronicity Command Reference - File

- [Example of Requeuing Transactions for a Single Mirror](#)
- [Example of Requeuing Transactions for All Mirrors](#)

Example of Requeuing Transactions for a Single Mirror

This example shows transactions being requeued for a single mirror.

```
dss> mirror requeue -name chipMirror1
sync://serv1.ABCo.com:2647/Modules/Chip/Chip-419
dss>
```

Example of Requeuing Transactions for All Mirrors

This example shows transactions being requeued for all mirrors.

```
dss> mirror requeue -name *
sync://serv1.ABCo.com:2647/Modules/Chip/Chip-419
dss>
```

mirror reset

mirror reset Command

NAME

```
mirror reset          - Populates the mirror's directory, leaving it in
                        the same state as if the mirror had been removed
                        and then repopulated
```

DESCRIPTION

This command performs a full populate of the mirror and leaves the mirror directory in the same state as if the mirror had been removed and then repopulated. Resetting a mirror also resets its submirrors. If the mirror's submirrors are disabled, they are re-enabled by the reset operation.

Note: You cannot reset a generated or scripted mirror. If a scripted mirror is specified, it is silently ignored. If a generated mirror is specified, you will see an error stating that the mirror cannot be reset.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror reset <serverURL> -name <name>
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS where the mirror is defined. Specify the URL as follows:
 sync://<host>[:<port>] or syncs://<host>[:<port>]
 where 'sync://' or 'syncs://' are required,
 <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (if omitted, defaults to 2647/2679).
 Example: sync://serv1.abco.com:1024

OPTIONS

- [-name](#)

-name

name Name of the mirror.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror edit,
 mirror enable, mirror get, mirror getoptions, mirror isenabled,
 mirror ismirror, mirror list, mirror rename,
 mirror setoptions, mirror status, mirrorsetdefaultuser

EXAMPLES

This example resets the "Releases" mirror on the MAS sync://faure:30138.

```
stcl> mirror reset sync://faure:30138 -name Releases
stcl>
```

ENOVIA Synchronicity Command Reference - File

mirror setoptions

mirror setoptions Command

NAME

mirror setoptions - Sets general mirror options

DESCRIPTION

The mirror setoptions command sets general mirror options for all mirrors on a MAS or RS. Passwords are never specified on the command line for this command. For a UNIX command-line version of the -defaultUser option, see the mirrorsetdefaultuser shell script command.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror setoptions <serverURL> [-commonnotifylist<email_list>]
[-defaultuser <user>] [-disableMAS | -enableMAS]
[-disableRS | -enableRS] [-[no]enforcedefaultuser]
[-[no]enforceSUID] [-name <name>]
[-warnifstale <time>]
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the SyncServer (RS or MAS). Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
Example: sync://serv1.abco.com:1024

OPTIONS

- [-commonnotifylist](#)
- [-defaultuser](#)

- [-disableMAS](#)
- [-disableRS](#)
- [-enableMAS](#)
- [-enableRS](#)
- [-enforcedefaultuser](#)
- [-enforceSUID](#)
- [-name](#)
- [-noenforcedefaultuser](#)
- [-noenforceSUID](#)
- [-warnifstale](#)

-commonnotifylist

`-commonnotifylist` A comma-separated or space-separated list of email addresses and/or user names. This list is internally appended to the notify list specified with the 'mirror create' command for each mirror. The combined list is used to send email whenever a mirror generates notifications. The default is a list of all Users who have the AdministrateServer AC right. This option is relevant only for an MAS. Notify lists are not defined on the RS but passed to it during the enabling of a mirror.

-defaultuser

`-defaultuser` The default user to be used when one of the needed users is not specified for the 'mirror create' command. If this parameter is specified, you are prompted for the default user's password. Specifying this parameter makes 'mirror setoptions' an interactive command. This option is only relevant for an MAS.

-disableMAS

`-disableMAS` Disables a server as mirror administration server

-disableRS

`-disableRS` Do not declare a server a repository server.

-enableMAS

ENOVIA Synchronicity Command Reference - File

`-enableMAS` Enables a server a mirror administration server

-enableRS

`-enableRS` Declare a server a repository server.

-enforcedefaultuser

`-enforcedefaultuser` Turn on the default user policy. When `-enforcedefaultuser` is in effect, users cannot be specified during the 'mirror create' command. This allows a company to establish a user as the mirror administration user (default user) for all servers and enforce that policy. This option is only relevant for a MAS.

-enforceSUID

`-enforceSUID` Enable enforcement of SUID for creating or moving mirrors. This option sets the UNIX permissions on new mirror directories to the default setting of 755. This option is relevant only for an MAS.

-name

`-name` Declare a user-friendly name for a MAS server. If this option is not set, all references to the MAS in status reports will use its hostname:port identifier. No attempt will be made to assure this name is unique across all MAS servers in a corporation. This is the user's responsibility.

-noenforcedefaultuser

`-noenforcedefaultuser` Turn off the default user policy. When `-enforcedefaultuser` is in effect, users cannot be specified during the 'mirror create' command. This allows a company to establish a user as the mirror administration user (default user) for all servers and enforce that policy. This option is only relevant for a MAS.

-noenforceSUID

`-noenforceSUID` Disable enforcement of SUID for creating or moving mirrors. If this option is selected, permissions on new mirror directories are set to 777 and are open to any user.

-warnifstale

`-warnifstale` Change a mirror's status to "Warning" if the mirror has not been up-to-date in the specified number of minutes. This parameter allows the user to identify mirrors that have had update processes running for a long period of time. This condition may be normal for the customer's data set but also may indicate a problem. A value of zero (the default) means the server never enters the warning status for this reason. Only values of 0, 10, 20, 30, 60, 120, 180, 360, 720, and 1440 are allowed.

RETURN VALUE

Returns an empty string on success.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror reset`,
`mirror status`, `mirrorsetdefaultuser`

EXAMPLES

This example defines the general mirror settings for the MAS
`sync://faure:30138`.

```
stcl> mirror setoptions sync://faure:30138 -defaultuser barbg \  

stcl> -enforcedefaultuser -noenforceSUID -enableMAS -name faure \  

stcl> -commonnotifylist barbg
```

Enter the password for the default user (barbg): ****

```
stcl>
```

mirror status

ENOVIA Synchronicity Command Reference - File

mirror status Command

NAME

mirror status - Returns the status for the mirror

DESCRIPTION

- [Understanding the Output](#)

The mirror status command returns the status for the mirror specified with <name> or all the mirrors on a server if the name is not given. The <name> parameter is only valid when requesting status of mirrors on a MAS. When status is requested from an RS, the RS will make status calls to all the MASs that are registered with it. The status of a mirror from the RS will be the same information as if the status was requested directly from the MAS.

[This assumes the RS/MAS communication is working. If it is not, status will only be shown for the mirrors where communication was established with a message showing where it could not.]

The RS will include the MAS name where the mirror data came from in the status.

Note: When you specify an RS as the -servertype, you cannot specify a specific mirror name.

Understanding the Output

The output of the mirror status command can be formatted for easy viewing (-format text) or optimized for Tcl processing (-format list). Both viewing formats show the same information.

The mirror status command displays the following information for each mirror:

Property	Description
Names	
-----	-----
name	Unique name for the mirror defined when the mirror is created. The generated mirror name is in the format <MirrorName>@<Script_Assigned_Name>.
status	String indicating the health of the mirror. Possible values include: <ul style="list-style-type: none">o good - There are no failures of any kind.o warning - A mirror update has failed and has not adequately been retried or the heartbeat is late.o failure - A mirror has repeatedly failed, the heartbeat was not received, or in the case of a

scripted mirror, there was an error creating a generated mirror.

- o unknown - A mirror status is unknown.
- o incomplete - The mirror status file is incomplete or cannot be read.
- o disabled - the mirror is currently disabled.

lastuptodatetime	Last time the mirror was up-to-date. If the mirror is operating normally (no failures) then if there are no updates currently in progress for the mirror, this is the time of the last successful update or the last heartbeat, which ever is later. If there are updates in progress, this is the start time of the first update process to start.
mirrordir	The path to the mirror directory.
vaultURL	The Sync URL of the module, DesignSync vault or configuration for a legacy module being mirrored.
selector	The selector or tag applied to the objects in the mirror.
	Note: Even when a wildcard match was used to generate the mirror, you see the selector that matched the wildcard, not the wildcard value defined for the mirror.
category	User-defined category used to organize mirrors.
type	Type of mirror: <ul style="list-style-type: none"> o Normal - The default DesignSync mirror, which fetches design objects directly from the RS. Generated mirrors, even though they are created from a scripted mirror are considered normal mirrors. o Scripted - A mirror that has an associated Tcl script. The script determines which mirrors are automatically generated at a MAS based on the revision control operations occurring on the associated URL at the RS. o Auto-generated (aka autogen) - Normal mirrors that get automatically generated by a scripted mirror. Autogen mirrors also go out of existence automatically when there's no revision control operations occurring on the associated URL at the RS. o Primary - The primary mirror fetches design objects directly from the RS and serves them to secondary mirrors. This option is not supported for modules. o Secondary - The secondary mirror fetches objects from a primary mirror instead of directly from

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	the RS.
MASname	The name of the server hosting the mirror. This is the MAS's name as specified with 'mirror setoptions -name' or, if not set, the hostname:port for the MAS.
heartbeat	Time of last heartbeat received from the RS for the mirror.
lastupdatetime	The last time an update process successfully updated the mirror.
inprogress	A Boolean (0 or 1 for -format list and 'True' or 'False' for -format text) indicating if any update processes are running on the mirror's behalf.
firstfailuretime	(FFT)Time of first update process failure. This is 0 if there are no update failures. This time does not reflect heartbeat failures.
numberofretries	Number of update attempts to correct an update failure.
lastnotifytime	(LNT) The last time email was sent to all the recipients of the mirror's notify list.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror status <serverURL> [-format text|list] [-name <name>]
                    [-servertime RS|MAS]
```

ARGUMENTS

- [Server URL](#)

Server URL

serverURL Specifies the URL of the MAS or RS to obtain mirror status from. Specify the URL as follows:
sync://<host>[:<port>] or
syncs://<host>[:<port>] where 'sync://' or 'syncs://' are required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647/2679).
Example: sync://serv1.abco.com:1024

OPTIONS

- [-format](#)
- [-name](#)
- [-servertype](#)

-format

`-format`
`text|list`

Specifies the way the output will be returned. The default is text. The format 'text' will output each mirror status parameter on a new line in the format name=value. When the status for more than one mirror is output, a blank line separates one mirror's status from another. The format 'list' will list the status in a Tcl list. If the <name> parameter is not specified, this command will return a list of lists with each sub-list holding the status of one mirror. The status for a mirror is in the form:
{name1 value1 name2 value2 ...}.

-name

`-name`

Name of the mirror. This parameter is not allowed if the server type is 'RS' You can specified any mirror, including a generated or scripted mirror.

-servertype

`-servertype`
`RS|MAS`

This parameter is set to either 'RS' for repository server or 'MAS' for mirror administration server. The default is 'MAS' if the server is acting as both a MAS and RS. Otherwise, this parameter defaults to the mode the server is configured for. This parameter specifies which mirror status the user is requesting.

"mirror status" with "--servertype RS" may take some time to run. For each mirror that is mirroring data on the RS, the mirror's MAS must be contacted. For faster results, use the "mirror wheremirrored" command with the RS as the <vaultURL> argument. Use the "-status" option to "mirror wheremirrored" to report mirror status, and specify other "mirror wheremirrored" options to decrease the number of mirrors whose status is reported.

RETURN VALUE

ENOVIA Synchronicity Command Reference - File

Returns the status for a mirror or all the mirrors on a server. If only one mirror is being processed, the status is output (not returned) when the format is text or returned as a list when the format is list. If a mirror does not report its status, the command reports that as a failure in the form { succeeded 3 failed 2 }. An error is thrown if all mirrors being processed fail. If there are no mirrors defined, an error is thrown. Requesting status for a mirror server type that the server is not configured for is considered an error. If the format is list, the mirrors' status is returned in a list of lists as the last element in the return list. Example: { succeeded 4 failed 0 {{name ...} {name...} ...}}. The status for each mirror consists of a set of name value pairs.

SEE ALSO

mirror create, mirror delete, mirror disable, mirror edit, mirror enable, mirror get, mirror getoptions, mirror isenabled, mirror ismirror, mirror list, mirror rename, mirror reset, mirror setoptions, mirror setdefaultuser, mirror wheremirrored

EXAMPLES

- [Example Showing Mirror Status for All Mirrors on an RS](#)
- [Example Showing Mirror Status for All Mirrors on an MAS](#)
- [Example Showing Mirror Status for the MAS in TCL List Format](#)

Example Showing Mirror Status for All Mirrors on an RS

This example shows the status of all mirrors that are mirroring data on the RS sync://srv2.ABCo.com:2647.

```
stcl> mirror status sync://srv2.ABCo.com:2647 -servertype RS
name           = Releases
status         = good
lastuptodatetime = 2005-12-29 05:37:14
mirrordir      = /home/tbarbg2/Mirrors/Releases
vaultURL       = sync://srv2.ABCo.com:2647/releases
selector       = Trunk:Latest
category       =
type           = primary
MASname        = faure
heartbeat      = 2005-12-29 05:36:12
lastupdatetime = 2005-12-29 05:37:14
inprogress     = False
firstfailuretime = N/A
numberofretries = 0
lastnotifytime = N/A

name           = Releases
status         = good
```

```

lastuptodatetime = 2005-12-29 05:48:18
mirrordir        = /home/tbarbg7/Mirrors/Releases
vaultURL         = sync://srv2.ABCo.com:2647/releases
selector         = Trunk:Latest
category         =
type             = secondary
MASname          = giovannelli
heartbeat        = 2005-12-29 05:47:12
lastupdatetime  = 2005-12-29 05:48:18
inprogress       = False
firstfailuretime = N/A
numberofretries = 0
lastnotifytime  = N/A

```

```

succeeded 2 failed 0
stcl>

```

Example Showing Mirror Status for All Mirrors on an MAS

This example shows the status of all mirrors on the MAS sync://src:2647 (2647 is the default cleartext port for DesignSync, so does not need to be specified.)

```

stcl> mirror status sync://src -servertype MAS
name           = Trunky
status         = good
lastuptodatetime = 2006-04-11 11:38:23
mirrordir      = /home/syncmgr/mirrors/Trunky
vaultURL       =
sync://src.matrixone.net:2647/Projects/SyncInc/build_tools
selector       = Trunk:Latest
category       = test
type           = normal
MASname        = devserver
heartbeat      = 2006-04-11 11:38:23
lastupdatetime = 2006-04-11 06:58:27
inprogress     = False
firstfailuretime = N/A
numberofretries = 0
lastnotifytime = N/A

name           = docs
status         = good
lastuptodatetime = 2006-04-11 11:38:23
mirrordir      =
/home/syncmgr/sync_custom/servers/moniuszko/2647/htdocs/docs
vaultURL       = sync://src.matrixone.net:2647/docs
selector       = Trunk:Latest
category       = devserver
type           = normal
MASname        = devserver
heartbeat      = 2006-04-11 11:38:23
lastupdatetime = 2006-04-11 07:02:27

```


ENOVIA Synchronicity Command Reference - File

```
inprogress      = False
firstfailuretime = N/A
numberofretries = 0
lastnotifytime  = N/A

name            = testir
status          = good
lastuptodatetime = 2006-04-11 11:38:23
mirrordir       = /home/syncmgr/sync_custom/servers/moniuszko
                 /2647/htdocs/testir
vaultURL        = sync://src.matrixone.net:2647/Projects/testir
selector        = Trunk:Latest
category        = devserver
type            = normal
MASname         = devserver
heartbeat       = 2006-04-11 11:38:23
lastupdatetime  = 2006-04-11 06:54:06
inprogress      = False
firstfailuretime = N/A
numberofretries = 0
lastnotifytime  = N/A
```

```
succeeded 3 failed 0
stcl>
```

Example Showing Mirror Status for the MAS in TCL List Format

This example shows the "-format list" output format:

```
stcl> mirror status sync://src -servertype MAS -format list
succeeded 3 failed 0 {{name Trunky status good lastuptodatetime 1144769903
mirrordir /home/syncmgr/mirrors/Trunky vaultURL
sync://src.matrixone.net:2647/Projects/SyncInc/build_tools selector
Trunk:Latest
category test type normal MASname devserver heartbeat 1144769903
lastupdatetime
1144753107 inprogress 0 firstfailuretime 0 numberofretries 0 lastnotifytime
0}}
{name docs status good lastuptodatetime 1144769903 mirrordir
/home/syncmgr/sync_custom/servers/moniuszko/2647/htdocs/docs vaultURL
sync://src.matrixone.net:2647/docs selector Trunk:Latest category devserver
type
normal MASname devserver heartbeat 1144769903 lastupdatetime 1144753347
inprogress 0 firstfailuretime 0 numberofretries 0 lastnotifytime 0} {name
testir
status good lastuptodatetime 1144769903 mirrordir
/home/syncmgr/sync_custom/servers/moniuszko/2647/htdocs/testir vaultURL
sync://src.matrixone.net:2647/Projects/testir selector Trunk:Latest category
devserver type normal MASname devserver heartbeat 1144769903 lastupdatetime
1144752846 inprogress 0 firstfailuretime 0 numberofretries 0 lastnotifytime
0}}
stcl>
```

mirror wheremirrored

mirror wheremirrored Command

NAME

mirror wheremirrored - Shows where vault data is mirrored

DESCRIPTION

- [Pattern Matching](#)
- [Upgrading a Mirror with "wheremirrored" Information](#)

As an end user, use the "mirror wheremirrored" command to identify a mirror directory at your site to "setmirror" to. As a mirror administrator use the "mirror wheremirrored" command when defining a secondary mirror, to identify available primary mirrors. The "mirror wheremirrored" command can also be used to report the status of mirrors, and is faster than "mirror status" with the "--servertype RS" option. (When options to the "mirror wheremirrored" command are used to decrease the number of mirrors whose status is reported.) Only active (enabled) mirrors are reported by this command.

Pattern Matching

Some of the options described below accept a pattern. A pattern is defined using UNIX glob-style notation (or the <pattern> described in the Tcl "string match" command). "*" matches any number of characters, "?" matches exactly one character, and [chars] matches any characters in chars. Any other characters in the pattern are taken as literals that must match the input exactly. Also, \x can be used to match the single character x. This avoids the special interpretation of the characters *?[]\ in the pattern.

Upgrading a Mirror with "wheremirrored" Information

The information shown by the "mirror wheremirrored" command is for Repository Servers (RSs) that are running version V6R2008-9 of the software or higher. RSs should be upgraded to a version that supports "wheremirrored" first, so that the RS's are able to receive "wheremirrored" information sent to them by the Mirror Administration Servers (MASs). If a MAS is upgraded to a version with "wheremirrored" first, the "wheremirrored" upgrade step must be performed after each associated RS is upgraded.

If the information used by the "mirror wheremirrored" command is not

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present, the value "needs-upgrade" will be shown for most of the mirror properties. (The EXAMPLES section below has an example of this.) Similarly, the "wheremirrored" information shown for MASs at versions prior to the implementation of "wheremirrored" will have "needs-upgrade" for many of their mirror properties.

Once both the MAS and an RS are at a version with "wheremirrored" support, the mirror properties used by the "mirror wheremirrored" command are set ("upgraded") for an existing mirror, when one of these occur:

- The MAS is restarted, thereby restarting the mad (mirror administration daemon)
- The resetmirrordaemons command is used to restart the mad
- ProjectSync's "Reset MAS Daemon" is used
- A disabled mirror is enabled

The "upgrade" stores current information on the RS about a mirror, which the "wheremirrored" command uses. The "upgrade" occurs only once for each RS that has a mirror on the MAS.

Creating a mirror sets the properties used by the "mirror wheremirrored" command on the RS, for the mirror that was created. The mirror's "wheremirrored" properties are also updated when a mirror definition is edited.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirror wheremirrored <vaultURL> [-category <category>]
[-format text|list] [-name <name>]
[-selector <selector_list>]
[-status good|warning|failure|unknown|none|any]
[-type normal|primary|secondary|all]
```

ARGUMENTS

- [Vault URL](#)

Vault URL

<vaultURL> Specifies the URL of the vault directory whose contents are being mirrored. This parameter is required. Specify the URL as follows:
sync[s]://<host>[:<port>][/path_to_vault]
where the <host> and <port> are that of the RS. If the <port> is omitted, the default ports are used (2647 for cleartext and 2679 for SSL)

The path_to_vault is the path on the RS that is

being mirrored. The `path_to_vault` part of the `<vaultURL>` can be a pattern, defined using the UNIX glob-style notation described above. If a `path_to_vault` is not specified, all mirrors mirroring data anywhere on the RS will be reported. The options below can be used to filter the mirrors that are reported.

OPTIONS

- [-category](#)
- [-format](#)
- [-name](#)
- [-selector](#)
- [-status](#)
- [-type](#)

-category

`-category` The `<category>` pattern used to filter the list of mirrors returned. Mirrors whose category does not match the `<category>` pattern will be removed from the result list. A pattern is defined using the UNIX glob-style notation described above. If a literal value is specified for the `<category>`, it must be an exact match of the category stored with the mirror definition. (Mirrors whose categories are not an exact match will be removed from the result list.)

If a mirror definition has not been upgraded and this option is specified, the mirror will not be in the result list. That's because the mirror does not yet have a category set in the "wheremirrored" properties on the RS, for the "mirror wheremirrored" command to use as a "-category" filter.

-format

`-format` Specifies the way the output will be returned. The default is text. The format 'text' will output each mirror parameter on a new line in the format `name=value`. When the properties for more than one mirror is output, a blank line separates one mirror's properties from another. The format 'list' will list the properties in a Tcl list. The command will return a list of 5 elements with the last element being a list of lists, with each sub-list holding the properties of one mirror. The properties for a mirror will be in the form `{name1 value1 name2 value2 ...}`. The first 4 elements will be "succeeded number-

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succeeded failed number-failed". See the RETURN VALUE section below for more details.

-name

-name The <name> pattern used to filter the list of mirrors returned. Mirror names that do not match the <name> pattern will be removed from the result list. A pattern is defined using the UNIX glob-style notation described above. If a literal value is specified for the <name>, it must be an exact match of the name stored with the mirror definition. (Mirrors whose names are not an exact match will be removed from the result list.)

-selector

-selector The <selector_list> pattern used to filter the list of mirrors returned. Mirrors whose selector list does not match the <selector_list> pattern will be removed from the result list. The <selector_list> may be specified as a pattern, defined using the UNIX glob-style notation described above. If a literal value is specified for the <selector_list>, it must be an exact match of the selector stored with the mirror definition. (Mirrors whose selectors are not an exact match will be removed from the result list.)

However, branch selectors are normalized. I.e., a <selector_list> value of "bugfix:" will match mirrors whose selectors are "bugfix:" or "bugfix:Latest". Similarly, the special branch value "Trunk" will match mirrors whose selectors are "Trunk:Latest" and "Trunk:".

-status

-status The status of the mirror, used to filter the list of mirrors returned. The status specified must be either "good", "warning", "failure", "unknown", "none" or "any". Mirrors that do not match the status value will be removed from the result list.

The default value is "none", which means that status will not be reported. This is the most efficient value for the status, because the RS does not need to contact each MAS for every mirror that is reported. Mirror status is not reported, for "-status none".

Specifying a status value other than "none" will cause the RS to contact each MAS for every mirror that is reported. The status is the last criterion that is matched for a mirror. So, the request for status from a MAS is only sent by the RS if all other criteria are matched.

A status value of "any" will cause the RS to contact each MAS to get the status of every mirror (that matches the other criteria specified), but will not filter on the status value. The status value will be shown for all mirrors (that match the other criteria specified).

-type

-type The type of the mirror, used to filter the list of mirrors returned. The type specified must be either "normal", "primary", "secondary" or "all". The default value is "all". Mirrors that do not match the type value will be removed from the result list.

If a mirror definition has not been upgraded and a type value other than "all" is specified, the mirror will not be in the result list. That's because the mirror does not yet have a type set in the "wheremirrored" properties on the RS, for the "mirror wheremirrored" command to use as a "-type" filter.

RETURN VALUE

Returns properties and optionally status for each active (enabled) mirror meeting the specified criteria. When discussing the return value, the status of a mirror is considered to be a property.

When the default "-format text" is used, the properties are output and a succeeded/failed count is returned.

A specific mirror is only counted as a failure if there was a failure reporting the status of the mirror (when specifying a "-status" value other than "none"), and the mirror's status could not be retrieved from the MAS. If the mirror's status is "failure", then the "mirror wheremirrored" command has the mirror's "wheremirrored" return as succeeded, since the "mirror wheremirrored" command was successful in matching the mirror against the criteria specified with the command. Therefore, the "mirror wheremirrored" command counting a mirror as "succeeded" is independent of the status of the mirror. If a mirror is counted as "failed" due to not being able to get the status of a mirror, the "status" property for the mirror will have the value "unavailable".

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When "-format list" is used, the properties and status for each mirror meeting the criteria is returned in a list of lists, as the last element in the return list. The first four elements of the returned list are name/value pairs with the number succeeded and number failed. This is similar to the return value of the "mirror status" command.

For example:

```
succeeded 4 failed 1 {{name val MASname val ...} {name val  
MASname val ...}}
```

An error will not be thrown if "-status" is used with a value other than "none", and no status could be retrieved for any of the matching mirrors (all mirrors reported as "failed" to get status).

An error is thrown if the command itself fails. Such as, if the server housing the vault is not enabled as an RS, if there are no active (enabled) mirrors registered with the RS, if the RS cannot be contacted, if multiple arguments are specified, or if the mirror name, category or selector contain illegal characters.

Mirrors created prior to their MAS being upgraded to a version that supports "where mirrored" do not have certain wheremirrored properties available at the RS. The value shown for those properties is "needs-upgrade". For details, see the "Upgrading a Mirror with wheremirrored Information" section above.

The following properties will be returned for each matching mirror:

name	The name of the mirror, which is only unique within a particular MAS.
MASname	The name of the server hosting the mirror, from the MAS's General Settings. This could have a value of "needs-upgrade".
MASurl	The URL of the MAS where the mirror is defined.
vaultURL	The URL of the vault that is being mirrored.
selector	The selector of the mirror.
mirrordir	The path to the mirror directory on the MAS's LAN. This could have a value of "needs-upgrade".
category	The category of the mirror on the MAS. This could have a value of "needs-upgrade".
type	The type of mirror: "normal", "primary", "secondary", or "needs-upgrade".
primaryServer	The MAS that is hosting the primary mirror. This could have a value of "needs-upgrade".

See the "mirror create" documentation for further details on the above properties.

If the "-status" option is specified with a value other than the default "none", then these additional properties are returned:

status	The mirror's status: "good", "warning", "failure", "unknown" or "unavailable". A status of "unavailable" is returned when the RS could not retrieve the status from the MAS. In which case, there may be a problem with the MAS, or the MAS may not be running.
--------	---

If a failure is encountered when trying to get the mirror status, the failure message will be reported when using the default "-format text" output. When "-format list" is used, the failure message will be returned in an additional "error" property.

`error` The error message, if a failure is encountered when trying to get the mirror status. This property is only returned when "-format list" is used. If the default "-format text" is used, then this error message is output.

SEE ALSO

`mirror create`, `mirror status`, `setmirror`

EXAMPLES

- [Example Showing All Mirrors for a Server's Projects](#)
- [Example Showing Failures in TCL List Format](#)
- [Example Showing All Mirrors for a Specific Branch and Version](#)
- [Example Showing Finding the Primary Mirrors for a Project](#)

Example Showing All Mirrors for a Server's Projects

To find all mirrors that are mirroring a server's projects:

```
stcl> mirror wheremirrored sync://qewflx10:30018/Projects/*
name                = Top
MASname             = North Carolina
MASurl              = sync://qewflx11.matrixone.net:30158
vaultURL            = sync://qewflx10:30018/Projects/Top
selector            = Trunk:Latest
mirrordir            = /home/tbarbg8/Mirrors/Secondary/Top/
category             = Test
type                 = secondary
primaryserver       = sync://qewflx10:30148

name                = Test
MASname             = San Jose
MASurl              = sync://qewflx12.matrixone.net:30128
vaultURL            = sync://qewflx10:30018/Projects/Test
selector            = Trunk
mirrordir            = /home/tbarbg8/Mirrors/Normal/Test/
category             = Testing
type                 = normal
primaryserver       =
```

...

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Example Showing Failures in TCL List Format

The "-format list" return when a failure is encountered while getting the status of a mirror:

```
stcl> mirror wheremirrored sync://qewflx10:30018 -name */ALU \  
-status any -format list  
Connect failure. Server 'qewflx10.matrixone.net:30128' may have reset  
the connection.
```

```
succeeded 2 failed 1 {{name Top/ALU MASname {San Jose} MASurl  
sync://qewflx12.matrixone.net:30128 vaultURL  
sync://qewflx10:30018/Projects/ALU selector Trunk:Latest mirrordir  
/home/tbarbg8/Mirrors/Normal/Top/ALU/ category Production type normal  
primaryserver {} status unavailable error {Failure getting status:  
Attempting to contact mirror administration server...  
- som-E-11: Communication Connect Failure.}} {name Top/ALU MASname  
Cambridge MASurl sync://qewflx10.matrixone.net:30148 vaultURL  
sync://qewflx10:30018/Projects/ALU selector Trunk:Latest mirrordir  
/home/tbarbg8/Mirrors/Primary/Top/ALU/ category Development type  
primary primaryserver {} status good} {name Top/ALU MASname  
{North Carolina} MASurl sync://qewflx11.matrixone.net:30158 vaultURL  
sync://qewflx10:30018/Projects/ALU selector Trunk:Latest mirrordir  
/home/tbarbg8/Mirrors/Secondary/Top/ALU/ category Test type secondary  
primaryserver sync://qewflx10:30148 status good}}  
stcl>
```

In the above example, note that a pattern match was specified for the mirror name. "ALU" by itself would not match, because it is a submirror. And submirrors include the parent directory in their name.

Example Showing All Mirrors for a Specific Branch and Version

To find all mirrors that are mirroring the Latest version on any branch, for the specified RS:

```
stcl> mirror wheremirrored sync://qewflx10:30018 -selector *:Latest  
name = Top  
MASname = North Carolina  
MASurl = sync://qewflx11.matrixone.net:30158  
vaultURL = sync://qewflx10:30018/Projects/Top  
selector = Trunk:Latest  
mirrordir = /home/tbarbg8/Mirrors/Secondary/Top/  
category = Test  
type = secondary  
primaryserver = sync://qewflx10:30148  
  
name = Test  
MASname = San Jose  
MASurl = sync://qewflx12.matrixone.net:30128  
vaultURL = sync://qewflx10:30018/Projects/Test  
selector = Trunk  
mirrordir = /home/tbarbg8/Mirrors/Normal/Test/
```

```

category      = Testing
type          = normal
primaryserver =
...

```

Example Showing Finding the Primary Mirrors for a Project

To find primary mirrors that are mirroring a project's vault data:

```

stcl> mirror wheremirrored sync://qewflx10:30018/Projects/Top \
      -type primary
name          = Top
MASname       = Cambridge
MASurl        = sync://qewflx10.matrixone.net:30148
vaultURL      = sync://qewflx10:30018/Projects/Top
selector      = Trunk:Latest
mirrordir     = /home/tbarbg8/Mirrors/Primary/Top/
category      = Development
type          = primary
primaryserver =

succeeded 1 failed 0
stcl>

```

mirrorsetdefaultuser

mirrorsetdefaultuser

NAME

mirrorsetdefaultuser - Sets the default user and password using a UNIX shell script

DESCRIPTION

Use this command to set the default user and password using a UNIX shell script.

This command is subject to access controls on the server. See the ENOVIA Synchronicity Access Control Guide for details.

SYNOPSIS

```
mirrorsetdefaultuser <serverURL> <defaultUser>
```

ARGUMENTS

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- [Server URL](#)
- [Default User](#)

Server URL

`serverURL` Specifies the URL of the MAS SyncServer. Specify the URL as follows:
`sync://<host>[:<port>]` where 'sync://' is required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647).
Example: `sync://serv1.abco.com:1024`

Default User

`defaultUser` The default user to be used when one of the needed users is not specified for the 'mirror create' Tcl shell command. If a Tcl shell command can be run interactively, see 'mirror setoptions' for an alternate way to specify this user.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror reset`,
`mirror setoptions`, `mirror status`

EXAMPLES

This example sets the default user to "barbg", for the MAS SyncServer `sync://srv2.ABco.com:2647`. The user is prompted for a password.

```
% mirrorsetdefaultuser sync://srv2.ABco.com:2647 barbg
Enter the password for the default user (barbg): ****
```

```
%
```

Events and Triggers

Events

event

event Commands

NAME

event - Event commands

DESCRIPTION

These commands are used to manipulate custom events, which may be used to fire triggers.

SYNOPSIS

```
event <event_command> [<event_command_options>]
```

Usage: event [create]

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl, event create, event_prop, trigger, trigger fire, trigger list

event create**event create Command****NAME**

event create - Creates a custom event

DESCRIPTION

Creates an event which may be used in conjunction with the 'trigger list' and 'trigger fire' commands to match and execute triggers.

Events are generally created by the system, and the matching triggers

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automatically executed. This command is useful primarily to exercise triggers for testing and to extend the system by creating new kinds of events.

SYNOPSIS

```
event create <name_value_list>
```

OPTIONS

- [Name/Valueist](#)

Name/Valueist

name_value_list

A Tcl list of the form {name1 value1 name2 value2 ...} giving the names and values of all properties that define the event. Use the 'event_prop list' command to see the list of valid property names. 'event_prop create' can be used to create new event properties.

RETURN VALUE

A new event object on success, an error if an invalid property was named.

EXAMPLES

Suppose you want to test your triggers for the 'tag' command when the tag is 'GOLDEN'.

```
set event [event create {command tag tag GOLDEN}]
foreach trigger [trigger list -event $event] {
    trigger fire $trigger $event
}
```

Here's an example of creating your own event type. Suppose you want to automate some tasks whenever a piece of your design is ready for test. Further suppose that the way you know that something is ready for test is the application of the tag 'READY_FOR_TEST'.

You could create all of your triggers like this:

```
trigger create task1 \
    -require type preObject \
    -require command tag \
    -require tag READY_FOR_TEST \
```

```
-exec "task1 $objURL"
```

... repeat for each task ...

Unfortunately, if you change the way you indicate readiness for test, you will need to re-register all of your tasks. As an alternative, you could register a single trigger that generates 'readyForTest' events, like so:

```
trigger create FireTestTriggers \
  -require type preObject \
  -require command tag \
  -require tag READY_FOR_TEST \
  -tcl_script {
    set event [event create {type readyForTest objUrl $objURL}]
    foreach t [trigger list -event $event] {
      trigger fire $t $event
    }
  }
```

Now you can register each task for the 'readyForTest' event:

```
trigger create task1 -require type readyForTest -exec "task1 $objURL"
trigger create task2 -require type readyForTest -exec "task1 $objURL"
trigger create task3 -require type readyForTest -exec "task1 $objURL"
... etc. ...
```

When you change how you know you're ready for test, you simply update the 'FireTestTriggers' trigger, and the individual task triggers can remain unchanged.

SEE ALSO

stcl, event_prop, trigger, trigger fire, trigger list

event_prop

event_prop Commands

NAME

event_prop - Event_prop commands

DESCRIPTION

These commands are used to create, delete, and get information about the properties that can be associated with events.

SYNOPSIS

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```
event_prop <event_prop_command> [<event_prop_command_options>]
```

```
Usage: event_prop [create|delete|get|list]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

stcl, event create, event_prop create, event_prop delete, event_prop get, event_prop list, trigger

event_prop create

event_prop create Command

NAME

```
event_prop create - Defines a new event property
```

DESCRIPTION

Defines a new property which may then be used to create events, which may be used in turn to fire triggers. See 'event create'.

SYNOPSIS

```
event_prop create <name> [-prompt <prompt_string>] [-desc <description>]  
                        [-type <value>]
```

OPTIONS

- [-desc](#)
- [-name](#)
- [-prompt](#)
- [-type](#)

-desc

`-desc <description>`

A more verbose description of the property used to provide more extensive information than the prompt string. If not provided, the prompt string is used.

-name

`name`

The name of the new event property. Must be unique among set of known event properties.

-prompt

`-prompt <prompt_string>`

A concise description of the property used to prompt the user for values. If no prompt is provided, the property name is used instead.

-type

`-type <value>`

Defines how the value of this property is passed between DesignSync and a trigger.

Available `-type` values are:

- `in` - the value of property is passed from DesignSync to the trigger (this is the default)
- `out` - the value is passed out of trigger code to DesignSync
- `inOut` - the value is passed in and out.

SEE ALSO

`stcl`, `event create`, `event_prop delete`,
`event_prop get`, `event_prop list`, `trigger`

event_prop delete**event_prop delete Command****NAME**

`event_prop delete` - Deletes an event property definition

ENOVIA Synchronicity Command Reference - File

DESCRIPTION

Delete a previously-defined event property definition. Note that system-defined event property definitions may not be deleted.

SYNOPSIS

```
event_prop delete <name>
```

OPTIONS

- [name](#)

name

name

The name of the event property to be deleted.

SEE ALSO

stcl, event create, event_prop create, event_prop get, event_prop list, trigger

event_prop get

event_prop get Command

NAME

```
event_prop get - Gets information about an event property definition
```

DESCRIPTION

Gets the name, prompt, and description of an event property.

SYNOPSIS

```
event_prop get <name>
```

OPTIONS

- [name](#)

name

name

The name of the event property definition being queried.

RETURN VALUE

A list of names and values suitable for array construction via the Tcl array set command. The following attributes are defined:

name

The name of the event property.

prompt

The prompt string for the event property.

desc

The verbose description of the event property.

SEE ALSO

stcl, event create, event_prop create, event_prop delete, event_prop list, trigger

EXAMPLES

To list the attributes of all event properties:

```
foreach prop [event_prop list] {
    puts "$prop:"
    array set attrArray [event_prop get $prop]
    foreach attr [array names attrArray] {
        puts "\t$attr = $attrArray($attr)"
    }
}
```

event_prop list**event_prop list Command****NAME**

ENOVIA Synchronicity Command Reference - File

event_prop list - Lists known event property definitions

DESCRIPTION

Lists all event property definitions whose name match the given expression(s). If no arguments are given, all event properties are listed.

SYNOPSIS

```
event_prop list [<expr> ...]
```

OPTIONS

- [expr_option](#)

expr

This argument is a regular expression used to limit the list of event properties returned. Multiple expressions may be given. If no expressions are given, all known event properties are returned.

RETURN VALUE

A list of the names of the matching event property definitions.

SEE ALSO

stcl, event create, event_prop create, event_prop delete, event_prop get, trigger

EXAMPLES

To list all event properties:

```
event_prop list
```

To list all properties with 'obj' in their names:

```
event_prop list *obj*
```

To list all properties with 'obj' or 'URL' in their names:

```
event_prop list *obj* *URL*
```

Triggers

trigger

trigger Commands

NAME

```
trigger          - Trigger commands
```

DESCRIPTION

These commands are used to create, delete, enable, disable, fire, and get information about triggers.

SYNOPSIS

```
trigger <trigger_command> [<trigger_command_options>]
```

```
Usage: trigger [block|create|delete|disable|enable|fire|get|
               isEnabled|list|status|unblock]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

```
stcl, event, event_prop, trigger create, trigger delete,
trigger disable, trigger enable, trigger fire, trigger get,
trigger isEnabled, trigger list, trigger status
```

EXAMPLES

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See specific "trigger" commands.

trigger block

trigger block Command

NAME

trigger block - Prevents recursive trigger script activation

DESCRIPTION

This command is used within a trigger script to indicate that the script should not be invoked recursively when actions taken by the script cause the invocation of triggers.

Triggers are automatically unblocked after the body of code has been evaluated, regardless of how that code body terminates (e.g., error, return, or normal). You therefore do not need to use the 'trigger unblock' command with 'trigger block'.

Scripts that use the 'trigger block' and 'trigger unblock' construct may cause instability. Any code written in the following format:

```
trigger block
<perform some action>
trigger unblock
```

should be rewritten as:

```
trigger block {
<perform some action>
}
```

SYNOPSIS

```
trigger block
```

OPTIONS

none

RETURN VALUE

**

SEE ALSO

trigger unblock, server-side, rstcl

EXAMPLES

Suppose that `foo.tcl` is a trigger script that is executed by the server whenever anyone edits a note. Within `foo.tcl`, a call is made to the `'note setprops'` command, which changes a property of a note.

Normally this scenario would cause the script `foo.tcl` to be immediately executed again because a note has changed.

To prevent this recursive script activation, use the `trigger block` command to tell the server not to invoke the script recursively.

Following is an example of how the `trigger block` command might be used within a script (it is not a complete/functional script):

```
trigger block
note setprops $SYNC_NoteURL State closed
```

trigger create**trigger create Command****NAME**

`trigger create` - Creates or replaces a trigger

DESCRIPTION

Creates a new trigger, or replaces an existing one.

A trigger is a named action, generally a script or program, that is run by the system when a specified event occurs in the system (like a file is checked in, tagged, etc.).

Each event has several named properties associated with it that describe what the system is doing. See the help for `'event'` for more information.

By specifying the values of event properties that are required for a trigger to execute (`-require`), or will prevent a trigger from firing (`-exclude`), a trigger can be configured to execute only when desired.

ENOVIA Synchronicity Command Reference - File

SYNOPSIS

```
trigger create <name> [-exec <command_and_arguments> |  
-tcl_script <script_filename> | -tcl_file <file_name> |  
-tcl_store <file_name>] [-replace]  
[-require|exclude <name> <valueExprList> ...]
```

OPTIONS

- [-exclude](#)
- [-exec](#)
- [Name](#)
- [-replace](#)
- [-require](#)
- [-tcl_file](#)
- [-tcl_script](#)
- [-tcl_store](#)

-exclude

`-exclude <name>` Specifies that the trigger may only fire if the value of the named event property does not match one of the regular expressions in the `valueExprList`. If the named property does not exist on the event, the event may still fire the trigger if all other criteria are satisfied.

-exec

`-exec <command and_arguments>` The given command will be executed in a subprocess and passed the provided arguments.

Notes:

- o Before the command is executed, any variables in the command line will be replaced by the named event property value.
- o To include event property names as arguments: If you are using the `dss` or `dssc` command shell, precede the event property name with a dollar sign (using Tcl variable syntax). For example: `dss> -exec "xterm -e vi $objURL"` If you are using the `stcl` or `stclc` command shell, precede the event property name with a backslash and a dollar sign or put the entire argument inside curly braces. For example:
`stcl> -exec "xterm -e vi \ $objURL"`

```
stcl> -exec {xterm -e vi $objURL}
```

Name

<name>

A unique name for the trigger.

-replace

-replace Replace the existing trigger of the same name, if any. If this option is not given, and the named trigger already exists, an error is generated.

-require

-require <name> Specifies that the trigger may only fire if the value
<valueExprList> of the named event property matches one of the
 regular expressions in the valueExprList. If the
 named property does not exist on the event, the
 trigger will not fire.

Note: You cannot specify populate as a value for the command event property. Use co instead.

-tcl_file

-tcl_file The named Tcl file is loaded and executed when the
<file_name> trigger is fired. This enables users to edit the
 trigger script and have their changes take effect
 immediately without calling trigger create again.
 DesignSync looks in the current directory for the
 specified file; if the file is in another directory,
 use a full pathname for the <file_name>.

-tcl_script

-tcl_script The given script will be evaluated by the system
<script> directly.

-tcl_store

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`-tcl_store` The named Tcl file is loaded immediately and the contents stored for later execution when the trigger is fired. This option is essentially the same as the `-tcl_script` option, except that the script is read from the file instead of the command arguments. Note that `trigger create` must be called again after any changes to the trigger script, otherwise the stored version of the script will not be updated.

`<file_name>`

RETURN VALUE

If the command is successful, DesignSync returns an empty string (`""`). If the command cannot run, DesignSync throws an error message explaining the failure.

SEE ALSO

`stcl`, `event`, `event_prop`, `trigger create`, `trigger delete`, `trigger disable`, `trigger enable`, `trigger fire`, `trigger get`, `trigger isEnabled`, `trigger list`, `trigger status`

EXAMPLES

- [Example of Registering a Tcl Script with a Trigger](#)
- [Examples of Running a Program on the Selected Files with a Trigger](#)
- [Example of Registering a Tcl File with a Trigger](#)
- [Example of Using Loading and Storing a TCL File with a Trigger](#)

Example of Registering a Tcl Script with a Trigger

Use `-tcl_script` to register a Tcl script that will keep a running log file of all `.v` and `.vlog` files that have been checked in.

```
stcl> trigger create LogCheckins \  
-require objPath "*.v *.vlog" \  
-require command "ci" \  
-require type postObject \  
-tcl_script {  
    set fd [open [glob ~/checkin.log] a]  
    puts $fd "$objURL"  
    close $fd  
}
```

Examples of Running a Program on the Selected Files with a Trigger

Use `-exec` to run the program 'lint' on all `.c` files before checking them in, except for when user 'zeus' is the one doing the checkin:

```
In stcl:
  stcl> trigger create LintCheck \
    -require objPath *.c \
    -require type preObject \
    -require command ci \
    -exclude user zeus \
    -exec "lint \${objPath}"
```

Note: There are alternative formats for how you can specify command using the `-exec` option. In `stcl` you can also use:

```
-exec {lint ${objPath}}
```

In `dss` mode, you can use:

```
-exec "lint ${objPath}"
```

Example of Registering a Tcl File with a Trigger

Use `-tcl_file` to register a Tcl file to be executed after every 'tag' command that uses the tag 'GOLDEN':

```
stcl> trigger create GoldenTag \
  -require command tag \
  -require tag GOLDEN \
  -require type postCommand \
  -tcl_file goldenTag.tcl
```

Note: Unlike when `tcl_store` is used, the tcl file is not processed until the trigger runs.

Example of Using Loading and Storing a TCL File with a Trigger

Use `-tcl_store` to immediately read and store the Tcl contained within a file for later execution before each checkin command:

```
stcl> trigger create beforeCheckin \
  -require command ci \
  -require type preCommand \
  -tcl_store preCheckin.tcl
```

trigger delete

trigger delete Command

NAME

```
trigger delete      - Deletes an existing trigger
```

DESCRIPTION

ENOVIA Synchronicity Command Reference - File

Deletes an existing trigger.

SYNOPSIS

```
trigger delete <name>
```

OPTIONS

- [Name](#)

Name

name The name of the trigger to be deleted.

RETURN VALUE

1 on success, error if the trigger does not exist.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list, trigger status

EXAMPLES

Create a trigger named 'foo', then delete it.

```
trigger create foo -tcl_script { puts "foo" }
trigger delete foo
```

trigger disable

trigger disable Command

NAME

trigger disable - Prevents a trigger from firing

DESCRIPTION

The named trigger is marked as disabled, and will not be fired by the system. It can be subsequently re-enabled by using the 'trigger enable' command.

Use 'trigger status' or 'trigger isEnabled' to determine whether or not a trigger is currently disabled.

SYNOPSIS

```
trigger disable <name>
```

OPTIONS

- [Name](#)

Name

name The name of the trigger to be disabled.

RETURN VALUE

1 on success, error if the trigger does not exist.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list, trigger status

EXAMPLES

Create a trigger named 'foo', then disable it.

```
trigger create foo -tcl_script { puts "foo" }
trigger disable foo
```

The stcl client returns:

trigger enable

trigger enable Command

NAME

ENOVIA Synchronicity Command Reference - File

trigger enable - Makes a disabled trigger active again

DESCRIPTION

The named trigger is marked as enabled, and will be fired by the system if an event matching its firing criteria is created.

Use 'trigger status' or 'trigger isEnabled' to determine whether or not a trigger is currently enabled.

SYNOPSIS

```
trigger enable <name>
```

OPTIONS

- [Name](#)

Name

name The name of the trigger to be enabled.

RETURN VALUE

1 on success, error if the trigger does not exist.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list, trigger status

EXAMPLES

Create a trigger named 'foo', and disable it.

```
trigger create foo -tcl_script { puts "foo" }
trigger disable foo
```

The stcl client returns:

```
1
```

Re-enable the trigger named foo.

```
trigger enable foo
```

The stcl client returns:

```
# 1
```

trigger fire

trigger fire Command

NAME

```
trigger fire          - Executes a trigger
```

DESCRIPTION

Execute the named trigger. Note that even disabled triggers may be executed by the 'trigger fire' command; this is useful to test triggers before enabling them.

SYNOPSIS

```
trigger fire <name> <event>
```

OPTIONS

- [Event](#)
- [Name](#)

Event

```
event
```

An event returned by the 'event create' command.

Name

```
name          The name of the trigger to be executed.
```

RETURN VALUE

ENOVIA Synchronicity Command Reference - File

1 if the trigger succeeded, 0 if it returned an error.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list, trigger status

EXAMPLES

Create a test trigger named 'echo' intended to output the names of all non-filter events as they execute, then test it by creating a simple event and calling trigger fire.

```
trigger create echo \  
    -exclude type *Filter \  
    -tcl_script {  
        puts "$trigger"  
    }  
  
# create an event with the single property 'type' set to  
# 'testEvent'  
set event [event create {type testEvent}]  
  
# fire the trigger  
trigger fire echo $event
```

trigger get

trigger get Command

NAME

```
trigger get          - Gets information about a trigger
```

DESCRIPTION

Returns a Tcl list of the names and values of various attributes of the named trigger. This command is primarily useful for use in Tcl scripts that manage triggers. For a user-friendly display of trigger information, use the 'trigger status' command.

SYNOPSIS

```
trigger get <name>
```

OPTIONS

- [Name](#)

Name

name The name of the trigger to be queried.

RETURN VALUE

A Tcl list of name/value pairs of the form:

```
{name1 value1 name2 value2 ...}
```

This list can be converted into an array using 'array set'.

The following attributes will be returned, as appropriate:

```
name            - name of the trigger
type            - exec, tcl_script, tcl_file, or tcl_store
fileName        - name of file for tcl_file or tcl_store triggers
commandLine    - command line for exec triggers
tclScript       - the script for tcl_script or tcl_store triggers
reqProps       - required properties list
exclProps      - exclude properties list
```

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete,
trigger disable, trigger enable, trigger fire, trigger get,
trigger isEnabled, trigger list, trigger status

EXAMPLES

Print the name and type of all known triggers:

```
foreach trigger [trigger list -all] {
    array set props [trigger get $trigger]
    puts "Trigger $props(name)"
    puts "  type = $props(type)"
}
```

trigger isEnabled**trigger isEnabled Command****NAME**

trigger isEnabled - Determines whether or not a trigger is enabled

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DESCRIPTION

Queries the status of the named trigger, returning a 1 if the trigger is enabled.

SYNOPSIS

```
trigger isEnabled <name>
```

OPTIONS

- [Name](#)

Name

name The name of the trigger to be queried.

RETURN VALUE

1 if enabled, 0 if disabled, error if the trigger does not exist.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list, trigger status

EXAMPLES

See if the trigger 'LintCheck' is enabled:

```
if [trigger isEnabled LintCheck] {
    puts "Enabled"
} else {
    puts "Disabled"
}
```

trigger list

trigger list Command

NAME

trigger list - Gets a list of triggers

DESCRIPTION

Lists triggers that match the given criteria. If no arguments are given, all triggers are listed.

SYNOPSIS

```
trigger list [-all | -disabled | -enabled] [-event event]
            [name_expr ...]
```

OPTIONS

- [-all](#)
- [-disabled](#)
- [-enabled](#)
- [-event](#)
- [Name Expression](#)

-all

-all If given, lists all triggers whether they are enabled or disabled.

This option is mutually exclusive with -disabled and -enabled.

-disabled

-disabled If given, lists only trigger that have been disabled.

This option is mutually exclusive with -all and -enabled.

-enabled

-enabled If given, lists only triggers that have not been disabled (Default.)

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This option is mutually exclusive with `-all` and `-disabled`.

`-event`

`-event event` The event given is an object returned by the 'event create' function. If given, only triggers which would be fired for the given event are listed. This parameter is typically used without any other flags to determine the set of triggers to fire for an event.

Name Expression

`name_expr ...` Each `name_expr` gives a regular expression which is matched against the set of all known triggers. Only triggers with matching names are listed.

RETURN VALUE

A list of matching triggers.

SEE ALSO

`stcl`, `event`, `event_prop`, `trigger create`, `trigger delete`, `trigger disable`, `trigger enable`, `trigger fire`, `trigger get`, `trigger isEnabled`, `trigger list`, `trigger status`

EXAMPLES

- [Example of Listing All Active Triggers](#)
- [Example of Listing All Disabled Triggers](#)
- [Example of Listing All Triggers that Match a Wildcard List](#)
- [Example of Using Trigger List in a Script](#)

Example of Listing All Active Triggers

To list all active (non-disabled) triggers:

```
trigger list
```

Example of Listing All Disabled Triggers

To get a list of all triggers that are currently disabled:

```
trigger list -disabled
```

Example of Listing All Triggers that Match a Wildcard List

List all enabled and disabled triggers that start with the letter 'a' or the letter 'c':

```
trigger list -all a* c*
```

Example of Using Trigger List in a Script

Here's how this function could be used in conjunction with 'trigger fire' to run all triggers that match an event, exiting the loop if any error are encountered.

```
# first create an event - pretend we are the ci command
set event(type) preCommand
set event(command) ci
set event(objPath) foo.v
set e [event create [array get event]]

# use trigger list to loop all trigger that match our event
foreach trigger [trigger list -event $e] {
    if ![trigger fire $trigger $e] {
        error "trigger $trigger failed"
    }
}
```

trigger status

trigger status Command

NAME

```
trigger status      - Shows the status of triggers
```

DESCRIPTION

Prints a user-friendly list of triggers, whether or not they are enabled, what type they are, and more information based on their type.

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SYNOPSIS

```
trigger status [<name_expr> ...]
```

OPTIONS

- [Name Expression](#)

Name Expression

name_expr ... Each name_expr gives a regular expression which is matched against the set of all known triggers. Only triggers with matching names are listed. If no expressions are given, all known triggers are listed.

SEE ALSO

stcl, event, event_prop, trigger create, trigger delete, trigger disable, trigger enable, trigger fire, trigger get, trigger isEnabled, trigger list

EXAMPLES

- [Example of Listing Information about All Triggers](#)
- [Example of Listing Information for Triggers that Match a Wildcard List](#)
- [Example of Listing Trigger Information for a Specific Trigger](#)

Example of Listing Information about All Triggers

To list information about all triggers:

```
trigger status
```

Example of Listing Information for Triggers that Match a Wildcard List

List information about all triggers with names that start with the letter 'a' or the letter 'c':

```
trigger status a* c*
```

Example of Listing Trigger Information for a Specific Trigger

List information about a trigger named 'foo':

```
trigger status foo
```

trigger unblock

trigger unblock Command

NAME

```
trigger unblock      - Deprecated command
```

DESCRIPTION

This command was used to allow a trigger script to be recursively executed when it created events for which it was a registered trigger. This command is deprecated because this behavior is the default for trigger scripts.

This command was sometimes used to undo the effect of a previously executed 'trigger block' command. Under the new architecture, scripts that use the 'trigger block' and 'trigger unblock' construct may cause instability. Any code written in the following format:

```
trigger block
<perform some action>
trigger unblock
```

should be rewritten as:

```
trigger block {
<perform some action>
}
```

SYNOPSIS

```
trigger unblock
```

OPTIONS

none

RETURN VALUE

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none

SEE ALSO

trigger block, server-side, rstcl

Registry File Management

SyncAdmin

SyncAdmin

NAME

SyncAdmin - Synchronicity Administrator tool

DESCRIPTION

Synchronicity's SyncAdmin tool is a graphical user interface that lets system administrators, project leaders, and users configure DesignSync clients (command-line and graphical) for site, project, or individual use.

You execute SyncAdmin from your operating system shell, not from a Synchronicity client shell (dss/dssc/stcl/stclc). On Windows platforms, you invoke SyncAdmin from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <version>->SyncAdmin
```

See SyncAdmin help for details on SyncAdmin. From the GUI, click the Help button on any SyncAdmin page.

SYNOPSIS

```
SyncAdmin [-file <filename> | -project | -site | -user]
```

OPTIONS

- [-file](#)
- [-project](#)
- [-site](#)
- [-user](#)

-file

`-file <filename>` Edit the specified registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).

-project

`-project` Edit the project registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).

-site

`-site` Edit the site registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).

-user

`-user` Edit the user registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).

RETURN VALUE

none

SEE ALSO

DesSync

EXAMPLES

This example invokes SyncAdmin:
`% SyncAdmin`

This example invokes SyncAdmin, in background mode, to edit the user registry:
`% SyncAdmin -user &`

sregistry

sregistry Commands

NAME

sregistry - SyncAdmin file registry commands

DESCRIPTION

The sregistry commands allow you to view and edit the Synchronicity Administrator registries from the command line.

SYNOPSIS

```
sregistry <sregistry_command> [<sregistry_command_options>]
```

Usage: sregistry [delete|get|keys|reset|scope|set|source|values]

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

sregistry delete, sregistry get, sregistry keys, sregistry reset, sregistry set, sregistry scope, sregistry source, sregistry values

EXAMPLES

See specific "sregistry" commands.

sregistry delete

sregistry delete Command

NAME

```
sregistry delete    - Delete registry key or value
```

DESCRIPTION

This command deletes keys and values associated with selected SyncAdmin registry files. This command will not delete read-only registry files.

After you run the "sregistry delete" command, be sure to run the "sregistry reset" command to update the registry file. You can do this from the client for client registry files, or in a server-side script for the server's registry files. You can also do this by restarting the client or server applications.

SYNOPSIS

Client-Side Invocation

```
sregistry delete [-currentuser | -localmachine | -synch ]
                 [-file <filename> | -project | -site | -user]
                 <keyPath> <value>
```

Server-Side Invocation

```
sregistry delete [-currentuser | -localmachine | -synch ]
                 [-file <filename> | -port | -site]
                 <keyPath> <value>
```

OPTIONS

- [-currentuser](#)
- [-file](#)
- [keyPath](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-user](#)
- [value](#)

-currentuser

-currentuser Directs the command to HKEY_CURRENT_USER by adding

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a prefix to the key 'KeyPath' with
"HKEY_CURRENT_USER\Software\Synchronicity"

This option is mutually exclusive with
-localmachine and -synch.

-file

-file <filename> Executes the command using only the registry file 'Filename'. No other files, including SyncRegistry.reg, are read. You must have write permission for the specified file.

When invoked from the client-side, this option is mutually exclusive with -project, -site, and -user. When invoked from a server-side script, this option is mutually exclusive with -port, and -site.

keyPath

<keyPath> Specifies the key or partial key where the registry value lives. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the KeyPath must be enclosed in double quotes and the path elements delimited with two backslashes:

```
"General\\Options"
```

or, the KeyPath must be enclosed in braces and the path elements delimited with one backslash:
{General\Options}.

In a dssc shell, the KeyPath must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the KeyPath or with the -currentuser or -localmachine options, HKEY_CURRENT_USER is searched.

-localmachine

-localmachine Directs the command to HKEY_LOCAL_MACHINE by adding a prefix to the key 'KeyPath' with "HKEY_LOCAL_MACHINE\Software\Synchronicity"

This option is mutually exclusive with

-currentuser and -synch.

-port

-port This is the default context and executes the command using the registry context: PortRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. The -port option is only valid when called from a server side script.

This option is mutually exclusive with -file and -site.

-project

-project Executes the command using the registry context: ProjectRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. If the project registry is not available because \$SYNC_PROJECT_CFGDIR is not defined, an error will be generated. The -project option is not allowed from a server side script as the project registry is only valid from a client tool. Requires write permission to ProjectRegistry.reg.

This option is mutually exclusive with -file, -site, -user.

-site

-site Executes the command using the registry context: SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. Requires write permission to SiteRegistry.reg.

When invoked from the client-side, this option is mutually exclusive with -file, -project, and -user. When invoked from a server-side script, this option is mutually exclusive with -file, and -port.

-synch

-synch Directs the command to Software\Synchronicity by adding a prefix to the key 'KeyPath' with "Software\Synchronicity"

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This option is mutually exclusive with
-currentuser and -localmachine.

-user

-user This is the default context and executes the
 command using the registry context:
 UserRegistry.reg, ProjectRegistry.reg,
 SiteRegistry.reg, EntRegistry.reg,
 SyncRegistry.reg. The -user option is valid only
 when called from a client tool. Requires write
 permission to UserRegistry.reg.

 This option is mutually exclusive with -file,
 -project, and -site.

value

<value> The name of the registry value to retrieve the
 data from.

RETURN VALUE

Returns an empty string on success. Deleting a value that does not exist will return an empty string. Deleting a key where the leaf name does not exist will return an empty string.

If a Value is not specified, the key and all its values are removed. If the key contains sub-keys, neither the key nor its values are removed. You can not remove a key that contains subkeys.

The delete command can only delete keys and values that are in the registry file that is open for write (the first file listed in the registry context). If you try to delete a value that exists in one of the read-only registry files, an error will be generated. If you try to delete a key and the key and all its values exist in read-only registry files, an error will be generated. If some of the key's values are in the writable registry file, only those values will be deleted and the command will return OK. The key and the values in the read-only registry files will still remain.

SEE ALSO

sregistry get, sregistry set, sregistry keys, sregistry reset,
sregistry source, sregistry values

EXAMPLES

Continuing from the 'sregistry set' example, which showed a user setting their own default fetch state, overriding the site-wide "share" preference.

```
stcl> sregistry set -currentuser -user "General\\Options" \
stcl> DefaultFetchType get
get
stcl>
```

The user can remove their default fetch state setting:

```
stcl> sregistry delete -currentuser -user "General\\Options"
DefaultFetchType
stcl>
```

sregistry get**sregistry get Command****NAME**

```
sregistry get          - Get a registry value
```

DESCRIPTION

Retrives the value of a registry key from the specified registry. The complete list of available registry keys is contained in the ENOVIA Synchronicity DesignSync Administrator's Guide.

SYNOPSIS

Client-side Invocation

```
sregistry get [-base dec | hex]
               [-currentuser | -localmachine | -synch]
               [-default <dataPath>] [-format text | list]
               [-user | -project | -site | -file <filename>]
               <keyPath> <value>
```

Server-side Invocation

```
sregistry get [-base dec | hex]
               [-currentuser | -localmachine | -synch]
               [-default <dataPath>] [-format text | list]
               [-port | -site | -file <filename>] <keyPath> <value>
```

ENOVIA Synchronicity Command Reference - File

OPTIONS

- [-base](#)
- [-currentuser](#)
- [-default](#)
- [-file](#)
- [-format](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-user](#)
- [Key Path](#)
- [Value](#)

-base

-base Specifies how to represent numerical data. The default is dec (decimal). The -base option has no effect if the data is of type string. If the base is selected as dec, the data will be represented as a signed integer. If the base is selected as hex (hexadecimal), the data will be output in unsigned hexadecimal format starting with 0x and showing all four bytes. For example, the same registry value might output 0xffffffff in hex base and -1 in dec base.

-currentuser

-currentuser Directs the command to HKEY_CURRENT_USER by adding a prefix to the key 'KeyPath' with "HKEY_CURRENT_USER\Software\Synchronicity"

This option is mutually exclusive with -localmachine and -synch.

-default

-default <dataPath> If a default value, <dataPath>, is specified, the command will return DefaultData if the value was not found in the registry. If a default is not specified and the value is not found in the registry, an error is returned.

-file

-file <filename> Executes the command using only the registry file <filename>. No other files, including SyncRegistry.reg, are read. You must have write permission for the specified file.

When invoked from the client-side, this option is mutually exclusive with `-project`, `-site`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-port`, `-site`, and `-user`.

-format

-format Specifies the way the output will be returned. The default is text. The format text will return the data from the registry as a string. If the registry value is a dword, the return value is a string representing the dword. The format list will return a tcl list of name value pairs. The following named values will display:

data: The data requested from the registry with the `get` command.

type: The type of the data that was returned from the registry. The type will be either number or string. If the value was not found in the registry, and the default data was returned, the type will be set to string.

source: A string indicating which registry file the value was found in. The string will be one of the following: `Current`, `Default`, `Override`, or `None`. See the `sregistry` source command for more information.

root: A string containing the name of the root (hive) where the value was found. The string will be either `"HKEY_CURRENT_USER"` or `"HKEY_LOCAL_MACHINE"`. If the value was not found in the registry, and the default data was returned, this value will be set to `"HKEY_CURRENT_USER"`.

-localmachine

-localmachine Directs the command to `HKEY_LOCAL_MACHINE` by adding a prefix to the key 'KeyPath' with `"HKEY_LOCAL_MACHINE\Software\Synchronicity"`

This option is mutually exclusive with

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-currentuser and -sync.

-port

-port This is the default context and executes the command using the registry context: PortRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. The -port option is only valid when called from a server side script.

This option is mutually exclusive with -file and -site.

-project

-project Executes the command using the registry context: ProjectRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. If the project registry is not available because \$SYNC_PROJECT_CFGDIR is not defined, an error will be generated. The -project option is not allowed from a server side script as the project registry is only valid from a client tool. Requires write permission to ProjectRegistry.reg.

This option is mutually exclusive with -file, -site, and -user.

-site

-site Executes the command using the registry context: SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. Requires write permission to SiteRegistry.reg.

When invoked from the client-side, this option is mutually exclusive with -file, -project, and -user. When invoked from a server-side script, this option is mutually exclusive with -file, -port, and -user.

-synch

-synch Directs the command to Software\Synchronicity by adding a prefix to the key 'KeyPath' with "Software\Synchronicity"

This option is mutually exclusive with -currentuser and -localmachine.

-user

-user This is the default context and executes the command using the registry context: UserRegistry.reg, ProjectRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. The -user option is only valid when called from a client tool. Requires write permission to UserRegistry.reg.

This option is mutually exclusive with -file, -project, and -site.

Key Path

<keyPath> Specifies the key or partial key where the registry value lives. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the key path must be enclosed in double quotes and the path elements delimited with two backslashes:

```
"General\\Options"
```

or, the key path must be enclosed in braces and the path elements delimited with one backslash:

```
{General\Options}.
```

In a dssc shell, the key path must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the key path or with the -currentuser or -localmachine options, HKEY_CURRENT_USER is searched first for the value, and if it is not found, HKEY_LOCAL_MACHINE is searched.

Value

<value> The name of the registry value to retrieve the data from.

SEE ALSO

sregistry set, sregistry keys, sregistry values, sregistry delete, sregistry source, sregistry reset

EXAMPLES

Continuing from the 'sregistry values' example, which showed:

```
stcl> sregistry values -currentuser -site "General\\Options"  
DefaultFetchType  
stcl>
```

To find the site-wide default fetch state value:

```
stcl> sregistry get -currentuser -site "General\\Options" DefaultFetchType  
share  
stcl>
```

See the 'sregistry set' example for how a user would set their own default fetch state, overriding the site default value.

sregistry keys

sregistry keys Command

NAME

sregistry keys - Displays sub-keys in registry value

DESCRIPTION

This command displays a list of the sub-keys associated with a specified KeyPath.

SYNOPSIS

Client-side invocation:

```
sregistry keys [-currentuser | -localmachine | -synch ]  
               [-user | -project | -site | -file <filename>]  
               [-format text | list] <KeyPath>
```

Server-side invocation:

```
sregistry keys [-currentuser | -localmachine | -synch ]  
               [-format text | list]  
               [-port | -site | -file <filename>] <KeyPath>
```

OPTIONS

- [-currentuser](#)
- [-file](#)
- [-format](#)
- [Key Path](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-user](#)

-currentuser

`-currentuser` Adds the following prefix to the key `<KeyPath>`:
`"HKEY_CURRENT_USER\Software\Synchronicity"`

This option is mutually exclusive with `-localmachine`, and `-synch`.

-file

`-file <filename>` Executes the command using only the registry file `<filename>`. No other files are read, including `SyncRegistry.reg`. You must have write permission for the specified file.

When invoked from the client-side, this option is mutually exclusive with `-project`, `-site`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-port`, and `-site`.

-format

`-format` Specifies the way the output will be returned. The default is text. The format text will return each key on a new line. The format list will list the keys in a tcl list.

Key Path

`<KeyPath>` Specifies the top-level key path or partial key path. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the `KeyPath` must be enclosed in double quotes and the path elements delimited with

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two backslashes:

```
"General\\Options"
```

or, the KeyPath must be enclosed in braces and the path elements delimited with one backslash:

```
{General\Options}.
```

In a dssc shell, the KeyPath must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the KeyPath or with the `-currentuser` or `-localmachine` options, `HKEY_CURRENT_USER` is searched.

-localmachine

`-localmachine`

Adds the following prefix to the key <KeyPath>:
"HKEY_LOCAL_MACHINE\Software\Synchronicity"

This option is mutually exclusive with `-currentuser` and `-synch`.

-port

`-port`

Executes the command using this registry hierarchy: `PortRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. The `-port` option is the default. This option is only valid when called from a server-side script.

This operation is mutually exclusive with `-file`, and `-site`.

-project

`-project`

Executes the command using this registry hierarchy: `ProjectRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. If the project registry is not available because `$SYNC_PROJECT_CFGDIR` is not defined, an error will be generated. The `-project` option is not allowed from a server side script as the project registry is only valid from a client tool.

This operation is mutually exclusive with `-file`, `-site`, and `-user`.

-site

-site Executes the command using this registry hierarchy:
SiteRegistry.reg, EntRegistry.reg,
SyncRegistry.reg.

When invoked from the client-side, this option is mutually exclusive with `-file`, `-project`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-file`, and `-port`.

-synch

-synch Adds the following prefix to the key <KeyPath>:
"Software\Synchronicity"

This option is mutually exclusive with `-currentuser` and `-localmachine`.

-user

-user Executes the command using this registry hierarchy:
UserRegistry.reg, ProjectRegistry.reg,
SiteRegistry.reg, EntRegistry.reg,
SyncRegistry.reg. The `-user` option is the default. This option is valid only when called from a client tool.

This operation is mutually exclusive with `-file`, `-project`, and `-site`.

RETURN VALUE

A list of the sub-keys of KeyPath. If no subkeys exist, then an empty list is returned.

SEE ALSO

`sregistry get`, `sregistry set`, `sregistry values`, `sregistry delete`,
`sregistry source`, `sregistry reset`

EXAMPLES

The example below finds the site-wide General registry keys. When an

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empty string is returned, that means there are no sub-keys below the specified KeyPath.

```
stcl> sregistry keys -currentuser -site General
ExtensionTypes
CmdTable
Options
stcl> sregistry keys -currentuser -site "General\\ExtensionTypes"
stcl> sregistry keys -currentuser -site "General\\Options"
stcl> sregistry keys -currentuser -site "General\\CmdTable"
DefaultLogDir
stcl>
```

The 'sregistry values' example shows how to use the above result.

sregistry reset

sregistry reset Command

NAME

```
sregistry reset      - Forces a refresh of all registry files
```

DESCRIPTION

This command forces the re-reading of all registry files, including the read-only files. It returns an empty string upon successful completion. It is important to note that reloading all the registry files may not be sufficient to cause Synchronicity tools (client and server) to immediately see the new settings. This is because some values are cached by the programs. To assure all new values are being read by an application, the application should be restarted.

SYNOPSIS

```
sregistry reset
```

OPTIONS

None.

SEE ALSO

sregistry get, sregistry set, sregistry keys, sregistry values
sregistry source, sregistry delete

sregistry scope

sregistry scope Command

NAME

sregistry scope - Temporarily changes which registry files are active

DESCRIPTION

Used only with the command defaults system, to temporarily change which registry files are active. By default, "defaults set" stores default values in the user's registry file. Use "sregistry scope" to store default values in other registry files that are sourced by the DesignSync client on startup, such as the installation's site registry file.

Within a DesignSync client session, run "defaults refresh" to read all default values from the client registry files. See the DesignSync Data Manager User's Guide topic "Registry Files" for further information.

To prevent users' saved default values from overriding site or project default values, specify the "-nooverride" option to the "defaults set" command. See the "defaults set" command documentation for details.

SYNOPSIS

```
sregistry scope [-project | -site]
                {defaults set -- <command> <option> [<option> ...]}
```

OPTIONS

- [-project](#)
- [-site](#)

-project

-project If <SYNC_PROJECT_CFGDIR> is defined, store default values in the <SYNC_PROJECT_CFGDIR>/ProjectRegistry.reg file. Requires write permission to the ProjectRegistry.reg file.

-site

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`-site` Store default values in the site-wide registry file, `<SYNC_SITE_CNFG_DIR>/SiteRegistry.reg`. If not defined, `<SYNC_SITE_CNFG_DIR>` resolves to `<SYNC_SITE_CUSTOM>/config` which, in turn, resolves to `<SYNC_CUSTOM_DIR>/site/config`. Requires write permission to the `SiteRegistry.reg` file.

RETURN VALUE

The result of the expression given to the "sregistry scope" command.

SEE ALSO

`defaults refresh`, `defaults set`, `defaults show`, `command defaults`

EXAMPLES

As the installation owner, to set a default report mode for the "ls" command, for all users at your site:

```
stcl> sregistry scope -site {defaults set -- ls -report verbose}
```

The "defaults show" command confirms that the "-report verbose" default value for the "ls" command is set in the site registry file.

```
stcl> defaults show -source ls
{ls temporary {} project {} project_nooverrule {} user {} user_nooverrule
{} site {-report verbose} site_nooverrule {} enterprise {}
enterprise_nooverrule {}}
stcl>
```

sregistry set

sregistry set Command

NAME

`sregistry set` - Sets a registry value

DESCRIPTION

The 'sregistry set' and related 'sregistry' commands allow you to edit the Synchronicity Administrator registries from the command line. When you enter the command, you choose the client registry

or the server registry. You also need to specify the key or where the registry value lives (HKEY_CURRENT_USER or HKEY_LOCAL_MACHINE). The last part of the command identifies the KeyPath (SyncAdmin settings tree) and the key name you want to retrieve.

After you run the "sregistry delete" command, be sure to run the "sregistry reset" command to update the registry file. You can do this from the client for client registry files, or in a server-side script for the server's registry files. You can also do this by restarting the client or server applications.

SYNOPSIS

Client-Side Invocation

```
sregistry set [-currentuser | -localmachine | -synch ]
              [-file <filename> | -project | -site | -user]
              <keyPath> [-type number|string] <value> [--] Data
```

Server-Side Invocation

```
sregistry set [-currentuser | -localmachine | -synch ]
              [-file <filename> | -site | -port]
              <keyPath> [-type number|string] <value> [--] Data
```

ARGUMENTS

- [Data](#)

Data

Data Specifies the data to write into the registry. Data must match the type specified with -type. A number can be an integer (signed or unsigned) or a hexadecimal value. Hexadecimal numbers must be prefixed with '0x' or '0X' For Example: 0xFF2A.

OPTIONS

- [-currentuser](#)
- [-file](#)
- [keypath](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-type](#)
- [-user](#)

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- [Value](#)
- [==](#)

-currentuser

-currentuser Directs the command to HKEY_CURRENT_USER by adding a prefix to the key 'KeyPath' with "HKEY_CURRENT_USER\Software\Synchronicity"

This option is mutually exclusive with **-localmachine** and **-synch**.

-file

-file <filename> Executes the command using only the registry file 'Filename'. No other files, including SyncRegistry.reg, are read. You must have write permission for the specified file.

When invoked from the client-side, this option is mutually exclusive with **-project**, **-site**, and **-user**. When invoked from a server-side script, this option is mutually exclusive with **-port**, and **-site**.

keypath

<keyPath> Specifies the key or partial key where the registry value lives. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the key path must be enclosed in double quotes and the path elements delimited with two backslashes:

```
"General\\Options"
```

or, the key path must be enclosed in braces and the path elements delimited with one backslash:

```
{General\Options}.
```

In a dssc shell, the key path must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the key path or with the **-currentuser** or **-localmachine** options, HKEY_CURRENT_USER is used.

-localmachine

- localmachine** Directs the command to HKEY_LOCAL_MACHINE by adding a prefix to the key 'KeyPath' with "HKEY_LOCAL_MACHINE\Software\Synchronicity"
- This option is mutually exclusive with `-currentuser` and `-synch`.
- port**
- `-port` This is the default context and executes the command using the registry context: `PortRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. The `-port` option is only valid when called from a server-side script.
- This option is mutually exclusive with `-file` and `-site`.
- project**
- `-project` Executes the command using the registry context: `ProjectRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. If the project registry is not available because `$SYNC_PROJECT_CFGDIR` is not defined, an error will be generated. The `-project` option is not allowed from a server side script as the project registry is only valid from a client tool. Requires write permission to `ProjectRegistry.reg`.
- This option is mutually exclusive with `-file`, `-site`, and `-user`.
- site**
- `-site` Executes the command using the registry context: `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. Requires write permission to configuration directory for the site (`$SYNC_SITE_CNFG_DIR`) and the `SiteRegistry.reg` file.
- When invoked from the client-side, this option is mutually exclusive with `-file`, `-project`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-file`, and `-port`.
- synch**

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| | |
|---------------|---|
| -synch | Directs the command to Software\Synchronicity by adding a prefix to the key 'KeyPath' with "Software\Synchronicity"

This option is mutually exclusive with -currentuser and -localmachine . |
| -type | |
| -type | Specifies the type of data to store in the registry. Can be either string or number with string being the default. |
| -user | |
| -user | This is the default context and executes the command using the registry context: UserRegistry.reg, ProjectRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. The -user option is only valid when called from a client tool. Requires write permission to UserRegistry.reg.

This option is mutually exclusive with -file , -project , and -site . |
| Value | |
| <value> | The name of the registry value to retrieve the data from. |
| -- | |
| -- | Specifies that there are no more switches to follow on the command line. |

RETURN VALUE

The value of Data is returned.

SEE ALSO

sregistry get, sregistry keys, sregistry values, sregistry delete, sregistry source, sregistry reset

EXAMPLES

Continuing from the 'sregistry get' example, which showed the site-wide default fetch state:

```
stcl> sregistry get -currentuser -site "General\\Options" DefaultFetchType
share
stcl>
```

A user can set their own default fetch state, overriding the site-wide preference.

```
stcl> sregistry set -currentuser -user "General\\Options" \
stcl> DefaultFetchType get
get
stcl>
```

See the 'sregistry source' example for how to determine which registry file's default fetch state value is being used.

sregistry source**sregistry source Command****NAME**

```
sregistry source    - Displays the source of a registry value
```

DESCRIPTION

This command displays the source (registry file) of a SyncAdmin registry value.

SYNOPSIS

Client-Side Invocation

```
sregistry source [-currentuser | -localmachine | -synch]
                 [-file <filename> | -project | -site | -user]
                 <keyPath> <value>
```

Server-Side Invocation

```
sregistry source [-currentuser | -localmachine | -synch]
                 [-file <filename> | -port | -site]
                 <keyPath> <value>
```

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OPTIONS

- [-currentuser](#)
- [-file](#)
- [KeyPath](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-user](#)
- [value](#)

-currentuser

`-currentuser` Directs the command to HKEY_CURRENT_USER by adding a prefix to the key 'KeyPath' with "HKEY_CURRENT_USER\Software\Synchronicity"

This option is mutually exclusive with `-localmachine` and `-synch`.

-file

`-file <filename>` Executes the command using only the registry file 'Filename'. No other files, including SyncRegistry.reg, are read. You must have write permission for the specified file.

When invoked from the client-side, this option is mutually exclusive with `-project`, `-site`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-port`, and `-site`.

KeyPath

`<keyPath>` Specifies the key or partial key where the registry value lives. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the key path must be enclosed in double quotes and the path elements delimited with two backslashes:

```
"General\\Options"
```

or, the key path must be enclosed in braces and the path elements delimited with one backslash:

```
{General\Options}.
```

In a dssc shell, the key path must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the key path or with the `-currentuser` or `-localmachine` options, `HKEY_CURRENT_USER` is searched.

-localmachine

`-localmachine` Directs the command to `HKEY_LOCAL_MACHINE` by adding a prefix to the key 'KeyPath' with `"HKEY_LOCAL_MACHINE\Software\Synchronicity"`

This option is mutually exclusive with `-currentuser` and `-synch`.

-port

`-port` This is the default context and executes the command using the registry context: `PortRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. The `-port` option is only valid when called from a server-side script.

This option is mutually exclusive with `-file` and `-site`.

-project

`-project` Executes the command using the registry context: `ProjectRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. If the project registry is not available because `$SYNC_PROJECT_CFGDIR` is not defined, an error will be generated. The `-project` option is not allowed from a server side script as the project registry is only valid from a client tool. Requires write permission to `ProjectRegistry.reg`.

This option is mutually exclusive with `-file`, `-site`, and `-user`.

-site

`-site` Executes the command using the registry context: `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. Requires write permission to `SiteRegistry.reg`.

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When invoked from the client-side, this option is mutually exclusive with `-file`, `-project`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-file`, and `-port`.

-synch

`-synch`

Directs the command to `Software\Synchronicity` by adding a prefix to the key 'KeyPath' with `"Software\Synchronicity"`

This option is mutually exclusive with `-currentuser` and `-synch`.

-user

`-user`

This is the default context and executes the command using the registry context: `UserRegistry.reg`, `ProjectRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. The `-user` option is only valid when called from a client tool. Requires write permission to `UserRegistry.reg`.

This option is mutually exclusive with `-file`, `-project`, and `-site`.

value

`<value>`

The name of the registry value to retrieve the data from.

RETURN VALUE

`Current|Default|Override|None`

Returns 'Current' if the value comes from the registry file currently open for write.

Returns 'Default' if the value comes from a registry with lower precedence than the registry file currently open for write.

Returns 'Override' if the value comes from a registry with higher precedence than the registry file currently open for write.

Returns 'None' if the value is not found in the registry.

SEE ALSO

```
sregistry get, sregistry set, sregistry keys, sregistry reset
sregistry delete, sregistry values
```

EXAMPLES

Continuing from the 'sregistry set' example, which showed a user setting their own default fetch state, overriding the site-wide "share" preference.

```
stcl> sregistry set -currentuser -user "General\\Options" \
stcl> DefaultFetchType get
get
stcl>
```

To determine which registry file (the site-wide registry file or the user's registry file) is being sourced for the default fetch state value:

```
stcl> sregistry source -currentuser -user "General\\Options"
DefaultFetchType
Current
stcl>
```

This shows that the default fetch state value in the user's registry file (the registry file currently open for writing by the DesignSync client) is in use.

sregistry values

sregistry values Command

NAME

```
sregistry values - Displays the available registry values
```

DESCRIPTION

This command displays a list of Values available under the <keyPath> key.

SYNOPSIS

Client-Side Invocation

```
sregistry values [-currentuser | -localmachine | -synch ]
                 [-user | -project | -site | -file <filename>]
                 [-port | -site | -file <filename>]
                 [-format text | list] <keyPath>
```

Server-Side Invocation

```
sregistry values [-currentuser | -localmachine | -synch ]
```

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```
[-user | -project | -site | -file <filename>]  
[-port | -site | -file <filename>]  
[-format text | list] <keyPath>
```

OPTIONS

- [-currentuser](#)
- [-file](#)
- [-format](#)
- [KeyPath](#)
- [-localmachine](#)
- [-port](#)
- [-project](#)
- [-site](#)
- [-synch](#)
- [-user](#)

-currentuser

`-currentuser` Directs the command to HKEY_CURRENT_USER by adding a prefix to the key 'KeyPath' with "HKEY_CURRENT_USER\Software\Synchronicity"

This option is mutually exclusive with `-localmachine` and `-synch`.

-file

`-file <filename>` Executes the command using only the registry file 'Filename'. Only the file ('Filename') will be read or written. No other files, including the SyncRegistry.reg file are read.

When invoked from the client-side, this option is mutually exclusive with `-project`, `-site`, and `-user`. When invoked from a server-side script, this option is mutually exclusive with `-port`, and `-site`.

-format

`-format` Specifies the way the output will be returned. The default is text. The format text will return each value on a new line. The format list will list the values in a tcl list.

KeyPath

<keyPath> Specifies the key or partial key where the registry value lives. If more than one hierarchical level is specified in the path, the syntax is very important.

In an stcl shell, the key path must be enclosed in double quotes and the path elements delimited with two backslashes:

```
"General\\Options"
```

or, the key path must be enclosed in braces and the path elements delimited with one backslash:

```
General\Options}
```

In a dssc shell, the key path must be enclosed in double quotes and the path elements delimited with one backslash:

```
"General\Options"
```

If the root is not specified in the key path or with the `-currentuser` or `-localmachine` options, `HKEY_CURRENT_USER` is searched.

-localmachine

`-localmachine` Directs the command to `HKEY_LOCAL_MACHINE` by adding a prefix to the key 'KeyPath' with `"HKEY_LOCAL_MACHINE\Software\Synchronicity"`

This option is mutually exclusive with `-currentuser` and `-synch`.

-port

`-port` This is the default context and executes the command using the registry context: `PortRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. The `-port` option is only valid when called from a server-side script.

This option is mutually exclusive with `-file` and `-site`.

-project

`-project` Executes the command using the registry context: `ProjectRegistry.reg`, `SiteRegistry.reg`, `EntRegistry.reg`, `SyncRegistry.reg`. If the project registry is not available because `$SYNC_PROJECT_CFGDIR` is not defined, an error will be generated. The `-project` option is not allowed from a server side script as the project

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registry is only valid from a client tool. Requires write permission to ProjectRegistry.reg.

This option is mutually exclusive with -file, -site, and -user.

-site

-site Executes the command using the registry context: SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. Requires write permission to SiteRegistry.reg.

When invoked from the client-side, this option is mutually exclusive with -file, -project, and -user. When invoked from a server-side script, this option is mutually exclusive with -file and -port.

-synch

-synch Directs the command to Software\Synchronicity by adding a prefix to the key 'KeyPath' with "Software\Synchronicity"

This option is mutually exclusive with -currentuser and -localmachine.

-user

-user This is the default context and executes the command using the registry context: UserRegistry.reg, ProjectRegistry.reg, SiteRegistry.reg, EntRegistry.reg, SyncRegistry.reg. The -user option is only valid when called from a client tool. Requires write permission to UserRegistry.reg.

This option is mutually exclusive with -file, -project, and -site.

RETURN VALUE

A list of the Values available under the <keyPath> key. If no Values exist, then an empty list is returned.

SEE ALSO

sregistry get, sregistry set, sregistry keys, sregistry delete,
sregistry source, sregistry reset

EXAMPLES

Continuing from the 'sregistry keys' example, which showed:

```
stcl> sregistry keys -currentuser -site General\\Options
stcl>
```

To find the registry values available below General\\Options:

```
stcl> sregistry values -currentuser -site "General\\Options"
DefaultFetchType
stcl>
```

This means that a default fetch state has been set site-wide.

The 'sregistry get' example shows how to retrieve that default value.

Server Backup

backup

backup Command

NAME

backup - Backs up a SyncServer

DESCRIPTION

The backup command lets you back up a SyncServer, including its vault, metadata, and notes. You can use this command to run both full and incremental backups. Use the backup command in conjunction with your standard system back-up procedures. To create a back-up that lets you safely restore your server, you take two steps:

1. Use the backup command to generate back-up data in the server_vault/Backup.sync area.
2. Perform a standard system back-up of your server_vault area and your \$SYNC_CUSTOM_DIR.

The data stored in the Backup.sync directory creates a server snapshot that, in conjunction with a standard system back-up, lets you safely restore your server and vault.

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The backup command is server-side only and must be run using the `rstcl` command or by passing a script in a URL from your browser. See the 'server-side' topic or the ENOVIA Synchronicity `stcl` Programmer's Guide for details.

The back-up operation includes the server vault, metadata, attachments, and all of the notes, note types, and property types. The back-up preserves the following directories:

- o The entire `server_metadata` hierarchy
- o The entire `server_vault` hierarchy
- o Parts of the `$SYNC_CUSTOM_DIR/servers/<host>/<port>/share/data` hierarchy.

Only attachments are copied from the `$SYNC_CUSTOM_DIR` areas. Note customizations stored in the custom areas are not backed up.

The backup command does not compress the backed-up data.

The data is backed up to the directory:

```
$SYNC_DIR/../../syncdata/<host>/<port>/server_vault/Backup.sync
```

This directory contains a subdirectory for each back-up operation. The back-up subdirectory name has the following format:

```
<year><month><day>_<hour><minute><second>
```

The time is in 24-hour format according to the local time zone of the server.

Within the dated subdirectory, the backed-up data is stored in the following directories:

- o Attachments - Hard links to the note attachment and definition files in the server's `$SYNC_CUSTOM_DIR/servers/<host>/<port>/share/data` area.
- o `server_metadata/` and all directories below it - Copies of the metadata.
- o `server_vault/` and all directories below it - Copies of the tags database are stored in the `server_vault/Partitions` subdirectories. Hard links to the server vault are stored in the `server_vault` directory.

For example, data in:

```
$SYNC_DIR/../../syncdata/<host>/<port>/server_vault/Projects/P1/file1.rca
```

might be backed up to:

```
$SYNC_DIR/../../syncdata/<host>/<port>/server_vault/Backup.sync/  
20010710_145601/Projects/P1/file1.rca
```

The `Backup.sync`, `Import.sync`, and `Export.sync` directories under `server_vault` are not backed up.

Note: The backup creates symbolic links to vault data if your Backup.sync area is on a different partition from your server or if your system does not support hardlinks. If the vault data is removed (for example, by an `rmfolder` command) the backed-up symbolic links cannot be used to restore your data. To avoid this problem, archive your Backup.sync area using a switch to de-reference the symbolic links.

The back-up operation does not make the server completely inaccessible. The server is suspended for a short time at the beginning of the back-up but after that it is accessible for all ProjectSync operations. DesignSync users have read access to operations after the initial suspension. For example, after the initial suspension, DesignSync users can populate from a vault during a back-up.

For each dated back-up subdirectory, a `.cleanup` executable file is generated in the Backup.sync directory. You can run this executable to remove the corresponding backed-up data. For example, if your back-up directory is:

```
$SYNC_DIR/./syncdata/<host>/<port>/server_vault/Backup.sync/  
20010710_145601
```

You would enter `"20010710_145601.cleanup"` to remove the data in the `20010710_145601` directory.

If the clean-up operation fails, you get an error message.

During the backup, `.inprogress` is appended to the dated subdirectory of Backup.sync. This extension is removed when the back-up completes. You can use this feature to check the status of your back-up. If `.inprogress` is appended to the subdirectory name and you cannot write to the server, the back-up is still underway. If `.inprogress` is appended to the subdirectory name and you can write to the server, the server crashed and restarted while the back-up was underway.

See the ProjectSync User's Guide: "Backing Up Your Server" help topic for information on recovering from server crashes, restoring your backed-up files, and enabling and scheduling automated backups.

Note: If you choose to back up without using the backup command, you must stop your server, perform the backup, and then restart the server. When you use the backup command, all access to the metadata is refused while the metadata is copied; all write access to the vault is refused while the vault is copied. The metadata and the vault are backed up into a single archive. Most of the `$SYNC_CUSTOM_DIR` is not included in the back-up operation.

SYNOPSIS

```
backup [-from <date>]
```


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OPTIONS

- [-from](#)

-from

`-from <date>` When the `-from` argument is specified, an incremental backup is performed based on the backup that occurred on `<date>`. The `<date>` value must match the timestamp of a previous full or incremental backup directory. For example, if you have a backup directory called "20031027_085512" then you can specify:

```
backup -from "20031027 085512"
```

You also can specify the special value "last" to incrementally back up from the most recent back up.

RETURN VALUE

Name of the back-up directory

SEE ALSO

`rstcl`, `access verify`

EXAMPLES

The following example illustrates how to use the `backup` command in a Tcl script. The script first calls `access verify` to ensure that the user has permission to perform a back-up. If not, the script returns "Permission denied." If the user has permission, the back-up operation performs an incremental backup based on the previous backup. If the operation fails, the script issues an error.

```
if {[access verify AdministrateServer $SYNC_User]} {
    if {[catch { backup -from last } result]} {
        puts ""
        puts "*** Backup Server Error ***"
        puts "Stack Trace: $errorInfo"
        puts ""
    }
} else {
    puts "Permission denied."
}
```

When using backup in a script, invoke the access verify command to ensure that only authorized users can back up the server. See the ENOVIA Synchronicity Access Control Guide for information on using the AdministrateServer access control to restrict access to server operations.

restoreserver

restoreserver

NAME

restoreserver - Restores the data from a backed-up server

DESCRIPTION

The restoreserver script restores an entire server from your backed-up server data. This script lets you restore not only vault folders but also metadata, notes, and attachments. When you restore a Cadence view, all the objects in the view are restored. (Note: When you restore a collection object other than a Cadence view object, you must restore both the main collection object and all of its member file objects.)

Your SyncServer is shut down during the restoration and restarted again when the operation is complete. You must be the server owner to run the restoreserver script.

Before running the restoreserver script, you need to restore the server_vault and \$SYNC_CUSTOM_DIR data from your system backup and then transfer the data in the Backup.sync area to the correct place within the server.

Run the restoreserver script from the command line on the system where you run your SyncServer(s). To invoke the script, enter the following on the command line:

```
restoreserver
```

The script starts and opens a log file, restoreserver.log, in your home directory.

If your SyncServer has more than one port, the script prompts you to choose the port you want to restore. Enter the number for the port.

If you have more than one set of backup data, the script prompts you to choose the backup data that you want to restore from. The script displays a numbered list showing each dated incremental and full backup. Enter the number for the date you want to restore from.

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If you choose an incremental backup date, the script first restores the last full backup and then restores each subsequent incremental backup.

See "Restoring All Server Backup Data" in the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide for complete details on restoring your server data.

SYNOPSIS

```
restoreserver
```

RETURN VALUE

The restoreserver command logs its activity to the restoreserver.log file in your home directory. If the command fails, DesignSync returns an error explaining the failure.

SEE ALSO

Backup

restorevault

restorevault Command

NAME

```
restorevault          - Restores specified server vault or directory data
```

DESCRIPTION

This command lets you specify backed-up vault data to restore. You can restore vault folders, directories, or individual vault objects. When you restore a Cadence Cell View collection object, all vault objects within the equivalent view folder are also restored. However, to restore vault data of other types of collection objects, you must restore both the collection object and each member file object.

This command does not restore:

- o Backed-up metadata, notes, or attachments. For a full restoration of these objects, you must use the restoreserver script. See Restoring All Server Backup Data in the ProjectSync

User's Guide for details.

- o Data for the Hierarchical Configuration Manager.
- o Vaults backed up from pre-4.0 versions of Developer Suite.

The `restorevault` command is server-side only and must be run using the `rstcl` command or by passing a script in a URL from your browser. See the 'server-side' topic or the ENOVIA Synchronicity `stcl` Programmer's Guide for details.

If you incorporate the `restorevault` command into an `rstcl` script, the access controls that govern who can restore a vault are not applied.

Error messages are written to `error_log` in:
`$SYNC_DIR/custom/servers/<server>/<port>/logs`

SYNOPSIS

```
restorevault -from <backup_area> [-overwrite] [--] <path>
```

OPTIONS

- [-from](#)
- [-overwrite](#)
- [--](#)

-from

`-from <backup_area>` The name of the directory inside `Backup.sync` that you want to restore from. For example, `20030813_095027`.

-overwrite

`-overwrite` Specifies that items that exist in the vault are overwritten during the restoration. (See *Restoring Your Server Vault Data* in the *ProjectSync User's Guide* for examples of using this option.)

`--`

`--` Indicates that the command should stop looking for command options. Use this option when the object you specify begins with a hyphen (-).

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OPERANDS

- [Vault Directory Path](#)

Vault Directory Path

<path> The path of the vault directory or vault object to be restored. If you specify a directory, the restoration is recursive.

RETURN VALUE

None

SEE ALSO

backup

EXAMPLES

This example tcl script uses the `restorevault` command to restore the vault data from the `and4` directory. Any existing files in the directory are overwritten:

```
restorevault -overwrite -from 20030707_150817 /Projects/smallLib/and4
```

This example restores vault data of the Cadence view object called `layout` and all of its member objects.

```
restorevault -from /Projects/smallLib/mid2/layout.sync.cds
```

suspend

suspend Command

NAME

`suspend` - Sets the server to a semi-active state

DESCRIPTION

The suspend command sets the server to a semi-active state. This command should only be used inside a server-side TCL script. The script should be invoked through rstcl. It will execute the suspend command, run the code specified in the tcl-code argument and terminate the suspend, restoring the server to normal operation.

While the server is in a semi-active state, DesignSync rejects operations such as checkin, with a message explaining that the server is in a suspended state and returning the optional -because message. The administrator can define registry settings that determine whether the operation will retry, how many retry attempts will be attempted before the command fails, and how long to wait between retries. For more information, see the ENOVIA DesignSync Data Manager Administrator's Guide.

Note: The backup functionality in DesignSync uses the suspend command to put the server in a restricted access state.

SYNOPSIS

```
suspend [-because <why>] -maintenance | -readonly [-mode]
        {tcl-code}
```

ARGUMENTS

- [tcl Code](#)

tcl Code

<tcl-code> The code to execute while the server is in suspend mode.

OPTIONS

- [-because](#)
- [-maintenance](#)
- [-mode](#)
- [-readonly](#)

-because

-because <why> Specifies the reason the server is in semi-active state. Any operations that fail to run while the server is in this state will return this as a reason to the user.

-maintenance

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-maintenance Sets the server to deny all read or write operations.

This option is mutually exclusive with `-readonly`. You must specify either `-readonly` or `-maintenance`.

-mode

-mode Sets a return string indicating whether the server is in 'normal,' 'readonly,' or 'maintenance,' mode. This can be used by scripts wishing to check the server status.

-readonly

-readonly Sets the server to allow read-only vault operations, such as `populate -get/-share`, or `compare`, `contents`, `ls`, and other read-only commands. It does not allow operations that modify the vault such as `populate -lock`, `ci`, `mkmod`, etc.

This option is mutually exclusive with `-maintenance`. You must specify either `-readonly` or `-maintenance`.

RETURN VALUE

Not applicable.

SEE ALSO

`backup`, `rstcl`

EXAMPLES

This example shows a procedure that releases the global server lock, suspends the server for 100 seconds in both maintenance and readonly mode.

Releasing the global server lock is recommended to allow other commands past the locking gate to receive the 'in maintenance mode' failure. Otherwise, the lock prevents other server-side tcl scripts from being processed by the server.

```

# first release the global lock
# To avoid any output from the 'url syslock' command,
# the record command places the output in the variable "msg"

record {url syslock -release smdSrvrMetaDataLock} msg

proc FullMaintenanceCode {} {
    # here the code that requires the server to reject
    # all requests, will be done
    after 100000
}

proc ReadOnlyMaintenanceCode {} {
    # here the maintenance which allows read ops
    # such as (populate -get/-share, ls, compare...)
    # but denies write ops,
    # such as (ci, populate -lock, tag, rmversion....)
    after 100000
}

suspend -maintenance \
-because "Server Is Undergoing Required Maintenance" \
{FullMaintenanceCode}

suspend -readonly \
-because "Server Is Undergoing Required Maintenance. \
Read Operations are allowed" \
{ReadOnlyMaintenanceCode}

```

Troubleshooting

syncinfo

syncinfo Command

NAME

```
syncinfo          - Returns Synchronicity environment information
```

DESCRIPTION

This command returns information about the Synchronicity software environment, such as version number, location of registry files, and default editor and HTML browser. The command can be run from the client to return client information, or from the server to return server information.

By default (with no arguments specified), all available information is returned. You can request specific information by specifying one or more command arguments.

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If a given value has not been set or is not available, then 'syncinfo' returns an empty string. For example, if you ask for portRegistryFile from the client, the return value is empty because portRegistryFile is only available from the server.

SYNOPSIS

```
syncinfo [<arg> [<arg>...]]
```

ARGUMENTS

- [General Information](#)
- [isServer](#)
- [syncDir](#)
- [version](#)
- [Registry Information](#)
- [clientRegistryFiles](#)
- [enterpriseRegistryFile](#)
- [portRegistryFile](#)
- [projectRegistryFile](#)
- [serverRegistryFiles](#)
- [siteRegistryFile](#)
- [syncRegistryFile](#)
- [userRegistryFile](#)
- [usingSyncRegistry](#)
- [Customization Information](#)
- [customDir](#)
- [customSiteDir](#)
- [customEntDir](#)
- [siteConfigDir](#)
- [usrConfigDir](#)
- [userConfigFile](#)
- [Client Information](#)
- [connectTimeout](#)
- [commAttempts](#)
- [defaultCache](#)
- [fileEditor](#)
- [htmlBrowser](#)
- [proxyNamePort](#)
- [somTimeout](#)
- [Server Information](#)
- [berkdbIsShmEnabled](#)
- [berkdbShmKey](#)
- [isTestMode](#)
- [serverMetadataDir](#)

- [serverDataDir](#)
- [serverMachine](#)
- [serverName](#)
- [serverPort](#)
- [User Information](#)
- [home](#)
- [userName](#)

General Information

isServer

isServer Returns a Tcl boolean value (0 or 1) indicating whether the software executing the syncinfo command is acting as a server (1) or client (0).

syncDir

syncDir Returns the root directory of the Synchronicity software installation. On UNIX, this value corresponds to the SYNC_DIR environment variable (on Windows, SYNC_DIR is not required).

version

version Returns the version of the Synchronicity software as a string.

Registry Information

clientRegistryFiles

clientRegistryFiles Returns a comma-separated list of registry files used by the Synchronicity clients (DesSync, stcl, dss, stclc, dssc).

enterpriseRegistryFile

enterpriseRegistryFile Returns the enterprise-wide registry file.

portRegistryFile

portRegistryFile Returns the port-specific registry file.

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projectRegistryFile

projectRegistryFile Returns the project-specific registry file.

serverRegistryFiles

serverRegistryFiles Returns a comma-separated list of registry files used by a Synchronicity server.

siteRegistryFile

siteRegistryFile Returns the site-wide registry file.

syncRegistryFile

syncRegistryFile Returns the Synchronicity-supplied standard registry file.

userRegistryFile

userRegistryFile Returns the user-specific registry file.

usingSyncRegistry

usingSyncRegistry Returns a Tcl boolean value (0 or 1) indicating whether the Synchronicity software is using the text-based registry (1) or the native Windows registry (0).

Customization Information

customDir

customDir Returns the root directory of the 'custom' branch of the Synchronicity installation hierarchy, which contains all site- and server-specific customization files. The default value, <SYNC_DIR>/custom, can be overridden by the SYNC_CUSTOM_DIR environment variable.

customSiteDir

customSiteDir Returns the directory that contains site-specific customization files. The default value, `<SYNC_CUSTOM_DIR>/site` (which defaults to `<SYNC_DIR>/custom/site`), can be overridden by the `SYNC_SITE_CUSTOM` environment variable.

customEntDir

customEntDir Returns the directory that contains enterprise-specific configuration files. The default value, `<SYNC_ENT_CUSTOM>` (which defaults to `<SYNC_CUSTOM_DIR>/enterprise`), can be overridden by the `SYNC_ENT_CUSTOM` environment variable.

siteConfigDir

siteConfigDir Returns the directory that contains site-specific configuration files. The default value, `<SYNC_SITE_CUSTOM>/config` (which defaults to `<SYNC_CUSTOM_DIR>/site/config`, which defaults to `<SYNC_DIR>/custom/site/config`), can be overridden by the `SYNC_SITE_CNFG_DIR` environment variable.

usrConfigDir

userConfigDir Returns the directory that contains user configuration files. The default value, `<HOME>/synchronicity`, can be overridden by the `SYNC_USER_CFGDIR` environment variable.

userConfigFile

userConfigFile Returns the user configuration file. The default value, `<HOME>/synchronicity/user.cfg`, can be overridden by the `SYNC_USER_CONFIG` environment variable.

Client Information**connectTimeout**

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`connectTimeout` Returns the number of seconds the client will wait per communication attempt with the server.

commAttempts

`commAttempts` Returns the number of times client/server communication is attempted before failing. Using multiple attempts protects against transient network problems. 'Connect Failure' failures do not trigger multiple connection attempts, because transient network problems rarely cause this error.

Note: When the number of communication attempts is the default value of 3, 'syncinfo commAttempts' returns no value instead of returning 3.

defaultCache

`defaultCache` Returns the default cache directory for the client as specified during installation or using SyncAdmin.

fileEditor

`fileEditor` Returns the default file editor as specified during installation or using SyncAdmin.

htmlBrowser

`htmlBrowser` (UNIX only) Returns the default HTML browser as specified during installation or using SyncAdmin.

proxyNamePort

`proxyNamePort` Returns the <name>:<port> of a proxy, if one is defined in a client registry file or using the ProxyNamePort environment variable.

somTimeout

`somTimeout` Returns the number of milliseconds after an unsuccessful server connection attempt during

which the client does not try to connect again. This timeout protects against an operation on many objects (such as 'ls' on a large directory) taking an excessively long time to complete when there is a connection failure (such as when the server is down). Instead of waiting the connectTimeout period for each object, the operation fails for all objects after the first connection failure.

Server Information

berkdbIsShmEnabled

berkdbIsShmEnabled For Synchronicity internal use only.

berkdbShmKey

berkdbShmKey For Synchronicity internal use only.

isTestMode

isTestMode For Synchronicity internal use only. Returns a Tcl boolean value (0 or 1) indicating whether the software executing the syncinfo command is running in test mode (1) or not (0). This feature is useful for regression testing of servers.

serverMetadataDir

serverMetadataDir Returns the directory that contains the server metadata (such as relational database) files.

serverDataDir

serverDataDir Returns the directory that contains vault (repository) data that is stored by a server.

serverMachine

serverMachine Returns the name of the server as returned by

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gethostname(). This value is returned only when 'syncinfo' is run from a server-side script.

serverName

serverName Returns the name of the server as it was specified in the URL used to contact the server. This value is returned only when 'syncinfo' is run from a server-side script.

serverPort

serverPort Returns the port number used by the server to respond to the syncinfo request. This value is returned only when 'syncinfo' is run from a server-side script.

User Information

home

home Returns the home directory of the user running syncinfo (HOME on UNIX, or as defined in your user profile on Windows platforms).

userName

userName Returns the account name of the user running syncinfo.

RETURN VALUE

In dss/dssc mode, you cannot operate on return values, so the return value is irrelevant.

In stcl/stclc mode:

- If no argument is specified, the return value is a name/value list (Tcl 'array get' format) containing all available information.
- If a single argument is specified, the return value is the requested value (not a list).
- If more than one argument is specified, the return value is a name/value list containing the requested information.
- If any argument is not known, an exception is thrown.

SEE ALSO

server-side

EXAMPLES

- [Example Showing the SyncInfo Version on Client Startup](#)
- [Example of Extracting SyncInfo Information to an Array](#)
- [Example Showing Extracting the Information from an Array](#)
- [Example of extracting Name/Value Pairs for Specific Arguments](#)

Example Showing the SyncInfo Version on Client Startup

When you start any Synchronicity client, 'syncinfo version' executes, which displays (and writes to your log file if logging is enabled) the Synchronicity version. In this example, the software is version 3.0.

```
% stcl
Logging to c:\goss\dss_01192000_092559.log
V3.0

stcl>
```

Example of Extracting SyncInfo Information to an Array

The following stcl script fragment shows how to get all known information as a Tcl array variable. The 'version' string is then printed.

```
array set info [syncinfo]
puts "Version: $info(version)"
```

Example Showing Extracting the Information from an Array

This example uses the single-argument form of syncinfo to print the same version information provided by the previous example:

```
puts "Version: [syncinfo version]"
```

Example of extracting Name/Value Pairs for Specific Arguments

The following example uses command arguments to return a list of the 'syncDir' and 'userName' values. This example also shows how to enumerate the name/value list returned by syncinfo without storing it in an array variable.

```
foreach {name value} [syncinfo syncDir userName] {
```


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```
    puts "$name: $value"  
}
```

synctrace

synctrace Commands

NAME

synctrace - Commands to help diagnose software problems

DESCRIPTION

The 'synctrace' commands help Synchronicity diagnose software problems and performance issues by enabling or disabling software tracing.

See the "synctrace set" command for details. Also see "Running a DesignSync Client in Debug Mode" in DesignSync Data Manager User's Guide.

SYNOPSIS

```
synctrace [un]set [-server <serverURL>] 0
```

SEE ALSO

synctrace set, synctrace unset

EXAMPLES

See the "synctrace set" command.

synctrace set

synctrace set Command

NAME

synctrace set - Turns on software tracing

DESCRIPTION

Helps Synchronicity diagnose software problems and performance issues by enabling software tracing. Synchronicity may ask you to enable tracing to help with problem diagnosis.

When you use the `synctrace` command to set the trace level for a client or server, the trace is only in effect for the current client or server session. The trace terminates when you shut down the client or the server and does not start again when you restart the client or server, unless you reinvoke the command. If you have already set (or unset) `synctrace`, and you inadvertently set (or unset) the trace again, the second setting has no effect.

The trace output is stored in the `<SYNC_USER_CFGDIR>/logs/sync_client_trace_<date>_<time>.log` file. In addition, the output is stored in the `dss_<date>_<time>.log` file. The trace output for a server is stored in `<SYNC_CUSTOM_DIR>/servers/<host>/<port>/logs/error_log`.

If you want to have tracing on when you start the client or server, you should set the `SYNC_TRACE` environment variable to 0. See "Running a DesignSync Client in Debug Mode" in DesignSync Data Manager User's Guide for more details.

SYNOPSIS

```
synctrace set [-server <serverURL>] 0
```

OPTIONS

- [-server](#)

-server

```
-server <serverURL> Turns on the trace for the server you specify.
                    If you omit the -server switch, the trace is
                    turned on for the client session from which
                    you invoked the command. Specify the URL
                    as follows:
                        sync://<host>[:<port>]
                    Where 'sync://' is required, <host> is the
                    machine on which the SyncServer is
                    installed, and <port> is the SyncServer port
                    number (if omitted, defaults to 2647/2679). For
                    example, you might specify the following:
                    -server sync://serv1.abco.com:30138
```

Note: DesignSync also supports a `syncs`

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protocol for communicating with secure (SSL) SyncServer ports. In most cases, DesignSync automatically redirects requests to a cleartext (non-secure) port using the sync protocol to the secure port, if one is defined. The default Synchronicity secure port number is 2679. Your Synchronicity administrator defines what SyncServer ports are available and whether secure communications are required. See the "Overview of Secure Communications section" in DesignSync Data Manager User's Guide for more information.

Enables tracing on all software components. While it is possible to selectively turn on tracing for specific software libraries, it is typically most useful to turn on all tracing.

RETURN VALUE

none

EXAMPLES

- [Example of Turning Tracing on for all Libraries](#)
- [Example of Turning Trace off for All Libraries](#)
- [Example of Turning Trace On for a Specific Server](#)
- [Example of Turning Trace Off for a Specific Server](#)

Example of Turning Tracing on for all Libraries

The following example turns on tracing for all libraries.
stcl> synctrace set 0

Example of Turning Trace off for All Libraries

The following example turns off tracing for all libraries.
stcl> synctrace unset 0

Example of Turning Trace On for a Specific Server

The following example turns on tracing for the specified server:
stcl> synctrace set -server sync://serv1.abco.com:30138 0

Example of Turning Trace Off for a Specific Server

The following example turns off tracing for the specified server:
 stcl> synctrace unset -server sync://serv1.abco.com:30138 0

synctrace unset**synctrace unset Command****NAME**

synctrace unset - Turns off software tracing

DESCRIPTION

See the "synctrace set" command.

SYNOPSIS

synctrace unset [-server <serverURL>] 0

Utilities**convertdata****convertdata****NAME**

convertdata - Converts CVS/RCS vault files to DesignSync format

DESCRIPTION

The convertdata utility converts vault files from Concurrent Version System (CVS) or Revision Control System (RCS) data formats to the DesignSync format. See the DesignSync Data Manager Administrator's Guide: "Converting a Vault Repository from CVS/RCS Format to DesignSync Format".

convertutil

convertutil

NAME

convertutil - Converts between supported vault file formats

DESCRIPTION

The convertutil utility lets you recursively convert a vault folder from one format to another. The convertvault utility, another utility for converting vaults, provides more flexibility than the convertutil utility; however, for most conversion tasks, convertutil is sufficient. See the DesignSync Data Manager Administrator's Guide: "Converting Vault Data".

convertvault

convertvault

NAME

convertvault - Converts specified vault files to supported formats

DESCRIPTION

The convertvault utility lets you convert a single vault file type to another supported type or you can convert multiple vault files at one time. The convertutil utility, another utility for converting vaults, provides less flexibility than the convertvault utility; however, for most conversion tasks, convertutil is sufficient. See the DesignSync Data Manager Administrator's Guide: "Converting Vault Data".

exportVaults

exportVaults

NAME

exportVaults - Exports DesignSync vault folders

DESCRIPTION

Use the `exportVaults` utility to export data from client vault folders. See *DesignSync Data Manager User's Guide: "Using the Vault Utilities."* For other export scenarios, use the ProjectSync Export Projects feature. See *ProjectSync User's Guide: "Exporting Projects."*

importVaults

importVaults

NAME

`importVaults` - Imports DesignSync vault folders

DESCRIPTION

Use the `importVaults` utility to import data converted using the `convertdata` utility or data exported from a client vault. See *DesignSync Data Manager User's Guide: "Using the Vault Utilities."* For other import scenarios, use the ProjectSync Import Projects feature. See *ProjectSync User's Guide: "Importing Projects."*

mirrorsetDefaultuser

mirrorsetDefaultuser

NAME

`mirrorsetDefaultuser` - Sets the default user and password using a UNIX shell script

DESCRIPTION

Use this command to set the default user and password using a UNIX shell script.

This command is subject to access controls on the server. See the *ENOVIA Synchronicity Access Control Guide* for details.

SYNOPSIS

```
mirrorsetDefaultuser <serverURL> <defaultUser>
```

ARGUMENTS

ENOVIA Synchronicity Command Reference - File

- [Server URL](#)
- [Default User](#)

Server URL

`serverURL` Specifies the URL of the MAS SyncServer. Specify the URL as follows:
`sync://<host>[:<port>]` where 'sync://' is required, <host> is the machine on which the SyncServer is installed, and <port> is the SyncServer port number (defaults to 2647).
Example: `sync://serv1.abco.com:1024`

Default User

`defaultUser` The default user to be used when one of the needed users is not specified for the 'mirror create' Tcl shell command. If a Tcl shell command can be run interactively, see 'mirror setoptions' for an alternate way to specify this user.

SEE ALSO

`mirror create`, `mirror delete`, `mirror disable`, `mirror edit`,
`mirror enable`, `mirror get`, `mirror getoptions`, `mirror isenabled`,
`mirror ismirror`, `mirror list`, `mirror rename`, `mirror reset`,
`mirror setoptions`, `mirror status`

EXAMPLES

This example sets the default user to "barbg", for the MAS SyncServer `sync://srv2.ABCo.com:2647`. The user is prompted for a password.

```
% mirrorsetdefaultuser sync://srv2.ABCo.com:2647 barbg
Enter the password for the default user (barbg): ****
```

```
%
```

SyncAdmin

SyncAdmin

NAME

`SyncAdmin` - Synchronicity Administrator tool

DESCRIPTION

Synchronicity's SyncAdmin tool is a graphical user interface that lets system administrators, project leaders, and users configure DesignSync clients (command-line and graphical) for site, project, or individual use.

You execute SyncAdmin from your operating system shell, not from a Synchronicity client shell (dss/dssc/stcl/stclc). On Windows platforms, you invoke SyncAdmin from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <version>->SyncAdmin
```

See SyncAdmin help for details on SyncAdmin. From the GUI, click the Help button on any SyncAdmin page.

SYNOPSIS

```
SyncAdmin [-file <filename> | -project | -site | -user]
```

OPTIONS

- [-file](#)
- [-project](#)
- [-site](#)
- [-user](#)

-file

```
-file <filename> Edit the specified registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).
```

-project

```
-project Edit the project registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).
```

-site

```
-site Edit the site registry file, bypassing the initial SyncAdmin window (where you select which registry
```


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file to edit).

-user

`-user` Edit the user registry file, bypassing the initial SyncAdmin window (where you select which registry file to edit).

RETURN VALUE

none

SEE ALSO

DesSync

EXAMPLES

This example invokes SyncAdmin:
`% SyncAdmin`

This example invokes SyncAdmin, in background mode, to edit the user registry:
`% SyncAdmin -user &`

syncdadmin

syncdadmin Command

NAME

`syncdadmin` - Manages syncd processes

DESCRIPTION

This command manages Synchronicity daemon (syncd) processes on a per-user basis. 'syncdadmin' is not a DesignSync shell command, but is instead a standalone utility that you invoke from a standard shell or a shell script.

The syncd process manages communication between dss/stcl sessions and SyncServers. The syncd process can manage multiple

dss/stcl requests per user, allowing one user to run parallel dss/stcl sessions. Note that dssc and stclc do not use syncd; they communicate directly with a SyncServer.

When you invoke dss or stcl, they connect to your syncd process if one is already running. Otherwise, they attempt to start syncd. There is at most one syncd process running per user per machine at any time.

On Unix systems, the syncd process times out after 180 minutes of inactivity (after the last dss/stcl session communicating with the syncd process exits). The syncd process will not time out if there is an active dss or stcl session, or if there is a lock on the syncd process. You can define the SYNC_DAEMON_TIMEOUT environment variable to change the default time-out period of 180 minutes:

```
setenv SYNC_DAEMON_TIMEOUT <n>
```

where <n> is the number of minutes syncd waits before timing out.

On Windows platforms, syncd never times out. However, you can stop syncd from the Windows Start menu, typically:

```
Start->Programs->Dassault Systems <version>->Stop SyncDaemon
```

Note: When using dss/stcl, many environment changes (including setting SYNC_DAEMON_TIMEOUT) do not take effect until syncd is stopped and restarted.

SYNOPSIS

```
syncdadmin [begin | close [-force] | lock | start |
            status [-verbose] | stop [-force] | unlock |]
```

ARGUMENTS

- [begin](#)
- [close](#)
- [lock](#)
- [start](#)
- [status](#)
- [stop](#)
- [unlock](#)

begin

begin Same as 'start'. The 'begin' argument may be removed in a future release.

close

ENOVIA Synchronicity Command Reference - File

`close` Same as 'stop'. The 'close' argument may be removed in a future release.

lock

`lock` Locks the syncd process so that 'syncdadmin stop' will not terminate syncd (unless you use the `-force` option). 'syncdadmin lock' also starts syncd if it is not already running.

You typically lock syncd at the beginning of a shell script that calls `dss/stcl` several times. The lock prevents syncd from being terminated inadvertently. For example:

```
#!/bin/csh
syncdadmin lock
dss ci *.cpp
<some shell (non dss/stcl) commands>
dss ci *.h
syncdadmin unlock
```

start

`start` Starts the syncd process if one is not already running. The 'syncdadmin start' command is typically used in a shell script to invoke syncd (if necessary) before invoking Synchronicity commands. For example:

```
#!/bin/csh
syncdadmin start
dss ci ...
```

In this script fragment, 'syncdadmin start':

- Starts syncd only if syncd is not already running
- Does not allow the next line of the script to execute until syncd is running

Note: There is a short start-up time associated with syncd, during which it does not accept commands. To prevent a race condition, avoid starting syncd as follows:

```
% syncd &
% dss ci ...    << Likely to fail because syncd is
                still starting up
```

status

`status` Indicates whether the syncd process is currently

running and on which machine. Use the `-verbose` option to output additional information, such as whether `syncd` is locked.

stop

`stop` Attempts to terminate the `syncd` process. The `syncd` process will not terminate if there is an active `dss/stcl` session running or if a lock has been set on the `syncd` process. Use the `-force` option to override these constraints.

unlock

`unlock` Removes the lock from a `syncd` process. You typically lock `syncd` from a script that calls `dss/stcl` multiple times. You would then unlock `syncd` at the completion of the script.

RETURN VALUE

none

EXAMPLES

This example displays the `syncd` status before and after starting `syncd`:

```
% syncdadmin status
SYNC: syncd is not running.
% syncdadmin start
SYNC: Attempting to spawn daemon.
SYNC: Syncd ready.
% syncdadmin status
SYNC: syncd is running on linus.
%
```

sync_setup

sync_setup Command

NAME

`sync_setup` - Installing and configuring the DesignSync server

ENOVIA Synchronicity Command Reference - File

DESCRIPTION

This script installs or updates the configuration of the DesignSync server. You can run this script interactively, to set up a single server, or call it from a script to perform a non-interactive DesignSync server setup on a single service or multiple servers at once.

Note: Passwords should ideally not be passed through the the script, but specified as a key/value pair on the command line, particularly with respect the postgres database password. The ENOVIA 3DPassport password can be encrypted and passed, encrypted to the script, but the postgres must be in cleartext. Therefore it is not necessarily desirable to include it in any scripts or in the XML configuration file.

Tip: If you want to automatically start any servers that have been installed/configured by the sync_install script, do any of the following:

- o Set the StartDesignSyncServer setting to true in the SiteSettings section of the configuration file, to start all the servers installed/configure during the command operation.
- o Set the StartDesignSyncServer setting to true in the ServerSettings section of the configuration file for all servers you want to start.
- o Use the return value of the command, 0, indicating success, to start all the servers configured by the command.

DesignSync recommends using the StartDesignSyncServer setting rather than the command return value.

SYNOPSIS

```
sync_setup [-config=<UserConfig.xml>] [-[no]debug] [-dryrun]
           [-log=<filename>]
           [-report={normal|verbose}] [<key>=<value> [...]]
```

ARGUMENTS

- [key/value pair](#)

key/value pair

<key>=<value> Optional arguments to specify to the sync_setup script. Any options specified to the script allow become the default option for any settings that hat use that information, or override any settings set in the file specified by the -config switch, any environment variables, or the defined system defaults.

OPTIONS

- [-config](#)
- [-\[no\]debug](#)
- [-\[no\]dryrun](#)
- [-log](#)
- [-report](#)

-config

`-config=`
`<UserConfig.xml>` The name of the XML file containing the list of defined settings for the `sync_setup` script to use. All the settings can be defined within a single script, even if you are configuring multiple servers.

For information on defining the user script and a sample script, see the ENOVIA Synchronicity DesignSync Administrator's Guide.

Tip: If you want to use multiple configuration files within a batch operation, you can create a script that runs `sync_setup` more than once, each time specifying the desired configuration file.

When `-config` is specified, the server does not allow any input from the user. If any options are missing, the command fails with an appropriate error message.

-[no]debug

`-[no]debug` This option indicates whether debugging is enabled. This helps the Dassault Systems support team diagnose server installation problems by enabling tracing during the server installation and configuration process. Use this option only if you are experiencing problems with software installation.

`-debug` turns on tracing for the `sync_setup` script. This should be used only when `sync_setup` is failing and you need help understanding why.

`-nodebug` indicates that debug information should not be output by the command. (Default)

Tip: When you use this option, you should specify a log file for the output so it can be reviewed by the support team.

ENOVIA Synchronicity Command Reference - File

-[no]dryrun

-[no]dryrun Specifies whether to treat the operation as a trial run or perform the server configuration.

-dryrun does not perform server configuration. Using the **-dryrun** option helps detect problems that might prevent the server installation/configuration operation from succeeding. The dryrun can show you which settings are specified incorrectly, or need to be specified, but are not in the configuration file. Errors such as permissions or inaccessible servers are not reported by a dry run. Note that a dry run setup is faster than a normal server installation/configuration. If **-dryrun** is specified, no servers are actually configured.

-nodryrun perform the server configuration/installation as specified. (Default)

-log

-log <filename> Specify the name of the log file. If the filename doesn't exist, DesignSync creates it. If the file does exist, DesignSync appends the new information to the end of the log file.

The filename can be specified with an absolute or relative path. If you specify a path for the log file, the directory you specify must already exist and you must have write permissions to the directory in order for the log to be placed into it, DesignSync does not create the path.

-report

-report [error|brief|normal|verbose] Controls the verbosity of the output to the screen or to the log file.

-report error reports only the errors.
-report brief reports only the errors.
-report normal reports the typical messages seen when **sync_setup** is run interactively.
-report verbose reports all of the generated output.

RETURN VALUE

Returns a value of 0 if the command runs successfully. If the command is unsuccessful, you receive a message explaining the failure.

SEE ALSO

synctrace

EXAMPLES

DesignSync Web Interface

Note Manipulation

note

note Commands

NAME

note - Server-side commands for accessing notes

DESCRIPTION

Users create notes and manage note links using the ProjectSync graphical interface. The 'note' commands are for advanced users who need programmatic access to note capabilities.

The 'note' family of commands provide access to the note web object type. URLs for notes have the following form:

```
sync:///Note/SyncNotes/<notetype>/<noteid>
```

For example, the following URL specifies the 5th note of the BugReport notetype:

```
sync:///Note/SyncNotes/BugReport/5
```

Notes can only be accessed from server-side scripts, so always use the `sync:///` syntax (no `<host>:<port>` specification).

Note: The "notetype schema" command provides access to the database structure of notetypes.

SYNOPSIS

```
note <note_command> [<note_command_options>]
```

```
Usage: note [attach|counts|create|delete|detach|getprop|links|query|  
relink|setprops|systems|]
```

EXAMPLES

See specific "note" commands.

note attach

note attach Command

NAME

note attach - Creates a link between a note and an object

DESCRIPTION

This command attaches a note to the specified object, creating a notelink -- a link between an object and a note.

The <noteURL> argument must be a reference to an existing note. The <objURL> argument can be a reference to any valid object, including another note. If <objURL> is a local note URL, then the note that it refers to also must exist. However, for any other <objURL> type, including notes on remote servers, the existence of the object is not checked. Only the structure of the URL is checked.

It is not possible to create a duplicate notelink. However, the attempt does not cause an error; attempts to create duplicate notelinks are silently ignored.

The successful execution of this command generates an atomic note attach event and fires the corresponding triggers in response.

This command is available only from server-side scripts.

SYNOPSIS

```
note attach <noteURL> <objURL>
```

OPTIONS

none

RETURN VALUE

none

ENOVIA Synchronicity Command Reference - File

SEE ALSO

note detach, note links, server-side, rstcl

EXAMPLES

- [Example of Attaching a Note to a Project](#)
- [Example of Attaching a Note to a Tagged Configuration](#)

Example of Attaching a Note to a Project

This example attaches a bug report to the Asic project:

```
note attach sync:///Note/SyncNotes/BugReport/2 sync:///Projects/Asic
```

Example of Attaching a Note to a Tagged Configuration

This example attaches the bug report to the Rel1 configuration of the Asic project:

```
note attach sync:///Note/SyncNotes/BugReport/2 \  
sync:///Projects/Asic@Rel1
```

note counts

note counts Command

NAME

```
note counts          - Computes statistics about notes and  
                      the frequency of values
```

DESCRIPTION

This command runs a query against a note type and breaks down the results according to the values it finds in selected properties of the notes matched by the query. The breakdown can be zero, one-dimensional, or multi-dimensional. Dimensions of breakdown are note properties selected in the query, with the results of the query grouped by value in the selected properties (dimensions).

The results of the query (that is, the counts of how many notes fit the search criteria and had the same values in the selected properties) is stored in an output variable whose name is given

to the command. The command treats the variable as an array into which to store the results. The array has indices of all combinations of values that were found for the selected properties in notes matching the query criteria. The mapped values at those indices are the number of notes that had that particular combination of values.

For one-dimensional breakdowns (that is, breakdowns by a single property), the indices in the output array variable are the same as values found for that property in notes that matched the query. For two- or three-dimensional queries, the indices are a concatenation of values for each of the selected properties, separated by commas. If any of the values contain comma characters, then the comma characters are replaced with periods, so that the comma characters retain their separator semantics. The output array contains only non-zero entries.

The note counts command can operate on (break down by) properties of any type. However, the command is practical only for operations on enumerable property types, such as state machines, choice types, user fields, and perhaps integers. Results of breakdowns by floating-point properties and wide strings are generally not useful, but such use is not disallowed. Imprudent use of this command can copy very large amounts of data from the database into memory (for example, if you were doing a breakdown by the Body property of a note type).

You can generate simple time-based statistics by doing a breakdown on any Date or Timestamp property of a note type. In the resulting array, the indices will be dates and the values will be how many notes had that date value in that field. The resolution of the buckets for time-based statistics is controlled with the `-dateresolution` option. This option allows for specifying a unit of time (years, months, days, etc.) used to indicate the granularity of the statistical buckets.

This command is available only from server-side scripts.

SYNOPSIS

```
note counts <NotetypeName>
    [-countlinks] [-dateresolution <Resolution>]
    [ [-dbquery <dbase_expr>] | [-sqlquery <sql_expr>] ]
    [<OutVarName> [Dimension0 [Dimension1 [Dimension2]]]]
```

OPTIONS

- [-countlinks](#)
- [-dateresolution](#)
- [-dbquery](#)
- [-sqlquery](#)

ENOVIA Synchronicity Command Reference - File

-countlinks

`-countlinks` This option is used only for RevisionControl notes. Use this option to count the number of objects in each RevisionControl note instead of counting only the individual notes. When using this option, you must specify `<OutVarName>`.

-dateresolution

`-dateresolution`
`<Resolution>` If one or more of the Dimension arguments references a property of type Date or Timestamp, specifies a resolution of the bucketing of notes in the output array.

The resolution is specified in terms of date granularity. The set of valid values are: years, months, weeks, and days.

The value of the resolution affects the values used to form the indices in the returned array. The format for the index values for a given resolution are:

| | |
|--------|------------|
| years | YYYY |
| months | YYYY-mm |
| weeks | YYYY-Www |
| days | YYYY-mm-dd |

If `-dateresolution` is not given as an option, the command defaults to a resolution of days.

-dbquery

`-dbquery`
`<dbase_expr>` A valid dBase query, which is converted to an equivalent SQL expression, and used to query the database. Analogous to the `-dbquery` option to note query.

-sqlquery

`-sqlquery`
`<sql_expr>` Filters the set of notes that are counted by the note counts command. Analogous to the `-sqlquery` option to note query.

`-sqlquery` and `-dbquery` are mutually exclusive.

OPERANDS

- [Notetype Name](#)
- [Out Var Name](#)
- [Dimensions](#)

Notetype Name

<NotetypeName> The name of an existing note type.

Out Var Name

<OutVarName> The name of a Tcl array variable in which to place specific notes that match the query criteria. The indices of the returned array are comma-separated concatenations of the Dimension0...2 property values. The array values are the number of notes that match the array index.

Dimensions

Dimension0 Up to three arguments that specify the
Dimension1 bucketing criteria for the results. The
Dimension2 values must be the name of an existing
property name on the note type.

RETURN VALUE

The total number of notes that match the query criteria.

SEE ALSO

note query

EXAMPLES

- [Example Showing Reporting Against Fields in the Notetype](#)
- [Example Showing Time-Based Reporting on NoteTypes](#)

Example Showing Reporting Against Fields in the Notetype

ENOVIA Synchronicity Command Reference - File

Suppose you have a note type called BugReport, with a State field (type SyncState), a Priority field (type SyncPriority) field, and a Resp field (type SyncUserList), plus all the standard note fields. This note type is populated with notes as follows:

| Id | Author | Resp | State | Priority |
|----|----------|-------|----------|----------|
| 1 | caroline | cara | closed | high |
| 2 | jack | cara | closed | high |
| 3 | bert | ron | fixed | high |
| 4 | bert | mark | fixed | medium |
| 5 | lindsey | mark | fixed | high |
| 6 | bert | mark | analyzed | high |
| 7 | lindsey | jason | analyzed | low |
| 8 | bert | jason | closed | high |
| 9 | bert | mark | open | medium |
| 10 | caroline | mark | open | stopper |

To find out how many BugReport notes are currently in-process (in any state except "closed"), you would specify:

```
note counts BugReport -dbquery "State# 'closed'"
```

which would return the answer: 7

To get a breakdown of whom the notes are assigned to, give two extra parameters: 1. The name of a Tcl variable into which the note counts command will store its results. 2. The name of the note property that you wish to do a breakdown of - in this case, Resp:

```
note counts BugReport -dbquery "State# 'closed'" MyMap Resp
```

This command also returns the number 7 but stores the following data in the array variable MyMap:

```
MyMap(ron) 1
MyMap(mark) 5
MyMap(jason) 1
```

Use array names or array get to extract the data from the MyMap array. For example:

```
array names MyMap
```

would return

```
"ron mark jason"
```

and

```
array get MyMap
```

would return

```
"ron 1 mark 5 jason 1"
```

To find the BugReports assigned to each engineer and get a breakdown by priority, you pass one additional parameter: the name of the additional property to break down by - in this case, Priority:

```
note counts BugReport -dbquery "State#'closed'" MyMap Resp Priority
```

You do not need to specify any additional output parameters when you add additional dimensions to the report; the results all go into the single output array parameter (MyMap), which in this example would be filled as follows:

```
MyMap(ron,high)      1
MyMap(mark,medium)  2
MyMap(mark,high)    2
MyMap(mark,stopper) 1
MyMap(jason,low)    1
```

The array contains only non-zero entries. For instance, user jason is not assigned any high-priority BugReports, so the report does not include the entry:

```
MyMap(jason,high) 0
```

Thus MyMap could be termed a sparse matrix.

It is also possible to further break down data by a third dimension.

In most cases, you would not use this command to generate this type of report. Like all the other note commands, the note counts command is best used as a building block.

Example Showing Time-Based Reporting on NoteTypes

This example illustrates time-based reporting.

To chart the incoming rate for BugReports, with a breakdown by month, you would use the following command:

```
note counts BugReport MyMap DateCreate -dateresolution months
```

The resulting map might look like this:

```
MyMap(2002-01) 2
MyMap(2002-02) 3
MyMap(2002-04) 5
```

This result indicates that two BugReports were filed in January 2002, three in February, and five in April. Empty buckets are not included: no BugReports were filed in March so there is no MyMap(2002-03) entry. Getting resolution by week would be difficult. You would have to use %W formatting (Week-of-year, 0-52) and convert the resulting data to get back to human-readable dates.

ENOVIA Synchronicity Command Reference - File

EXAMPLE 3

The following command itemized the objects in RevisionControl notes for each command and and for each user.

```
note counts RevisionControl -countlinks MyMap Command Author
parray MyMap
```

The output of the MyMap variable is:

```
MyMap(ci,) = 0
MyMap(ci,Administrator) = 1
MyMap(ci,Debra) = 4
MyMap(ci,George) = 0
MyMap(ci,Loren) = 6
MyMap(co lock,George) = 2
MyMap(co lock,Harry) = 0
MyMap(co lock,Debra) = 7
MyMap(co lock,Loren) = 0
```

note create

note create Command

NAME

```
note create          - Creates a new note
```

DESCRIPTION

This command creates a new note of a specified note type.

Certain default behaviors apply when a note is created:

- * Notes are assigned a unique ID number that is 1 greater than the largest note ID number created in the database for a note of this type. However, two note create calls in a row would not necessarily return ID numbers that were incremented by 1. Another call in a different process could have created a note of the same note type.
- * The default creation date of a note (i.e., its DateCreate property) is set to the current server time.
- * The Author field defaults to the user ID (user name) of the person executing the command.

All of these default behaviors can be overridden with the note create command.

You can set any number of properties when a note is created. If an invalid value is supplied for any property, the entire note creation

process fails. If a property is not assigned an explicit value in the command, the default value for the note type is used. It is not an error to omit values for properties that are required by the note type.

If a property name is specified multiple times with different values, the last value is stored.

The successful execution of this command causes an atomic note create event and fires the corresponding triggers in response.

This command is available only from server-side scripts.

SYNOPSIS

```
note create [-date <date>] [-id <id>] -type <type_name>
           [{<name> <value>} [...]]
```

ARGUMENTS

- [Name/Value for Note Properties](#)

Name/Value for Note Properties

{<name> <value>} Additional properties of the note, expressed as a list of name/value pairs. The first element of the pair is a valid property name of the note type and the second is the property value, which must be legal for the property type.

If a value for the Id property is specified, use it as if the -id option had been used. An AMBIGUOUS_ID error is thrown if -id is used as well as an Id property value.

Similarly, if both the -date argument and the DateCreate property are specified, an AMBIGUOUS_DATE error is thrown.

Note that the curly braces specify the Tcl list syntax; they do not indicate a required argument as is true in most syntax descriptions.

The note create command currently accepts multiple name/value pair lists for backward compatibility; however, this form is deprecated and Synchronicity strongly recommends avoiding this form.

OPTIONS

ENOVIA Synchronicity Command Reference - File

- [-date](#)
- [-id](#)
- [-type](#)

-date

`-date <date>` A date value representing the creation date of the note. The `<date>` value should be an ISO-8601 formatted date in UTC - for example:

```
2003-05-29 12:34:56
```

If the `-date` option is omitted, the note creation time is the current time, stored in UTC.

Although the creation time is stored in UTC, the GUI displays the creation time in the client's local time.

-id

`-id <id>` The unique ID number for the note. If this number is not unique, the note is not created and you get the `DUPLICATE_ID` error code. If the `-id` option is omitted, the next available ID number is used.

Each note type maintains its own internal ID generator. If the explicit ID number is higher than the currently existing internal ID of the generator, then the generator is adjusted to this new maximum ID number. That is, the next calls to `note create` with the `-id` option omitted will generate a number that is higher than the explicitly given ID number in this call. This behavior prevents collisions between the automatically generated IDs and explicitly created ones.

If two processes are creating notes of the same note type and one is using the `-id` option while the other is using the default assigned ID, one of the processes is likely to fail because of conflicting ID numbers.

If the delta number that the generator has to skip over is very high (e.g., above 10,000), then the command execution time may be much higher than normal, as the process has to skip over this delta. This case also increases the likelihood of failing with conflicting ID numbers.

-type

`-type <type_name>` The name of a note type (for example, Note or "BugReport") for which a new note is created.

A note type name is limited to 24 characters and can contain only letters, numbers, hyphens, and underscores. Note type names cannot begin with hyphens or numbers and cannot contain spaces or special characters.

RETURN VALUE

The URL of the new note.

SEE ALSO

`note delete`, `note attach`, `note detach`, `note links`, `server-side`, `rstcl`

EXAMPLES

- [Example Showing Creating of a New Note with a Specific ID.](#)
- [Example Showing Creating a Note Using the Default ID](#)

Example Showing Creating of a New Note with a Specific ID.

This example creates a new note of the Note notetype.

```
note create -type Note \
  -id 6674 \
  -date 2002-05-29 \
  {Title "Hello, World!"} {Body "Main portion of a note."} \
  {Author goss}
```

Example Showing Creating a Note Using the Default ID

This example creates a new BugReport using the next available ID number and sets the creation time as the current time:

```
note create -type "BugReport" {Title "Broken!"} \
  {Body "It broke."} {Author norm}
```

note delete

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note delete Command

NAME

note delete - Deletes a note and associated notelinks

DESCRIPTION

This command deletes a note and any associated notelinks -- the links between the note and any objects to which it is attached. The note delete command also deletes any files attached to the note in fileattach fields. The note to be deleted must exist.

The successful execution of this command causes an atomic note delete event and fires the corresponding triggers in response.

This command is available only from server-side scripts.

SYNOPSIS

```
note delete <NoteURL>
```

OPTIONS

none

OPERANDS

- [Note URL](#)

Note URL

<NoteURL> A valid URL for the note to be deleted.

RETURN VALUE

none

SEE ALSO

note detach, note links, note create, server-side, rstcl

EXAMPLES

This example deletes BugReport note 2:

```
note delete sync:///Note/SyncNotes/BugReport/2
```

note detach

note detach Command

NAME

note detach - Deletes the link between a note and an object

DESCRIPTION

This command detaches a note from the specified object, deleting the notelink -- the link between the object and the note.

The <NoteURL> argument must be to a note object. The <ObjURL> argument can be to any legal URL, including another note.

It is not an error to attempt to remove a notelink that does not exist. However, <NoteURL> and <ObjURL> both must exist if the object is a note. It is not an error to remove a non-note object that does not exist. (Although, as with all note commands, the URLs must be well-formed.)

The successful execution of this command causes an atomic note detach event and fires the corresponding triggers in response.

This command is available only from server-side scripts.

SYNOPSIS

```
note detach <NoteURL> <ObjURL>
```

OPTIONS

none

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OPERANDS

- [Note URL](#)
- [Object URL](#)

Note URL

<NoteURL> A valid note URL.

Object URL

<ObjURL> A valid URL to an object to detach from the note.

RETURN VALUE

none

SEE ALSO

note attach, note delete, note links, server-side, rstcl

EXAMPLES

- [Example of Detaching a Bug Report from a Project](#)
- [Example of Detaching a Bug Report from a Tagged Configuration](#)

Example of Detaching a Bug Report from a Project

This example detaches the bug report from the Asic project:

```
note detach sync:///Note/SyncNotes/BugReport/2 sync:///Projects/Asic
```

Example of Detaching a Bug Report from a Tagged Configuration

This example detaches the bug report from the Rel1 configuration of the Asic project:

```
note detach sync:///Note/SyncNotes/BugReport/2 \  
          sync:///Projects/Asic@Rel1
```

note getprop

note getprop Command

NAME

note getprop - Retrieves a property of a note

DESCRIPTION

This command retrieves the value of a single property on a note, such as might have been stored with `note setprops`, `url setprop`, or `note create`. The note must exist and the property name must be one of the property names contained in the note type of the note.

This command only works in server-side scripts.

SYNOPSIS

```
note getprop <NoteURL> <PropertyName>
```

OPTIONS

None

OPERANDS

- [Note URL](#)
- [Property Name](#)

Note URL

<NoteURL> The URL of a note, which must exist.

Property Name

<PropertyName> The name of a property on the note.

RETURN VALUE

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Returns the property value, as a string.

SEE ALSO

note setprops, url properties

EXAMPLES

This example extracts and prints the Title property of \$noteURL, where the \$noteURL stands for a URL such as
sync:///Note/SyncNotes/BugReport/42:

```
puts "Note Title: [note getprop $noteURL Title]"
```

note links

note links Command

NAME

note links - Returns the set of links for a note

DESCRIPTION

This command returns information about notelinks. A notelink is a relationship between a particular note and another object. The note links command queries the database for notelinks that match certain constraints or, if no constraints are given, all notelinks. The constraints can be that the notelink be from a particular note, or to a particular object, or both. Additionally, wildcarding is supported to allow broadening the query to match groups of notes or objects rather than specific notes and objects.

The 'note links' command with no arguments returns a list of lists, where each sublist has two elements: the first is the object URL, the second is the note URL.

With the -object option, only the URLs of notes linked to a given object are returned.

With the -note option, URLs for all objects that are linked to the specified note are returned.

This command is available only from server-side scripts.

SYNOPSIS

```
note links [-norec] [-note <noteURL> | -object <objURL>] [-pairs]
```

OPTIONS

- [-norec](#)
- [-note](#)
- [-object](#)
- [-pairs](#)

-norec

-norec

This option must be used in conjunction with `-object` and with wildcarding in `<objURL>`. It modifies the meaning of the wildcard to prevent it from matching the forward slash character (`/`), thus limiting the wildcard to matching object URLs at the same hierarchical level as the wildcard and not below.

-note

-note <noteURL>

Returns all of the objects that have the specified note attached.

The `<noteURL>` argument is the note URL pattern to match against in the query. In this URL, an asterisk (`*`) may be used as a wildcard in place of a note ID, to match any note of a particular type, or an asterisk may be used instead of the note type, the note ID, and the slash that would separate them, to match any note of any type. Valid URLs are of the form:

```
sync:///Note/SyncNotes/<notetypeName>/<id>
sync:///Note/SyncNotes/<notetypeName>/*
sync:///Note/SyncNotes/*
```

No other form of wildcarding is allowed; in particular, a wildcard may not be used to match part of a note ID, or part of a note type name, or the word `SyncNotes`, or anything to the left of `SyncNotes`.

-object

-object <objURL>

Returns all of the notes that are attached to

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the specified object.

The <objURL> argument is the object URL pattern to match against in the query. In this URL, a trailing asterisk may be used as a wildcard to match attached objects whose URL begins with the specified pattern.

If the object URL pattern to be matched is a note, then the same wildcarding restrictions apply as for <noteURL>. Additionally, if the object URL to be matched is a user URL, only the trailing component (the user ID) may be wildcarded, and only in its entirety.

If the object URL pattern to be matched is not a note or user URL, slightly more flexible rules apply. The wildcard may still appear only as the end (last character), but unlike for <noteURL> it is allowed to match partial path elements. The pattern matching is strictly a substring search; the wildcard will match trailing @configname and ;versioned components and any number of embedded forward slashes (except when -norec is used).

This option must be used in conjunction with -object and with wildcarding in <ObjUrlPat>. It modifies the meaning of the wildcard to prevent it from matching the forward slash character (/), thus limiting the wildcard to matching object URLs at the same hierarchical level as the wildcard and not below.

This option forces the note links command to return a list of lists, even if -note, -object, or both, are specified. See the RETURN VALUE section for more detail.

-pairs

-pairs

This option forces the note links command to return a list of lists, even if -note, -object, or both, are specified. See the Return Value section for more detail.

RETURN VALUE

This command returns results in a variety of forms, depending on the command options you specify. In general, the output is whatever was not specified as an input:

1. If neither -object nor -note are used, then return all notelinks as a list of lists, with each sublist having an

object URL and a note URL, in that order.

2. If `-object <objURL>` is used, then return a list of just the corresponding note URLs.
3. If `-note <noteURL>` is used, then return a list of just the corresponding object URLs.
4. If both `-note` and `-object` are used, then return no URLs, only the number of matching notelinks.
5. If `-pairs` is specified, the output is in the form described in rule 1, taking precedence over rules 2, 3, and 4.

The behavior ensures that if you passed in a note URL or an object URL, you get back its counterpart directly and do not have to extract it from a sublist. However, when either `<objURL>` or `<noteURL>` or both include wildcards, it is usually desirable to get back entire notelinks, with both the constituent URLs for each link. The use of `-pairs` forces this complete form of return value.

Note: URLs for notetype snapshots contain the note type name appended by `_OLD`.

SEE ALSO

`note attach`, `note detach`, `server-side`, `rstcl`

EXAMPLES

- [Example Showing All the Notes Attached to a Project](#)
- [Example Showing The Objects to which a Specific Note is Attached](#)

Example Showing All the Notes Attached to a Project

This example displays the notes that are attached to the `Asic` project before and after attaching a new note.

```
foreach note [note links -object sync:///Projects/Asic] {
  puts "$note<BR>"
}
puts "<BR>"
note attach sync:///Note/SyncNotes/BugReport/2 sync:///Projects/Asic
foreach note [note links -object sync:///Projects/Asic] {
  puts "$note<BR>"
}
```

Example Showing The Objects to which a Specific Note is Attached

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This example displays the objects to which BugReport #2 is attached (the Asic project, and the Beta configuration of Asic):

```
set objects [note links -note sync:///Note/SyncNotes/BugReport/1]
foreach note $objects {
  puts "$obj<BR>"
}
```

Running this script outputs the following:

```
sync:///Projects/Asic
sync:///Projects/Asic@Beta
```

note query

note query Command

NAME

note query - Queries the note system and returns note URLs and values

DESCRIPTION

This command allows general queries against the notes database and returns note URLs and values

This command is available only from server-side scripts.

SYNOPSIS

```
note query [[-attached <ObjUrl> [-norec]]
            [[-dbquery <dbase_expr>] | [-sqlquery <sql_expr>]]
            [-filter ViewNote | EditNote] [-select <PropertyList>]
            [-type <notetype>]
```

OPTIONS

- [-attached](#)
- [-dbquery](#)
- [-filter](#)
- [-norec](#)
- [-select](#)
- [-sqlquery](#)
- [-type](#)

-attached

`-attached <ObjUrl>` Limits results to notes that are attached to objects whose URLs match `<ObjUrl>`. `<ObjUrl>` may contain a trailing wildcard (*) as specified for `-object <ObjUrl>` in the `note links` command.

When used with `RevisionControl` notes, the `-attached` option applies to the `Objects` field.

-dbquery

`-dbquery <dbase_expr>` Returns only notes that match this query string. Must be a valid dBase query. This query is converted to an equivalent SQL expression and used to query the database.

Only a subset of dBase syntax is supported and dBase queries may be retired in a future release.

-filter

`-filter` For access controls, accepts either the `ViewNote` or `EditNote` action and returns a list of the notes allowed for the specified action.

-norec

`-norec` Affects the way `<ObjUrl>` wildcards work, as specified for the `note links` command. This option must be used in conjunction with the `-attached` option and with wildcards.

-select

`-select <PropertyList>` Returns both the URLs of notes matching the query and, for each matching note, the value for each property named in `<PropertyList>`. When `-select` is specified, the return value is a list of lists. Within each sublist, the first element is

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the URL of a note matching the criteria; the others are values in that note for each of the properties specified in <PropertyList>.

You can include the keyword @LINKS as a property in <PropertyList> to return the note's attachments as a list within the return value.

-sqlquery

`-sqlquery <sql_expr>`

Returns only notes that match this query string. Must be a valid SQL expression. The expression is used verbatim in the WHERE clause of an SQL SELECT statement. No error checking is performed on this expression; it is passed directly to the database.

To avoid conflicts with property names and SQL keywords, the column names in the database are formed by prefixing the string f_ to the note property name. Thus a query for notes whose ID number is less than 10 and whose Author is 'joe' must be written in a -sqlquery clause as:

```
f_Id<10 AND f_Author='joe'
```

This prefixing is not necessary for -dbquery syntax.

-type

`-type <notetype>`

Returns only notes of this type, which must exist. If not specified, then the query is applied to all note types.

RETURN VALUE

If -select is not specified, a list of URLs matching the query criteria.

If -select is specified, the return value is a list of lists.
If no notes match the query criteria, an empty list is returned.

SEE ALSO

```
url notes, server-side, rstcl
```

EXAMPLES

- [Example Showing a list of URLs for all Note Types](#)
- [Example Displaying a Specific Note Type Attached to a Project](#)
- [Example Returning Notes Created by a Specific User](#)
- [Example Returning Notes Attached to a Specific Project](#)

Example Showing a list of URLs for all Note Types

This example displays a list of URLs of all notes of all types:

```
puts [note query]
```

The resulting HTML page for a server with two notetypes (BugReport and Note) with two notes of each notetype is:

```
{sync:///Note/SyncNotes/BugReport/1} {sync:///Note/SyncNotes/
BugReport/2} sync:///Note/SyncNotes/Note/1
sync:///Note/SyncNotes/Note/2
```

Example Displaying a Specific Note Type Attached to a Project

The following example displays only notes of type Note that are attached to the Asic project:

```
puts [note query -type Note -attached sync:///Projects/Asic]
```

The resulting HTML page displays the URL of the only note to match the query:

```
sync:///Note/SyncNotes/Note/1
```

Example Returning Notes Created by a Specific User

This example returns a list of every note of any type that was entered by sal, and then displays an pHTML page with the NoteID and Title of each note:

```
set noteList [note query -dbquery Author='sal']
foreach noteUrl $noteList {
  url properties $noteUrl noteProps
  puts "NoteID $noteProps(Id) => $noteProps(Title)<BR>"
}
```

Example Returning Notes Attached to a Specific Project

This example returns a list of every note that is attached to

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```
objects under MyProj (including MyProj itself):
  set urls [note query -attached sync:///Projects/MyProj*]
whereas this example excludes MyProj:
  set urls [note query -attached sync:///Projects/MyProj/*]
```

With the 2.5 release, ProjectSync introduced a client-server database (PostgreSQL). Consequently, some pre-2.5 constructs using the note query command or combinations of commands may suffer from degraded performance. Note query constructs like the following may perform more slowly than they did under the pre-2.5 database:

```
foreach note [note query ....] {
  url getprop $note prop1
}
```

Such constructs should be changed to the following form:

```
note query -select {prop1} ....
```

note relink

note relink Command

NAME

```
note relink          - Moves note attachments from one object
                      to another
```

DESCRIPTION

This command moves all note attachments from one object to another, including links saved for a snapshot. The command also can move attachments to objects below the original source object to corresponding objects below the destination object; the effect is to maintain the same relative tree structure before and after the operation by re-rooting the tree at the destination object. If the destination object does not have a tree of objects below it to match the origin object tree, the attachments are moved but are broken.

This command typically is used when a ProjectSync/DesignSync project is relocated (renamed). <FromObjURL> and <ToObjURL> cannot be note or user URLs, which cannot be renamed. However, the objects can refer to a note type when a note type is renamed.

SYNOPSIS

```
note relink <FromObjURL> <ToObjURL> [-norec]
```

OPTIONS

- [-norec](#)

-norec

`-norec` Causes the command to operate on (re-link) only notes attached directly to the `<FromObjURL>` object, and not any notes attached to objects below it.

OPERANDS

- [From Object URL](#)
- [To Object URL](#)

From Object URL

`<FromObjURL>` The object to rename. Must be a valid URL, but may not reference a note or user object.

To Object URL

`<ToObjURL>` The object to change the references to. Must be a valid URL, but may not be a note or user object.

RETURN VALUE

The number of links that were updated.

SEE ALSO

`note attach`, `note detach`, `note links`, `notetype rename`

EXAMPLES

Move all the attachments from the Maine project to the Indiana project:

```
note relink sync:///Projects/Maine sync:///Projects/Indiana
```

note schema

note schema Command

NAME

note schema - Extracts information about a note type's structure

DESCRIPTION

This command provides programmatic (stcl) access to the schema that defines a note type.

This command is a wrapper to the notetype schema command and is available for backward compatibility only. We discourage the use of this command, as it may be dropped in future releases.

This command is available only from server-side scripts.

note setprops

note setprops Command

NAME

note setprops - Sets property values on a note

DESCRIPTION

This command sets one or more property values (database fields) on a note. This command gives you programmatic (stcl) access to the note-editing capabilities of the ProjectSync graphical interface.

The first argument must be the URL for an existing note. Remaining arguments can be either:

- o One or more pairs of database field name / new value, or
- o A single list containing pairs of field name / new value pairs

The latter form is useful when you do not know ahead of time what properties you will be setting; build a list of the same form that would be used for the Tcl "array set" command and then pass the list to note setprops. This list can be empty.

The property values you supply must be legal for the corresponding property type. The new property values specified in this command are checked against the current values of the property. If they are the same, the new value is discarded. Therefore, if all the values

specified in the command match their current values, the entire command is ignored. The command always attempts to set the complete set of property values on the object. If one or more attempts fail because of invalid values, no change is committed and the entire set of invalid property values is returned in the resultant error.

If a property name is specified multiple times with different values, the last value is stored.

It is not possible to change a note's ID number after the note is created.

The successful execution of this command causes an atomic note modify event and fires the corresponding triggers in response. If no property value is changed by the execution of the command, no event is generated.

When setting multiple properties on the same note, it is better to set them all in a single call to "note setprops" so that trigger activity is reduced.

The related "url setprop" command is limited to one name/value pair, but can operate on any object type, not just notes.

This command is available only from server-side scripts.

SYNOPSIS

```
note setprops [--] <note_url> <propname> <propvalue>
                [<propname> <propvalue>]...
note setprops [--] <note_url> <proplist>
```

OPTIONS

- **--**

--

-- Indicates that the command should stop looking for command options. Use this option when property names or values begin with a hyphen (-).

OPERANDS

- [Note URL](#)
- [Property Name](#)
- [Property Value](#)
- [Property List Name/Value Pairs](#)

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Note URL

<note_url> The URL of a note, which must exist, for which to set property values.

Property Name

<propname> The name of a property on the note, which must exist on the note's note type.

Property Value

<propvalue> A value to set the property of the note to, which must be a valid value for the property type.

Property List Name/Value Pairs

<proplist> A list of property name and value pairs, in the style of Tcl's array set command - for example: {name1 val1 name2 val2 ...}. The names must all be valid property names on the note type and the values must all be legal values for the property type.

RETURN VALUE

none

SEE ALSO

note getprop, url setprop, url getprop, url properties, server-side, rstcl

EXAMPLES

- [Example of Setting the Title on a Specific Note](#)
- [Example of Setting the Title and History for a Specific Note](#)
- [Example of Setting Various Properties on Specific Note](#)

Example of Setting the Title on a Specific Note

This example sets the title on SyncDefect 42:

```
note setprops sync:///Note/SyncNotes/SyncDefect/42
  Title "A test"
```

Example of Setting the Title and History for a Specific Note

This example sets the title and entire history on SyncDefect 42:

```
note setprops sync:///Note/SyncNotes/SyncDefect/42 \
  Title "A test" Body "This is a test"
```

Example of Setting Various Properties on Specific Note

This example sets several properties on SyncDefect 42, using a property list:

```
set newvalues(Resp) sal
set newvalues(State) closed
set newvalues(Priority) low

note setprops sync:///Note/SyncNotes/SyncDefect/42 [array
  get newvalues]
```

note systems

note systems Command

NAME

```
note systems          - Gets a list of note systems
```

DESCRIPTION

A list of all note systems on the server. If no note systems exist, an empty list is returned.

Currently, only a single note system is defined, SyncNotes. This note system always exists.

SYNOPSIS

```
note systems
```

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RETURN VALUE

A list of all note systems on the server. Currently, this command always returns a single item, SyncNotes.

EXAMPLES

Returns the list of note systems on the server:

```
note systems
```

note types

note types Command

NAME

```
note types          - Gets a list of defined note types for all
                      note systems
```

DESCRIPTION

Returns a list of note type URLs for all note types of all note systems on the server. If no note types exist, an empty list is returned.

This command is a wrapper to the notetype enumerate command and is available for backward compatibility only. Synchronicity discourages the use of this command, which may be dropped in future releases.

Note Type Manipulation

note types

note types Command

NAME

```
note types          - Gets a list of defined note types for all
                      note systems
```

DESCRIPTION

Returns a list of note type URLs for all note types of all note systems on the server. If no note types exist, an empty list is returned.

This command is a wrapper to the `notetype enumerate` command and is available for backward compatibility only. Synchronicity discourages the use of this command, which may be dropped in future releases.

notetype

notetype Commands

NAME

`notetype` - Server-side commands to manipulate note types

DESCRIPTION

The 'notetype' family of commands provides access to the notetype web object type. URLs for notetypes have the following form:

```
sync:///Note/SyncNotes/<notetype>
```

For example, the following URL specifies the BugReport notetype:

```
sync:///Note/SyncNotes/BugReport
```

Notes can only be accessed from server-side scripts, so always use the `sync:///` syntax (no `<host>:<port>` specification).

SYNOPSIS

```
notetype <notetype_command> [<notetype_command_options>]
```

```
Usage: notetype [create|delete|enumerate|getdescription|rename|
                schema]
```

EXAMPLES

See specific "notetype" commands.

notetype create

notetype create Command

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NAME

notetype create - Creates a new note type

DESCRIPTION

This command creates a new note type with the name you specify. The properties *Id*, *Title*, *Body*, *DateCreate*, and *Author* are automatically defined for all new note types.

You also can specify additional properties as a list of lists. Each sublist within the property list defines an individual property. A property definition consists of the following five pieces of information, all of which must be specified: property name, prompt string, *IsRequired*, property type, default value.

If you define other properties for the note type, you must specify order-dependent values for each property. If you do not specify additional properties, you must supply an empty Tcl list {} following the *NoteTypeName* option.

This command is server-side only.

SYNOPSIS

```
notetype create [-description <DescStr>] [--]
<NotetypeName> {
    [{<PropertyName> <PromptName> <IsRequired>
    <PropertyTypeName> <DefaultValue>}...]
}
```

OPTIONS

- [-description](#)
- [--](#)

-description

`-description <DescStr>` Specifies a description for the note type; if not specified, the description defaults to the name of the note type. Enter the description in quotation marks or curly braces following the `-description` option. The description is limited to 256 characters.

--

-- Indicates that the command should stop looking for command options. Use this option when an argument begins with a hyphen (-).

OPERANDS

- [Note Type Name](#)
- [Property Name](#)
- [Prompt Name](#)
- [Is Required](#)
- [Property Type Name](#)
- [Default Value](#)

Note Type Name

<NoteTypeName> A valid name that you assign to the note type. A note type name is limited to 24 characters. Spaces are not allowed in note type names, and the legal character set for note type names consists of alphanumerics, hyphens, and underscores. The first character in a note type name cannot be a hyphen or a number.

Property Name

<PropertyName> A unique name that you assign to the property. A property name is limited to 24 characters. Spaces are not allowed in property names, and the legal character set for property names consists of alphanumerics and underscores.

Prompt Name

<PromptName> The prompt displayed on the GUI for users. Use only alphanumeric characters, not special characters or punctuation marks.

Is Required

<IsRequired> A Tcl Boolean indicating whether a value for the property is required or optional. This setting is enforced only at the application level.

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Property Type Name

<PropertyTypeName> The name of a predefined property type. You can use either one of ProjectSync's predefined property types (such as Boolean, String80, Date) or a property type you have defined yourself using the Note Type Manager on the ProjectSync GUI.

Default Value

<DefaultValue> The default value for this property. If there is no default value, specify an empty string "" as a placeholder; the default value will be supplied by the system. If you specify a default value, it must be one of the valid values for this property type. For example, if you have defined a Choice property type, the default value must be in your choice list.

The default value for a property in a note type may be given as an empty string, meaning no default. In this case, and when a note is created with the note create command without a value for the corresponding property, the property in the note will remain unset.

RETURN VALUE

none

SEE ALSO

notetype delete, notetype getdescription, notetype rename, server-side, rstcl

EXAMPLES

The following example creates a note type named BugReport, used for defect tracking. In addition to the standard built-in property set, this note type defines four additional properties: a required user list field, Resp; a required State field; a required Severity field; and an optional CC list.

```
notetype create BugReport -description "Defect tracking" \  
  {{Resp Responsible 1 SyncUserList ""} \  
  }
```

```
{State State 1 BR_State new} \
{Severity Severity 1 BR_Severity serious} \
{cclist CCList 0 String240 ""}}
```

notetype delete

notetype delete Command

NAME

```
notetype delete      - Deletes the specified note type
```

DESCRIPTION

This command deletes the specified note type. You can specify only one note type at a time. Any internal links to and from the note type and any snapshots of the note type also are removed. However, this command does not remove any triggers or customization files associated with the note type.

Important: It is strongly recommended that you do not delete the RevisionControl note type, which is a standard part of ProjectSync. This note type is designed to work with DesignSync for projects under revision control. Removing this note type could cause problems if you later want to use ProjectSync notes with DesignSync.

If the note type contains any notes, the `-purgenotes` option must be specified to confirm your intent to delete the note type (analogous to requiring `rm -r` for a nonempty directory).

This command is server-side only.

SYNOPSIS

```
notetype delete [-purgenotes] <NoteTypeName>
```

OPTIONS

- [-purgenotes](#)

`-purgenotes`

```
-purgenotes      Forces the deletion of all notes attached
                  to the specified note type. If you do not
                  specify this option and the note type you
```

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want to delete contains notes, you get an error and the note type is not deleted.

OPERANDS

- [Note Type Name](#)

Note Type Name

<NoteTypeName> The name of the note type to delete, which must exist.

RETURN VALUE

none

SEE ALSO

notetype create, notetype rename

EXAMPLES

The following example deletes the SyncDefect note type, including all notelinks, even if some notes exist for the note type:

```
notetype delete SyncDefect -purgenotes
```

notetype enumerate

notetype enumerate Command

NAME

```
notetype enumerate - Gets a list of defined note types for all  
note systems
```

DESCRIPTION

Returns a list of note type names for all visible note types of all note systems on the server. If no note types exist, an empty list is returned.

SYNOPSIS

```
notetype enumerate [-dbtablenames <dbTablenameVar>] [-urls]
```

OPTIONS

- [-dbtablenames](#)
- [-urls](#)

-dbtablenames

```
-dbtablenames <dbTablenameVar>
```

Store a map of the SQL table names by note type name in the Tcl array named <dbTablenameVar>. The table name is the note type name prefixed by t_, but this convention may not be used in the future. If a note type name contains a hyphen, the hyphen is converted to an underscore in the table name. The information from this option can be used to construct SQL statements dynamically.

-urls

```
-urls
```

The return list is formatted as note type URLs instead of the note type names. This output format is compatible with the format from the note types command.

RETURN VALUE

A list of all note type names for all note systems.

SEE ALSO

note systems, notetype create, notetype delete, notetype rename, url contents

EXAMPLES

ENOVIA Synchronicity Command Reference - File

Returns the list of note types on the server:

```
puts [notetype enumerate]
SyncDefect SW-Defect-1
```

notetype getdescription

notetype getdescription Command

NAME

```
notetype getdescription - Returns a brief description of the
                        note type
```

DESCRIPTION

Returns a brief description of the note type. The description was set when the note type was created.

SYNOPSIS

```
notetype getdescription <NotetypeName>
```

OPERANDS

- [Note Type Name](#)

Note Type Name

| | |
|----------------|--|
| <NotetypeName> | The name of the note type, which must exist. <NotetypeName> is case-sensitive. |
|----------------|--|

RETURN VALUE

A string containing the value of the brief description recorded when the note type was created.

SEE ALSO

notetype create, url setprop

EXAMPLES

Returns the description of the SyncDefect note type:

```
notetype getdescription SyncDefect
```

notetype rename**notetype rename Command****NAME**

```
notetype rename      - Renames an existing note type
```

DESCRIPTION

Renames an existing note type from <CurrentName> to <NewName>. The note type specified by <NewName> must not already exist.

Any notelinks associated with the note type being renamed are also converted to be associated with the renamed note type name. This includes attachments both to and from the note type. Any snapshot of the note type also is renamed.

The note-type-specific files in \$SYNC_CUSTOM_DIR/servers/<host>/<port>/share/data are not renamed as part of the operation. However, these files are renamed if you use the ProjectSync Note Type Manager to rename the note type.

This command is server-side only.

Important: It is strongly recommended that you do not rename the RevisionControl note type, which is a standard part of ProjectSync. This note type is designed to work with DesignSync for projects under revision control. Renaming this note type could cause problems if you later want to use ProjectSync notes with DesignSync.

SYNOPSIS

```
notetype rename <CurrentName> <NewName>
```

OPTIONS

```
none
```


ENOVIA Synchronicity Command Reference - File

OPERANDS

- [Current Name](#)
- [New Name](#)

Current Name

<CurrentName> The existing note type name that you want to change.

New Name

<NewName> The new, legal note type name that you want to use. A note type name is limited to 24 characters. Spaces are not allowed in note type names, and the legal character set for note type names consists of alphanumerics, hyphens, and underscores. The first character in a note type name cannot be a hyphen or a number.

RETURN VALUE

none

SEE ALSO

note relink, notetype create, notetype delete

EXAMPLES

The following example changes the name of the note type from AcmeBug to AjaxBug:

```
notetype rename AcmeBug AjaxBug
```

notetype schema

notetype schema Command

NAME

```
notetype schema      - Extracts information about a note type's
                      structure
```

DESCRIPTION

This command provides programmatic (stcl) access to the schema that defines a note type.

The base set of information provided by this command is the list of fields that make up the note type. This information is provided in the return value of the command. The various command-line options allow for retrieving additional attribute information about each property on the note type. The results for each type of property information are returned in Tcl arrays that are passed in by name. The Tcl arrays need not exist prior to the execution of the command. If the arrays do exist or are of a scalar variable type, they are first cleared of all information. The data returned in these Tcl arrays is indexed by property name.

SYNOPSIS

```
notetype schema <NotetypeName> [-dbcolumns <ColumnsVar>]
                        [-defaults <DefaultsVar>] [-notesys <NoteSystemName>]
                        [-prompts <PromptsVar>] [-ptypes <TypesVar>]
                        [-required <ReqdVar>]
```

OPTIONS

- [-dbcolumns](#)
- [-defaults](#)
- [-notesys](#)
- [-prompts](#)
- [-ptypes](#)
- [-required](#)

-dbcolumns

```
-dbcolumns          Stores a map of column names by field name in
  <ColumnsVar>      the Tcl array named <ColumnsVar>. Currently, the
                    column name is always the field name prefixed by
                    f_, but this convention may not be used in the
                    future. This information from this option can be
                    used to construct SQL statements dynamically.
```

-defaults

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`-defaults` Stores a map of default values by field name in
 `<DefaultsVar>` the Tcl array named by `<DefaultsVar>`

-notesys

`-notesys` A valid note system name. Defaults to SyncNotes.
 `<NoteSystemName>` (This name is an input parameter, not an output
 array name.)

-prompts

`-prompts` Stores a map of field prompt strings by field
 `<PromptsVar>` name in the Tcl array named by `<PromptsVar>`

-ptypes

`-ptypes` Stores a map of property type names by field
 `<PtypesVar>` name in the Tcl array named by `<PtypesVar>`

-required

`-required` Stores a map of required flags (1 or 0) by field
 `<ReqdVar>` name in the Tcl array named by `<ReqdVar>`

RETURN VALUE

A list of all field names in the specified note type.

SEE ALSO

`note getprop`, `notetype create`, `url getprop`, `url properties`

EXAMPLES

- [Example Returning all Fields in the Specified Note Type](#)
- [Example Displaying the Types for Each Field](#)

Example Returning all Fields in the Specified Note Type

This example returns all the fields in the SyncDefect note type:

```
set field_names [notetype schema SyncDefect]
```

Example Displaying the Types for Each Field

This example displays the type of each field:

```
set field_names [notetype schema -ptypes types SyncDefect]
foreach field $field_names {
    puts "$field: $types($field)<BR>"
}
```

The above example generates output such as this:

```
KeyWords: String80
Browser: SD-Browser
Title: String80
Class: SD-Class
Platform: SD-Platform
Customer: SD-Customers
DateCreate: Timestamp
```

This example determines whether the FixDate field in a note type called ECO is required:

```
notetype schema -required reqd ECO
if {$reqd(FixDate)} { puts "FixDate is required." }
```

Property Type Information Commands

ptype

ptype Commands

NAME

```
ptype          - Commands that get information about property types
```

DESCRIPTION

The ptype commands return information about property types. Property types are the data types available for note type properties (fields). When you create a note type field such as 'SpecAuthor', you assign it a property type, such as 'String80'. Synchronicity provides a number of predefined property types, or you can create your own. You create and modify property types from the Property Type Manager

ENOVIA Synchronicity Command Reference - File

(accessed from the Note Type Manager in ProjectSync's graphical user interface). See the ProjectSync User's Guide for more information on property types.

The ptype commands are not server-side only, but are typically used when accessing note and note-type objects, which are only accessible from server-side scripts.

SYNOPSIS

```
ptype <ptype_command> [<ptype_command_options>]
```

```
Usage: ptype [choices|class|enumerate|is|strwidth|transitions]
```

OPTIONS

Vary by command.

RETURN VALUE

Varies by command.

SEE ALSO

ptype choices, ptype class, ptype enumerate, ptype is, ptype strwidth, ptype transitions

EXAMPLES

See specific "ptype" commands.

ptype choices

ptype choices Command

NAME

```
ptype choices      - Returns the set of legal values for  
                    an enumerated type
```

DESCRIPTION

This command returns the set of legal values for an existing choice or state machine property type. For a state machine, the set of choices returned is the entire list of possible state values. Only choice and state machine property types may be specified. It is an error to supply a property of any other type.

SYNOPSIS

```
ptype choices <ptype_name>
```

OPERANDS

- [Custom Property Type Name](#)

Custom Property Type Name

<ptype_name> The name of an existing choice or state machine custom property type.

RETURN VALUE

The list of legal values for the property type.

SEE ALSO

ptype is, ptype class, ptype transitions

EXAMPLES

This examples shows 'ptype choices' applied to several property types:

```
puts [ptype choices SyncPriority] # choice class
=> low medium high stopper
puts [ptype choices SyncState]   # state-machine class
=> open analyzed fixed closed
```

ptype class

ptype class Command

NAME

ENOVIA Synchronicity Command Reference - File

`ptype class` - Returns the class of a property type

DESCRIPTION

This command returns the class of a property type, where a class is a general category of property types. For example, `String10`, `String80`, and `String` are all property types of the 'string' class. Note that state-machine property types belong to both the 'machine' and 'choice' classes; the dominant class is 'machine' and is therefore returned by 'ptype class'.

SYNOPSIS

```
ptype class <ptype_name>
```

OPERANDS

- [Custom Property Type Name](#)

Custom Property Type Name

`<ptype_name>` The name of an existing property type.

RETURN VALUE

Returns one of the following strings:

| | |
|------------------------|--|
| <code>boolean</code> | - for boolean types |
| <code>choice</code> | - for choice (enumeration) types |
| <code>date</code> | - for Date types |
| <code>machine</code> | - for state machine types |
| <code>number</code> | - for integer, float and other numeric types |
| <code>string</code> | - for string types (of any size) |
| <code>time</code> | - for Time types |
| <code>timestamp</code> | - for Timestamp types |
| <code>userlist</code> | - for user list types |

SEE ALSO

`ptype choices`, `ptype enumerate`, `ptype is`

EXAMPLES

This example shows 'ptype class' applied to several property types:

```
puts [ptype class String80]
=> string
puts [ptype class String]
=> string
puts [ptype class SyncState]
=> machine
```

ptype enumerate

ptype enumerate Command

NAME

```
ptype enumerate      - Returns a list of all property types
```

DESCRIPTION

Generates a list of all property types on the server. The set of property types returned consists of all custom choice and state machine property types plus the built-in base property types:

| | | |
|-------------|-------------|----------------|
| String | Boolean | SyncClass |
| String10 | Integer | SyncUserList |
| String20 | Float | SyncPriority |
| String80 | Date | SyncRevCtrlCmd |
| String240 | Time | SyncState |
| String512 | Timestamp | |
| String4000b | "WebObject" | |

This list excludes the string-derived property types like cclist, keywords, and fileattach. These are all defined, and their semantics imposed, at the note panel level.

SYNOPSIS

```
ptype enumerate
```

OPTIONS

```
none
```

RETURN VALUE

ENOVIA Synchronicity Command Reference - File

List of property types.

EXAMPLES

This example lists all the property types known to the server:

```
puts [ptype enumerate]
=> String80 String Boolean String240 Integer SyncClass String20
    Float String10 SyncRevCtrlCmd {WebObject } String512 SyncPriority
    Time Timestamp Date String4000b SyncUserList SyncState
```

ptype is

ptype is Command

NAME

```
ptype is          - Tests whether a property type is of a
                    certain class
```

DESCRIPTION

This command tests whether the specified property type is of the specified class, where a class is a general category of property types. For example, String10, String80, and String are all property types of the 'string' class. Note that state-machine property types belong to both the 'machine' and 'choice' classes.

SYNOPSIS

```
ptype is <[-boolean] | [-choice] | [-date]
         | [-machine] | [-number] | [-string]
         | [-time] | [-timestamp] [-userlist]>
         <PropertyName>
```

OPTIONS

- [-boolean](#)
- [-choice](#)
- [-date](#)
- [-machine](#)
- [-number](#)
- [-string](#)

- [-time](#)
- [-timestamp](#)
- [-userlist](#)

-boolean

-boolean Check if the property type is a boolean.

-choice

-choice Check if the property type is a choice (enumeration) type. Note that 'ptype is -choice' also returns 1 (TRUE) if the property type is a state machine.

-date

-date Check if the property type is a date.

-machine

-machine Check if the property type is a state machine.

-number

-number Check if the property type is an integer, float, or other numeric type.

-string

-string Check if the property type is a string (of any size).

-time

-time Check if the property type is a time.

-timestamp

-timestamp Check if the property type is a timestamp.

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-userlist

`-userlist` Check if the property type is a user list.

OPERANDS

- [Custom Property Type Name](#)

Custom Property Type Name

`<PropertyName>` The name of an existing property type

RETURN VALUE

Returns 1 (TRUE) if the property type is of the specified class;
0 (FALSE) otherwise.

SEE ALSO

`ptype class`, `ptype enumerate`

EXAMPLES

This example verifies that the `SyncPriority` property type is of the 'choice' class (and not of the 'string' class).

```
puts [ptype is -choice SyncPriority]
=> 1
puts [ptype is -string SyncPriority]
=> 0
```

ptype strwidth

ptype strwidth Command

NAME

`ptype strwidth` - Returns the maximum width for strings of this type

DESCRIPTION

This command returns the maximum number of characters a string-based property type can hold. The property type specified must be based on a string class. This command deals with character width, not byte width.

SYNOPSIS

```
ptype strwidth <ptype_name>
```

OPERANDS

- [Custom Property Type Name](#)

Custom Property Type Name

<ptype_name> The name of an existing property type.

RETURN VALUE

Returns the maximum number of characters allowed for the given property type. For the String property type, -1 is returned, indicating no maximum.

SEE ALSO

ptype is, ptype class

EXAMPLES

This example shows 'ptype strwidth' applied to several property types.

```
puts [ptype strwidth String80]
=> 80
puts [ptype strwidth String10]
=> 10
puts [ptype strwidth String]
=> -1
puts [ptype strwidth Boolean]
=> Boolean: not a string type
```

ptype transitions

ptype transitions Command

ENOVIA Synchronicity Command Reference - File

NAME

`ptype transitions` - For the value of a state machine, returns the set of values that are legal for that value to change to

DESCRIPTION

This command returns a list of the valid next states for any specified state of a State Machine property type. The `-from` option is required and indicates the state for which you want to know all possible next states.

SYNOPSIS

```
ptype transitions <PropertyTypeName> <-from <PropertyValue>>
```

OPTIONS

- [-from](#)

`-from`

`-from <PropertyValue>` Returns the list of states that are valid from `<PropertyValue>`, which must be a legal value for the state machine.

OPERANDS

- [Custom Property Type Name](#)

Custom Property Type Name

`<PropertyTypeName>` The name of an existing property type.

RETURN VALUE

A list of legal state values from the value specified.

SEE ALSO

```
ptype choices, ptype is
```

EXAMPLES

The following example returns a list of all the valid next states for the state 'fixed' of the SyncState property type.

```
puts [ptype choices SyncState]
=> open analyzed fixed closed
puts [ptype transitions SyncState -from fixed]
=> open closed
```

Email Subscription Manipulation

subscription

subscription Commands

NAME

```
subscription          - Commands to manipulate email subscriptions
```

DESCRIPTION

These commands allow you to manage ProjectSync email subscriptions which let you be notified when certain kinds of activity, such as revision control operations, or defect tracking, take place in DesignSync or ProjectSync.

SYNOPSIS

```
subscription <subscription_command> [<subscription_command_options>]
```

```
Usage: subscription [add|delete|edit|get|list]
```

OPTIONS

Vary by command.

subscription add

subscription add Command

NAME

subscription add - Subscribes for email related to specified objects

DESCRIPTION

This command has two basic forms. The first form of this command is general. It allows you to subscribe for email notifications related to any note type on the server managing the vaults for the specified objects.

The second form of this command is specific to RevisionControl notes. It allows you to subscribe for email notifications related to RevisionControl notes on the server managing the vaults for the specified objects. This form also has convenient options for limiting the subscription to certain RC operations.

Note that a single 'subscription add' command invocation can cause multiple entries in the subscription database, as reported by the 'subscription list' command. For example, this command creates two entries:

```
subscription add *.tcl *.html
```

and this one creates four entries:

```
subscription add -ci -tag *.tcl *.html
```

Note: If you specify a subscription for the tag command, but do not have a subscription for the ci command, you will not get notifications for any ci -tag operations that specify a tag. In order to get all tag activity, you must also subscribe to ci command notifications.

SYNOPSIS

```
subscription add [-ci] [-colock] [-conolock] [-filter Expr]
                 [-noteType noteType] [-server serverURL] [-tag]
                 [-tagname TagName] [-unlock] [-user user] object...
```

ARGUMENTS

- [Object](#)

Object

object An expression (possibly containing wildcards) that must match one of the objects associated with a note in order

for you to receive email. If no objects are provided, the default is to subscribe for ALL objects.

OPTIONS

- [-ci](#)
- [-colock](#)
- [-conolock](#)
- [-filter](#)
- [-notetype](#)
- [-server](#)
- [-tag](#)
- [-tagname](#)
- [-unlock](#)
- [-user](#)

-ci

-ci Indicates that you wish to receive email when the objects listed are checked in. Implies the note type 'RevisionControl'.

-colock

-colock Indicates that you wish to receive email when the objects listed are checked out with a lock. Implies the note type 'RevisionControl'. The same assumptions are applied for 'populate -lock' operations.

-conolock

-conolock Indicates that you wish to receive email when the objects listed are checked out without a lock. For the 'co -get' and 'populate -get' operations, the note type 'RevisionControl' is assumed.

-filter

-filter Gives an expression describing which modifications to notes of the given type(s) will cause email to be sent. For a complete explanation of the filter expression syntax, see the ProjectSync User's Guide 'Advanced Email Subscriptions' topic. Note that if stcl is used the '\$' operator needs to be escaped when used in a filter. For example, -filter

ENOVIA Synchronicity Command Reference - File

Title\\${Test}.

-notetype

-noteType Specifies the name of the note type for which subscriptions are to be added.

If **-ci**, **-conolock**, **-colock**, **-unlock**, or **-tag** are used, then the **noteType** is assumed to be 'RevisionControl'.

If a note type is not provided and there are not any revision control operations listed, subscriptions for ALL note types will be modified.

-server

-server Gives the URL of the server to query for subscriptions. If no server URL is given, the server owning the vault for the current working directory is assumed.

-tag

-tag Indicates that you wish to receive email when the objects listed are tagged. Implies the note type 'RevisionControl'.

-tagname

-tagName Limits your email subscriptions to those concerning revision control operations associated with the given tag.

-unlock

-unlock Indicates that you wish to receive email when the objects listed are unlocked. Implies the note type 'RevisionControl'. The same assumptions are applied for 'cancel' operations.

-user

-user Allows you to add subscriptions for another user. By default, subscriptions are shown for the user running

the client.

RETURN VALUE

none

SEE ALSO

subscription delete, subscription edit, subscription get,
subscription list

EXAMPLES

- [Example of Subscribing to SyncDefect Notes](#)
- [Example of Subscribing to Specific Objects Tagged with a Specific Tag](#)
- [Example of Subscribing to Specified RC Notes](#)
- [Example of Subscribing to all Notes Attached to a Project](#)

Example of Subscribing to SyncDefect Notes

This example shows subscribing to SyncDefect notes attached to any object under project ASIC on the SyncServer.

```
dss> subscription add -noteType SyncDefect sync:///Projects/ASIC
```

Example of Subscribing to Specific Objects Tagged with a Specific Tag

This example shows two different ways to subscribe to RevisionControl notes when objects representing the .tcl files under [url vault .] are tagged as golden.

```
dss> subscription add -noteType RevisionControl -filter \  
    "Command=tag;Tag=Golden" *.tcl
```

```
dss> subscription add -tag -tagname Golden *.tcl
```

Example of Subscribing to Specified RC Notes

Subscribe to RC notes for objects *.tcl and *.ini for operations: checkin, checkout with lock.

```
dss> subscription add -ci -colock *.tcl *.ini
```

ENOVIA Synchronicity Command Reference - File

Example of Subscribing to all Notes Attached to a Project

This example subscribes to all notes attached to objects sync:///Projects/ASIC on the SyncServer.

```
dss> subscription add ASIC
```

subscription delete

subscription delete Command

NAME

subscription delete - Deletes email subscriptions for specified objects

DESCRIPTION

This command allows you to delete email subscriptions for the specified objects. For each object you specify, the server hosting the vault for that object will be searched for subscriptions.

Use the 'subscription list' command to view your existing subscriptions.

This command provides several different ways to delete subscriptions.

- * Delete all subscriptions for a specified user on the server.
- * Delete any subscriptions which were defined to refer to ALL (objects).
- * Deletes any subscriptions for a specified note type which were defined to refer to ALL (objects).
- * Delete subscriptions for a user on a specified object, optionally for a specified note type.

Examples of all of these methods are shown in the Examples section.

SYNOPSIS

```
subscription delete [-noteType noteType] [-server serverURL]  
                   [-user user] [<object>[ ...]]
```

ARGUMENTS

- [Object](#)

Object

object The objects for which subscriptions are to be deleted. For each object you specify, the server hosting the vault for that object is searched for subscriptions. You may use wildcards in the object value.

Note: The object specification must match exactly the specification in the subscription database. For instance, if you subscribed for `Projects/MyProj/Foo/bar`, you cannot unsubscribe `projects/MyProj/Foo/*` because that is not an exact match.

If an object is not specified, subscriptions to ALL objects (those subscriptions for which the user selected ALL objects instead of specifying a particular object) are deleted. If a `noteType` value is provided without an object, subscriptions to ALL objects for that `noteType` are deleted.

OPTIONS

- [-notetype](#)
- [-server](#)
- [-user](#)

-notetype

`-noteType` Specifies the name of the note type for which subscriptions are to be deleted.

-server

`-server` Gives the URL of the server to query for subscriptions. If no server URL is given, the server owning the vault for the current working directory is assumed.

-user

`-user` Allows you to delete the subscriptions of a user other than the user you are logged in as. By default, the name of the user running the client is used.

RETURN VALUE

`none`. After the command is run, it returns a single integer value showing how many subscriptions were deleted during the operation.

ENOVIA Synchronicity Command Reference - File

SEE ALSO

subscription add, subscription edit, subscription get, subscription list

EXAMPLES

- [Example of Deleting all Subscriptions for a User](#)
- [Example of Deleting Subscriptions for all Objects](#)
- [Example of Deleting Subscriptions for a NoteType for all Objects](#)
- [Example of Deleting all Subscriptions on the Specified Object](#)
- [Example of Deleting all Specified Notetypes for an Object](#)

Example of Deleting all Subscriptions for a User

This example shows deleting all subscriptions created for a specified user on the specified server.

Note: By using the wildcard (*) for the object, you specify deleting all subscriptions for all objects for the user on the server.

```
dss> subscription delete -user rsmith -server  
sync://srv1.ABCo.com:2647 *
```

30

Example of Deleting Subscriptions for all Objects

This example shows deleting the subscriptions created to match all objects (either by not specifying an object when the subscription was added or by choosing the ALL option).

Note: No value, not even wildcard, is specified for object.

```
dss> subscription delete -user rsmith -server sync://srv1.ABCo.com:2647  
15
```

Example of Deleting Subscriptions for a NoteType for all Objects

This examples shows deleting the subscriptions for the Defect note type.

Note: By not specifying a user, the subscriptions deleted are those of the user running the command.

```
dss> subscription delete -notetype Defect -server sync://srv1.ABCo.com:2647  
10
```

Example of Deleting all Subscriptions on the Specified Object

This example shows deleting all subscriptions for the specified user for the specified project.

Note: The /// construction shows that it is an object, not a reference to the server.

```
dss> subscription delete -user rsmith sync:///Projects/ProjectSync/*  
30
```

Example of Deleting all Specified Notetypes for an Object

This example shows deleting all Defect note types for all objects within the panels project.

```
dss> subscription delete -noteType Defect panels/*  
8
```

subscription edit

subscription edit Command

NAME

```
subscription edit - Edits email subscriptions
```

DESCRIPTION

This command invokes a web browser to edit the email subscription of the given user.

On Unix platforms, the default browser chosen by your system administrator will be used. To change the default, use the 'SyncAdmin' tool. On Windows platforms, the default browser defined in the system registry will be used.

SYNOPSIS

```
subscription edit [-server serverURL] [-user user]
```

OPTIONS

- [-server](#)
- [-user](#)

ENOVIA Synchronicity Command Reference - File

-server

`-server` Gives the URL of the server to query for subscriptions. If no server URL is given, the server owning the vault for the current working directory is assumed.

-user

`-user` Allows you to edit the subscriptions of a user other than the user you are logged in as. By default, the name of the user running the client is used.

RETURN VALUE

1

SEE ALSO

`subscription add`, `subscription delete`, `subscription get`,
`subscription list`

EXAMPLES

- [Example of Editing a Subscription on the Server Associated with cwd](#)
- [Example of Editing a Subscription on a Specified Server](#)

Example of Editing a Subscription on the Server Associated with cwd

This example shows the command that launches your web browser to edit subscriptions on the server associated with the current working directory, pointed to by `[url vault .]`

```
dss> subscription edit
```

Example of Editing a Subscription on a Specified Server

Brings up your web browser to edit subscriptions on `SyncServer:2647`.

```
dss> subscription edit -server sync://SyncServer:2647
```

subscription get

subscription get Command

NAME

subscription get - Gets subscription information as a Tcl list

DESCRIPTION

For a user-friendly view of the subscriptions, use the 'subscription list' command. This command is intended for use by those who wish to manipulate the subscription database using Tcl.

Each subscription entry is returned as a Tcl list with alternating names and values ('array get' format). The following names are used:

| | |
|----------|---|
| noteType | The name of the NoteType for which the use is subscribed. |
| object | The object for which the user is subscribed. |
| filter | The filter string for the subscription. |

SYNOPSIS

```
subscription get [-noteType noteType] [-server serverURL] [-user user]
```

OPTIONS

- [-noteType](#)
- [-server](#)
- [-user](#)

-noteType

-noteType Specifies the name of the note type for which subscriptions are to be queried. If no note type is given, subscriptions for all note types are listed.

-server

-server Gives the URL of the server to query for subscriptions. If no server URL is given, the server owning the vault for the current working directory is assumed.

-user

ENOVIA Synchronicity Command Reference - File

`-user` Allows you to get the subscriptions of a user other than the user you are logged in as. By default, the name of the user running the client is used.

RETURN VALUE

A Tcl list of subscriptions, where each subscription is represented in Tcl 'array get' format, with the array indices being 'noteType', 'object', and 'filters'.

SEE ALSO

subscription add, subscription delete, subscription edit,
subscription list

EXAMPLES

```
foreach sub [subscription get -user JDoe] {
    array set info $sub
    puts "NoteType: $info(noteType)"
    puts "Object:    $info(object)"
    puts "Filter:    $info(filters)"
}
```

The output would resemble the following:

```
NoteType: RevisionControl
Object:   *.tcl
Filter:   Tag=Golden;Command=tag
```

subscription list

subscription list Command

NAME

subscription list - Lists email subscriptions

DESCRIPTION

This command prints out a listing of your current subscriptions on a particular server.

Note that a single 'subscription add' invocation can cause multiple entries in the subscription database, as reported by the 'subscription list' command. For example, this command creates two entries:

```
subscription add *.tcl *.html
```

and this one creates four entries:

```
subscription add -ci -tag *.tcl *.htm
```

SYNOPSIS

```
subscription list [-noteType noteType] [-server serverURL] [-user user]
```

OPTIONS

- [-noteType](#)
- [-server](#)
- [-user](#)

-noteType

-noteType Specifies the name of the note type for which subscriptions are to be displayed. If no note type is given, subscriptions for all note types are listed.

-server

-server Gives the URL of the server to query for subscriptions. If no server URL is given, the server owning the vault for the current working directory is assumed.

-user

-user Allows you to view the subscriptions of a user other than the user you are logged in as. By default, the name of the user running the client is used.

RETURN VALUE

none

SEE ALSO

ENOVIA Synchronicity Command Reference - File

subscription add, subscription delete, subscription edit,
subscription get

EXAMPLES

- [Example Showing Listing Subscriptions on the server](#)
- [Example Showing Listing Subscriptions for Vault Associated with cwd](#)

Example Showing Listing Subscriptions on the server

This example shows a list of all subscriptions for a specified server.

```
dss> subscription list -server sync://SyncServer:2647

SyncDefect  sync:///Projects/EmailPackage  State->new;Class=enhancement
SyncDefect  sync:///Projects/EmailPackage  State->new;Class=sw-bug
SyncDefect  sync:///Projects/ProjectSync  Class=sw-bug
SyncDefect  sync:///Projects/ProjectSync  Severity->STOPPER
HW-Defect-1 sync:///Projects/ProjectSync
Note       sync:///Projects/ProjectSync
```

Example Showing Listing Subscriptions for Vault Associated with cwd

This example shows a list of all the subscriptions for the vault associated with the current working directory. You could also specify current working directory as "[url vault .]".

```
dss> subscription list -noteType Note
```

User Profile Manipulation

user

user Commands

NAME

user - Server-side commands to edit user profiles

DESCRIPTION

The 'user' family of commands lets you access SyncServer user profiles. You can add and delete user IDs and profiles.

SYNOPSIS

```
user <user_command> [user_command_options]
```

```
Usage: user [counts|create|delete]
```

EXAMPLES

See specific "user" commands.

user counts

user counts Command

NAME

```
user counts          - Counts the number of user records
```

DESCRIPTION

Counts the number of currently defined user records. This command is equivalent to `length [url users sync:///]`, but is faster.

SYNOPSIS

```
user counts
```

OPTIONS

```
none
```

RETURN VALUE

Returns the number of currently defined user records.

ENOVIA Synchronicity Command Reference - File

SEE ALSO

note counts, user create

EXAMPLES

This command outputs the number of users:

```
puts [user counts]
```

```
25
```

user create

user create Command

NAME

```
user create          - Creates a new user id with the specified profile
```

DESCRIPTION

This command creates a new user ID and profile with the name, email address and password that you specify. The user ID cannot already exist. This command is available only from server-side scripts.

A username should consist of alphanumeric characters. Do not include spaces, single quotation marks ('), double quotation marks ("), leading dashes (-), dollar signs (\$), ampersands (&), or slashes (/) in user names.

The user profile attributes are specified as a list of name/value pairs. The user create command accepts the following attribute names:

| | |
|------------|---|
| Name | - The user's name. |
| EmailAddr | - The user's email address. |
| ClearKey | - The user's password, in cleartext. The value is encrypted using MD5 encoding. |
| Key | - The user's password, assumed to be in MD5 format. The value is used as is. |
| PhoneNumbr | - The user's phone number. |
| PageNumber | - The user's pager number. |

Values for the name, email address, and password attributes must be supplied.

For the password attribute, either ClearKey or Key may be used, but not both. If ClearKey is used, the value is assumed to be

cleartext and is first encrypted using MD5 encoding. Use the ClearKey argument when the password is not encoded.

If Key is used, the value is assumed to be encrypted and is used as is. Use the Key argument when the user's password is encrypted with Unix style crypt() or when transferring user accounts, including passwords, from the Unix NIS database into ProjectSync. You can set the Key with url setprop and retrieve it with url getprop. ClearKey is write-only, so you can set it with url setprop but you cannot retrieve it with url getprop. For more information, see the Tcl Script for Importing Users and Changing User Passwords topics in the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide.

If the same property is specified more than once with different values, the last value is stored.

Note: If you use LDAP to store user information, you can use ProjectSync's LDAP client to give users from an LDAP database access to ProjectSync. For other user databases, you can create a trigger that fires whenever a user tries to access an area of ProjectSync that requires user authentication. See the topics Enabling LDAP and Creating User Authentication Scripts in the ENOVIA Synchronicity DesignSync Data Manager Administrator's Guide for more information.

SYNOPSIS

```
user create <userid> <{Name Value Name Value...}>
```

OPTIONS

none

OPERANDS

- [User ID](#)
- [Name/Value Pairs for Attribute Values](#)

User ID

<userid> A unique user ID for new user profile.

Name/Value Pairs for Attribute Values

{Name Value
 Name Value...} User profile attribute values, in array list format. The names must match the existing property names on the user profile and the

ENOVIA Synchronicity Command Reference - File

values must be legal for the property types.

RETURN VALUE

none

SEE ALSO

user delete, url properties, url getprop, url setprop

EXAMPLES

This example creates a user profile for the username jane. The user's full name is Jane Doe, her email address is jane@hb.com and her password is abcde.

```
user create jane {Name "Jane Doe" EmailAddr "jane@hb.com" ClearKey "abcde"}
```

user delete

user delete Command

NAME

user delete - Deletes the specified user ID and corresponding profile

DESCRIPTION

This command deletes a specified user ID and corresponding profile from the SyncServer. Additional user data associated with this profile, such as email subscriptions, are not modified by this command. The user interface performs these additional clean-up operations.

This command is available only from server-side scripts.

SYNOPSIS

```
user delete <username>
```

OPTIONS

none

OPERANDS

- [User ID](#)

User ID

<username> The user ID of the user profile to be deleted, which must exist.

RETURN VALUE

none

SEE ALSO

user create

EXAMPLES

In this example, you delete the username "jane" and corresponding profile from the SyncServer.

```
user delete jane
```


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