CA Vtape™ Virtual Tape System

Quick Reference Guide

Release 12.6.00, Second Edition

Referenced CA Products

This document references the following CA Technologies products:

- CA Vtape™ Virtual Tape System (CA Vtape)

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Chapter 1: Introduction

This document provides a quick reference for CA Vtape console and utility commands and their syntax.

Detailed discussions and examples of the commands can be found in the chapters "Console Commands," "SVTSUTIL Batch Commands," and "RECYCLE Utility" in the *Administration Guide*.

Syntax Conventions

The following syntax conventions are used throughout this document:

Single bar A | B

A single bar is used to separate multiple values for the same parameter.

Underlining A|B|C

Underlines are used to indicate the default value of a parameter.

Braces {A|B}

Braces represent a set of multiple parameter values, one of which must be selected.

Brackets [A] [B]

Brackets represent optional parameters that may be selected or ignored.

Italics *nn*

Italics text represents a variable, for example Group=*nn* where *nn* is a number.

Uppercase AAaaa

Uppercase characters indicate abbreviations or the minimum number of characters that must be entered to identify the parameter or value.

Lowercase AAaaa

Lowercase characters document the complete, valid command text.

Console Command Prefix SVT*n*

CA Vtape console commands are prefaced with SVTS or SVT*n* where *n* is the last digit of the CA Vtape subsystem ID (SVT1-8). SVTS defaults to SVT1. The subsystem ID is documented by the SVT*n*I0700I Cold Start message or the SVT1I0701I Warm Start message in the SVTS started task output.

Peer-To-Peer Option P2P

The optional Peer-To-Peer function is abbreviated P2P. For an overview of these commands see CA Vtape P2P Option Commands (see page 31).

USS Backstore USSB

The USS Backstore feature is abbreviated USSB. For an overview of these commands see USS Backstore Commands (see page 31).

Chapter 2: Console Commands

This chapter lists the console commands.

This section contains the following topics:

Start and Stop

S SVTS

- Start CA Vtape.

P SVTS

- Stop CA Vtape.

Display

SVT*n* HELP

- Display console command syntax on the console.

SVT*n* Display Active

- Display Virtual Device activity.

SVT*n* Display Backstore

- Display all Externalization and Recall tasks.

SVT*n* Display Cache

- Displays cache utilization within the storage class used to dynamically allocate space for Virtual Volume data sets.

SVT*n* Display CSA

- Display CA Vtape CSA utilization

SVT*n* Display FreeQ

- Displays the total number of Virtual Volumes residing on the Free Queue and up to the first 99 Virtual Volumes in the queue. The Free Queue is a list of Virtual Volumes that reside in cache, but have been Externalized, so they can be released and their cache space reused for another mount request.

SVT*n* Display Groups [,{Detail|All}]

- Displays cache subtotals, Externalization Automation settings and status, and queue status for Externalization Subgroup Queues containing data to be Externalized.
- Detail displays the same information, but breaks the Externalization Subgroup Queues down by location in the Local VCAT and the Global VCAT.
- All displays the same information for all Externalization Subgroup Queues, regardless of whether they contain data to be Externalized.

SVT*n* Display Logger

- Display logger and logstream status.

SVT*n* Display Parmlib [,{Short|Medium|Long}] [,{Hardcopy|Console}]

- Displays parmlib runtime or in use values.
- Short displays Parmlib Directory, Startup and Dynamic Options, Volume Pool Definitions, P2P Options and Remotes, and USS Mount Points.
- Medium same as Short plus Virtual Device List, Startup and Shutdown Commands, and Group Definitions.
- Long same as Medium plus Data Set Filters.
- Hardcopy directs response to MVS SYSLOG and SVT*n* JOBLOG.
- Console same as Hardcopy plus MVS Operator Console.

SVT*n* Display PIN

- Displays Virtual Volume Entry buffer area information.

SVT*n* Display POOLS

- Displays the run-time or in use Volume Pool values.

SVT*n* Display P2P

- **P2P:** Displays active P2P tasks.

SVT*n* Display REMOTES

- **P2P:** Displays P2P remote system connections and activity statistics.

SVT*n* Display Status

- Displays internal configuration and licensing information, CA Vtape Complex Subsystems, and non-parmlib parameter settings.

SVT*n* Display Unit [=*nnnn*|,Active]

- *nnnn* = address of the Virtual Device to display.
- Displays virtual control unit, device, and status information.
- Active displays information for active Virtual Devices only.

SVT*n* DISPLAY USS ,DIR|MNT|ALL

- **USSB**: Displays USS directory and mount point information.

Backstore or Externalization

Note: SET BACKstore= or SET BACKstore, can be used.

SVT*n* CHECK BACKstore

- Check Externalization Subgroup Queues for work.
- CA Vtape executes this command every minute internally or whenever a Virtual Volume is queued for Externalization.

SVT*n* Display Backstore

- Display all Externalization and Recall tasks.

SVT*n* Restart Backstore [,Cancel]

- Stop all Externalization and Recall tasks, release all physical devices, and restart the Backstore Engine address space.
- Use Cancel to force a shutdown and restart when the Backstore Engine is not responding.

SVT*n* SET BACKstore=Auto,Group= {*nn*|*}[,SubGroup={S|M| L|*}]

- Temporarily turn on automation for all Externalization Subgroup Queues, a specific group's Externalization Subgroup Queues, or a single Externalization Subgroup Queue.
- Asterisk (*) for all groups and all subgroups.

SVT*n* SET BACKstore=DEQueue, VOLser=*volser*

- Remove the specified Virtual Volume from the Externalization Subgroup Queues.

SVT*n* SET BACKstore=EXCLVOL,Group=
{*nn*|*} [,SubGroup={S|M|L|*}] [,Type={D|P|B|*}]

- Do not remount physical volumes of the type specified for the group and subgroup specified. Use a scratch tape for Externalization instead.
- Type values: B for both Duplex and Primary, asterisk (*) for all.

SVT*n* SET BACKstore=EXCLVOL, VOLser=*volser*

- Do not remount this physical volume. Use a scratch tape for Externalization instead.

SVT*n* SET BACKstore=Hold
[,Group= {*nn*|*},SubGroup={S|M|L|*}]

SVT*n* SET BACKstore=Release
[,Group= {*nn*|*},SubGroup={S|M|L|*}]

- Hold or release manual subgroups; automated subgroups are not processed.
- Group parameter not allowed when CacheWarningThreshold=0; Group parameter required when CacheWarningThreshold > 0.

SVT*n* SET BACKstore=-Hold,Group=
{*nn*|*} [,SubGroup={S|M|L|*}]

SVT*n* SET BACKstore=-Release,Group=
{*nn*|*} [,SubGroup={S|M|L|*}]

- Minus (-) sign temporarily turns off automation for any of the selected groups and subgroups and then holds or releases the selected manual groups and subgroups.
- Use the SVTn SET BACKstore=reseT command to reset automation back to the parmlib settings.

SVT*n* SET BACKstore=reseT,Group= {*nn*|*} [,SubGroup={S|M|L|*}]

- Reset subgroup automation to the settings specified in parmlib.

SVT*n* START Group=*nn*,SubGroup= {S|M|L}

- Start an Externalization task for one or more Externalization Subgroup Queues.
- Queue status must be Release a task to remain active.

SVT*n* STOP Group=*nn*,SubGroup= {S|M|L}

- Stop Externalization tasks for one or more Externalization Subgroup Queues.
- Queue must be Hold or the task may restart.

Virtual Volumes

SVT*n* ADD VVP=*xyyy*00-*xzzz*99

SVT*n* DELETE VVP=*xyyy*00-*xzzz*99

- Add or delete Virtual Volumes from the active CA Vtape subsystem in multiples of 100, from 100 up to 100,000.
- VVP=889000-889099 adds 100 Virtual VOLSERs from 889000 through 889099.
- VVP=VT9000-VT9999 adds 1,000 Virtual VOLSERs from VT9000 through VT9999.
- VVP=100000-199999 adds 100,000 Virtual VOLSERs from 100000 through 199999.
- If alpha characters are used, all digits to the left of and including the rightmost alpha character in the beginning VOLSER must be duplicated in the ending VOLSER.
- For deletion, all Virtual VOLSERs in the range specified must be in scratch status in the Global VCAT.
- Disabled when VOLSER ranges are defined in the VTPOOLS member of parmlib.

SVT*n* SET WRITPROT {ON|OFF}, {VVP=*cccc*00|VVE=*volser*}

- Turns on or off write protection for a set of 100 Virtual Volumes (cccc00-cccc99) or a single VOLSER.

SVT*n* SHUTDOWN

- Stops CA Vtape.
- During the shutdown, the Virtual Devices are automatically varied offline.

SVT*n* START RECALL=*volser*

- *volser* is the Virtual Volume VOLSER.
- Recall a Virtual Volume into cache.
- Recalled even if the Virtual Volume is already in cache.

SVT*n* STOP RECALL=*volser*

- *volser* is the Virtual Volume VOLSER.
- Cancel a Recall request for a Virtual Volume.

Virtual Device

SVT*n* MIHclear=*nnnn* [,DUMP]

- *nnnn* = address of the Virtual Device.
- Turn off device busy bit so IBM MIH can recover the device.
- Clears one pending I/O at a time; must be issued until SVT*n*R3424E *nnnn*,Device Not Busy message is displayed.
- DUMP provides same information as SVT*n* DUMP command.
- If device does not respond, see SVT*n* RESTART UNIT command.

SVT*n* MOUNT=*nnnn*

- *nnnn* = address of the Virtual Device.
- Redrive the mount request for a Virtual Device.
- Recall will be reinitialized if needed.

Physical Device or Tape

SVT*n* SET HSOPEN={ON|OFF}

- Turn on or off the High Speed Open option

  Important! Deactivation can result in significant delays in positioning a physical tape to write more Virtual Volumes or to read a Virtual Volume.

SVT*n* SET IDRC={ON|OFF|DEFAULT}

- ON is TRTCH=COMP, OFF is TRTCH=NOCOMP when mounting physical tapes.
- DEFAULT is the system default, specified in the IBM IPL parmlib member DEVSUP*xx*.

SVT*n* SET MAXDRIVES=*nn*

- Maximum number of physical devices that can be used for Externalization or for Externalization and Recalls.

  Note: See also parameter FullMaxDrivesEnforcement= in the Dynamic Options section of the chapter “Configuring the Parameter Library (Parmlib)” in the *Configuration Guide*.

SVT*n* SET MAXUSS=*nn*

- **USSB:** Changes the maximum number of USS devices that that Backstore Engine can use to allocate Triplex files. You must issue the command on each LPAR where the limit needs to be changed. Specify a value between 00 and 99.

SVT*n* SET RECALL={Primary|Duplex|Triplex}

- Switch order of Recalls on the subsystem where the command is issued.

SVT*n* SET RECALL VVE=*volser*,{PRImary|DUPlex|TRIplex|P2P|Reset}

- Switch order of Recalls for the Virtual Volume specified on the subsystem where the command is issued.
- Use Reset to restore the normal, subsystem defined, Recall behavior.

SVT*n* STOP PTaskid=*nn*

- nn displayed by SVTn Display Backstore command.
- Stop an Externalization or Recall task.

SVT*n* SET USS=UNMOUNT

- **USSB:** Unmounts or unloads all USS Mount Points.

Parmlib

SVT*n* Display Parmlib [,{Short|Medium|Long}] [,{Hardcopy|Console}]

- Displays parmlib runtime or in use values.
- Short displays Parmlib Directory, Startup and Dynamic Options, Volume Pool Definitions, P2P Options and Remotes, and USS Mount Points.
- Medium same as Short plus Virtual Device List, Startup and Shutdown Commands, and Group Definitions.
- Long same as Medium plus Data Set Filters.
- Hardcopy directs response to MVS SYSLOG and SVT*n* JOBLOG.
- Console same as Hardcopy plus MVS Operator Console.

SVT*n* REFRESH=OPTION

- Reload the Dynamic Options Section from parmlib, only for the referenced subsystem.

SVT*n* REFRESH=POOLS [,Delete]

- Reload the Volume Pool Definitions Section from parmlib.
- Delete indicates you want to remove Virtual Volumes which are not defined in the Volume Pool Definitions.
- Only one subsystem in a CA Vtape Complex needs to do this refresh to refresh the definitions for all subsystems in the Complex.

SVT*n* REFRESH=REMOTES

- **P2P:** Reload the Peer To Peer Remotes Section from parmlib, only for the referenced subsystem.

SVT*n* REFRESH=USS

- **USSB:** Causes the SVTS address space to reload the <UnixSystemServices> section of parmlib.

SVT*n* REFRESH=GROUP [,Extend]

- Reload the Group Definitions Section from parmlib, only for the referenced subsystem.
- Extend includes a reload of the Dataset Filters Section from parmlib.

SVT*n* REFRESH=FiLTers [,Extend]

- Reload the Dataset Filters Section from parmlib, only for the referenced subsystem.
- Extend includes a reload of the Dataset Filters Section from parmlib.

Diagnostic and Corrective Action

SVT*n* DUMP [,Que]

- Triggers an SVC dump of all CA Vtape address spaces and dataspaces for the referenced subsystem.
- Use this command before taking corrective actions in a problem situation to document the problem.
- Que initiates the dump from the SVTS address space of the subsystem referenced by the command, but may not work if the CA Vtape command processor or scheduler is hung.

SVT*n* FreeQ Reset

- Reinitialize the Free Queue which monitors cache reusable space.

SVT*n* MIHclear=*nnnn* [,DUMP]

- *nnnn* = address of the Virtual Device.
- Turn off device busy bit so IBM MIH can recover the device.
- Clears one pending I/O at a time; must be issued until SVT*n*R3424E *nnnn*,Device Not Busy message is displayed.
- DUMP provides same information as SVT*n* DUMP command.
- If device does not respond, see RESTART UNIT command.

SVT*n* MOUNT=*nnnn*

- *nnnn* = address of the Virtual Device.
- Redrive the mount request for a Virtual Device.
- Recall will be reinitialized if needed.

SVT*n* Queue {Reset|Init}

- Reset corrects invalid pointers in the existing Externalization Subgroup Queues.
- Init deletes the Externalization Subgroup Queues and the GRRJCL utility must be run to rebuild them.

SVT*n* Restart Backstore [,Cancel]

- Stop all Externalization and Recall tasks, release all physical devices, and restart the Backstore Engine address space.
- Use Cancel to force a shutdown and restart when the Backstore Engine is not responding.

SVT*n* Restart CU=*n*

- *n* = SVTSAS.SVT1V*n*
- Restart the designated Virtual Control Unit address space.
- Affected Virtual Devices are not varied offline and online.
- Used to reset error conditions affecting multiple Virtual Devices or when restarting a Virtual Device does not clear an error.

SVT*n* Restart CMDmgr

- Stop and restart the internal command manager.
- Use when errors for the SVTSDIV load module are being issued or when CA Vtape console commands fail to execute.

SVT*n* Restart Timermgr

- Reset and restart all timer related events and housekeeping tasks.

SVT*n* Restart Unit=*nnnn*

- *nnnn* = address of the Virtual Device.
- Restart the designated Virtual Device to clear an error condition.
- Affected Virtual Device is not varied offline and online.
- Will not clear a mount pending condition (use SVT*n* MOUNT command to redrive the mount request).

SVT*n* SET THRESHOLD FREEspace=*nnn* | HOLD=*nnn* | RELease=*nnn* | WARNing=*xxx*

- This command temporarily overrides one of the following Cache*Threshold parmlib attributes:
  - CacheFreespaceThreshold
  - CacheAutoHoldLowThreshold
  - CacheAutoReleaseHighThreshold
  - CacheWarningThreshold

SVT*n* Xrecall Reset

- Resets and initializes the common Recall Server area of the Global VCAT.
- Virtual mounts waiting for a Recall will repost the request.

Performance

SVT*n* SET HSOPEN={ON|OFF}

- Turn on or off the High Speed Open option.

  Important! Deactivation can result in significant delays in positioning a physical tape to write more Virtual Volumes or to read a Virtual Volume.

SVT*n* SET CONSOLE=(LOCAL | *ConsoleSuffix*)

- **P2P:** Allows you to route the console output produced by a CA Vtape Subsystem to the console of a system associated with a remote P2P CA Vtape Subsystem.
- Console suffixes are define in the Peer To Peer Remotes Section of parmlib.
- LOCAL turns off routing.

SVT*n* SET CPU={STANDARD| ISOLATION}

Note: For more information, see the SVTS SET CPU= command in the chapter "Console Commands" of the *Administration Guide*.

Chapter 3: SVTSUTIL Batch Commands

This chapter lists the SVTSUTIL batch commands.

This section contains the following topics:

Model JCL

```
//UTIL     EXEC PGM=SVTSUTIL,PARM='SVTS=SVTn' n=1-8
//STEPLIB  DD DISP=SHR,DSN=CA.VTAPE.CCUULOAD
//*BSDS1   DD DISP=SHR,DSN=SVTS.BSDS1
//*GLOBAL  DD DISP=SHR,DSN=SVTS.GLOBAL.VCAT
//*VCAT    DD DISP=SHR,
//*        DSN=SVTS.&SYSID.LOCAL.VCAT
//SYSPRINT DD SYSOUT=*,
//         DCB=(LRECL=80,RECFM=F,BUFNO=1)
//SYSIN    DD *
```

Initialization

INITIALIZE=BSDS1

- Initialize Bootstrap Data Set.

INITIALIZE=GLOBAL

- Initialize Global VCAT.

INITIALIZE=VCAT

- Initialize Local VCAT.

LDS_INITIALIZE=*ddname* [,NOVERIFY]

- Initialize a cache LDS unless it contains a Virtual Volume that has not been Externalized.
- NOVERIFY initializes a cache LDS without checking its contents.

LDS_ADD

- Add all static cache LDSs with LDS*nnnnn* DD names in the JCL.
- CA Vtape must be active for the add to work.

LDS_DELETE

- Remove static cache LDS entries from the Global VCAT and delete them from the DASD buffer, if they are defined.
- Create LDS Define and LDS Initialization utility control statements to recover the static cache LDSs that are being deleted.
- Provide reports and analysis of the static cache.

EXPAND CDS,VOLUMES=*nnnnnn*

- Increase the Size of the BSDS and Global VCAT by *nnnnnn* Virtual Volumes.
- See EXPAND member in CA Vtape CCUUJCL library.

Backup or Recovery

```
RECOVER=BACKSTORE,
        [CPU|LPAR]=[NNNN|NN*|*],
        JOB=[NNNNNNNN|NNNN*|*],
        FROM=[*|([YYYY/DDD,HH:MM),
            TO=[*|([YYYY/DDD,HH:MM),
                PVOLSER=[VOLSER|VOL*|*|(VOLSER1,…)],
        VVOLSER=[VOLSER|VOL*|*|(VOLSER1,…)],
        ORDER_BY_VOLTYPE=[PHYSICAL|VIRTUAL]
```

- Recover accidentally scratched Virtual Volumes that were backstored by processing SMF Type 65 Records and creating IDCAMS Control Statements to re-catalog them.
- CPU= or LPAR= to filter by the system name or SMF ID.
- JOB= to filter by JOB name.
- FROM= to filter by starting date.
- TO= to filter by ending date.
- PVOLSER= to filter tape VOLSER (the PVOLSER and VVOLSER attributes are mutually exclusive).
- VVOLSER= to filter by Virtual VOLSER (the PVOLSER and VVOLSER attributes are mutually exclusive).
- ORDER_BY_VOLTYPE= to change the report from date time order to Virtual VOLSER or physical VOLSER order.
- See RCVBKSTR member in CA Vtape CCUUJCL library.

RECOVER=GLOBAL,PREFIX=*prefix*
[,SCRATCH] [,NOINIT] [,DROP_INELIGIBLE]

- Restore a damaged Global VCAT from its BSDS.
- *prefix* is the DSN prefix defined during customization and used to define the cache LDSs.
- SCRATCH to automatically scratch Virtual Volumes that have not been Externalized.
- NOINIT to save time by not reinitializing an already initialized Global VCAT.
- DROP_INELIGIBLE to delete static cache LDSs which cannot be found or opened during the recovery.
- After recovery, for static cache LDSs only, run the LDSADDxx and RECLAIM jobs to add the cache LDSs back and recover any ineligible LDSs.
- See RECGLVC member in CA Vtape CCUUJCL library.

EXTRACT [,VOLSER={INPUT|*volser*}]

- Extract a Virtual Volume from a Backstore physical tape to another tape.
- INPUT to relabel the output tape to match the extracted Virtual VOLSER.
- *volser* to relabel the output tape to the coded VOLSER.
- See EXTRACT or TLMSECTJ member in CA Vtape CCUUJCL library.

Reports

LIST=BACKSTORE

- Report of Virtual Volumes Externalized to physical tape.

Report=Backstore

- Report of Virtual Volumes Externalized to physical tape.

LIST=CACHE

- Report on status of cache LDSs and Virtual Volumes in cache.

LIST=MODULE

- List every CA Vtape load module, its PTF level, and storage location if loaded in memory.

Virtual Volume Entry (VVE) Manipulation

VVE_FREE=*volser*

- Reset system ownership field of a Virtual Volume.
- Used to clear an internal reserve on which subsystem is using the Virtual Volume.

VVE_FREECELLS

- Add all Virtual Volumes in scratch status to the Scratch Pool.

VVE_SCRATCH=*volser*[,FORCE]

- Scratch a Virtual Volume in the Global VCAT.
- Does not update tape management system (TMS).
- Used in problem situations to synchronize individual Virtual Volumes in the Global VCAT with the tape management system.
- If running with the optional keyword FORCE then internal Peer-To-Peer edits are bypassed.
- **P2P:** Running VVE_SCRATCH=*nnnnnn*,FORCE on Pool8 will not queue the volume for scratch processing on the originating local and will scratch the volume.

VVE_WRITE=*volser*

- Used in problem situations to queue a Virtual Volume for Externalization.

MASSRECALL [VOLCNT=*nn*]

- Issues SVT*n* START RECALL=*volser* console commands from a COMMANDS DD coded in the SVTSUTIL JCL.
- VOLCNT indicates the number of concurrent recall tasks to start.

Miscellaneous

ANALYZE=COMPRESSION

- Report the number of megabytes per CPU second that can be compressed.

GENERATE=VOLUMEPOOLS

- Used to create or generate a VTPOOLS parmlib member for a subsystem's Global VCAT.

LDS_INELIGIBLE=*lds.cluster.name*

- Prevents a cache LDS from being used.
- Used to mark deleted cache LDSs as ineligible to prevent console messages.

RECLAIM [,NOCHECK_INELIGIBLE]

- Used to correct internal pointers, cache totals, and recover lost cache LDSs.
- NOCHECK_INELIGIBLE turns off ineligible cache LDS recover, which saves time; use after deleting and marking ineligible many cache LDSs and before recovering the Global VCAT to delete the corresponding LDS control entries.

RESET_CACHETYPE={DYNAMIC | STATIC}

- Used to convert the Virtual Volume Entries (VVEs) in the Global VCAT from Static to Dynamic Cache Management or vice versa.
- Only Virtual Volumes that have been externalized can be converted.
- Should only be used as part of the cache management conversion procedures documented in the chapter “Conversion Procedures” in the *Administration Guide.*

SCRATCH [,REDOP2P]

- Returns eligible Virtual Volumes to scratch status.
- **P2P:** REDOP2P causes all P2P Virtual Volumes in scratch status to be sent to their respective Remotes.

Chapter 4: RECYCLE

This chapter lists the RECYCLE commands.

This section contains the following topics:

Stop Recycle Jobs

F jobname,END

Or

P Jobname

SET COMMAND

SET MODE(SIMulate|LIVE|SYNTAX), LINECOUNT(*nn*), CART3480(*nnnnnnn*), CART3490(*nnnnnnn*), CART3590(*nnnnnnn*), DEBUG, UNITRETENTION, MOUNTTIMEOUT(*nnn*), [TAPECONSOLIDATIONRATIO(*n*)| TCR(*n*)]

MODE(SIMulate|LIVE|SYNTAX)

- (Optional) LIVE is the default.
- SIMULATE|SIM - Only produce reports.
- LIVE - Run the recycle.
- SYNTAX - Command syntax check.

LINECOUNT(*nn*)

- (Optional) Default is 60.
- Number of lines per page.

CART3480(*nnnnnnnn*)

- (Optional) Default is 400.
- Average compressed megabyte size of 3480 tape.

CART3490(*nnnnnnnn*)

- (Optional) Default is 800.
- Average compressed megabyte size of 3490 tape.

CART3590(*nnnnnnnnnn*)

- (Optional) Default is 10000.
- Average compressed megabyte size of a 3590 tape or 3592 tape.

DEBUG

- (Optional) The DEBUG parameter activates logging and sort informational message printing to the SYSTSPRT DD. If the CA Vtape logger is not active, no logging will be done.

UNITRETENTION

- (Optional) The UNITRETENTION parameter indicates that the same input tape unit should be used for all the RECYCLE commands in the job step.

MOUNTTIMEOUT(*nnn*)

- (Optional) Defines how long in minutes to wait for an input tape mount before issuing messages.
- 0 turns off messaging.
- The value set should be high enough to allow for the average time to mount a tape, robotic or manual, plus a reasonable amount of delay time to find an errant tape.

[TAPECONSOLIDATIONRATIO(*n*)| TCR(*n*)]

- (Optional) Default value: 0.
- How many input tapes must be emptied per output tape created to justify executing the Recycle.

REPORT COMMAND

REPORT CANDIDATE(ALL|DETAIL| SUMMARY|NONE),
SELECTED(ALL|DETAIL| SUMMARY|NONE),
PROCESSED(ALL|DETAIL| SUMMARY|NONE)

- ALL displays detail and summary reports and is the default for all three commands.
- DETAIL produces reports on individual Virtual Volumes.
- SUMMARY produces summary reports only.
- None turns off reporting

CANDIDATE(ALL|DETAIL|SUMMARY| NONE)

- (Optional) Reports on Virtual Volumes considered for selection.

SELECTED(ALL|DETAIL|SUMMARY| NONE)

- (Optional) Reports on Virtual Volumes which have been selected.

PROCESSED(ALL|DETAIL|SUMMARY| NONE)

- (Optional) Reports on Virtual Volumes which have been processed.

RECYCLE by GROUP

RECYCLE GROUP(*nn*), SUBGROUP(*|S|M|L), SOURCE(PRIMARY|DUPLEX),
TARGET(*|PRIMARY|DUPLEX| BOTH), PERCENT(nnnnnn), MAXVOLS(nnnnnn),
DEVTYPE(*|3480|3490|3590), PRIORITY(LMS|LSM|MLS|MSL| SML|SLM)

GROUP(*nn*)

- Group number to process.

SUBGROUP(*|S|M|L)

- (Optional) L is default.
- Specify subgroup to recycle.
- Asterisk (*) for all, S for Short, M for Medium and L for Long.

SOURCE(PRIMARY|DUPLEX)

- (Optional) PRIMARY is default.
- Indicates the input physical tape type to be used.

TARGET(*|PRIMARY|DUPLEX|BOTH)

- (Optional) * is default.
- Indicates the type of output physical tapes to be generated.
- Asterisk (*) for the same type as SOURCE.
- BOTH for PRIMARY and DUPLEX (DUPLEX created only if the group being recycled has the DUPLEX attribute defined).

PERCENT(*nnnnnn*)

- (Optional) 999999 is default.
- Select physical tapes with less than this percent of active data.

MAXVOLS(*nnnnnn*)

- (Optional) 999999 is default.
- Maximum number of input tapes to be processed.
- Multiple volume physical tapes counted as one.

DEVTYPE(*|3480|3490|3590)

- (Optional) 3480 is default.
- Specify the physical tape device types to be processed.
- Asterisk (*) for all device types.

PRIORITY(LMS|LSM|MLS|MSL|SLM| SML)

- (Optional) LMS is default.
- Specify the processing order for the subgroups.

TAPECONSOLIDATIONRATIO(0-9)

- (Optional) Default value defined by Set TCR(*n*) Control Statement.
- How many input tapes must be emptied per output tape created to justify executing the Recycle.

RECYCLE by VOLSER

RECYCLE PHYSICAL(*volser*),
SOURCE(PRIMARY|DUPLEX| REPAIR), TARGET(*|PRIMARY| DUPLEX| BOTH)

PHYSICAL(*volser*)

- Physical tape VOLSER to be processed.

SOURCE(PRIMARY|DUPLEX|REPAIR)

- Optional, PRIMARY is default.
- Indicates the input physical tape type to be used.
- REPAIR will mount the DUPLEX version if a PRIMARY VOLSER is coded, the PRIMARY version if a DUPLEX VOLSER is coded or the PRIMARY if a PRIMARY VOLSER is coded and a DUPLEX version does not exist.

TARGET(*|PRIMARY|DUPLEX|BOTH)

- (Optional) * is default.
- Indicates the type of output physical tapes to be generated.
- Asterisk (*) for the same type as SOURCE.
- BOTH for PRIMARY and DUPLEX (DUPLEX created only if the group being recycled has the DUPLEX attribute defined).

Chapter 5: Valid Commands for CA Vtape Options

This section contains the following topics:

CA Vtape P2P Option Commands

The CA Vtape P2P Option is an optional component which requires a separately licensed LMP key. The CA Vtape P2P Option uses TCP/IP to provide real time remote duplexing of Virtual Volumes.

The following commands are valid only when the CA Vtape P2P Option is activated:

SVT*n* DISPLAY|D P2P

- Displays status information for the P2P Listener.

SVT*n* DISPLAY|D REMOTES|R

- Displays remote system connectivity, transmits, receives and file transfer activities.

SVT*n* REFRESH=REMOTES

- Causes the SVTS address space to reload the <PeerToPeerRemotes> section of parmlib.

SVT*n* SET CONSOLE=LOCAL|*xxxx*

- Allows you to echo unsolicited console output produced by a CA Vtape Subsystem on the console of a system associated with a remote P2P CA Vtape Subsystem. The remote CA Vtape Subsystem must be defined in the parmlib in a Peer To Peer Remotes Section. The console suffix value used by this command will be defined in the appropriate Peer To Peer Remotes Section.

USS Backstore Commands

USS Backstore utilizes z/OS UNIX System Services (USS) for reading and writing Virtual Volumes during Recall and Externalization. The following commands are valid only when USS Backstore is activated:

SVT*n* DISPLAY|D USS ,DIR|MNT|ALL

- Displays USS directory and mount point information.

SVT*n* RECALL=[PRIMARY,DUPLEX,TRIPLEX]

- Changes the Recall Source for all Recalls.

SVT*n* REFRESH=USS

- Causes the SVTS address space to reload the <UnixSystemServices> section of parmlib.

SVT*n* SET USS=UNMOUNT

- Unmounts or unloads all USS Mount Points.

SVT*n* SET MAXUSS=*nn*

- Changes the maximum number of USS devices that that Backstore Engine can use to allocate Triplex files. You must issue the command on each LPAR where the limit needs to be changed. Specify a value between 00 and 99.