



Command Reference

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601356 Rev A

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Preface

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Purpose of This Book

This book alphabetically lists and describes the VolServ commands.

Who Should Read This Book

This book is written for system administrators who uses the command line to operate VolServ.

It assumes the administrator has a strong familiarity with:

- UNIX operating systems.
 - Applications running in their site environment.
-

How This Book is Organized

This book contains the following chapters:

Chapter 1: Introduction — Describes environment variables and the command line structure.

Chapter 2: Command Reference — Alphabetical list of VolServ commands.

Conventions

The conventions used throughout the VolServ technical books are listed below:

Convention	Example
Screen text, file names, program names, and commands are in Courier font.	Request to add a new volume: Volume group will be "20" Volume position will be "A123".
The root prompt is shown as a number symbol.	# su root
What you should type in is shown in Courier bold font.	vsarchiveqry
Site-specific variables are in a <i>Times italics</i> font.	tar -xvf <i>tapedevicename</i>
A backward slash (\) denotes the input is continued onto the next line; the printed page is just not wide enough to accommodate the line.	# remsh nodename -n dd if=/dev \ /tapedevicename/bs=20b tar xvfb \ - 20 (You should type the entire command without the backward slash.)
Pressing <Return> after each command is assumed.	
A menu name with an arrow refers to a sequence of menus.	Config-->MediaType-->Redefine

Books

The books described below are part of the technical documentation set, and are shipped on CD along with the VolServ software:

Overview

Provides an overview of VolServ. Contains a glossary.

Installing VolServ

Describes server requirements, installation instructions, troubleshooting procedures, and configuration parameters.

Using the VolServ GUI

Describes how to perform system administrative tasks using the graphical user interface.

API Guide

Provides a list of API functions.

Administrative Tasks

Describes how to perform system administrative tasks using VolServ commands.

Command Reference

Contains a list of VolServ commands

Error Messages

Provides corrective action for system log errors.

Quick Reference Card

Summarizes commands.

Online Books

The documentation CD contains VolServ book files and Adobe® Acrobat® Reader. The Reader allows you to view and navigate the online documentation files yet preserves the page design and graphics from the printed books.

Related Publications

The publications described in the table below are created and distributed on an as-needed basis.

Related Publications	Description
"Release Notes"	For each version of VolServ, the "Release Notes" contain: <ul style="list-style-type: none">• Summary of enhancements.• Describes:<ul style="list-style-type: none">- Fixed problems.- Known problems.- Installation and configuration issues.• Lists:<ul style="list-style-type: none">- Operating system patches.- System requirements.
"Product Alerts"	Informs customers of technical problems and solutions.
"Product Bulletins"	Conveys technical information—not problems—to customers.

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Introduction

Introduction

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Options Common to all Commands

Seven options are available on every command that is supported from the command line. These parameters are:

Parameter	Description
-l	<p>Indicates command line options are to be read from <code>stdin</code>. The -l option provides the capability for the client to enter command options on the command line, in a text file, or a combination of both. When the -l option is specified, command options are first read from the command line. VolServ then reads any options from <code>stdin</code>.</p> <p>Example: cat optionfile > vsmount -l -u -p drvpool2 instructs VolServ to first read the -u and -p options entered on the command line and then to read the options from <code>stdin</code> (the contents of <code>optionfile</code>). If <code>optionfile</code> contains "-c class1", the command, as processed by VolServ, will look like "vsmount -u -p drvpool2 -c class1"</p>
-h	<p>Requests help for the entered command. The Help option returns the usage for the entered command, a copyright notice, and the version number of the CLI software. The Help option takes precedence over any other option entered on a command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.</p>
-H <i>hostname</i>	<p>Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is issued.</p>

Parameter	Description
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Optional Parameters

The following parameters are optional:

- -I (read from `stdin`).
- -h (help).

Both options needs to be specified only if the client is requesting the functionality provided by the option.

Default Values

The remaining parameters have default values:

- -H (*hostname*).
- -P (*priority*).
- -R (*retries*).

- **-T** (*timeout*).
- **-V** (*prognum*).

If the client does not specify one or more of these options on a command, VolServ uses the appropriate default values specified in the description of the previous options.

A client can specify values that override the default values previously specified. To specify an override value, the client must set an environment variable for each common option that is to have an override default.

The environment variables and their associated common options are:

Parameter	Environment Variable*
-H <i>hostname</i>	VSCLI_HOST
-P <i>priority</i>	VSCLI_PRIORITY
-R <i>retries</i>	VSCLI_RETRIES
-T <i>timeout</i>	VSCLI_TIMEOUT
-V <i>prognum</i>	VSCLI_PROGNUM
The client runs the UNIX <code>setenv</code> command to set an environment variable.	

Example

The following example sets the default for the **-H** (*hostname*) option to `eiffel` and overrides the VolServ default. The default *hostname* is the host computer where the command is issued.

```
setenv VSCLI_HOST eiffel
```

Or,

```
prompt VSCLI_HOST=eiffel  
prompt export VSCLI_HOST (bourne shell)
```

When a client specifies one or more of the **-H** (*hostname*), the **-P** (*priority*), the **-R** (*retries*), the **-T** (*timeout*), and the **-V** (*prognum*) options on the command line, the values entered on the command line supercedes the VolServ default values and any user-specified default values for the appropriate options.

Environment Variables

The following environment variables provide the capability for the client to specify default values for common options:

- VSCLI_HOST
- VSCLI_PRIORITY
- VSCLI_RETRIES
- VSCLI_TIMEOUT
- VSCLI_PROGNUM

The environment variable below controls the number of lines per page for report output:

- VSRPT_PAGE_LENGTH
The default page length is 66 lines.

If the default page length is not appropriate, a client can execute the appropriate environment variable command to set the VSRPT_PAGE_LENGTH environment variable to the desired page length. If the VSRPT_PAGE_LENGTH environment variable is set to 0, VolServ generates reports with no page breaks.

VolServ uses the user-specified page length when generating the following reports.

- Archive Query
- Connect Query
- Drive Query
- Intransit Query
- MediaClass Query
- Drive Pool Query

- Request Query
- Media Type Query
- Media Query

Command-specific Options

A matrix that shows which commands support which command-specific options is included in below

A discussion of how each of these options direct or modify the processing of individual commands is included with the command descriptions in this discussion.

Command-specific options are described in the following outline.

Parameter	Description	Example
-a	Specifies that all items meet specified criteria that are to be processed. Used primarily on query commands.	vsdriveqry -a Instructs VolServ to return information on all drives known to the VolServ system.
-a <i>archivename</i>	Specifies the name of the archive to be referenced by the command. Valid archive names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.	vsimport ... -a archive1 ... Instructs VolServ to import the specified medium/media into the <code>archive1</code> archive.
<i>archivename</i>	Specifies the name of the archive to be referenced by the command. Valid archive names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.	vsarchivevary archive1 ... Specifies that VolServ is to vary the state of the <code>archive1</code> archive.

Parameter	Description	Example
-b	Identifies the batch assigned to the medium/media being imported.	vsimport ... -b batch1 ... Identifies <i>batch1</i> as the batch assigned to the medium/media being imported. The batch assigned to a medium is maintained by the VolServ system.
-c	Indicates that all MediaClass names associated with the specified archive are to be reported.	vsarchiveqry ... -c ... Instructs VolServ to return all MediaClass names associated with the specified archive.
-c <i>currentmediaclass</i>	Identifies the current MediaClass name of the medium/media to be reclassified.	vsreclassify ... -c MediaClassA ... Indicates to VolServ that the medium/media specified on the command are currently associated with MediaClassA.
-c <i>mediaclass</i>	Identifies the target MediaClass name of the medium/media specified on the command.	vsimport ... -c MediaClassB ... Instructs VolServ to associate the imported medium/media with MediaClassB.
-d	Indicates that all drives associated with the specified archive are to be reported.	vsarchiveqry ... -d ... Instructs VolServ to return all drive IDs associated with the specified archive.
-d <i>driveID</i>	Identifies the drive on which the medium to be dismounted is currently mounted.	vsdismount ... -d 1 ... Indicates to VolServ that the medium specified to be dismounted is currently mounted on drive 1.

Parameter	Description	Example
<i>driveID...</i>	Specifies a list of one or more drives from which the drives to satisfy the command are to be selected. The number of drives that can be specified is restricted by the CLI software. Currently, the maximum allowed number is 64.	vsunlock 1 3 ... Instructs VolServ to unlock drive 1 and drive 3.
<i>drivepool</i>	Specifies the name of the drive pool being queried.	vspoolqry drivepool3 Instructs VolServ to return information on <code>drive pool3</code> .
<i>enterpriseID</i>	Specifies the identifier of the enterprise connection being queried. An enterprise ID must be numeric.	vsconnectqry 4 Instructs VolServ to return information on the 4 connection.
-f	Identifies the manufacturer of the medium/media being imported.	vsimport ... -f manufac1 ... Identifies <code>manufac1</code> as the manufacturer of the medium/media being imported. The manufacturer of a medium is maintained by the VolServ system.
-i	Indicates, if an inter-archive move is required, that the command is to be processed only if both the source and destination archives are attended.	vsmount ... -i ... Instructs VolServ to perform the mount if an inter-archive move is required only if both the source and destination archives are attended.

Parameter	Description	Example
-l <i>lockID</i>	Specifies the lock ID assigned to the drive specified in the command.	vsdismount ... -l 9 ... Indicates that the drive specified in the command is reserved for exclusive use and has been assigned the lock ID 9.
-m	Indicates that all media associated with the specified archive are to be reported.	vsarchiveqry ... -m ... Instructs VoIServ to return all media IDs associated with the specified archive.
mediaclass	Specifies the name of the MediaClass group being queried.	vsmedclassqry medclass6... Instructs VoIServ to return information on medclass6.
<i>mediaID</i>	Specifies the medium to be processed by the command. A valid medium identifier may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.	vsqrymount medium7 Requests a list of the drives available to satisfy a mount request for medium7.
mediaID...	Specifies a list of one or more media to be processed by the command. A valid medium identifier may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted. The number of media that can be specified is restricted by the CLI software. Currently, the maximum allowed number is 64.	vsexport medium8 medium 9 medium11 medium3 ... Instructs VoIServ to export medium8, medium9, medium11, and medium3.

Parameter	Description	Example
<i>mediatype...</i>	<p>Specifies a list of one or more mediatypes to be processed by the command.</p> <p>Valid MediaType names can contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.</p> <p>The number of media types that can be specified is restricted by the CLI software. Currently, the maximum allowed number is 32.</p>	<p>vsmedtypeqry medtypeZ</p> <p>Instructs VolServ to return information on medtypeZ.</p>
-n <i>newmediaclass</i>	<p>Identifies the target MediaClass group of the medium/media specified on the command.</p>	<p>MedClassX ...</p> <p>Instructs VolServ to associate the specified medium/media with MedClassX.</p>
-p <i>drivepool</i>	<p>Specifies the name of a drive pool from which a drive can be selected to satisfy the command.</p> <p>Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.</p>	<p>vsmount ... -p drivepool1 ...</p> <p>Instructs VolServ to mount the specified medium/media on drives selected from drive pool drivepool1.</p>
-q <i>quantity</i>	<p>Specifies the number of drives to be locked.</p>	<p>vslock ... -q 3 ...</p> <p>Instructs VolServ to lock three drives.</p>

Parameter	Description	Example
<i>requestID</i>	Specifies VolServ-assigned ID of the request being queried. A valid request ID must be specified in either the <i>ydddnnnnn</i> format or the <i>yy:ddd:nnnnn</i> format where <i>y</i> and <i>yy</i> represent the last one/two digits of the year, <i>ddd</i> represents the Julian day, and <i>nnnnn</i> is a one-up number.	vsrequestqry 93:131:14796... Requests status on request 93:131:14796 from VolServ.
<i>-s compstate</i>	Specifies the target state of the item being varied.	vsdrivevary ... -s on-line ... Instructs VolServ to vary the specified drive to the on-line state.
<i>-t</i>	Indicates that all media types associated with the specified archive are to be reported.	vsarchiveqry ... -t ... Instructs VolServ to return all media types associated with the specified archive.
<i>-t comment</i>	Provides a comment to be associated with each media specified on the command. VolServ maintains the comment, if any, associated with each medium. This comment is provided on the Eject list (a GUI display) from the archive console associated with the archive containing the media.	vscheckout ... -t "Sending tocustomer xyz" Provides the comment "Sending to customer xyz" to be associated with each medium specified in the command.
<i>-u</i>	Indicates the command is to be processed if an inter-archive move is required whether the source and destination archives are attended or unattended.	vsmount ... -u ... Instructs VolServ to perform the mount if an inter-archive move is required whether the losing and gaining archives are attended or unattended.

Parameter	Description	Example
-v	<p>Indicates that verbose output is requested.</p> <ul style="list-style-type: none"> • If -v option is specified on a command that specifies a list of items, status is returned on every item specified in the list, regardless of the success or failure of the command processing on each item. • If -v option is specified on a query command, all applicable information is returned to the client. • If -v is not specified on a command that specifies a list of items, status is returned on only those items that were not successfully processed. • If -v option is not specified on a query command, only the specifically requested information is returned to the client. 	<p>vsclareject ... -v ...</p> <p>Instructs VolServ to return status on every medium specified in the command, regardless of whether the medium is successfully or unsuccessfully processed. If the -v option is not specified on the vsclareject command, status is returned on only those media that are not successfully removed from the Eject list.</p>
		<p>vsmedclassqry ... -v</p> <p>Instructs VolServ to return detailed information for all media associated with each media class reported. If the -v option was not specified on the vsmedclassqry command, only the IDs of the media associated with the reported MediaClass group are returned to the client.</p>
-w	<p>Indicates VolServ waits until the command processing completes before returning status to the client.</p> <p>If the move requires an inter-archive move, VolServ waits until the move completes, whether the source and destination archives are attended or unattended. When the -w option is not specified, final status is returned as soon as move processing begins.</p>	<p>vsmove ... -w ...</p> <p>Instructs VolServ to return status only after move processing completes.</p>

Parameter	Description	Example
-x	<p>Specifies a list of one or more drives to exclude from a specified drive pool when selecting drives to satisfy a command.</p> <p>The -x option is valid only when the -p <i>drivepool</i> option is specified.</p>	<p>vsmount ...-p : <i>drvpoolmed</i> -x 1 2 ...</p> <p>Instructs VolServ to exclude drives 1 and 2 from consideration when selecting drives from the <i>drvpoolmed</i> drive pool to satisfy the mount request.</p>

Tables

The names of the commands, as entered from the command line, are listed alphabetically in the first column of the table. The command-specific options are listed alphabetically across the top of the table.

- When a command does not support an option, the cell that represents the intersection of the command and the command-specific option is shaded. For example, the *vsdismount* command does not support the **-a** *archivename* option.
- When a command does support an option, the cell that represents the intersection of the command and the option contains an X. For example, the *vsdismount* command does support the **-d** *driveID*, the **-l** *lockID* option, and the *mediaID* option.

	-a (all)	-a archive name	archivename	-b batchID	-c (MediaClass)	-c current mediaclass
vsamlconfig			X			
vsarchiveqry	X		X		X	
vsarchivevary			X			
vsaudit			X			
vscheckin		X				
vscheckout						
vsclareject						
vsconnectqry						
vsdismount						
vsdriveqry	X					
vsdrivevary						
vsexport						
vsimport		X		X		
vsintransitqry						
vslock						
vsmedclassqry	X					
vsmedqry	X					
vsmedtypeqry	X					
vsmount						
vsmove		X				
vsping						
vspoolqry	X					
vsqrymount						
vsreclassify						X
vsrequestqry						
vsunlock						

	-f manufacturer	-i (mount, attended)	-l lockID	-m (medialDs)	mediaclass
vsamlconfig					
vsarchiveqry				X	
vsarchivevary					
vsaudit					
vscheckin					
vscheckout					
vsclareject					
vsconnectqry					
vsdismount			X		
vsdriveqry					
vsdrivevary					
vsexport					
vsimport	X				
vsintransitqry					
vslock					
vsmedclassqry				X	X
vsmedqry					
vsmedtypeqry					
vsmount		X	X		
vsmove		X			
vsping					
vspoolqry					
vsqrymount					
vsreclassify					
vsrequestqry					
vsunlock			X		

	mediaID	mediaID...	mediatype	-n new mediaclass	-p drivepool	-q quantity
vsamlconfig						
vsarchiveqry						
vsarchivevary						
vsaudit						
vscheckin		X				
vscheckout		X				
vsclareject		X				
vsconnectqry						
vsdismount	X					
vsdriveqry						
vsdrivevary					X	
vsexport		X				
vsimport		X				
vsintransitqry						
vslock					X	X
vsmedclassqry						
vsmedqry		X				
vsmedtypeqry			X			
vsmount		X		X	X	
vsmove		X				
vsping						
vspoolqry						
vsqrymount	X					
vsreclassify		X		X		
vsrequestqry						
vsunlock						

	request ID	-t (Media Types)	-t comment	-s compstate	-u (mount, unattended)	-u usage time
vsamlconfig						
vsarchiveqry		X				
vsarchivevary				X		
vsaudit						
vscheckin						
vscheckout			X			
vsclareject						
vsconnectqry						
vsdismount						X
vsdriveqry						
vsdrivevary				X		
vsexport			X			
vsimport						
vsintransitqry						
vsmedclassqry						
vslock						
vsmedqry						
vsmedtypeqry						
vsmount					X	
vsmove						
vsping						
vspoolqry						
vsqrymount						
vsreclassify						
vsrequestqry	X					
vsunlock						

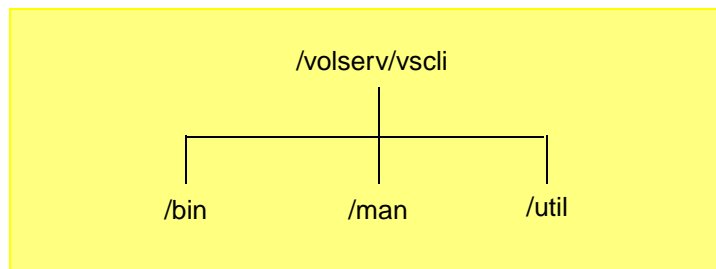
	-v (verbose)	-w (wait)	-x driveID...
vsamlconfig			
vsarchiveqry			
vsarchivevary			
vsaudit			
vscheckin			
vscheckout			
vsclareject	X		
vsconnectqry			
vsdismount			
vsdriveqry			
vsdrivevary	X		
vsexport	X		
vsimport	X		
vsintransitqry	X		
vsmedclassqry			
vslock	X		X
vsmedqry			
vsmedtypeqry			
vsmount			X
vsmove	X	X	
vsping			
vspoolqry	X		
vsqrymount			
vsreclassify	X		
vsrequestqry			
vsunlock	X		

CLI Directory Structure

All files necessary for command line interface to VolServ are contained in the `volserv/vscli` directory by default. However, the installer may choose a different directory during execution of the installation script. The `vscli` subdirectory is always appended to the directory specified by the installer. Refer to *Installing VolServ* for more information.

The system administrator or clients may use the commands to interface to VolServ. The commands are interfaced to VolServ via the API. For more information, refer to the *Command Reference and API Guide*.

The default command directory structure is shown in the following figure and described in the table below.



Directory	Contents
bin	Contains the CLI executables that are invoked from the command line by the system administrator and the system operator.
man	Contains man pages for each executable in the <code>/bin</code> directory.
util	Contains several utilities and associated <code>.README</code> files.

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volserv

Starts or ends VolServ and activates the system log display.

Parameters

```
volserv -s
volserv -t | -q
volserv [-y]
```

Parameters

Parameters	Description
-s	Starts VolServ in the single user mode. Only commands run with <code>vswin</code> are run. Client interface commands are refused.
-t	Terminates the VolServ operations. VolServ terminates gracefully. Outstanding commands are cancelled and any commands awaiting status are allowed to complete (within a certain time period). The termination of VolServ prompts the user to continue the software termination. <ul style="list-style-type: none"> If the -y option is specified, the prompt is automatically answered as “yes” and the software is terminated automatically. <p>NOTE: If a VolServ request is submitted to the system during VolServ system termination, VolServ issues a message which states that the system is unavailable.</p>
-q	Quits the VolServ operations. The user will be prompted to verify if the software should really be shutdown if the -y option is not specified..
-y	Automatically answers the command prompt with a “yes.”

Return Codes

- 0 - Command completed successfully - VolServ started or completed normally.
- 1 - Command did not complete successfully - VolServ did not start or complete as expected.

Examples

Step 1. Successful VolServ system start-up. Requests VolServ to start.

```
volserv
```

Step 2. Output returned:

```
VolServ Version x.0.0 for SunOS (x.x)
-- Copyright (c) 1992-1999 ADIC.

Initiating VolServ start up

Setup environment variables ok
Starting up process server... Done
Process server started ok
Starting up VolServ server processes
... Done
Server processes started ok
Starting up VolServ system processes
... Done
System processes started ok
VolServ start up completed
```

Notes

The environment variables VS_DIR and II_SYSTEM must be set before executing VolServ.

II_SYSTEM must be in the path.

See Also

- vswin (1)

vsamlconfig

Starts the ADIC-GRAU AML (Automated Media Library) configuration script.

The following information needs to be known before running the command:

- Archive name.
- Attended Mode or Unattended Mode.
- Console location.
- AMU host name.
- AMU port number.

Parameters

`vsamlconfig`

Example

Configure an AML.

Step 1. `vsamlconfig`

Step 2. AML CONFIG MENU

Step 3. [C]onfigure a New Archive

Step 4. [R]econfigure a existing Archive

Step 5. [D]elete an existing Archive

Step 6. [Q]uit

Step 7. Enter option (C/R/D/Q/) :*Option*

Step 8. Enter Archive Name: *ArchiveName*

Step 9. Is *ArchiveName* correct (Y/N [Y]):

- Step 10.** Enter Mode: *ArchiveMode*
- Step 11.** Is *ArchiveMode* correct (Y/N [Y]):
- Step 12.** Enter Console Location (termname:0): *Terminal*
- Step 13.** Is *Terminal* correct (Y/N [Y]):
- Step 14.** Enter Mode ([A]ttended,[U]nattended: *ArchiveMode*
- Step 15.** Is *ArchiveMode* correct (Y/N [Y]):
- Step 16.** Enter AMU Host Name: *HostName*
- Step 17.** Is *HostName* correct (Y/N [Y]):
- Step 18.** Enter AMU Port Number : *PortNum*
- Step 19.** Is *PortNum* correct (Y/N [Y]):

The Archive Configuration completed successfully.
Cycle VolServ to bring up the library

See Also None

vsarchiveqry

Queries for information about a specified library.

Parameters

`vsarchiveqry archivename`

`vsarchiveqry -a`

[`-cdIhmtv`]

[`-H hostname`]

[`-P priority`]

[`-R retries`]

[`-T timeout`]

[`-V prognum`]

Parameters

Parameters	Description
<i>archivename</i>	Identifies the library to be queried. <ul style="list-style-type: none"> Valid library names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-a	Specifies that all libraries are to be queried.
-c	Indicates that detailed information on all MediaClass groups associated with the specified libraries are to be reported.
-d	Indicates that all drives associated with the specified libraries are to be reported.
-m	Indicates that all media associated with the specified libraries are to be reported.
-t	Indicates that detailed information on all media types associated with the specified libraries are to be reported.

Parameters	Description
-v	Indicates that all drives, all MediaClass groups, all media, and all media types associated with the specified libraries are to be reported. Specifying the -v option is equivalent to specifying the -d , the -c , the -m , and the -t options.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	The number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsarchiveqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful library query. Requests VolServ to return the MediaClass groups and the media types associated with the `shelf1` library.

```
vsarchiveqry shelf1 -ct
```

Step 2. Output returned:

```
-----
Archive Query Report                May 24
12:43:18 1993                       1
-----
Archive:                             shelf1
-----
Archive Type:                        DataShelf
Current State:                       online
Archive Mode:                        Attended
Console Display Location:columbia:0
Fill Mode:                            None
Configure State:                     Not Being
Configured

MediaClass:                          MC-D2M
MediaType:                            D2M
Class Capacity %:                     50%
Class Capacity:                       40
Current Fill Level:                   2
```

```

Action:                None
MediaType:             D2M
Archive Capacity:      40
Current Fill Level:    2
Assigned Locations:    2
Auto Checkin:          off
Auto Import:           off
Action:                None

```

Step 1. Successful library query. Requests VolServ to return the drives, the media, the MediaClass groups, and the media types associated with the `stage1` library.

```
vsarchiveqry stage1 -v
```

Step 2. Output returned:

```

-----
Archive Query Report           May 24
12:59:38 1993                 1
-----
Archive:                       stage1
-----
Archive Type:                  Stage
Current State:                 online
Archive Mode:                  Attended
Console Display Location:columbia:0
Fill Mode:                     None
Configure State:               Not Being
Configured

```

```

Drive ID(s):          12
Media ID(s):          med001med002
med003                med004
MediaClass:           MC-3480
MediaType:            3480
Class Capacity %:     50%
Class Capacity:       100
Current Fill Level:   4
Action:               None
MediaType:            3480
Archive Capacity:     100
Current Fill Level:   4
Assigned Locations:   4
Auto Checkin:         off
Auto Import:          off
Action:               None

```

Step 1. Unsuccessful library query. Requests VolServ to return the drives associated with the `BadArchiveName` library.

```
vsarchiveqry BadArchiveName -d
```

Step 2. Output returned:

```
Archive query was unsuccessful
Error VOL008: item not found
```

Notes

The `vsarchiveqry` command does not trigger unsolicited status messages from VolServ.

A pending or executing `vsarchiveqry` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-^). The request is also aborted by sending the SIGINT signal (control-c).

See Also

- `vsarchivevary`

vsarchivevary

Varies the state of a library.

The name of the library and the target state (online, offline, or diagnostic) must be specified. The return code presented to the client indicates the success or failure of the command.

Parameters

```
vsarchivevary -s state archivename
```

```
[ -Ih ]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```

Parameters

Parameters	Description
-s <i>state</i>	Specifies the target state of the specified drives. Valid drive states are <ul style="list-style-type: none"> • online (on) • offline (of) • diagnostic (d)
<i>archivename</i>	Identifies the library to be varied. <ul style="list-style-type: none"> • Valid library names may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameters	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	The number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsarchivevary` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful archive vary. Requests VolServ to vary the `shelf1` archive to the `diagnostic` state.

```
vsarchivevary shelf1 -s diagnostic
```

Step 2. Output returned:

```
Vary of archive [shelf1] to state [diagnostic]  
was successful
```

Step 1. Unsuccessful archive vary. Requests VolServ to vary the `BadArchiveName` archive to the `on-line` state.

```
vsarchivevary BadArchiveName -s  
online
```

Step 2. Output returned:

```
Vary of archive [BadArchiveName] to state  
[on-line] was unsuccessful  
Error VOL013: invalid archive
```

Notes

VolServ rejects all incoming requests that could physically command an offline or diagnostic library (for example: Mount, Dismount, and Move).

VolServ processes commands that interact strictly with the database (for example: Query Mount, Create Drive Pool, and Create Archive Media Class), regardless of the state of the associated archive.

All components associated with an offline or diagnostic library, such as media, drives, and physical hardware, are unavailable.

The Archive Vary command does not trigger unsolicited status messages from VolServ.

A pending `vsarchivevary` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

See Also

- `vsarchiveqry`
- `vsdrivevary`

vsaudit

Performs library inventory verification.

- If the specified library is robotically controlled, the robot scans each physical bin location and verifies that the database is consistent with the actual location of media. Any noted inconsistencies are returned to the client, logged in a system log file, and VolServ initiates corrective action, based on the circumstances of the discrepancy.
- However, if the specified library is a manually controlled, the library operator is directed to generate the audit report. The operator then directs the report to be printed or to verify the information online. Either way, the operator performs the inventory and corrects any reported discrepancies. Discrepancies are resolved by issuing appropriate media management commands (for example, Eject) to relocate media to the appropriate locations. Audits of manual libraries do not return a discrepancy list.

Although audit requests from the command line are for full library audits only, subset audits can be performed from the GUI.

Tip

Full archive audits are lengthy and should be requested with discretion.

Parameters

```
vsaudit archivename  
[ -Ih ]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```

Parameters

Parameters	Description
<i>archivename</i>	Specifies the name of the archive to audit. <ul style="list-style-type: none"> Valid archive names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	The number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.

Parameters	Description
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsaudit` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful audit request. Requests VolServ to audit the `shelf1` archive.

```
vsaudit shelf1
```

Step 2. Output returned:

```
-----
Audit Report                               May 24
12:43:18 1993                               1
-----
Archive:                                   shelf1
-----
no discrepancies found
```

Step 1. Unsuccessful audit request. Requests VolServ to audit the `BadArchiveName` archive.

```
vsaudit BadArchiveName
```

Step 2. Output returned:

```
Audit of archive [BadArchiveName] was
unsuccessful

Error VOL013: invalid archive
```

Notes

With the exceptions of the manual libraries, a pending or executing `vsaudit` request is cancelled with the `VolServ cancel` command. The `VolServ cancel` command is run from the command line by sending a `SIGQUIT` signal (`control-^`). The request also is aborted by sending the `SIGINT` signal (`control-c`).

Note

A pending or executing `vsaudit` request is reprioritized using the `VolServ reprioritize` command. The `reprioritize` command is not available from the command line, but is available to the client through either the API or the RPC interface.

A pending or executing Storage Technology ACS product family library audit requires a Cassette Autoloader Port (CAP). If the CAP is busy, the `vsaudit` command can be queued. This results in intermediate status that indicates the `vsaudit` command is waiting for a busy CAP to be freed.

In an ADIC/GRAU DataTower or Storage Technology ACS product family database, `VolServ` does not actually track media location to the bin level, but only down to the Manipulator Unit (MU) level. However, the logic and `VolServ` responses are similar to the bin tracking performed in the `DataLibrary` software with no internal database.

The `vsaudit` command does not trigger unsolicited status messages from `VolServ`.

The total length of time that VolServ waits for a command status, in synchronous mode, from VolServ is (VSID_RETRY_LIMIT plus 1) multiplied by VSID_TIMEOUT_VALUE. Because of the time required for robotic audits, the timeout value or retries may need to be increased from the default values.

See Also

None

vscheckin

Logically checks media into the VolServ system that has been previously checked *out* of the VolServ system.

Checkin is a logical operation. After media is logically checked in to the VolServ system, the media is physically entered into a library before becoming available for client use (mounting,...). Media is physically entered into the VolServ system via the “Enter” functionality available from the appropriate library’s console display. The Enter functionality is not available from the command line.

Parameters

vscheckin *mediaid...*

```
[ -a archivename ]
[ -Ihv ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid...</i>	<p>Specifies a list of one through 64 media to be checked in.</p> <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.

Parameter	Description
-a <i>archivename</i>	Specifies the name of the destination library for the media to be entered into after they are checked in. <ul style="list-style-type: none"> Valid library names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.

Parameter	Description
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vscheckin` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Checkin request with verbose option specified. Requests VolServ to check MED012, MED014, and MED023 into the library from which they were checked out and to return status on each media.

```
vscheckin MED012 MED014 MED023 -v
```

Step 2. Output returned:

```
Check in 3 of 3 media was successful
Media [MED012]          no error
Media [MED014]          no error
Media [MED023]          no error
```

- Step 1.** Successful Checkin request with verbose option not specified. Requests VolServ to check MED013 into the shelf2 library and to return status on media only if processing for that media failed.

```
vscheckin MED013 -a shelf2
```

- Step 2.** Output returned:

```
Check in 1 of 1 media was successful
```

- Step 1.** Errors with verbose option specified. Requests VolServ to check MED011, MED014, and MED021 into the library from which they were checked out and to return status on every specified media.

```
vscheckin MED011 MED014 MED021 -v
```

- Step 2.** Output returned:

```
Check in 1 of 3 media was successful
Error VOL024: error in the list
      Media [MED011]      invalid action
                          or location state
                          for operation
      Media [MED014]      no error
      Media [MED021]      item not found
```

Step 1. Errors with verbose option not specified. Requests VolServ to check MED001, MED002, and MED093 into the `stage1` library and to return status on media only if processing for that media failed:

```
vscheckin MED001 MED002 MED093 -a
stage1
```

Step 2. Output returned:

```
Check in 1 of 3 media was successful
Error VOL024: error in the list
  Media [MED001]   archive not associated with
                  media class
Media [MED093]   item not found
```

Notes

Media checked out of one library can be checked in to another library, as long as the receiving library is configured to support the media's MediaClass group and the receiving library is not at capacity for the media's media type.

Media checked out from more than one library can be checked in as a single group into a single new library (assuming necessary library media class associations exist).

Media that are checked out from more than one library and are checked in as a single group without a target library specified on the `vscheckin` command are returned to their respective check-out libraries.

Failure of the `vscheckin` request for one or more media in a list does not fail the request for all media in the list.

The `vscheckin` command triggers unsolicited status messages from VolServ to the client software.

A pending or executing `vscheckin` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vscheckout`

vscheckout

Checks media out of the VolServ system.

Media that has been checked out is still known by VolServ, but is unavailable for client allocation.

Upon receipt of a `vscheckout` request, VolServ marks the specified media for checkout. If the specified media is contained in libraries, VolServ adds the media to the Eject list of the containing library. An operator selects the “Eject” functionality from the appropriate library’s console display to physically remove the checked-out media from the containing library.

Parameters

`vscheckout mediaid...`

```
[ -t comment ]
[ -Ihv ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<code>mediaid...</code>	<p>Specifies a list of one through 64 media to be checked out of the VolServ system.</p> <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.

Parameter	Description
<code>-t <i>comment</i></code>	Provide a comment to be associated with each checked-out media. This comment is provided on the Eject list (a GUI display) from the library console associated with the library containing the media.
<code>-v</code>	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.
<code>-l</code>	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
<code>-h</code>	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
<code>-H <i>hostname</i></code>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
<code>-P <i>priority</i></code> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
<code>-R <i>retries</i></code> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.

Parameter	Description
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The vscheckout command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Checkout request with verbose option specified. Requests VolServ to check MED003 ,MED004 , and MED005 out of the VolServ system and to return status on every specified media.

```
vscheckout MED003 MED004 MED005 -t
"Transfer to Library" -v
```

Step 2. Output returned:

```
Check out 3 of 3 media was successful
Media [MED003]           no error
Media [MED004]           no error
Media [MED005]           no error
```

Step 1. Successful Checkout request with verbose option not specified. Requests VolServ to check MED003 , MED004 , MED005 , MED006 , MED007 , and MED008 out of the VolServ system and to return status on media only if processing for that media failed.

```
vscheckout MED003 MED004 MED005  
MED006 MED007 MED008
```

Step 2. Output returned:

```
Check out 6 of 6 media was successful
```

Step 1. Errors with verbose option specified. Requests VolServ to check MED010 , MED011 , MED012 , and MED13 out of the VolServ system and to return status on every specified media.

```
vscheckout MED010 MED011 MED012  
MEDa13 -v
```

Step 2. Output returned:

```
Check out 2 of 4 media was successful  
Error VOL024: error in the list  
Media [MED010] invalid action or location  
state for operation  
Media [MED011] no error  
Media [MED012] no error  
Media [MED013] item not found
```

Step 1. Errors with verbose option not specified. Requests VolServ to check MED010 , MED011 , MED012 , and MEDa13 out of the VolServ system and to return status on media only if processing for that media failed:

```
vscheckout MED010 MED011 MED012
MEDa13
```

Step 2. Output returned:

```
Check out 2 of 4 media was successful
Error VOL024: error in the list

Media [MED010]      invalid action or location
                   state for operation
Media [MED013]      item not found
```

Notes

Failure of the `vscheckout` request for one or more media in a list does not fail the request for all media in the list.

A currently allocated media is checked out of the VolServ system. Attempts to physically eject an allocated media fail until the media is no longer in use.

Media marked for checkout is unmarked (removed from the Eject list) by the Clear Eject command. An operator removes media from the Eject list by performing an Eject Fail operation from the appropriate library's console display. The Eject Fail functionality is not available from the command line.

The Clear Eject command is available to clients, whereas, Fail Eject is an operator-only command.

The `vscheckout` command triggers unsolicited status messages from VolServ.

A pending or executing `vscheckout` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request is aborted by sending the SIGINT signal (control-`c`).

See Also

- `vscheckin`, `vsclareject`

vsclareject

Removes the specified media from the library's Eject list.

Ejects can be generated during processing of the VolServ `vscheckout` `vsexport`, `vsmount`, and `vsmove` commands. Ejects can also be generated during automigration.

The Clear Eject command essentially undoes the completion of these commands. Media is removed from the Eject list and returned to the available state. For example, if a client issues an export command for a specific media, the specified media is scheduled for removal by adding the media to the Eject list for the library associated with the media. If the client decides the media should not be removed from its associated library, the client issues the Clear Eject command, and VolServ removes the media from the Eject list, thus voiding the Export request.

Parameters

`vsclareject` *mediaid...*

[`-Ihv`]
[`-H` *hostname*]
[`-P` *priority*]
[`-R` *retries*]
[`-T` *timeout*]
[`-V` *prognum*]

Parameters

Parameter	Description
<i>mediaid ...</i>	Specifies the media (up to 64 pieces) to remove from the Eject list. <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.

Parameter	Description
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsclareject` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful with verbose option specified. Requests VolServ to remove MED017, MED021, and MED023 from the Eject list and to return status on each specified media.

```
vsclareject MED017 MED021 MED023 -v
```

Step 2. Output returned:

```
Clear Eject 3 of 3 media was successful
Media [MED017]          no error
Media [MED021]          no error
Media [MED023]          no error
```


- Step 1.** Successful with verbose option not specified. Requests VolServ to remove MED016, MED018, MED020, and MED021 from the Eject list and to return status on media only if processing for that media failed.

```
vsclareject MED016 MED018 MED020  
MED021
```

- Step 2.** Output returned:

```
Clear Eject 4 of 4 media was  
successful
```

- Step 1.** Errors with verbose option specified. Requests VolServ to remove MED012, MED013, MED014, and MED051 from the Eject list and to return status on every specified media.

```
vsclareject MED012 MED013 MED014  
MED051 -v
```

- Step 2.** Output returned:

```
Clear Eject 2 of 4 media was successful  
Error VOL024: error in the list  
Media [MED012]          no error  
Media [MED013]          item not marked for ejection  
Media [MED014]          no error  
Media [MED051]          item not found
```

Step 1. Errors with verbose option not specified. Requests VolServ to remove MED012, MED013, MED014 , and MED051 from the Eject list and to return status on media only if processing for that media failed.

```
vsclareject MED012 MED013 MED014
MED051
```

Step 2. Output returned:

```
Clear Eject 2 of 4 media was successful
Error VOL024: error in the list
      Media [MED013]           media not marked for ejection
      Media [MED051]           item not found
```

Notes

The `vsclareject` request fails for media if the media is already selected for eject by the operator.

Failure of the `vsclareject` request for one or more media in a list does not fail the request for all media in the list.

An operator also removes media from the Eject list by performing an Eject Fail from the appropriate library's console display. The Eject Fail functionality is not available from the command line.

The Clear Eject command triggers unsolicited status messages from VolServ.

A pending Clear Eject request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vscheckout`,

- vsexport,
- vsmount,
- vsmove

vsconnectqry

Queries for enterprise connection information.

This command provides a list of all client internet addresses that are currently associated with the given enterprise identifier.

Parameters

vsconnectqry *enterpriseid*

[**-Ih**]
[**-H** *hostname*]
[**-P** *priority*]
[**-R** *retries*]
[**-T** *timeout*]
[**-V** *prognum*]

Parameters

Parameter	Description
<i>enterpriseid</i>	Specifies the identifier of the enterprise connection being queried. An enterprise identifier must be numeric.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.

Parameter	Description
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsconnectqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

- Step 1.** Successful enterprise query. Requests VolServ to return a list of the client internet addresses associated with enterprise identifier 3.

```
vsconnectqry 3
```

Step 2. Output returned:

```
-----  
Connect Query Report                May 24 12:43:18 19931  
-----  
Enterprise ID:                       3  
-----  
Client #: 1  
Socket Family:                       10  
Socket Port:                         1  
Internet Address:                    300  
Program Number:                      300016  
Version Number:                      2  
Procedure Number:                    1  
  
2  
•
```

Step 1. Unsuccessful enterprise query. Requests VolServ to return a list of the client Internet addresses associated with enterprise identifier 13:

```
vsconnectqry 13
```

Step 2. Output returned:

```
Connect query was unsuccessful  
Error VOL008: item not found
```

Notes

The `vsconnectqry` command is run from either:

- Command line.
- Or, GUI.

However, only from the GUI can “query all” be specified to list all enterprises.

From the command line, only one enterprise can be specified within a single command. This restriction prevents any single client from listing the clients of other enterprises being serviced by VolServ.

The `vsconnectqry` command does not trigger unsolicited status messages from VolServ.

A pending `vsconnectqry` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

See Also

None

vsdismount

Dismounts media from a drive.

- For automated libraries, VolServ checks to see that the media is ejected from the drive by the storage subsystem. If the media is not ejected from the drive, the `vsdismount` request fails and VolServ returns a failure status to the client. However, if the media is ejected from the drive, VolServ tells the library robotics to move the media from the drive pickup point to a bin within the library system. A successful return code is returned to the client after the media movement is completed.
- For manual libraries, a dismount notice is sent to the appropriate library's console display for action. An operator dismounts the specified media and then notifies VolServ that the media dismount is complete. VolServ returns a successful return code to the client only after the operator confirms the dismount is complete.

Parameters

```
vsdismount mediaid  
vsdismoun-d driveid  
[ -l lockid ]  
[ -u usagetime ]  
[ -e errorcount ]  
[ -Ih ]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```


Parameters

Parameter	Description
<i>mediaid</i>	Identifies the media to be dismounted. A valid media identifier may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-d <i>driveid</i>	Identifies the drive where the media is mounted.
-l <i>lockid</i>	Specifies the lock identifier associated with the drive if the drive is mounted with a lock identifier.
-u <i>usagetime</i>	The amount of time (in seconds) the drive is in use.
-e <i>errorcount</i>	The number of errors encountered while interacting with the drive.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.

Parameter	Description
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The vsdismount command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful dismount. Requests VolServ to dismount MED032 from drive 2 .

```
vsdismount MED012 -d 2
```

Step 2. Output returned:

```
Dismount of Media [MED032] from Drive [2] was successful
```

Step 1. Unsuccessful dismount request. Requests VolServ to dismount MED016 from drive 13.

```
vsdismount MED016 -d 13
```

Step 2. Output returned:

```
Dismount of Media [MED016] from Drive  
[13] was unsuccessful  
  
Error VOL081: drive not mounted
```

Step 1. Unsuccessful dismount request. Requests VolServ to dismount MED016 from drive 9 .

```
vsdismount MED016 -d 9
```

Step 2. Output returned:

```
Dismount of Media [MED016] from Drive  
[9] was unsuccessful  
  
Error VOL044: media not mounted
```

Notes

The `vsdismount` command triggers unsolicited status messages from VolServ.

A pending `vsdismount` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsmount`

vsdriveqry

Queries for information on specified drives.

Parameters

`vsdriveqry driveid...`

`vsdriveqry -a`

[`-Ih`]

[`-H hostname`]

[`-P priority`]

[`-R retries`]

[`-T timeout`]

[`-V prognum`]

Parameters

Parameter	Description
<i>driveid...</i>	Specify a list of one through 64 drives to be queried.
-a	Indicates all drives known to the VolServ system are to be queried.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.

Parameter	Description
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsdriveqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

- Step 1.** Successful drive query. Requests VolServ to return information on every drive known to the VolServ system.

```
vsdriveqry -a
```

Step 2. Output returned:

```
-----  
Drive Query Report                               Mar 10 11:00:32 19941  
-----  
Drive ID:                                       1  
-----  
      Drive Type:                               Magnetic  
      Associated Archive:                       stagel  
      Current State:                           Online  
      Assignment:                               Free  
      Usage Count:                              0  
      Current Usage Time:                      0  
      Total Usage Time:                        0  
      Error Count:                              0  
      Mount State:                              Unmounted  
      Mounted Media ID:  
      Media Type(s) Supported:D2M  
      •  
      •  
      2  
-----  
Drive ID:                                       3  
-----  
      Drive Type:                               Magnetic  
      Associated Archive:                       shelf1  
      Current State:                           Online  
      Assignment:                               Free  
      Usage Count:                              1  
      Current Usage Time:                      0  
      Total Usage Time:                        0  
      Error Count:                              0  
      Mount State:                              Unmounted  
      Mounted Media ID:  
      Media Type(s) Supported:D2M
```

```

-----
Drive ID:                               4
-----
Drive Type:                             Magnetic
Associated Archive:                      shelf1
Current State:                          Online
Assignment:                              Free
Usage Count:                             0
Current Usage Time:                     0
Total Usage Time:                       0
Error Count:                            0
Mount State:                            Unmounted
Mounted Media ID:
Media Type(s) Supported: D2M

```

Step 1. Unsuccessful drive query. Requests VolServ to return information on drive 35 . (Drive 35 does not exist.)

```
vsdriveqry 35
```

Step 2. Output returned:

```
Drive query was unsuccessful.
Error VOL008: item not found.
```

Notes

The `vsdriveqry` command does not trigger unsolicited status messages from VolServ.

A pending `vsdriveqry` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsdrivevary`

vsdrivevary

Changes the state of a drive.

A drive in the offline, unavailable, or diagnostic state is excluded from VolServ's drive selection algorithm.

Tip

A `vsmount` or `vslock` request for an offline, unavailable, or diagnostic drive will fail.

On the other hand, varying a drive to the online state makes it available for selection for `vsmount` or `vslock` requests.

Parameters

`vsdrivevary -s state`

`vsdrivevary driveid`

`vsdrivevary -p drivepool`

[`-Ihv`]

[`-H hostname`]

[`-P priority`]

[`-R retries`]

[`-T timeout`]

[`-V prognum`]

Parameters

Parameter	Description
<code>driveid...</code>	Specifies one through 64 individual drives whose state is to be varied.
<code>-p drivepool</code>	Specifies the name of a drive pool . <ul style="list-style-type: none"> Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.

Parameter	Description
-s <i>state</i>	Specifies the target state of the specified drives. Valid drive states are <ul style="list-style-type: none"> • online (on) • offline (of) • diagnostic (d)
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.

Parameter	Description
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The vsdrivevary command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful drive vary with verbose option specified. Requests VolServ to vary all drives in the drvpoolusr drive pool to the off-line state and to return status on every drive in drvpoolusr.

```
vsdrivevary -p drvpoolusr -s off-line
-V
```

Step 2. Output returned:

```
Vary 8 of 8 drives to state [off-line] was successful.
Drive [1]                no error
Drive [4]                no error
Drive [5]                no error
Drive [7]                no error
Drive [8]                no error
Drive [11]               no error
Drive [12]               no error
Drive [14]               no error
```

Step 1. Successful drive vary with verbose option not specified. Requests VolServ to vary drive 2 to the diagnostic state and to return status on a drive only if processing for that drive failed.

```
vsdrivevary 2 -s diagnostic
```

Step 2. Output returned:

```
Vary 1 of 1 drives to state
[diagnostic] was successful.
```

Step 1. Errors with verbose option specified. Requests VolServ to vary drives 5, 15, 8, 18, and 11 to the on-line state and to return status on every specified drive.

```
vsdrivevary 5 15 8 18 11 -s online -v
```

Step 2. Output returned:

```
Vary 3 of 5 drives to state [online] was successful
Drive [5]                no error
Drive [15]               invalid drive specified
Drive [8]                no error
Drive [18]               invalid drive specified
Drive [11]               no error
```

Step 1. Errors with verbose option not specified. Requests VolServ to vary drives 5, 15, 8, 18, and 11 to the off-line state and to return status on a drive only if processing for that drive failed.

```
vsdrivevary 5 15 8 18 11 -s offline
```

Step 2. Output returned:

```
Vary 3 of 5 drives to state [offline] was successful
Error VOL024: error in the list
Drive [15]                invalid drive specified
Drive [18]                invalid drive specified
```

Step 1. Unsuccessful Drive Vary request. Requests VolServ to vary every drive associated with the BadPoolName drive pool to the diagnostic state.

```
vsdrivevary -p BadPoolName -s
diagnostic
```

Step 2. Output returned:

```
Error VOL030: invalid drive pool
specified
```

Notes

Mounted drives that have their state changed remain in-use. Varying a drive has no impact on client data transfer operations in progress and the client receives no automatic notification of a drive state change.

Drives can be varied, regardless of whether or not they are associated with a library.

Drives can be varied, regardless of whether or not they are allocated; however, allocated drives that are not online cannot be dismounted.

The unavailable state is assignable only by VolServ when a higher level component in the library system is no longer online. For example, varying a CLM offline causes the associated drive to be viewed as unavailable.

The `vsdrivevary` command does not trigger unsolicited status messages from VolServ.

A pending `vsdrivevary` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsdriveqry`

vsexport

Marks media and related media information for removal from the VolServ system.

If the specified media is **not** associated with a library, the media is logically removed from the VolServ system. However, if the specified media is associated with a library, the media is placed on the Eject list of the appropriate library.

A client can also use the `vsexport` command to remove information about media that have been checked out of the library and is physically out of the library.

Upon receipt of an `vsexport` request, VolServ marks the specified media for eject and returns a successful return code to the client. The <Eject> button is highlighted on the operator's console to indicate that media need to be ejected from the library.

To physically remove the media marked for export from the library, an operator must select the Eject functionality from the appropriate library's console display. The Eject functionality is not available from the command line.

After media, specified on a `vsexport` command, is physically removed from the library system, the media is no longer managed by VolServ, and all information related to exported media is deleted from VolServ.

Parameters

```
vsexport mediaid...  
[-t comment]  
[ -Ihv]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid...</i>	<p>Specifies a list of one through 64 media to export.</p> <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
<i>-t comment</i>	<p>Provide a text message to be displayed on the library console for each media being exported. This comment is provided on the Eject list (a GUI display) from the library console associated with the library containing the media. The length of the comment is restricted by the CLI software. Currently, the maximum allowed length is 80.</p>
<i>-v</i>	<p>Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command.</p> <p>NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.</p>
<i>-l</i>	<p>Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.</p>
<i>-h</i>	<p>Requests help for the entered command. When the Help option is specified, no command line processing is performed.</p> <p>An exit code of 0 is returned to the client when the Help option is specified.</p>
<i>-H hostname</i>	<p>Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.</p>

Parameter	Description
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsexport` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful export request with verbose and comment options specified. Requests to VolServ to place media MED012, MED014, and MED016 on the Eject list with the comment, *Media to be shipped off-site*, and to return status on every specified media.

```
vsexport MED012 MED014 MED016 -t
Media to be shipped off-site -v
```

Step 2. Output returned:

```
Export 3 of 3 media was successful
Media [MED012]          no error
Media [MED014]          no error
Media [MED016]          no error
```

Step 1. Successful export request with comment option specified and verbose option not specified.

Requests to VolServ to place media MED001, MED002, MED003, MED012, MED014, and MED016 on the Eject list with the comment, *Media to be shipped off-site*, and to return status on media only if processing for that media failed.

```
vsexport MED001 MED002 MED003 MED012
MED014 MED016 -t Media to be shipped
off-site
```

Step 2. Output returned:

```
Export 6 of 6 media was successful
```

Step 1. Errors with verbose and comment options specified

Requests to VolServ to place media MED007 , MED014 , MED021 , MED028 , MED053 , and MED042 on the Eject list with the comment, *Media to be shipped off-site*, and to return status on every specified media.

```
vsexport MED007 MED014 MED021 MED028
MED053 MED042 -t Media to be shipped
off-site -v
```

Step 2. Output returned:

```
Export 4 of 6 media was successful
Error VOL024: error in the list
    Media [MED007]          no error
    Media [MED014]          invalid action or location state
                           for operation
    Media [MED021]          no error
    Media [MED028]          no error
    Media [MED053]          item not found
    Media [MED042]          no error
```

Step 1. Errors with verbose option not specified and comment option specified

Requests to VolServ to place media MED007 , MED014 , MED021 , MED028 , MED053 , and MED042 on the Eject list with the comment, *Media to be shipped off-site*, and to return status on media only if processing on that media failed.

```
vsexport MED007 MED014 MED021 MED028
MED053 MED042 -t Media to be shipped
off-site
```

Step 2. Output returned:

```
Export 4 of 6 media was successful
Error VOL024: error in the list
      Media [MED014]          invalid action or location state
                              for operation
      Media [MED053]          item not found
```

Notes

The `vsexport` command cannot be cancelled. Media can be unmarked for export via the Clear Eject request or if the operator fails the eject.

Media that is marked for ejection from the library system cannot be reallocated to satisfy a client request, except to satisfy a query of the media. Any other request (except `vsclareject`) received for that media fails.

An allocated media can be marked for export. Attempts to physically eject an allocated media fail until the media is no longer in-use.

The `vsdrivevary` command triggers unsolicited status messages from VolServ to the client software.

See Also

- `vsclareject`, `vsimport`

vsimport

Logically adds media to the VolServ system.

Upon receipt of a `vsimport` request, the specified media is added to the VolServ system. If a non-unique media identifier is specified, the import for that media fails.

The `vsimport` is a logical operation. Media must be physically entered into a library before the media is available for client use (mounting,...). Entry is performed when an operator selects the Enter functionality from the appropriate library's console display. The Enter functionality is not available from the command line.

Parameters

```
vsimport mediaid...  
vsimport -a archivename  
vsimport -c mediaclass  
[ -f manufacturer ]  
[ -b batch ]  
[-Ihv]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid...</i>	<p>Specifies a list of one through 64 media to import.</p> <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-a <i>archivename</i>	<p>Identifies the library into which the media are to be entered. VolServ sends Enter commands for the media to be entered to the console for the specified library.</p> <ul style="list-style-type: none"> • Valid library names may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-c <i>mediaclass</i>	<p>Identifies the MediaClass name with which the imported media are to be associated. Valid MediaClass names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.</p>
-f <i>manufacturer</i>	<p>Specifies the name of the media manufacturer.</p> <ul style="list-style-type: none"> • If the -f (manufacturer) option is specified, the -b (batch) option must also be specified. • If the -f (manufacturer) option is not specified, the -b (batch) option cannot be specified.

Parameter	Description
-b <i>batch</i>	<p>Specifies the manufacturer's batch that contains the media to be entered.</p> <ul style="list-style-type: none"> • If the -b (batch) option is specified, the -f (manufacturer) option must also be specified. • If the -b (batch) option is not specified, the -f (manufacturer) option cannot be specified.
-v	<p>Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command.</p> <p>NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.</p>
-l	<p>Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.</p>
-h	<p>Requests help for the entered command. When the Help option is specified, no command line processing is performed.</p> <p>An exit code of 0 is returned to the client when the Help option is specified.</p>
-H <i>hostname</i>	<p>Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.</p>
-P <i>priority</i> Default value is 15.	<p>The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.</p>
-R <i>retries</i> Default value is 3.	<p>Number of retries the CLI software attempts if a time-out is returned by the API software.</p>

Parameter	Description
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsimport` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples**Step 1.** Successful Import request with verbose option specified

Requests VolServ to import media MED003 , MED018 , MED021 , MED030 , and MED036 into the `medclassshlmed` MediaClass group in the `shelf1` library and to return status on every specified media.

```
vsimport MED003 MED018 MED021 MED030
MED036
-a shelf1 -c medclassshlmed -v
```

Step 2. Output returned:

```
Import 5 of 5 media was successful
Media [MED003]          no error
Media [MED018]          no error
Media [MED021]          no error
Media [MED030]          no error
Media [MED036]          no error
```

Step 1. Successful Import request with verbose option not specified

Requests VolServ to import media MED003 , MED018 , MED021 , MED030 , and MED036 into the medclasssh1med MediaClass group in the shelf1 library and to return status on media only if processing for that media failed.

```
vsimport MED003 MED018 MED021 MED030
MED03
-a shelf1 -c medclasssh1med
```

Step 2. Output returned:

```
Import 5 of 5 media was successful
```

Step 1. Errors with verbose option specified.

Requests VolServ to import media MED003 , MED018 , MED021 , MED030 , and MED036 into the medclasssh1med MediaClass group in the shelf1 library and to return status on every

specified media. "MediaMaker ABC" is the manufacturer of these media and these media were part of batch "1001."

```
vsimport MED003 MED018 MED021 MED030
MED036 -a shelf1
-c medclassshlmed -v -f "MediaMaker
ABC" -b 1001
```

Step 2. Output returned:

```
Import 3 of 5 media was successful
Error VOL024: error in the list
      Media [MED003]          no error
      Media [MED018]          item already exists
      Media [MED021]          item already exists
      Media [MED030]          no error
      Media [MED036]          no error
```

Step 1. Errors with verbose option not specified

Requests VolServ to import media MED003, MED018, MED021, MED030, and MED036 into the medclassshlmed MediaClass group in the shelf1 library and to return status on media only if processing for that media failed. "MediaMaker ABC" is the manufacturer of these media and these media were part of batch "1001."

```
vsimport MED003 MED018 MED021 MED030
MED036 -a shelf1
-c medclassshlmed -f "MediaMaker ABC"
-b 1001
```

Step 2. Output returned:

```
Import 3 of 5 media was successful
Error VOL024: error in the list
           Media [MED018]           item already exists
Media [MED021]item already exists
```

Step 1. Unsuccessful Import request.

Requests VolServ to import media MED003 , MED018 , MED021 , MED030 , and MED036 into the medclassmed MediaClass group in the BadArchiveName library and to return status on media only if processing for that media failed.

```
vsimport MED003 MED018 MED021 MED030
MED036 -a BadArchiveName
-c medclassmed
```

Step 2. Output returned:

```
Import of media was unsuccessful
Error VOL013: invalid archive
```

Notes

Import is a logical operation. Media must be physically entered into a library by an operator before they are available for general use. A successful Import request results in the media identifier being placed on the receiving library's Enter list.

Media identifier values must be unique throughout a VolServ system. Non-unique media identifiers are rejected.

- If the Enter fails for the media to be imported, the media is placed Intransit.

Media identifiers of media being imported into manual libraries may contain alphanumeric and special characters including spaces. However, spaces cannot be used as leading or trailing characters. If media in a manual library can later be moved into an automated library, the media identifiers must also conform to any naming restrictions imposed by the automated library. For example, special characters may not be allowed in media identifiers in the automated library.

The media type for the media is determined by the media type of the specified MediaClass group.

After the MediaClass capacity is reached, no more media can be imported into the MediaClass group.

The `vsimport` command triggers unsolicited status messages from VolServ to the client software.

A pending Import request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsexport`

vsintransitqry

Queries for media that are in the intransit state. The query returns a list of media identifiers.

Note

The `vsintransitqry` command supports no command-specific options.

Media is considered to be intransit under the following conditions:

- It is waiting to be entered into a library as a result of `vsimport`, `vsmount`, `vsmove`, `vscheckout`, or migration activity processing.
- It is in the homeless state as a result of a manual eject or a failed enter activity.

Parameters

`vsintransitqry`

```
[ -Ih ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsintransitqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.

- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful intransit query.

Requests VolServ to return a list of all media in the intransit state.

```
vsintransitqry
```

Step 2. Output returned:

```
-----  
Intransit Query Report                May 14 09:45:57 19931  
-----  
Media ID(s):MED007                    MED025MED040
```

Step 1. Unsuccessful intransit query

Requests VolServ to return a list of all media in the intransit state.

```
vsintransitqry
```

Step 2. Output returned:

```
Intransit query was unsuccessful  
Error VOL008: item not found
```

Notes

Only media in the Intransit state are queried and reported to the client.

The vsintransitqry command does not trigger unsolicited status messages from VolServ.

A pending `vsintransitqry` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsmedqry`

vslock

Obtains exclusive use of one or more drives.

The lock identifier assigned to the locked drives is returned to the client. This lock identifier must be used by clients on subsequent requests (such as `vsmount`) for those drives.

A request to lock a drive that is busy (mounted or previously locked) is queued until the drive becomes available. In addition, intermediate status is returned to indicate the reason a request is being queued.

A `vslock` command:

- That specifies a drive pool or a list of drives should also indicate the number of drives from the pool and list to be locked. VolServ selects the drives to lock from within the pool and list according to drive availability.
- cannot specify a drive pool or a list of drives that spans libraries, they must be associated with a single library.
- Reserves one drive for exclusive use if a quantity is not specified on the command.

VolServ considers only online drives as candidates to be locked. If a sufficient number of online drives in the same library are unavailable to satisfy a `vslock` command, the command fails.

If there is a sufficient number of online drives in the same library to satisfy a `vslock` request, but the number of available online drives is not sufficient, the request waits until sufficient drives become available.

Note
Partial locks are not set.

Parameters

```
vslock driveid...
vslock -p drivepool
[ -x driveid ]
[ -q quantity ]
[ -Ih ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>driveid...</i>	Specifies a list of one through 64 candidate drives to reserve (lock) for exclusive use.
-p <i>drivepool</i>	Specifies the name of a drive pool. <ul style="list-style-type: none"> Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-x <i>driveid...</i>	Specifies a list of one through 64 drives contained in the specified drive pool that are NOT reserved for exclusive use.
-q <i>quantity</i>	Specifies the number of drives to be locked. <ul style="list-style-type: none"> If the [-q <i>quantity</i>] option is not specified, the number of drives to be locked defaults to 1.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vslock` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Lock request that specifies a list of one or more drives (**vslock 4 8 12**)

Step 2. Requests VolServ to lock (reserve for exclusive use) one of the drives 4, 8, and 12.

Step 3. Output returned:

```
Lock [1] drives locked with lock id[1719790788]
1          Drive[4]
```

Step 1. Successful Lock request that specifies a drive pool and a quantity

Requests VolServ to lock (reserve for exclusive use) 2 drives from drive pool drvpoolmed.

```
vslock -p drvpoolmed -q 2
```

Step 2. Output returned:

```
Lock [2] drives locked with lock id[1719790788]
1          Drive[40]
2          Drive[41]
```

Step 1. Unsuccessful Lock request, too many drives requested to be reserved.

Requests VolServ to lock (reserve for exclusive use) 5 drives from drive pool drvpooltwr (drvpooltwr contains only 2 drives.)

```
vslock -p drvpooltwr -q 5
```

Step 2. Output returned:

```
Lock was unsuccessful
Error VOL122: not enough available
drives in pool
```

Step 1. Unsuccessful Lock request.

Requests VolServ to lock (reserve for exclusive use) 1 drive from drive pool BadDrivePool.

```
vslock -p BadDrivePool -q 1
```

Step 2. Output returned:

```
Lock was unsuccessful
Error VOL030: invalid drive pool
specified
```

Notes

Note

It is important to keep any `vsmount` or `vsdismount` request that contains the proper lock identifier to continue to have access to a locked drive.

If a mount request does not specify a lock identifier for a locked drive, whether the drive is available for use or not, the `vsmount` request waits until the drive is both unlocked and available.

If a `vsmount` request specifies a drive pool, but does not specify a lock identifier, only available unlocked drives in the specified drive pool are considered to satisfy the mount request. If there are no available unlocked drives in the specified drive pool, the mount request waits until a drive from the specified drive pool becomes available and unlocked.

A `vslock` command that is queued and awaiting resources is cancelled via the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

An `vsunlock` command is run when the client no longer needs drives for exclusive use.

The `vslock` command does not trigger unsolicited status messages from VolServ.

Intermediate status may be returned if the `vslock` command is queued.

See Also

- `vsdismount`,
- `vsmount`,
- `vsunlock`

vsmedclass qry

Queries for the attributes of a specified MediaClass group or all MediaClass groups. The members of the MediaClass group and any additionally requested information on each media is returned to the client.

Parameters

```
vsmedclassqry mediaclass
vsmedclassqry -a
[ -m | -v ]
[ -Ih ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaclass</i>	Specifies a single MediaClass name to request information on. Valid MediaClass names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-a	Requests information on all MediaClass groups known to the VoIServ system.
-m	Requests a list of media identifiers for all media associated with each reported MediaClass group.
-v	Requests detailed information for all media associated with each reported MediaClass group.

Parameter	Description
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsmedclassqry` command is successfully processed.

- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful MediaClass Query with neither **-m** nor **-v** specified.

Requests VolServ to return information on every MediaClass group known to the VolServ system. No media-specific information is requested.

```
vsmmedclassqry -a
```

Step 2. Output returned:

```
-----  
Media Class Query Report                May 14 10:09:11 19931  
-----
```

```
Media Class: medclasstgusr  
-----
```

```
Media Type:          USRSTYPE  
Capacity:            20  
Current Fill Level:  2  
High Mark %:         80%  
Mountable by Class: Yes  
Notify Comment:      Media exceed high mark  
RPC Option:          No Callback
```

-
- 2


```

    • 2
Media Class: medclasssh2med
-----
Media Type:           D2M
Capacity:             20
Current Fill Level:   3
High Mark %:         80%
Mountable by Class:  Yes
Notify Comment:       Media exceed high mark
RPC Option:           Enterprise Callback
Enterprise ID:        3
    •
    • 2
    • 2
Media Class: medclasssh2sml
-----
Media Type:           D2S
Capacity:             20
Current Fill Level:   2
High Mark %:         80%
Mountable by Class:  Yes
Notify Comment:       Media exceed high mark
RPC Option:           Standard Callback
HostName:             copper
Program Number:       1
Version Number:       1
Procedure Number:     1
Protocol:             TCP

```

Step 1. Successful Media Class Query request with **-m** option specified.

Requests VolServ to return detailed media information for every media in the `medclassshlusr` MediaClass group.

```
vsmedclassqry medclassshlusr -m
```

Step 2. Output returned:

```
-----  
Media Class Query Report           May 14 09:45:57 19931  
-----
```

```
Media Class: medclassshlusr  
-----
```

```
Media Type:           USRTYPE  
Capacity:             20  
Current Fill Level:   3  
High Mark %:          80%  
Mountable by Class:  Yes  
Notify Comment:       Media exceed high mark  
RPC Option:           No Callback
```

```
Media ID(s):    MED007    MED025    MED040
```

Step 1. Successful Media Class Query request with **-v** option specified.

Requests VolServ to return detailed media information for every media in the `medclasssml` MediaClass group.

```
vsmmedclassqry medclasssml -v
```

Step 2. Output returned:

```
-----  
Media Class Query Report           May 14 09:45:57 19931  
-----
```

Media Class: medclasssml

Media Type: D2S
Capacity: 20
Current Fill Level: 8
High Mark %: 80%
Mountable by Class: Yes
Notify Comment: Media exceed high mark
RPC Option: No Callback

MediaID: MED005

Media Type: D2S
Media Class: medclasssml
Assignment: Free
Location State: Archive
Current Archive: stagel
Pending Archive:
Action State: None
Import Date: May 14 09:30:09 1993
Last Access: May 14 09:45:43 1993
Mount Count: 2
Move Count:
Manufacturer: MediaMaker
Batch: 1001

2
2

MediaID: MED017

Media Type: D2S
Media Class: medclasssml
Assignment: Allocated
Location State: Archive
Current Archive: shelf2
Pending Archive:
Action State: None
Import Date: May 14 09:28:41 1993
Last Access: May 14 09:40:21 1993
Mount Count: 1
Move Count: 1
Manufacturer:
Batch:

2
2

MediaID: MED038

Media Type: D2S
Media Class: medclasssml
Assignment: Free
Location State: Archive
Current Archive: shelf2
Pending Archive: shelf1
Action State: Move
Import Date: May 14 09:30:09 1993
Last Access:
Mount Count: 1
Move Count: 2
Manufacturer:
Batch:

•
•
•

```
MediaID: MED051
Media Type:          D2S
Media Class:         medclasssml
Assignment:          Free
Location State:      Intransit
Current Archive:
Pending Archive:     shelf1
Action State:        Import
Import Date:         May 14 09:30:09 1993
Last Access:
Mount Count:         0
Move Count:          0
Manufacturer:
Batch:
```

Step 1. Unsuccessful Media Class Query.

Requests VolServ to return information on the UnknownClass MediaClass group.

```
vsmedclassqry UnknownClass
```

Step 2. Output returned:

```
Query of Media Class [UnknownClass]
was unsuccessful

Error VOL008: item not found
```

Notes

The vsmedclassqry command does not trigger unsolicited status messages from VolServ.

A pending `vsmedclassqry` is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsmedqry`

vsmmedqry

Queries for the attributes of one or more specified media. The values of the attributes of the media are returned to the client.

Parameters

vsmmedqry *mediaid...*

vsmmedqry **-a**

[**-Ih**]

[**-H** *hostname*]

[**-P** *priority*]

[**-R** *retries*]

[**-T** *timeout*]

[**-V** *prognum*]

Parameters

Parameter	Description
<i>mediaid...</i>	Specifies a list of one through 64 media to be queried.
-a	Specifies the -a option to indicate information is to be reported on all media known to the VolServ system.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.

Parameter	Description
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The vsmedqry command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Media Query request.

Requests VolServ to return information on every media known to the VolServ system.

```
vsmedqry -a
```


Step 2. Output returned:

```
-----  
Media Query Report                               May 14 10:34:30 19931  
-----  
Media ID:                                       MED001  
-----  
Media Type:                                     USRTYPE  
Media Class:                                   medclasstgusr  
Assignment:                                    Free  
Location State:                               Archive  
Current Archive:                              stagel  
Pending Archive:  
Action State:                                 None  
Import Date:                                  May 13 12:06:15 1993  
Last Access:                                  May 13 13:12:09 1993  
Mount Count:                                  1  
Move Count:                                   2  
Manufacturer:  
Batch:  
  
2  
2
```

```
Media ID: MED015
-----
Media Type: D2M
Media Class: medclassmed
Assignment: Free
Location State: Intransit
Current Archive:
Pending Archive: shelf1
Action State: Move
Import Date: May 13 16:25:39 1993
Last Access: May 13 16:40:53 1993
Mount Count: 0
Move Count: 0
Manufacturer: MediaMaker ABC
Batch: 1001
```

```
2
2
```

```
Media ID: MED027
-----
Media Type: D2M
Media Class: medclassmed
Assignment: Free
Location State: Archive
Current Archive: shelf2
Pending Archive: shelf1
Action State: Move
Import Date: May 12 14:36:10 1993
Last Access: May 13 16:13:53 1993
Mount Count: 0
Move Count: 0
Manufacturer:
Batch:
```

```
•
•
•
```

```

Media ID:                                MED039
-----
Media Type:                              D2M
Media Class:                             medclassmed
Assignment:                              Allocated
Location State:                          Archive
Current Archive:                          shelf1
Pending Archive:                          shelf2
Action State:                             Move
Import Date:                             May 12 14:36:10 1993
Last Access:                             May 13 14:36:10 1993
Mount Count:                             1
Move Count:                              1
Manufacturer:
Batch:

```

Step 1. Media Query request with errors.

Requests VolServ to return information on media MED027, BadMedia, and MED039.

```
vsmedqry MED027 BadMedia MED039
```

Step 2. Output returned:

```

-----
Media Query Report                        May 25 16:06:09 1993
-----

```

```

Media ID:                                MED027
-----
Media Type:                             D2M
Media Class:                             medclassmed
Assignment:                              Free
Location State:                          Archive
Current Archive:                          shelf2
Pending Archive:                          shelf1
Action State:                             Move
Import Date:                             May 13 16:36:39 1993
Last Access:                              May 24 12:23:25 1993
Mount Count:                              0
Move Count:                               0
Manufacturer:
Batch:

Media ID:                                BadMedia
-----
Error:                                    item not found

Media ID:                                MED039
-----
Media Type:                             D2M
Media Class:                             medclassmed
Assignment:                              Allocated
Location State:                          Archive
Current Archive:                          shelf1
Pending Archive:                          shelf2
Action State:                             Move
Import Date:                             May 13 16:36:39 1993
Last Access:                              May 24 12:23:25 1993
Mount Count:                              1
Move Count:                               1
Manufacturer:
Batch:

```

Notes

A `vsmedqry` can query any media in the VolServ system. The media specified in a single Media Query request are not required to be located in the same library.

A pending `vsmedqry` is cancelled with the VolServ `cancel` command. The VolServ `cancel` command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

The `vsmedqry` command does not trigger unsolicited status messages from VolServ.

See Also

- `vsmedclassqry`

vsmedtypeqry

Queries for the attributes of one or more media types. The values of the attributes of the media types are returned to the client.

Parameters

```
vsmedtypeqry mediatype...
vsmedtypeqry -a
[ -Ih ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediatype...</i>	Specifies a list of one or more media types to be queried. Either system-specified media types and or user-defined media types can be specified. Valid media type names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted. The number of media types that can be specified is restricted by the CLI software. Currently, the maximum allowed number is 32.
-a	Indicates that information is to be returned on all media types known to the VoIServ system.
-l	Command options are first read from the command line. VoIServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsmedtypeqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Media Type Query request.

Requests VolServ to return information on every media type known to the VolServ system.

```
vsmedtypeqry -a
```

Step 2. Output returned:

```
-----  
Media Type Query Report                May 24 12:43:18 19931  
-----  
MediaType:                             D2S  
-----  
      Capacity:                          25000.00 megabytes  
      Number of Sides:                    1  
      •  
      •  
      •  
  
MediaType:                             3480  
-----  
      Capacity:                          200.00 megabytes  
      Number of Sides:                    1
```

Step 1. Media Type Query request with errors.

```
vsmedtypeqry D2S USRTYPE
```



```
-----  
Media Type Query Report           May 24 12:43:18 19931  
-----  
MediaType:                        D2S  
-----  
          Capacity:                25000.00 megabytes  
          Number of Sides:         1  
MediaType:                        USRTYPE  
-----  
          Error: item not found
```

Notes

The `vsmedtypeqry` command does not trigger unsolicited status messages from VolServ.

A pending `vsmedtypeqry` is cancelled with the VolServ `cancel` command. The VolServ `cancel` command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

See Also

- `vsmedclassqry`,
- `vsmedqry`

vsmount

Mounts media onto a drive.

When issuing a Mount command, the client can specify one of the following.

- Single media.
- List of media.
- MediaClass group.
- And:
 - Specific drive.
 - Drive pool.
 - Drive pool with the exclusion of drives.

The `vsmount` command's lock identifier parameter is required if the drive to be used in satisfying the `vsmount` request has been previously locked with a `vslock` request. If a `vsmount` request is run for a locked drive and does not specify a lock identifier, VolServ waits until the requested drive is unlocked.

The client can also specify how to handle a `vsmount` request that requires an inter-library movement of the media. This option indicates whether an inter-library media movement should or should not be attempted and whether to consider if the source and destination libraries are operator-attended or not.

If more than one media and or a drive pool is specified on the `vsmount` command, VolServ applies a selection algorithm to select media and drive pair from the list of media and available drives.

For manual libraries, a `vsmount` notice is sent to the operator console for action. The operator is then responsible for confirmation to VolServ when the mount is complete. VolServ returns a return code to the client after the operator action is complete.

A `vsmount` request is queued for later processing if:

- The specified drive is busy.
- The specified media is busy.
- The selected drive is locked and a lock identifier was not specified on the Mount request.

When a `vsmount` request is queued for later processing, VolServ returns intermediate status to the client that specifies the reason the Mount request was queued.

Parameters

```

vsmount mediaid...
vsmount -c mediaclass
vsmount -d driveid
vsmount -p drivepool
[ -f flipmedia ]
[ -i | -u ]
[ -l lockid]
[ -Ih ]
[ -H hostname ]
[ -n newmediaclass ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum]
[ -x driveid...]

```

Parameters

Parameter	Description
<i>mediaid...</i>	Specifies a list of one through 64 media to be mounted. <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-d <i>driveid</i>	Specifies a drive that can be used to satisfy the Mount request.
-c <i>mediaclass</i>	Specifies a MediaClass name from which the media to be mounted is to be selected.
-f <i>flipmedia</i>	
-i	Indicates that a mount requiring an inter-library move fails if either the source and destination library is marked as unattended.
-u	Indicates that a mount requiring an inter-library move is to be performed, regardless of whether either the losing or gaining library is attended or unattended.
-l <i>lockid</i>	Specifies the associated lock identifier if a locked drive) is specified to satisfy the Mount request.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.

Parameter	Description
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-n <i>newmediaclass</i>	Specifies the destination MediaClass group for the reclassification of the media selected to satisfy the Mount request. NOTE: Use this only if the selected media is to be reclassified to a different MediaClass group.
-p <i>drivepool</i>	Specifies the name of a drive pool. <ul style="list-style-type: none"> Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Parameter	Description
-x <i>driveid...</i>	Specifies a list of one through 64 drives contained in the specified drive pool that are to be excluded from consideration when allocating drives to satisfy the Mount request.

Return Codes

- 0 - The `vsmount` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Mount request that specifies a list of one or more media and a specific drive.

Requests VolServ to mount media MED026 on drive 9.

```
vsmount MED026 -d 9
```

Step 2. Output returned:

```
Mount of Media [MED026] onto Drive [9] was successful
```

Step 1. Successful Mount request that specifies a MediaClass group and a specific drive.

Requests VolServ to mount media from MediaClass `medclassmed` onto drive 10 and to reclassify the selected media to MediaClass group `medclassshlmed`.

```
vsmount -c medclassmed -d 10 -n
medclassshlmed
```

Step 2. Output returned:

```
Mount of Media [MED027] onto Drive
[10] was successful
```

Step 1. Successful Mount request that specifies a specific media and a drive pool with an exclusion drive list.

Requests VolServ to mount media MED022 onto any drive from drive pool `drvpoolusr`, excluding drives 4 and 14.

```
vsmount MED022 -p drvpoolusr -x 4 14
```

Step 2. Output returned:

```
Mount of Media [MED022] onto Drive
[12] was successful
```

Step 1. Successful Mount request that specifies a MediaClass name and a drive pool.

Requests VolServ to mount media from the `medclasssml` MediaClass group onto a drive from the `drvpooltwr` drive pool.

```
vsmount -c medclasssml -p drvpooltwr
```

Step 2. Output returned:

```
Mount of Media [MED041] onto Drive  
[7] was successful
```

Step 1. Successful Mount request when all specified drives are in use.

Requests VolServ to mount media MED034 onto drive 12. (MED022 is currently mounted on drive 12.)

```
vsmount MED034 -d 12
```

Step 2. Output returned:

```
Mount waiting due to busy drive  
Mount of Media [MED034] onto Drive  
[12] was successful
```

Step 1. Successful Mount request when specified media is in use.

Requests VolServ to mount media MED034 on any drive in drive pool drvpoolmed except drive 12.

```
vsmount MED034 -p drvpoolmed -x 12
```

Step 2. Output returned:

```
Mount waiting due to busy media  
Mount of Media [MED034] on Drive [14]  
was successful
```


Step 1. Successful Mount request reclassifying the selected media.

Requests VolServ to mount any media from MediaClass group `medclasstgmed` onto any drive in drive pool `drvpoolmed`, and to change the MediaClass association of the selected media from `medclasstgmed` to `medclassmed`.

```
vsmount -c medclasstgmed -p  
drvpoolmed -n medclassmed
```

Step 2. Output returned:

```
Mount of Media [MED048] onto Drive  
[3] was successful
```

Note

Before running the `vsmount` request, `MED048` was associated with `medclasstgmed`. After running the `vsmount` request, `MED048` is associated with `medclassmed`. The `vsmedqry` command can be used to verify the MediaClass association of a specific media.

Step 1. Unsuccessful Mount request requiring an inter-library move.

Requests VolServ to mount media `MED023` located in the `stage1` library onto drive `11` associated with the `tower1` library.

```
vsmount MED023 -d 11
```

Step 2. Output returned:

```
Media could not be mounted onto drive  
Error VOL110: mount crosses archives
```

Step 1. Unsuccessful Mount request with unknown media specified.

Requests VolServ to mount media BadMedia onto drive 5.

```
vsmount BadMedia -d 5
```

Step 2. Output returned:

```
Media could not be mounted onto drive  
Error VOL029: invalid media specified
```

Notes

The time required to satisfy a specific mount request depends on the number of available drives and pending `vsmount` requests.

A drive that is specified in a `vsmount` request may not be the ideal drive where to mount the specified media. It may take considerably longer to mount the media onto a specified drive than if a drive pool is specified.

The **-i** and **-u** options have no affect on a `vsmount` request that does not require an inter-library media movement.

If a specified drive was previously locked, the lock identifier assigned to that drive must be supplied before that drive is considered in the selection process.

If a specified or selected drive was previously locked and the `vsmount` request does not specify a lock identifier, VolServ returns a message to the client that the selected drive is locked and VolServ is waiting for the drive to become unlocked to continue execution of the command.

If the `vsmount` request specifies a MediaClass group and the `-n newmediaclass` option is specified, the reclassify to a different MediaClass group occurs only after VolServ selects the media to satisfy the `vsmount` request. Only the selected media is reclassified. The remaining media in the MediaClass group are not reclassified.

- If the `-n newmediaclass` option is specified, the receiving MediaClass group is checked for compatible media type, as well as for adequate room for another media (i.e., fill level less than capacity).
- If either of these conditions is not satisfied, the `vsmount` request fails.

A pending `vsmount` request (waiting for a drive or media) is cancelled with the VolServ Cancel request. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

The `vsmount` request fails if no specified drive is online.

If media or drive is specified and either the media or drive (or both) are presently in use, the `vsmount` request waits for resources and a message is returned to the client that indicates the reason for the delay.

When specifying a drive pool that contains drives that support different types of media, only those drives that support the media type of the media specified in the `vsmount` request are considered for selection.

If a list of media specified in a `vsmount` request contains media of more than one type, the request fails.

When media or drive pairing requires the media be moved within a single library system (such as cross-aisle) the mount may take a while to complete. The `-i` and `-u` options do NOT apply to intra-library system movement.

When a `vsmount` request with groups of media or drives is submitted, VolServ attempts to select a drive or media pair where the drive and media are associated with the same library. If multiple drive or media pair are candidates, VolServ selects a drive or media pair from the library with an available drive.

If no drive or media pair associated with the same library exists, VolServ then selects a drive or media pair where the drive and media are associated with a different library. If multiple drive or media pair are candidates, VolServ selects a drive or media pair from the library with the largest number of drives. If all libraries contain the same number of drives, VolServ then selects a drive or media pair from the library with the largest number of media.

When specifying a mount by MediaClass group, and the specified MediaClass group is associated with more than one library, no inter-library media or drive pairing is permitted. The media selected from the MediaClass group must be in the same library as the selected drive; otherwise the Mount request fails.

When media is ejected (as a result of Export, or Checkout, no check is made to determine if a queued Mount request exists for the ejected media. As a result, the Mount request remains queued until a drive is freed. At that time, the Mount request fails because the media is not available. In other words, the request queue is not checked for impact on pending requests each time a resource changes its availability and after media or drive pair is identified. VolServ does not attempt re-pairing based on changed availability of resources.

The Mount command triggers unsolicited status messages from VolServ to the client software.

Mount requests may require inter-library media movement or a Mount request can be queued waiting for an in-use media or drive. The client may want to increase the *timeout* value or the *retries* value so the CLI `vsmount` request does not timeout while waiting for the Mount request to complete.

If the Mount request allows movement, VolServ checks the destination library for available space. If no space is available, the mount fails.

See Also

- `vsdismount`,
- `vsreclassify`

vsmove

Moves media from one library to another.

A client uses the `vsmove` command to direct the movement of media from one library to another. Inter-library media movement requires operator intervention. The operator must eject the media from their current libraries and enter them into the target library. The Eject and Enter functionalities are available from the appropriate library's console display. The Eject and Enter functionalities are not available from the command line.

Upon receipt of a `vsmove` request, the VolServ software verifies the specified media exist, the target library supports the media type of the specified media, and there exists an appropriate library MediaClass association with the target library. The current library of each specified media is commanded to eject the media. An Eject request, specifying the target library, is displayed on the library console of each losing library. The operator must select and manually eject or remove the media on the list. After media is selected for ejection, the target library displays a corresponding **Enter** request for that media. The operator must then manually enter the media specified on the list into the target library.

When the media is ejected from the original library and entered into the target library, the VolServ system generates unsolicited status messages if any of the moved media are associated with MediaClass groups that are configured to generate unsolicited communication from VolServ.

The `vsmove` command is run for "homeless" media. A homeless media is an Intransit media that has no pending movement activity.

Parameters

```
vsmove mediaid
vsmove -a archivename
[-iIhwv]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid...</i>	<p>Specifies a list of one through 64 media to be moved.</p> <ul style="list-style-type: none"> • A valid media identifier may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-a <i>archivename</i>	<p>Specifies the name of the library to which the specified media are to be moved.</p> <ul style="list-style-type: none"> • Valid library names may contain up to 16 alphanumeric characters, including spaces. • Leading and trailing spaces are not permitted.
-i	<p>Indicates this command is to be processed only if both the source and destination libraries are operator-attended.</p>

Parameter	Description
-w	<p>Indicates VolServ waits until the command processing completes before returning status to the client.</p> <p>If the move requires an inter-library move, VolServ waits until the move completes, whether the source and destination libraries are attended or unattended. When the</p> <ul style="list-style-type: none"> • If -w option is not specified, final status is returned as soon as move processing begins.
-v	<p>Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command.</p> <p>NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.</p>
-l	<p>Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.</p>
-h	<p>Requests help for the entered command. When the Help option is specified, no command line processing is performed.</p> <p>An exit code of 0 is returned to the client when the Help option is specified.</p>
-H <i>hostname</i>	<p>Host name of the VolServ server.</p> <p>The default host name is the host name of the computer where the CLI command is run.</p>
-P <i>priority</i> Default value is 15.	<p>The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.</p>

Parameter	Description
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsmove` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

- Step 1.** Successful Move request, wait until move completes before returning status to client, verbose option specified.

Requests VolServ to move media MED016 , MED023 , MED044 , and MED048 to library `stage1`; to wait until the move completes before returning status to the client; and to return status on every specified media.

```
vsmove MED016 MED023 MED044 MED048 -a
stage1 -vv
```

Step 2. Output returned:

```
Move 4 of 4 media was successful
Media [MED016]          no error
Media [MED028]          no error
Media [MED043]          no error
Media [MED048]          no error
```

Step 1. Successful Move request, verbose option not specified.

Step 2. Requests VolServ to move media MED013 , MED016 , MED028 , and MED028 to library shelf1 . Since the **-i** option is NOT specified, the move is to complete whether the losing and gaining libraries are attended or unattended.

```
vsmove MED013 MED016 MED028 MED031 -a
shelf1
```

Step 3. Output returned:

```
Move 4 of 4 media was successful.
```

Step 1. Errors with verbose option specified (target library is unattended).

Step 2. Requests VolServ to move media MED013 , MED016 , MED022 , and MED034 to the shelf1 library only if both the source libraries and the destination library are attended and to return status on every specified media.

```
vsmove MED013 MED016 MED022 MED034 -a
shelf1 -iv
```

Step 3. Output returned:

```
Move 0 of 4 media was successful
Error VOL024: error in the list
  Media [MED013]   target archive mode is unattended
  Media [MED016]   target archive mode is unattended
  Media [MED022]   target archive mode is unattended
  Media [MED034]   target archive mode is unattended
```

Step 1. Errors with verbose option not specified.

Requests VolServ to move media MED003, MED004, MED013, MED028, MED033, and MED043 to the shelf2 library.

```
vsmove MED003 MED004 MED013 MED028
MED033 MED043
-a shelf2
```

Step 2. Output returned:

```
Move 3 of 6 media was successful
Error VOL024: error in the list
  Media [MED003]   item not found
  Media [MED004]   media already exists in an
archive
  Media [MED033]   archive not associated with
media
class
```

Step 1. Unsuccessful Move request.

Requests VolServ to move media MEDabc and MEDxyz to the BadArchive library.

```
vsmove MEDabc MEDxyz -a BadArchive
```

Step 2. Output returned:

```
Move of media was unsuccessful
Error VOL107: invalid target archive
```

Notes

Movement of media is between libraries, not within libraries. Media that is allocated to a Move request is not available for other allocation until the move completes.

- If the **-w** option is not specified, status from the Move request indicates only the initial validity of the move. Actual completion of the move can only be traced via callback processing, media querying, or operator monitoring.

The Move command does trigger unsolicited status messages from VolServ.

- If the **-w** option is specified on a Move request, the client can increase the *timeout* value or the *retries* value so the CLI **vsmove** command does not time-out while awaiting completion of the Move request.

A pending Mount request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-\\). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- **vsclareject**

vsping

Pings the VolServ system.

The `vsping` command allows a user to check the availability of VolServ (in other words, a means for the client systems to “ping” the VolServ system.) If VolServ responds to the `vsping`, it is assumed by the client that the VolServ client interface is available and functioning.

The client is not required to use the `vsping` command before sending other commands, but `vsping` is available for clients to verify that VolServ software is running.

- If no options are specified, `vsping` tries to ping the VolServ system on the host machine at VolServ’s default program number.

Note

The `vsping` command supports no command-specific options.

Parameters

```
vsping
[ -Ih ]
[ -H hostname ]
[ -V prognum ]
```

Parameters

Parameter	Description
-I	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsping` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful request, VolServ is available.

Requests VolServ to acknowledge receipt of the Ping request.

```
vsping
```

Step 2. Output returned:

```
VolServ is available.
```

```
Successful request, VolServ is not
available
```

Step 1. Successful request, VolServ is not available.

Requests VolServ to acknowledge receipt of the Ping request.

```
vsping
```

Step 2. Output returned:

```
VolServ is not available
Error CMD022: could not send command
to volume server.
```

Notes

The client is not required to use `vsping` before issuing other commands.

The `vsping` command is a relatively fast operation.

No VolServ status messages are returned in response to the `vsping` command.

The `vsping` command does not trigger unsolicited status messages from VolServ.

See Also

None

vspoolcfg

Configures a specified drivepool.

Parameters

```

vspoolcfg -p drivepool
vspoolcfg -c driveid
vspoolcfg -d driveid
vspoolcfg -i driveid
vspoolcfg -r driveid
[ -lh ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum]

```

Parameters

Parameter	Description
<i>-p drivepool</i>	Specifies a single drive pool to be queried. <ul style="list-style-type: none"> Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
<i>-c driveid</i>	Identifies the drive where the media is mounted.
<i>-d driveid</i>	
<i>-i driveid</i>	
<i>-r driveid</i>	

Parameter	Description
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

vspoolqry

Queries for information on a specified drive pool or on all drive pools known to VolServ.

The command returns the list of drives contained in each drive pool. Detailed information on each individual drive is obtained by specifying the **-v** (verbose) option.

Parameters

```
vspoolqry drivepool
vspoolqry -a
[ -Ihv ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>drivepool</i>	Specifies a single drive pool to be queried. <ul style="list-style-type: none"> Valid drive pool names may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. <p>NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.</p>

Parameter	Description
-a	Specifies the -a option to request information on all drive pools known to the VolServ system.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vspoolqry` command is successfully processed.

- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Drive Pool Query request with verbose option specified.

Requests the VolServ to return detailed drive information for the every drive in the `drvpoolsm1` drive pool.

```
vspoolqry drvpoolsm1 -v
```

Step 2. Output returned:

```
-----  
Drive Pool Query Report                May 25 15:03:52 19931  
-----  
Drive Pool: drvpoolsm1  
-----  
      2  
      2  
      2  
Drive ID: 4  
      Drive Type:           Magnetic  
      Associated Archive:   shelf2  
      Current State:       Offline  
      Assignment:          Free  
      Usage Count:         1  
      Mount State:         Unmounted  
      Mounted Media ID:  
      2  
      2  
      2
```

```

Drive ID: 7
  Drive Type:           Magnetic
  Associated Archive:   tower1
  Current State:       Online
  Assignment:          Allocated
  Usage Count:         1
  Mount State:         Mounted
  Mounted Media ID:    MED041
  2
  2
  2

Drive ID: 13
  Drive Type:           Magnetic
  Associated Archive:   shelf1
  Current State:       Diagnostic
  Assignment:          Free
  Usage Count:         0
  Mount State:         Unmounted
  Mounted Media ID:
  2
  2
  2

```

Step 1. Successful Drive Pool Query request with verbose option not specified.

Requests the VolServ to return a list of Drive IDs for every drive pool known to the VolServ system.

```
vspoolqry -a
```

Step 2. Output returned:

```

-----
Drive Pool Query Report           May 26 15:45:52 19931
-----

```

```
Drive Pool: drvpoolsm1
-----
      Drive ID(s):          2467
                          9111314
      •
      •
      2

Drive Pool: drvpooltwr
-----
      Drive ID(s):          711
      •
      •
      2

Drive Pool: drvpoolstg
-----
      Drive ID(s):          139
```

Step 1. Unsuccessful Drive Pool Query.

Requests the VolServ to return a list of drive identifiers for the NoPool drive pool.

```
vspoolqry NoPool -v
```

Step 2. Output returned:

```
Query of drive pool [NoPool] was
unsuccessful

Error VOL008: item not found
```

Notes

The vspoolqry command does not trigger unsolicited status messages from VolServ.

A pending `vspoolqry` is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The `vspoolqry` also is aborted by sending the SIGINT signal (control-`c`).

See Also

None

vsqrmount

Queries for drives that could be used in a subsequent mount of a specified media.

The `vsqrmount` output lists the drives in the order of preference, based (in order of relative importance) upon their availability, proximity to the media, and usage time.

Upon receipt of the `vsqrmount` request, VolServ determines which library contains the specified media:

- If the specified media is **not** in a library, a null list of drives is returned to the client.
- If the media is **in** a library, VolServ determines which drives in that library (and only that library) are suitable (based on the media's type) for mounting the media.

Parameters

`vsqrmount mediaid`

```
[ -Ih ]
[ -H hostname ]
[ -P priority ]
[ -R retries ]
[ -T timeout ]
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid</i>	Specifies the media for which a list of drives supporting the media's type is being requested. A valid media identifier may contain up to 16 alphanumeric characters, including spaces. Leading and trailing spaces are not permitted.

Parameter	Description
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsqmount` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.

- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Query Mount request.

Requests VolServ to return a list of drives that are candidates to be mounted with MED024.

```
vsqrymount MED024
```

Step 2. Output returned:

```
Media [MED024] can be mounted on the following drives:  
1Drive [14]  
2Drive [12]
```

Step 1. Unsuccessful Query Mount request, specified media already mounted.

Requests VolServ to return a list of drives that are candidates to be mounted with MED041 .

```
vsqrymount MED041
```

Step 2. Output returned:

```
Query Mount for media [MED041] was unsuccessful.  
Error VOL043: media mounted  
  
1Drive [11]  
2Drive [7]
```

Step 1. Unsuccessful Query Mount request.

Requests VolServ to return a list of drives that are candidates to be mounted with MED003.

```
vsqrymount MED003
```

Step 2. Output returned:

```
Query Mount for media [MED003] was  
unsuccessful.  
  
Error VOL008: item not found
```

Notes

The returned list of drives are known to be suitable for mounting the specified media, but those drives are not available if they are currently in use.

Drives that are not online are not considered suitable for mounting and are, therefore, not returned in response to the query.

If a `vsqrymount` is run against media:

- that is found to be currently mounted, the output to the client includes a message that the media is mounted, in addition to a list of suitable drives.
- that is currently allocated for mounting (but has not completed the mount move), the output includes a message that the media is assigned.

The ordering of the returned drive list is based on the media's current physical location. Drives that are not mounted are listed before drives that have media mounted on them. Consequently, for a mounted media, the drive where the media is currently mounted may not be the first drive on the returned list.

The `vsqrymount` command does not trigger unsolicited status messages from VolServ.

A pending `vsqrymount` request is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vsmount`

vsreclassify

Changes the MediaClass name of one or more media.

Upon receipt of this request, VolServ verifies that each specified media identifier references a media of the type supported by the target MediaClass group.

- If all media are of the appropriate media type, VolServ verifies that the target MediaClass group is not filled to capacity.
- If the target MediaClass group is filled to capacity, the `vsreclassify` fails and a failure return code is returned to the client.

If the target MediaClass group is not filled to capacity, only as many media as it takes to reach the capacity are reclassified. Any remaining media specified in the `vsreclassify` command request are not reclassified and have a failure indicator returned to the client.

Parameters

```
vsreclassify mediaid  
vsreclassify -c currentmediaclass  
vsreclassify -n newmediaclass  
[-Ihv]  
[ -H hostname ]  
[ -P priority ]  
[ -R retries ]  
[ -T timeout ]  
[ -V prognum ]
```

Parameters

Parameter	Description
<i>mediaid...</i>	Specifies a list of one through 64 media to be reclassified.
-c <i>currentmediaclass</i>	Specifies the MediaClass group with which the specified media are currently associated. <ul style="list-style-type: none">Valid MediaClass names may contain up to 16 alphanumeric characters, including spaces.Leading and trailing spaces are not permitted.
-n <i>newmediaclass</i>	Specifies the new MediaClass group with which the specified media are to be associated. <ul style="list-style-type: none">Valid MediaClass names may contain up to 16 alphanumeric characters, including spaces.Leading and trailing spaces are not permitted.
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsreclassify` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Reclassify request with verbose option specified.

Requests VolServ to reclassify media MED002 , MED023 , and MED044 from MediaClass group medclassstgsml to medclasssml and to return status on every specified media.

```
vsreclassify MED002 MED023 MED044 -c  
medclassstgsml -n medclasssml -v
```

Step 2. Output returned:

```
Reclassify of 3 of 3 media into class [medclasssml] was successful  
Media [MED003]          no error  
Media [MED023]          no error  
Media [MED044]          no error
```

Step 1. Successful Reclassify request with verbose option not specified.

Requests VolServ to reclassify media MED002 , MED023 , and MED044 from MediaClass group medclasssml to medclassstgsml and to return status on media only if processing for that media was unsuccessful.

```
vsreclassify MED002 MED023 MED044 -c  
medclasssml -n medclassstgsml
```

Step 2. Output returned:

```
Reclassify of 3 of 3 media into class  
[medclassstgsml] was successful
```

Step 1. Errors with verbose option specified.

Requests VolServ to reclassify media MED013 , MED017, MED020, MED032, MED041, and BadMedia from MediaClass group medclasssml to medclassssh2sml and to return status on every specified media.

```
vsreclassify MED013 MED017 MED020
MED032 MED041 BadMedia -c medclasssml
-n medclassssh2sml -v
```

Step 2. Output returned:

```
Reclassify of 2 of 6 media into class [medclassssh2sml] was
successful
Error VOL024:
Media [MED013] error in the list
Media [MED017] class does not support media type
Media [MED020] no error
Media [MED032] invalid current class
Media [MED041] no error
Media [MED041] archive not associated with
Media [BadMedia] mediaclass
item not found
```

Step 1. Errors with verbose option not specified.

Requests VolServ to reclassify media MED013 , MED017, MED020, MED032, MED041, and BadMedia from MediaClass group medclasssml to medclassssh2sml and to return status on media only if processing on that media was unsuccessful.

```
vsreclassify MED013 MED017 MED020
MED032 MED041 BadMedia -c medclasssml
-n medclassssh2sml
```

Step 2. Output returned:

```
Reclassify of 2 of 6 media into class [medclasssh2sml] was
successful
Error VOL024:                error in the list
    Media [MED013]           class does not support media type
    Media [MED020]           invalid current class
    Media [MED041]           archive not associated with
                             mediaclass
    Media [BadMedia]         item not found
```

Step 1. Unsuccessful Reclassify request.

Requests VolServ to reclassify the media MED042 from MediaClass group medclassmed to BadClass and to return status on media only if processing on that media was unsuccessful.

```
vsreclassify MED042 -c medclassmed -n
BadClass
```

Step 2. Output returned:

```
Reclassify of media into class
[BadClass] was unsuccessful
Error VOL147: invalid target class
```

Notes

The `reclassify` command cannot be cancelled.

Pending `vsmount` requests are not affected by the reclassification of media.

If the capacity of the target MediaClass group is exceeded by the reclassification, only as many media as necessary to reach capacity are reclassified; the reclassification of any remaining media fails.

The capacity of a library media class is a soft limit. If the capacity of a library media class is exceeded, the entire `vsreclassify` request is processed unless the capacity of the associated MediaClass group is reached. When the capacity of the library media class is reached, applicable High Mark processing is initiated.

An attempt to reclassify media into its current MediaClass group fails.

If reclassifying media places it in a MediaClass group that does not have the media's present location as a preferred location, the media is NOT moved just to place it into a preferred area. Later, if the media is mounted then dismounted, or ejected then entered, an attempt is made to place the media in a preferred location as defined by the target library media class.

If media to be reclassified is in a library, the target MediaClass group must be associated with that library.

Media that does not reside in a library can be reclassified.

The `vsreclassify` command triggers unsolicited status messages from VolServ.

See Also

- `vsmount`
- `vsmedclassqry`

vsrequestqry

Queries for information about a specified request.

The client must specify VolServ assigned request identifier of the request being queried.

Upon receipt of a `vsrequestqry` request, VolServ searches its request queue for the specified request identifier. If the specified request is not found, status is returned to the client that indicates a non-existent request. If the request is found, the attribute values of the request are returned to the client.

Parameters

`vsrequestqry requestid`

[`-Ih`]
 [`-H hostname`]
 [`-P priority`]
 [`-R retries`]
 [`-T timeout`]
 [`-V prognum`]

Parameters

Parameter	Description
<i>requestid</i>	Specifies the VolServ-assigned identifier of the request to be queried. A valid request identifier must be specified in the: <code>yyyyddmm</code> format.
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.

Parameter	Description
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsrequestqry` command is successfully processed.
- -1 - An error is detected by either the CLI software or the API software.

- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Request Query.

Requests VolServ to return status on request 93:144:02136 (or 314402136).

```
vsrequestqry 93:144:02136
```

Step 2. Output returned:

```
-----  
Request Query Report                May 24 12:43:18 19931  
-----  
Request ID:                          93:144:02136  
-----  
Request Type:                        Move  
Priority:                             15  
Time:                                May 24 12:41:54 1993  
Current State:                       Executing
```

Step 1. Unsuccessful Request Query.

Requests VolServ to return status on request 314402137 (or 93:144:02137).

```
vsrequestqry 314402137
```

Step 2. Output returned:

```
-----  
Request Query Report                May 24 12:54:43 19931  
-----  
Error:                               item not found
```

Notes

The client must know the request identifier to be queried.

After execution of a request completes, a relatively short period of time exists where the request shows a state of “complete.” Afterwards, all knowledge of the request is removed from the VolServ system and any subsequent queries for the command fail.

The `vsrequestqry` command returns information for only one request per execution.

The `vsrequestqry` command does not trigger unsolicited status messages from VolServ.

A pending `vsrequestqry` is cancelled with the VolServ cancel command. The VolServ cancel command is run from the command line by sending a SIGQUIT signal (control-`\`). The request also is aborted by sending the SIGINT signal (control-`c`).

See Also

None

vsunlock

Releases exclusive use of one or more drives.

The list of drives to be unlocked and the assigned lock identifier for those drives must be specified.

A client needing to release a subset of locked drives, locked via a single lock command, can run multiple unlock requests. Each unlock request can specify a subset of the drives held by the client. VolServ releases only those drives specified in the unlock request.

Parameters

`vsunlock driveid...`

`vsunlock -l lockid`

[`-I` *hv*]
 [`-H` *hostname*]
 [`-P` *priority*]
 [`-R` *retries*]
 [`-T` *timeout*]
 [`-v` *prognum*]

Parameters

Parameter	Description
<i>driveid...</i>	Specifies a list of one through 64 drives to be released (unlocked) from exclusive use.
-l <i>lockid</i>	Indicates the lock identifier assigned to the specified, locked drive.
-v	Indicates that verbose output is needed. Status is returned on every media specified in the <code>vscheckout</code> command. NOTE: If <code>-v</code> is not specified, status is returned on only those media that were not successfully checked out.

Parameter	Description
-l	Command options are first read from the command line. VolServ then reads any options contained in the <code>stdin</code> file.
-h	Requests help for the entered command. When the Help option is specified, no command line processing is performed. An exit code of 0 is returned to the client when the Help option is specified.
-H <i>hostname</i>	Host name of the VolServ server. The default host name is the host name of the computer where the CLI command is run.
-P <i>priority</i> Default value is 15.	The execution priority of the entered command. Assignable priority values are restricted to a range from 1 (highest) to 32 (lowest) inclusive.
-R <i>retries</i> Default value is 3.	Number of retries the CLI software attempts if a time-out is returned by the API software.
-T <i>timeout</i> Default value is 120 seconds.	Amount of time (in seconds) the API software waits for status from VolServ before returning a time-out to the CLI software. Total wait time for a command is (retries plus 1) multiplied by time-out value.
-V <i>prognum</i> Default value is 300016.	RPC program number for VolServ.

Return Codes

- 0 - The `vsunlock` command is successfully processed.

- -1 - An error is detected by either the CLI software or the API software.
- >0 - An error is detected by VolServ. The returned exit code corresponds to the error code given by VolServ.

Examples

Step 1. Successful Unlock request with verbose option specified.

Requests VolServ to unlock drives 4, 8, and 12, all of which have an assigned lock identifier of 1719790788, and to return status on every specified drive.

```
vsunlock -v 4 8 12 -1 1719790788
```

Step 2. Output returned:

```
Unlock [3] drives unlocked with lock id [1719790788]
      Drive [4] no error
      Drive [8] no error
      Drive [12] no error
```

Step 1. Successful Unlock request without verbose option specified.

Requests VolServ to unlock drive 4 and 3, with an assigned lock identifier of 1719790788, and to return status on a drive only if the Unlock request for that drive was unsuccessful.

```
vsunlock 4 8 -1 1719790788
```

```
Unlock [2] drives unlocked with lock
id [1719790788]
```

Step 1. Unsuccessful Unlock identifier with verbose option.

Requests VolServ to unlock drives 40, 41, 42, and 43, three of which have an assigned lock identifier of 1719790788, and to return status on every specified drive.

```
vsunlock -v 40 41 42 43 -l 1719790788
```

Step 2. Output returned:

```
Unlock [3] drives unlocked with lock id [1719790788]
Error VOL024: error in the list
                                Drive [40] invalid lock id
                                Drive [41]no error
                                Drive [42] no error
                                Drive [43] no error
```

Step 1. Unsuccessful Unlock identifier without verbose option.

Requests VolServ to unlock drives 40, 41, 42, and 43, three of which have an assigned lock identifier of 1719790788 and to return status on a drive only if the Unlock request for that drive was unsuccessful.

```
vsunlock 40 41 42 43 -l 1719790788
```

Step 2. Output returned:

```
Unlock [3] drives unlocked with lock id [1719790788]
Error VOL024: error in the list
                                Drive [40] invalid lock id
```

Notes

The client can release a subset of drives locked by a single `vsunlock` request.

VolServ fails a `vsunlock` for a drive if the lock identifier specified in the unlock request does not match the lock identifier assigned to the drive.

The `vsunlock` command does not trigger unsolicited status messages from VolServ.

A pending `vsunlock` is cancelled with the VolServ `cancel` command. The VolServ `cancel` command is run from the command line by sending a SIGQUIT signal (control-). The request also is aborted by sending the SIGINT signal (control-c).

See Also

- `vslock`

vswin

Starts the VolServ system administrator's console and brings up the system GUI display.

Parameters

`vswin -display host#`

Parameters

Parameter	Description
<code>-display host#</code>	Starts the VolServ GUI.

Return Codes

- 0 - Terminated normally.
- 1 - Error occurred during initialization.

Example

Step 1. Initialize the VolServ System console.

```
vswin
```

Step 2. Run the VolServ System Console in the background.

```
vswin &
```

Notes

The environmental variable `VS_DIR` must be set. The environmental variable `II_SYSTEM` must be set and in the path statement.

`vswin` can only be run from the VolServ host machine.

The display location of `vswin` must give `xhost` privileges to the VolServ host machine for `vswin` to properly work.

See Also

- `volserv (1)`

NOTES

NOTES

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