

Virtual Tape Control System

XML Reference

Version 6.1

MVS

Revision C

docs.sun update only

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About this Book

Virtual Tape Control System 6.1.0 (VTCS 6.1.0, hereafter referred to as “VTCS”) is MVS host software, which together the portions of NCS 6.1.0 that support VTCS and the Virtual Tape Storage Subsystem (VTSS), comprise Virtual Storage Manager (VSM).

Audience

This reference is for qualified StorageTek internal customers and third-party vendors who are responsible writing applications to the VTCS Programmatic Interface (PGMI). It is also for customers who elect to produce XML format output directly from the VTCS commands and utilities.

This reference describes the XML format output of the following:

- The VTCS PGMI responses.
- The VTCS command/utility responses.

Prerequisites

To perform the tasks described in this reference, you should already understand the following:

To perform the tasks described in this reference, you should already understand the following:

- MVS or OS/390 operating system
- JES2 or JES3
- System Management Facility (SMF)
- System Modification Program Extended (SMP)
- Nearline Control Solution (NCS)
- VTCS and VSM

For more information, see “Related Publications” on page vii.

About the Software

This reference applies to VTCS 6.1.0 and NCS 6.1.0 and above. VTCS executes in the native MVS environment.

How this Reference is Organized

This reference contains “VTCS Commands and Utilities XML Tags”.

Related Publications

The following publications provide additional information about VSM and StorageTek's Automated Cartridge System software and hardware.

VTCS and VSM for MSP

The VTCS and VSM documentation set consists of the following:

- *Introduction to VSM*, which you can request from your StorageTek representative
- *Virtual Tape Control System Installation and Configuration Guide*
- *Virtual Tape Control System Administrator's Guide*
- *Virtual Tape Control System Command and Utility Reference*
- *Virtual Tape Control System Messages*
- *Virtual Tape Control System XML Reference*

VTSS

- *Virtual Storage Manager Planning, Implementation, and Usage Guide*
- *Virtual Storage Manager Physical Planning Guide*
- *VTSS Installation Guide*

NCS

NCS Installation Guide

**HSC-MVS
Environment**

- *Configuration Guide*
- *Operator's Guide*
- *System Programmer's Guide*
- *Messages and Codes*
- *System Programmer's Reference Summary*
- *Operator's Reference Summary*

ExPR

- *Introduction to ExPR*
- *ExPR SMP Installation*
- *ExPR MSP Configuration*
- *ExPR MSP Reports*
- *ExPR MSP Reference*

ExLM

The ExLM documentation set consists of the following:

- The ExLM Information CD-ROM, which contains PDF file formats of the ExLM publications
- *ExLM Installation Guide*
- *ExLM System Administrator's Guide*
- *ExLM Messages and Codes*
- *ExLM Quick Reference* (includes information formerly provided in the *ExLM 4.0.0 System Administrator's Guide - Field Tables Supplement*)

IBM Publications

- *IBM ESA/390 Common I/O-Device Commands and Self Description*
- *IBM 3490 Magnetic Tape Subsystem
Models A01, A02, A10, A20, B02, B04, B20, and B40
Introduction*
- *IBM 3490 Magnetic Tape Subsystem
Models A01, A02, A10, A20, B02, B04, B20, and B40
Hardware Reference
(Referred to in this book as the *IBM 3490 Hardware Reference*)*
- *IBM 3490 Command Reference*
- *IBM 3480 Magnetic Tape Subsystem Reference*
- *IBM 3480 Installation Guide and Reference*

Contents

About this Book	v
Audience	v
Prerequisites	v
About the Software	vi
How this Reference is Organized	vi
Related Publications	vii
VTCS and VSM for MSP	vii
VTSS	vii
NCS	viii
HSC-MVS Environment	viii
ExPR	viii
ExLM	viii
IBM Publications	viii
VTCS Commands and Utilities XML Tags	1
XML Data Tag Descriptions	3
XML Structure Tag Cross-Reference	10
AUDIT	15
CANCEL	19
CONFIG	20
CONSOLID	22
DECOM	28
DELETSCR	30
EXPORT	31
IMPORT	34
MIGRATE	37
MVCDRAIN	40
MVCMAINT	46
MVCPLRPT	48
MVCRPT	50
QUERY/DISPLAY ACTIVE	52
QUERY/DISPLAY CLINK	53
QUERY/DISPLAY CLUSTER	54
QUERY/DISPLAY CONFIG	56
QUERY/DISPLAY LOCKS	58
QUERY/DISPLAY MIGRATE	59
QUERY/DISPLAY MVC	60
QUERY/DISPLAY MVCPOOL	62
QUERY/DISPLAY QUEUE	63

QUERY/DISPLAY RTD	64
QUERY/DISPLAY REPLICATE	65
QUERY/DISPLAY SCRATCH	66
QUERY/DISPLAY TASKS	67
QUERY/DISPLAY VTD	68
QUERY/DISPLAY VTSS	69
QUERY/DISPLAY VTV	70
RECALL	72
RECLAIM	75
SET MIGOPT	82
TRACE	83
VARY CLINK	84
VARY RTD	85
VARY VTSS	86
VTVMaint	87
VTVRPT	89

List of Tables

Table 1. XML Data Tag Cross-Reference	3
Table 2. XML Structure Tag Cross-Reference	10
Table 3. AUDIT XML Tags	15
Table 4. CANCEL XML Tags	19
Table 5. CONFIG XML Tags	20
Table 6. CONSOLID XML Tags	22
Table 7. DECOM XML Tags	28
Table 8. DELETSCR Tags	30
Table 9. EXPORT XML Tags	31
Table 10. IMPORT XML Tags	34
Table 11. MIGRATE XML Tags	37
Table 12. MVCDRAIN XML Tags	40
Table 13. MVCMAINT XML Tags	46
Table 14. MVCPLRPT XML Tags	48
Table 15. MVCRPT XML Tags	50
Table 16. QUERY/DISPLAY ACTIVE XML Tags	52
Table 17. QUERY/DISPLAY CLINK XML Tags	53
Table 18. QUERY/DISPLAY CLUSTER XML Tags	54
Table 19. QUERY/DISPLAY CONFIG XML Tags	56
Table 20. QUERY/DISPLAY LOCKS XML Tags	58
Table 21. QUERY/DISPLAY MIGRATE XML Tags	59
Table 22. QUERY/DISPLAY MVC XML Tags	60
Table 23. QUERY/DISPLAY MVCPOOL XML Tags	62
Table 24. QUERY/DISPLAY QUEUE XML Tags	63
Table 25. QUERY/DISPLAY RTD XML Tags	64
Table 26. QUERY/DISPLAY REPLICATE XML Tags	65
Table 27. QUERY/DISPLAY SCRATCH XML Tags	66
Table 28. QUERY/DISPLAY TASKS XML Tags	67
Table 29. QUERY/DISPLAY VTD XML Tags	68
Table 30. QUERY/DISPLAY VTSS XML Tags	69
Table 31. QUERY/DISPLAY VTV XML Tags	70
Table 32. RECALL XML Tags	72
Table 33. RECLAIM XML Tags	75
Table 34. SET MIGOPT XML Tags	82
Table 35. TRACE XML Tags	83
Table 36. VARY CLINK XML Tags	84
Table 37. VARY RTD XML Tags	85
Table 38. VARY VTSS XML Tags	86
Table 39. VTVMAINT XML Tags	87
Table 40. VTVRPT XML Tags	89

VTCS Commands and Utilities XML Tags

This section describes the XML format output of the VTCS PGMI responses. “XML Data Tag Descriptions” on page 3 describes:

- The content of each XML data tag.
- The XML structure tags where each data tag occurs.

“XML Structure Tag Cross-Reference” on page 10 is an alphabetic list of the XML structure tags with a cross-reference to the structure or head tags where each structure tag occurs.

The following sections describe the XML head, structure, and data tags for each VTCS PGMI response:

- “AUDIT” on page 15
- “CANCEL” on page 19
- “CONFIG” on page 20
- “CONSOLID” on page 22
- “DECOM” on page 28
- “EXPORT” on page 31
- “IMPORT” on page 34
- “MIGRATE” on page 37
- “MVCDRAIN” on page 40
- “MVCMAINT” on page 46
- “MVCPLRPT” on page 48
- “MVCRPT” on page 50
- “QUERY/DISPLAY ACTIVE” on page 52
- “QUERY/DISPLAY CLINK” on page 53
- “QUERY/DISPLAY CLUSTER” on page 54
- “QUERY/DISPLAY CONFIG” on page 56
- “QUERY/DISPLAY LOCKS” on page 58
- “QUERY/DISPLAY MIGRATE” on page 59
- “QUERY/DISPLAY MVC” on page 60
- “QUERY/DISPLAY MVCPOOL” on page 62
- “QUERY/DISPLAY QUEUE” on page 63
- “QUERY/DISPLAY RTD” on page 64
- “QUERY/DISPLAY REPLICATE” on page 65
- “QUERY/DISPLAY SCRATCH” on page 66

- “QUERY/DISPLAY TASKS” on page 67
- “QUERY/DISPLAY VTD” on page 68
- “QUERY/DISPLAY VTSS” on page 69
- “QUERY/DISPLAY VTV” on page 70
- “RECALL” on page 72
- “RECLAIM” on page 75
- “SET MIGOPT” on page 82
- “TRACE” on page 83
- “VARY CLINK” on page 84
- “VARY RTD” on page 85
- “VARY VTSS” on page 86
- “VTVMaint” on page 87
- “VTVRPT” on page 89

XML Data Tag Descriptions

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
<accessible>	<vtss_data>	Yes/no. Indicates whether a VTSS is accessible from this host.
<acs>	<acs_mvc_counts>	ACS ID where the MVCs reside.
	<rtd_data>	ACS ID where the RTD is attached.
	<mvc_data>	ACS ID where the MVC resides.
	<vtss_data>	Default ACS ID.
<active_migrate_tasks>	<vtss_data>	Number of active migration tasks.
<audit>	<mvc_data>	Yes/no. Audit in progress or previous audit failed.
<auto_migrate_threshold>	<vtss_data>	Current threshold for automatic migration.
<block_id>	<mvc_instance>	Block ID of the VTV on the MVC.
<broken>	<mvc_data>	Yes/no. Indicates MVC error status.
<capacity_mb>	<vtss_data>	Capacity of VTSS in Mb.
CF_lock_number>	<CF_lock_data>	Coupling Facility lock number.
<CF_lock_type>	<CF_lock_data>	Coupling Facility lock type.
<CF_lock_owning_host>	<CF_lock_data>	Coupling Facility lock owner.
<channel_id>	<rtd_data>	The channel id of a single RTD/CLINK.
	<clink_data>	
<clink_id>	<clink_data>	Internal ID of a CLINK.
<compress_percent>	<vtv_data>	Percentage compression for the VTV.
<consolidate_date>	<mvc_data>	Date YYYYMMDD that the MVC was used for consolidation.
<consolidate_time>	<mvc_data>	Time HH:MM:SS that the MVC was used for consolidation.
<consolidated>	<vtv_data>	Yes/no. Indicates whether a VTV is currently consolidated.
	<mvc_data>	Indicates that this MVC is a consolidated MVC.
<cuaddr>	<vtd_range>	A DECOM or CONFIG control unit identifier for a VTD that matches its value in the IOCP.
<data_check>	<mvc_data>	Yes/no. Indicates whether an MVC has had a data check.
<date_created>	<vtv_data>	Date YYYYMMDD that the VTV was created.
<date_last_mounted>	<mvc_data>	Date YYYYMMDD that the MVC was last mounted.

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
<date_last_used>	<vtv_data>	Date YYYYMMDD that the VTV was last used.
<date>	<header>	Date YYYYMMDD that the XML was generated.
<dbu>	<vtss_data>	DBU % for a single VTSS.
<default_acs>	<vtss_data>	The configured default ACS ID for this VTSS.
<device_address>	<rtd_data>	The configured device address for an RTD.
	<vtd_data>	
<device_type>	<rtd_data>	The device type of the RTD.
<direction>	<cluster_data>	The relationship between two VTSSs in a cluster: to - This is the Secondary VTSS. from - This is the Primary VTSS. peer - The VTSSs are peers (replication can go in either direction).
<dismount_time>	<vtss_data>	The time an MVC is retained on a RTD.
<drain>	<mvc_data>	Yes/no. Indicates whether the MVC is being drained.
<copies_to_migrate>	<vtv_data>	1, 2, 3, or 4. Indicates number of migration copies of a VTV.
<eject>	<mvc_data>	Yes/no. Indicates whether the MVC is ejected.
<export>	<mvc_data>	Yes/no. Indicates whether the MVC is exported.
<fenced>	<vtv_data>	Yes/no. Indicates whether a VTV is currently fenced.
<free_size>	<media_mvc_counts>	Free space in GB.
<free_volumes>	<media_mvc_counts>	Number of free MVCs.
<full>	<mvc_data>	Yes/no. Indicates whether the MVC is considered full.
<function>	<vtcs_request>	VTCS function being performed.
<global_lock_structure>	<vtcs_data>	The name of an MVS Coupling Facility Structure where VTCS CDS Record Locks are stored.
<global_maxvtv>	<vtcs_data>	Maximum VTVs per MVC (4-32000).
<global_mvcfree>	<vtcs_data>	Free MVC threshold for reclaim (0-255).
<global_vtvattr>	<vtcs_data>	When a Management Class is assigned to a VTV -
		SCRATCH - after a scratch mount.
		ALLMOUNT - after any mount.
<global_recall_with_error>	<vtcs_data>	Whether VTCS recalls VTVs with read data checks.
		YES - recall VTVs with read data checks.

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
		NO - do not recall VTVs with read data checks.
<high>	<vtd_range>	The end of a volser range.
	<vtvol>	
	<mvcvol>	
<host_id>	<vtcs_data>	The host where the command was issued (QUERY CONFIG command only).
<host_name>	<header>	Host where XML was generated.
	<host_replicate_queues>	Host attached to the Primary VTSS.
	<lock_data>	Host owning the lock.
	<clink_data>	Host using a CLINK.
<initialised>	<vtv_data>	Yes/no. Indicates whether a VTV has been used.
	<mvc_data>	Yes/no. Indicates whether an MVC has been used.
<invalid_mir>	<mvc_data>	Yes/no. Indicates whether the MVC has an invalid MIR.
<lost>	<mvc_data>	Yes/no. Indicates whether the MVC is lost (mount could not complete).
<low>	<vtd_range>	The start of a range.
	<vtvol>	
	<mvcvol>	
<management_class>	<vtv_data>	The Management Class assigned to this VTV.
<maximum_migrate_tasks>	<vtss_data>	Maximum number of auto-migrate tasks for this VTSS.
<maxvtv>	<mvc_data>	Yes/no. Indicates whether the MVC has reached the limit of VTVs.
<media_size>	<mvc_data>	The size in Mb of the MVC.
<media>	<media_mvc_counts>	Media type.
	<mvc_data>	
<migrate_hamt>	<vtss_data>	High auto-migrate threshold.
<migrate_lamt>	<vtss_data>	Low auto-migrate threshold.
<migrated>	<vtv_data>	Yes/no. Indicates whether a VTV is currently resident on one or more MVCs.
<migrates>	<vtss_data>	Yes/no. Indicates whether this host supports migrate.
	<host_data>	
<minimum_migrate_tasks>	<vtss_data>	Minimum number of auto-migrate tasks for this VTSS.

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
<mode>	<cluster_data>	Operational state of a cluster.
<mounted>	<vtv_data>	Yes/no. Indicates whether a volser (VTV or MVC) is currently mounted.
<multiple_start>	<vtv_data>	Volser of first VTV in a group of VTVs associated with a single data set.
<multiple_next>	<vtv_data>	Volser of next VTV in a group of VTVs associated with a single data set.
<name>	<rtddata>	Identifier of RTD.
	<vtss_data>	Identifier of VTSS.
	<mvcpool_counts>	Identifier of MVCPOOL.
	<cluster_data>	Identifier of CLUSTER.
	<host_data>	Identifier of HOST.
	<mvcpool_data>	Identifier of MVCPOOL.
<new_create>	<vtv_data>	Yes/no. Indicates whether the VTV was newly created when it was last resident.
<noverify>	<vtd_range>	Yes/no. Indicates whether VTCS verifies the VTD addresses versus the MVS device addresses in the IOCP.
<number_rtds>	<vtss_data>	Number of RTDs configured for a VTSS.
<number_vtds>	<vtss_data>	Number of VTDs configured for a VTSS.
<number_vtvs>	<vtss_data>	Number of VTVs currently resident on a VTSS.
<owner_vtss>	<rtddata>	The VTSS currently using an RTD.
<parent_id>	<vtcs_request>	Task ID of the parent task to the task listed.
<percent_available>	<mvc_data>	The amount of space available for migrations on this MVC.
<percent_fragmented>	<mvc_data>	The amount of unusable space on this MVC due to fragmentation.
<percent_used>	<mvc_data>	The amount of space on this MVC occupied by VTVs.
<process_id>	<header>	The internal VTCS ID for a request.
	<vtcs_request>	
<read_only>	<mvc_data>	Yes/no. Indicates whether the MVC is readonly.
<reason>	<vtv_data>	Text message showing the reason for an exception condition.
	<mvc_data>	

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
	<vtcs_request>	
	<exceptions>	
<reclaim_maxmvc>	<vtcs_data>	MVC limit for a single reclaim.
<reclaim_size>	<media_mvc_counts>	Reclaim space in GB.
<reclaim_start>	<vtcs_data>	Reclaim start threshold.
<reclaim_threshold>	<vtcs_data>	Fragmented space threshold.
<reclaim_volumes>	<media_mvc_counts>	Number of volumes available for reclaim.
<reclaims>	<vtss_data>	Yes/no. Indicates whether this host supports reclaim.
	<host_data>	
<replicate_difference>	<host_replicate_queues>	
<replicate_frequency>	<host_replicate_queues>	
<replicate_oldest>	<host_replicate_queues>	
<replicate_qdepth>	<host_replicate_queues>	Number of VTVs waiting to be replicated.
<replicate_skip>	<host_replicate_queues>	
<replication>	<vtv_data>	“not replicated” indicates that a VTV has no replication requirements.
		“replicated” indicates that a VTV is fully replicated.
		“replication started” indicates that replication has started for this VTV.
		“replication required” indicates that replication is needed for this VTV.
<resident>	<vtv_data>	Yes/no. Indicates whether a VTV is currently resident on a VTSS buffer.
<retired>	<mvc_data>	Yes/no. Indicates whether the MVC is retired.
<scratch_count>	<scratch_data>	
<scratch>	<vtv_data>	Yes/no. Indicates whether a VTV is currently a scratch volume in the CDS.
<secondary_name>	<cluster_data>	Name of secondary VTSS
<secondary_state>	<cluster_data>	State of secondary VTSS.
<size_compressed>	<vtv_data>	The compressed size of a VTV in Mb.
<size_uncompressed>	<vtv_data>	The uncompressed size of a VTV in Mb.

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
<maximum_size>	<vtv_data>	The maximum size of a VTV in Mb (400 or 800).
<status>	<rttd_data>	Operational state of an RTD.
	<vtss_data>	Operational state of a VTSS.
	<vtd_data>	Operational state of a VTD.
	<clink_data>	Operational state of a CLINK.
<storage_class>	<mvc_data>	The Storage Class assigned to an MVC.
<subpool_name>	<scratch_data>	Scratch subpool name.
<task_number>	<lock_data>	The task number associated with the lock.
	<task_data>	The task number for each task on the current host.
<task_type>	<lock_data>	The task type associated with the lock.
	<task_data>	The task type of each task on the current host.
<time_created>	<vtv_data>	Time HH:MM:SS that a VTV was created.
<time_last_mounted>	<mvc_data>	Time HH:MM:SS that an MVC was last mounted.
<time_last_used>	<vtv_data>	Time HH:MM:SS that a VTV was last used.
<time>	<header>	Time HH:MM:SS that the XML was generated.
<times_mounted>	<mvc_data>	The mount count of an MVC.
<trace>	<trace_request>	On/off. Indicates whether VTCS tracing is active.
<usable>	<mvc_data>	Yes/no. Indicates whether the MVC can be used for migration.
<usage>	<clink_data>	Current activity on a CLINK.
<used_size>	<media_mvc_counts>	Total used space.
<used_volumes>	<media_mvc_counts>	Initialized MVCs that are not eligible for space reclamation.
<volser>	<mvc_instance>	Volser of MVC.
	<vtv_data>	Volser of VTV.
	<mvc_data>	Volser of MVC.
	<vtd_data>	Volser of VTV on VTD.
<vtcs_version>	<header>	Defines the VTCS version that generated the XML in v.r.m format currently 6.1.0.
<vtss_last_mounted>	<mvc_data>	The VTSS name that the MVC was last mounted on.
<vtss_name>	<vtv_data>	VTSS name that the VTV was last resident on.

Table 1. XML Data Tag Cross-Reference

Data Tag	Occurs In	Definition
	<clink_data>	VTSS name of the primary attached to CLINK.
	<vtd_data>	VTSS name used during QUERY VTD.
	<replication_data>	Primary VTSS name.
	<cluster_data>	Name of a VTSS in a cluster.
<vtss_state>	<cluster_data>	Status of Primary VTSS.
<vtss_subsystems>	<vtcs_data>	Number of VTSS subsystems.
<vtv_count>	<mvc_data>	Count of VTVs on an MVC.
<waiting_host>	<lock_data>	The host waiting for the lock.
<waiting_task>	<lock_data>	The task waiting for the lock.
<warranty_expired>	<mvc_data>	Yes/no. Indicates whether the MVC's warranty has expired.

<CF_lock_number> <CF_lock_data> Coupling Facility lock number.

<CF_lock_type> <CF_lock_data> Coupling Facility lock type.

<CF_lock_owning_host> <CF_lock_data> Coupling Facility lock owner.

XML Structure Tag Cross-Reference

Table 2. XML Structure Tag Cross-Reference

Structure Tag	Occurs In
<acs_mvc_counts>	<mvcpool_counts>
<clink_data>	<vtss_data>
	<query_clink>
	<vary_clink>
<cluster_data>	<vtss_data>
	<query_cluster>
<consolidate_summary>	<consolidate_request>
<drain_summary>	<drain_request>
<exceptions>	<migrate_request>
	<drain_request>
	<recall_request>
	<reclaim_request>
	<consolidate_request>
<header>	<query_mvcpool>
	<vtv_report>
	<mvc_report>
	<cancel_request>
	<query_active>
	<query_queued>
	<query_rtd>
	<migrate_request>
	<drain_request>
	<query_vtss>
	<query_vtd>
	<query_scratch>
	<query_vtv>
	<query_mvc>
	<query_config>
	<query_migrate>
	<query_locks>

Table 2. XML Structure Tag Cross-Reference

Structure Tag	Occurs In
	<query_tasks>
	<query_clink>
	<query_cluster>
	<query_replicate>
	<recall_request>
	<reclaim_request>
	<set_migopt_request>
	<trace_request>
	<vary_clink>
	<vary_rtd>
	<vary_vtss>
	<audit_request>
	<configuration>
	<consolidate_request>
	<decompile>
	<export_request>
	<import_request>
	<mvcpool_report>
	<vtvmaint_request>
	<mvcmaint_request>
<host_data>	<vtss_data>
<host_replicate_queues>	<replication_data>
<lock_data>	<query_locks>
<media_mvc_counts>	<acs_mvc_counts>
<migrate_process>	<migrate_request>
	<drain_request>
	<reclaim_request>
	<consolidate_request>
<migrate_summary>	<migrate_request>
<mvc_data>	<vtcs_request>
	<migrate_process>
	<recall_process>

Table 2. XML Structure Tag Cross-Reference

Structure Tag	Occurs In
	<lock_data>
	<reclaim_summary>
	<mvc_report>
	<mvcpool_data>
	<query_mvc>
<mvc_instance>	<vtv_data>
<mvc_inventory>	<mvc_data>
<mvc_report>	<audit_request>
	<export_request>
	<import_request>
	<mvcmaint_request>
<mvcpool_counts>	<query_mvcpool>
<mvcpool_data>	<mvcpool_report>
<mvcvol>	<decompile>
<primary_vtss>	<cluster_data>
<query_mvcpool>	<mvcpool_data>
<recall_process>	<drain_request>
	<recall_request>
	<reclaim_request>
	<consolidate_request>
<recall_summary>	<recall_request>
<reclaim_summary>	<reclaim_request>
<replication_data>	<query_replicate>
<rtd_data>	<vtcs_request>
	<vtss_data>
	<query_rtd>
	<query_config>
	<vary_rtd>
<scratch_data>	<query_scratch>
<secondary_vtss>	<cluster_data>
<task_data>	<query_tasks>
<vtcs_data>	<query_config>

Table 2. XML Structure Tag Cross-Reference

Structure Tag	Occurs In
	<configuration>
	<decompile>
<vtcs_request>	<task_data>
	<cancel_request>
	<query_active>
	<query_queued>
<vtd_data>	<lock_data>
	<query_vtd>
<vtd_range>	<host_data>
<vtss_data>	<vtcs_request>
	<primary_vtss>
	<secondary_vtss>
	<migrate_process>
	<recall_process>
	<query_vtss>
	<query_config>
	<query_migrate>
	<set_migopt_request>
	<vary_vtss>
	<configuration>
	<decompile>
	<vtss_inventory>
	<vtss_report>
<vtss_inventory>	<vtss_data>
<vtss_report>	<audit_request>
<vtv_data>	<mvc_inventory>
	<vtcs_request>
	<migrate_summary>
	<migrate_process>
	<drain_summary>
	<recall_process>
	<lock_data>

Table 2. XML Structure Tag Cross-Reference

Structure Tag	Occurs In
	<recall_summary>
	<vtv_report>
	<consolidate_summary>
	<query_vtv>
<vtv_report>	<audit_request>
	<vtvmaint_request>
<vtvvol>	<decompile>

AUDIT

Table 3. AUDIT XML Tags

Command /Utility	Head Tag	Structure/Data Tags					
AUDIT	<audit_request>	<header>	<vtcs_version>				
			<date>				
			<time>				
			<host_name>				
		<mvc_report>	<header>	<vtcs_version>			
				<date>			
				<time>			
				<host_name>			
			<mvc_data>	<volser>			
				<vtv_count>			
				<media>			
				<percent_used>			
				<percent_fragmented>			
				<percent_available>			
				<media_size>			
				<times_mounted>			
				<audit>			
				<eject>			
				<drain>			
				<maxvtv>			
				<export>			
				<consolidated>			
				<full>			
				<usable>			
				<initialised>			
				<broken>			
				<lost>			

Table 3. AUDIT XML Tags

Command /Utility	Head Tag	Structure/Data Tags					
				<data_check>			
				<read_only>			
				<retired>			
				<warranty has expired>			
				<invalid_mir>			
				<date_last_mounted>			
				<time_last_mounted>			
				<vtss_last_mounted>			
				<acs>			
				<consolidate_date>			
				<consolidate_time>			
				<storage_class>			
				<mvc_inventory>	<vtv_data>	<volser>	
						<initialised>	
						<mounted>	
						<resident>	
						<scratch>	
						<fenced>	
						<copies_to_migrate>	
						<consolidated>	
						<migrated>	
						<replication>	
						<size_compressed>	
						<size_uncompressed>	
						<compress_percent>	

Table 3. AUDIT XML Tags

Command /Utility	Head Tag	Structure/Data Tags					
						<date_last_used>	
						<time_last_used>	
						<date_created>	
						<time_created>	
						<management_class>	
						<vtss_name>	
						<multiple_start>	
						<multiple_next>	
						<mvc_instance>	<volser>
							<block_id>
		<vtss_report>	<header>	<vtcs_version>			
				<date>			
				<time>			
				<host_name>			
			<vtss_data>	<name>			
				<migrate_lamt>			
				<migrate_hamt>			
				<number_vtds>			
				<number_rtds>			
				<dismount_time>			
				<minimum_migrate_tasks>			
				<maximum_migrate_tasks>			
				<active_migrate_tasks>			
				<default_acs>			

Table 3. AUDIT XML Tags

Command /Utility	Head Tag	Structure/Data Tags					
				<capacity_mb>			
				<dbu>			
				<number_vtvs>			
				<status>			
				<accessible>			
				<migrates>			
				<reclaims>			
				<auto_migrate_threshold>			
				<vtss_inventory>	<vtv_data>	<initialised>	
						<mounted>	
						<resident>	
						<scratch>	
						<fenced>	
						<copies_to_migrate>	
						<consolidated>	
						<migrated>	
						<replication>	
						<size_compressed>	
						<size_uncompressed>	
						<compress_percent>	
						<date_last_used>	
						<time_last_used>	
						<date_created>	
						<time_created>	
						<management_class>	
						<vtss_name>	

CANCEL

Table 4. CANCEL XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
CANCEL	<cancel_request>	<header>	<vtcs_version>	
			<process_id>	
			<date>	
			<time>	
			<host_name>	
		<vtcs_request>	<rtcd_data>	<name>
				<device_address>
				<channel_id>
				<device_type>
				<status>
				<owner_vtss>
				<acs>
			<vtss_data>	<name>
			<mvc_data>	<volser>
			<vtv_data>	<volser>
			<function>	
			<process_id>	
			<parent_id>	

CONFIG

Table 5. CONFIG XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
CONFIG	<configuration>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtcs_data>	<global_mvcfree>		
			<global_maxvttv>		
			<global_vtvattr>		
			<reclaim_maxmvc>		
			<reclaim_start>		
			<reclaim_threshold>		
		<vtss_data>	<name>		
			<migrate_lamt>		
			<migrate_hamt>		
			<dismount_time>		
			<minimum_migrate_tasks>		
			<maximum_migrate_tasks>		
			<acs>		
			<cluster_data>	<name>	
				<primary_name>	
				<secondary_name>	

Table 5. CONFIG XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<rtcd_data>	<name>	
				<device_address>	
				<channel_id>	
			<host_data>	<name>	
				<migrates>	
				<reclaims>	
				<vtd_range>	<low>
					<high>
					<cuaddr>
					<noverify>
			<clink_data>	<vtss_name>	
				<channel_id>	

CONSOLID

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
CONSOLID	<consolidate_ request>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<consolidate_ summary>	<vtv_data>	<volser>	
				<reason>	
		<migrate_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<recall_process>	<vtss_data>	<name>	
				<migrate_lant>	
				<migrate_hant>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	

Table 6. CONSOLID XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		

DECOM

Table 7. DECOM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
DECOM	<decompile>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtcs_data>	<global_mvcfree>		
			<global_lock_structure>		
			<global_maxvtv>		
			<global_vtvattr>		
			<reclaim_maxmvc>		
			<reclaim_start>		
			<reclaim_threshold>		
		<vtvvol>	<low>		
			<high>		
		<mvcvol>	<low>		
			<high>		
		<vtss_data>	<name>		
			<migrate_lamt>		
			<migrate_hamt>		
			<dismount_time>		
			<minimum_migrate_tasks>		
			<maximum_migrate_tasks>		
			<acs>		
			<cluster_data>	<name>	
				<primary_name>	
				<secondary_name>	
			<rtd_data>	<name>	
				<device_address>	
				<channel_id>	

Table 7. DECOM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<host_data>	<name>	
				<migrates>	
				<reclaims>	
				<vtd_range>	<low>
					<high>
					<cuaddr>
					<noverify>
			<clink_data>	<vtss_name>	
				<channel_id>	

DELETSCR

Table 8. DELETSCR Tags

Command/ Utility	Head Tag	Structure/Data Tags			
DELETSCR	<delete_scratch_vtv>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<new_create>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	

EXPORT

Table 9. EXPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags					
EXPORT	<export_ request>	<header>	<vtcs_ version>				
			<date>				
			<time>				
			<host_name>				
		<mvc_report>	<header>	<vtcs_version>			
				<date>			
				<time>			
				<host_name>			
			<mvc_data>	<volser>			
				<vtv_count>			
				<media>			
				<percent_used>			
				<percent_ fragmented>			
				<percent_ available>			
				<media_size>			
				<times_ mounted>			
				<audit>			
				<eject>			
				<drain>			
				<maxvtv>			
				<export>			
				<consolidated>			
				<full>			
				<usable>			
				<initialised>			
				<broken>			
				<lost>			

Table 9. EXPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags					
				<data_check>			
				<read_only>			
				<retired>			
				<warranty_expired>			
				<invalid_mir>			
				<date_last_mounted>			
				<time_last_mounted>			
				<vtss_last_mounted>			
				<acs>			
				<consolidate_date>			
				<consolidate_time>			
				<storage_class>			
				<mvc_inventory>	<vtv_data>	<volser>	
						<initialised>	
						<mounted>	
						<resident>	
						<scratch>	
						<fenced>	
						<copies_to_migrate>	
						<consolidated>	
						<migrated>	
						<replication>	
						<size_compressed>	
						<size_uncompressed>	

Table 9. EXPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags					
						<compress_ percent>	
						<date_last_used>	
						<time_last_used>	
						<new_create>	
						<date_created>	
						<time_created>	
						<management_ class>	
						<vtss_name>	
						<multiple_start>	
						<multiple_next>	
						<mvc_instance>	<volser>
							<block_id>

IMPORT

Table 10. IMPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags					
IMPORT	<import_ request>	<header>	<vtcs_ version>				
			<date>				
			<time>				
			<host_ name>				
		<mvc_ report>	<header>	<vtcs_ version>			
				<date>			
				<time>			
				<host_ name>			
				<mvc_ data>	<volser>		
					<vtv_ count>		
					<media>		
					<percent_ used>		
					<percent_ fragmented>		
					<percent_ available>		
					<media_ size>		
					<times_ mounted>		
					<audit>		
					<eject>		
					<drain>		
					<maxvtv>		
			<export>				
			<consolidated>				
			<full>				
			<usable>				
			<initialised>				

Table 10. IMPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags				
				<broken>		
				<lost>		
				<data_check>		
				<read_only>		
				<retired>		
				<warranty_expired>		
				<invalid_mir>		
				<date_last_mounted>		
				<time_last_mounted>		
				<vtss_last_mounted>		
				<acs>		
				<consolidate_date>		
				<consolidate_time>		
				<storage_class>		

Table 10. IMPORT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags					
				<mvc_ inventory>	<vtv_data>	<volser>	
						<initialised>	
						<mounted>	
						<resident>	
						<scratch>	
						<fenced>	
						<copies_to_mig rate>	
						<consolidated>	
						<migrated>	
						<replication>	
						<size_ compressed>	
						<size_ uncompressed>	
						<compress_ percent>	
						<date_last_ used>	
						<time_last_ used>	
						<date_created>	
						<time_created>	
						<management_ class>	
						<vtss_name>	
						<multiple_star t>	
						<multiple_next >	
						<mvc_instance>	<volser>
							<block_id>

MIGRATE

Table 11. MIGRATE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
MIGRATE	<migrate_request>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<migrate_summary>	<vtv_data>	<volser>	
				<reason>	
		<migrate_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	

Table 11. MIGRATE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	

Table 11. MIGRATE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<nvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		

MVCDRAIN

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
MVCDRAIN	<drain_request>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<drain_summary>	<vtv_data>	<volser>	
				<reason>	
		<recall_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
			<mvc_data>	<volser>
				<vtv_count>
				<media>
				<percent_used>
				<percent_fragmented>
				<percent_available>
				<media_size>
				<times_mounted>
				<audit>
				<eject>
				<drain>
				<maxvtv>
				<export>
				<consolidated>
				<full>
				<usable>
				<initialised>
				<broken>
				<lost>
				<data_check>
				<read_only>
				<retired>
				<warranty_expired>
				<invalid_mir>
				<date_last_mounted>
				<time_last_mounted>
				<vtss_last_mounted>
				<acs>
				<storage_class>
				<consolidate_date>
				<consolidate_time>

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
		<migrate_process>	<vtss_data>	<name>
				<migrate_lant>
				<migrate_hant>
				<number_vtds>
				<number_rtds>
				<dismount_time>
				<minimum_migrate_tasks>
				<maximum_migrate_tasks>
				<active_migrate_tasks>
				<default_acs>
				<capacity_mb>
				<dbu>
				<number_vtvs>
				<status>
				<accessible>
				<migrates>
				<reclaims>
				<auto_migrate_threshold>
			<mvc_data>	<volser>
				<vtv_count>
				<media>
				<percent_used>
				<percent_fragmented>
				<percent_available>
				<media_size>
				<times_mounted>
				<audit>
				<eject>
				<drain>
				<maxvtv>
				<export>

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	

Table 12. MVCDRAIN XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		

MVCMaint

Table 13. MVCMaint XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
MVCMaint	<mvcmaint_request>	<header>	<vtcs_version>	
			<date>	
			<time>	
			<host_name>	
		<mvc_report>	<header>	<vtcs_version>
				<date>
				<time>
				<host_name>
			<mvc_data>	<volser>
				<vtv_count>
				<media>
				<percent_used>
				<percent_fragmented>
				<percent_available>
				<media_size>
				<times_mounted>
				<audit>
				<eject>
				<drain>
				<maxvtv>
				<export>
				<consolidated>
				<full>
				<usable>
				<initialised>
				<broken>
				<lost>
				<data_check>
				<read_only>
				<retired>

Table 13. MVCMAINT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
				<warranty_expired>
				<invalid_mir>
				<date_last_mounted>
				<time_last_mounted>
				<vtss_last_mounted>
				<acs>
				<consolidate_date>
				<consolidate_time>
				<storage_class>

MVCPLRPT

Table 14. MVCPLRPT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
MVCPLRPT	<mvcpool_report>	<header>	<vtcs_version>		
			<date>		
			<time>		
			<host_name>		
		<mvcpool_data>	<name>		
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_ used>	
				<percent_ fragmented>	
				<percent_ available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	

Table 14. MVCPLRPT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags				
				<warranty_expired>		
				<invalid_mir>		
				<date_last_mounted>		
				<time_last_mounted>		
				<vtss_last_mounted>		
				<acs>		
				<storage_class>		
				<consolidate_date>		
				<consolidate_time>		
			<query_mvcpool>	<header>	<vtcs_version>	
					<process_id>	
					<date>	
					<time>	
					<host_name>	
				<mvcpool_counts>	<name>	
					<acs_mvc_counts>	<acs>
						<media_mvc_counts>

MVCRPT

Table 15. MVCRPT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
MVCRPT	<mvc_report>	<header>	<vtcs_version>		
			<date>		
			<time>		
			<host_name>		
		<mvc_data>	<volser>		
			<vtv_count>		
			<media>		
			<percent_used>		
			<percent_fragmented>		
			<percent_available>		
			<media_size>		
			<times_mounted>		
			<audit>		
			<eject>		
			<drain>		
			<maxvtv>		
			<export>		
			<consolidated>		
			<full>		
			<usable>		
			<initialised>		
			<broken>		
			<lost>		
			<data_check>		
			<read_only>		
			<retired>		
			<warranty_expired>		
			<invalid_mir>		
			<date_last_mounted>		
			<time_last_mounted>		

Table 15. MVC RPT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags				
			<vtss_last_mounted>			
			<acs>			
			<consolidate_date>			
			<consolidate_time>			
			<storage_class>			
			<mvc_inventory>	<vtv_data>	<volser>	
					<initialised>	
					<mounted>	
					<resident>	
					<scratch>	
					<fenced>	
					<copies_to_migrate>	
					<consolidated>	
					<migrated>	
					<replication>	
					<size_compressed>	
					<size_uncompressed>	
					<maximum_size>	
					<compress_percent>	
					<date_last_used>	
					<time_last_used>	
					<new_create>	
					<date_created>	
					<time_created>	
					<management_class>	
					<vtss_name>	
					<multiple_start>	
					<multiple_next>	
					<mvc_instance>	<volser>
						<block_id>

QUERY/DISPLAY ACTIVE

Table 16. QUERY/DISPLAY ACTIVE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY ACTIVE	<query_active>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtcs_request>	<rtcd_data>	<name>	
				<device_address>	
				<channel_id>	
				<device_type>	
				<status>	
				<owner_vtss>	
				<acs>	
			<vtss_data>	<name>	
			<mvc_data>	<volser>	
			<vtv_data>	<volser>	
			<function>		
			<process_id>		
			<parent_id>		

QUERY/DISPLAY CLINK

Table 17. QUERY/DISPLAY CLINK XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY CLINK	<query_clink>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<clink_data>	<vtss_name>		
			<clink_id>		
			<channel_id>		
			<status>		
			<usage>		
			<host_name>		

QUERY/DISPLAY CLUSTER

Table 18. QUERY/DISPLAY CLUSTER XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY CLUSTER	<query_cluster>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<cluster_data>	<name>		
			<mode>		
			<vtss_name>		
			<vtss_state>		
			<direction>		
			<vtss_name>		
			<vtss_state>		
			<direction>		
			<vtss_name>	<vtss_data>	<name>
					<migrate_lamt>
					<migrate_hamt>
					<number_vtcs>
					<number_rtds>
					<minimum_migrate_tasks>
					<maximum_migrate_tasks>
					<active_migrate_tasks>
					<default_acs>
					<capacity_mb>
					<dbu>
					<number_vtvs>
					<status>

Table 18. QUERY/DISPLAY CLUSTER XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
					<accessible>
					<migrates>
					<reclaims>
					<auto_migrate_ host>
					<auto_migrate_ threshold>
					<immediate_ migrate_wait>
			<secondary_vtss>	<vtss_data>	<name>
					<migrate_lant>
					<migrate_hant>
					<number_vtss>
					<number_rtds>
					<minimum_migrate_ tasks>
					<maximum_migrate_ tasks>
					<active_migrate_ tasks>
					<default_acs>
					<capacity_mb>
					<dbu>
					<number_vtvs>
					<status>
					<accessible>
					<migrates>
					<reclaims>
					<auto_migrate_ host>
					<auto_migrate_ threshold>
					<immediate_ migrate_wait>

QUERY/DISPLAY CONFIG

Table 19. QUERY/DISPLAY CONFIG XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY CONFIG	<query_config>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtcs_data>	<host_id>		
			<vtss_subsystems>		
			<global_lock_structure>		
			<global_mvcfree>		
			<global_maxvtv>		
			<global_vtvattr>		
			<global_recall_with_error>		
			<reclaim_maxmvc>		
			<reclaim_start>		
			<reclaim_connmvc>		
			<reclaim_threshold>		
		<vtss_data>	<name>		
			<migrate_lamt>		
			<migrate_hamt>		
			<number_vtds>		
			<number_rtds>		
			<dismount_time>		
			<minimum_migrate_tasks>		
			<maximum_migrate_tasks>		

Table 19. QUERY/DISPLAY CONFIG XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
			<active_ migrate_tasks>		
			<default_acs>		
			<capacity_mb>		
			<dbu>		
			<number_vtvs>		
			<status>		
			<accessible>		
			<migrates>		
			<reclaims>		
			<auto_migrate_ threshold>		
		<rttd_data>			
			<device_address>		
			<device_type>		
			<name>		
			<channel_id>		
			<status>		
			<acs>		
			<vtss_data>		
				<name	

QUERY/DISPLAY LOCKS

Table 20. QUERY/DISPLAY LOCKS XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY LOCKS	<query_locks>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<lock_data>	<host_name>		
			<task_number>		
			<task_type>		
			<slot_id>		
			<vtd_data>	<device_address>	
			<mvc_data>	<volser>	
			<vtv_data>	<volser>	
			<waiting_host>		
			<waiting_task>		
		<CF_lock_data>	<CF_lock_number>		
			<CF_lock_type>		
			<CF_lock_owning_host>		

QUERY/DISPLAY MIGRATE

Table 21. QUERY/DISPLAY MIGRATE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY MIGRATE	<query_migrate>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtss_data>	<name>		
			<migrate_lamt>		
			<migrate_hamt>		
			<number_vtcs>		
			<number_rtds>		
			<minimum_migrate_tasks>		
			<maximum_migrate_tasks>		
			<active_migrate_tasks>		
			<default_acs>		
			<capacity_mb>		
			<dbu>		
			<number_vtvs>		
			<status>		
			<accessible>		
			<migrates>		
			<reclaims>		
			<auto_migrate_host>		
			<auto_migrate_threshold>		
			<immediate_migrate_wait>		

QUERY/DISPLAY MVC

Table 22. QUERY/DISPLAY MVC XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY MVC	<query_mvc>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<mvc_data>	<volser>		
			<vtv_count>		
			<media>		
			<percent_used>		
			<percent_fragmented>		
			<percent_available>		
			<media_size>		
			<times_mounted>		
			<audit>		
			<eject>		
			<drain>		
			<maxvtv>		
			<export>		
			<consolidated>		
			<full>		
			<usable>		
			<initialised>		
			<broken>		
			<lost>		
			<data_check>		
			<read_only>		
			<retired>		

Table 22. QUERY/DISPLAY MVC XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
			<warranty_expired >	
			<invalid_mir>	
			<date_last_ mounted>	
			<time_last_ mounted>	
			<date_last_ migrated>	
			<time_last_ migrated>	
			<date_last_ reclaimed>	
			<time_last_ reclaimed>	
			<vtss_last_ mounted>	
			<acs>	
			<consolidate_ date>	
			<consolidate_ time>	
			<storage_ class>	
			<eot_ block_id>	
			<block_id_first_ space>	

QUERY/DISPLAY MVCPOOL

Table 23. QUERY/DISPLAY MVCPOOL XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY MVCPOOL	<query_mvcpool>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<mvcpool_counts>	<name>		
			<acs_mvc_counts>	<acs>	
				<media_mvc_counts>	<media>
					<free_volumes>
					<free_size>
					<reclaim_volumes>
					<reclaim_size>
					<used_volumes>
					<used_size>

QUERY/DISPLAY QUEUE

Table 24. QUERY/DISPLAY QUEUE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY QUEUE	<query_queued>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtcs_request>	<rtcd_data>	<device_address>	
				<device_type>	
				<name>	
				<channel_id>	
				<mvc_allocated>	
				<mvc_mounted>	
				<host_id>	
				<status>	
				<owner_vtss>	
				<acs>	
			<vtss_data>	<name>	
			<mvc_data>	<volser>	
			<vtv_data>	<volser>	
			<function>		
			<process_id>		
			<parent_id>		
			<reason>		

QUERY/DISPLAY RTD

Table 25. QUERY/DISPLAY RTD XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY RTD	<query_rtd>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<rtd_data>	<name>		
			<channel_id>		
			<mvc_allocated>		
			<mvc_mounted>		
			<host_id>		
			<status>		
			<volser>		
			<owner_vtss>		
			<acs>		

QUERY/DISPLAY REPLICATE

Table 26. QUERY/DISPLAY REPLICATE XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY REPLICATE	<query_ replicate>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<replication_ data>	<vtss_name>		
			<host_replicate_ queues>	<host_name>	
				<replicate_ qdepth>	
				<replicate_ oldest>	
				<replicate_ frequency>	
				<replicate_ skip>	
				<replicate_ difference>	

QUERY/DISPLAY SCRATCH

Table 27. QUERY/DISPLAY SCRATCH XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY SCRATCH	<query_scratch>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<scratch_data>	<subpool_name>		
			<scratch_count>		

QUERY/DISPLAY TASKS

Table 28. QUERY/DISPLAY TASKS XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY TASKS	<query_tasks>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<task_data>	<task_number>		
			<task_type>		
			<vtcs_request>	<rtd_data>	<name>
					<device_address>
					<channel_id>
					<device_type>
					<status>
					<owner_vtss>
					<acs>
				<vtss_data>	<name>
				<mvc_data>	<volser>
				<vtv_data>	<volser>
				<function>	
				<process_id>	
				<parent_id>	

QUERY/DISPLAY VTD

Table 29. QUERY/DISPLAY VTD XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY VTD	<query_vtd>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtd_data>	<device_address>		
			<vtss_name>		
			<volser>		
			<status>		

QUERY/DISPLAY VTSS

Table 30. QUERY/DISPLAY VTSS XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY VTSS	<query_vtss>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtss_data>	<name>		
			<migrate_lamt>		
			<migrate_hamt>		
			<number_vtcs>		
			<number_rtds>		
			<dismount_time>		
			<minimum_migrate_tasks>		
			<maximum_migrate_tasks>		
			<active_migrate_tasks>		
			<default_acs>		
			<capacity_mb>		
			<dbu>		
			<number_vtvs>		
			<status>		
			<accessible>		
			<migrates>		
			<reclaims>		
			<auto_migrate_threshold>		

QUERY/DISPLAY VTV

Table 31. QUERY/DISPLAY VTV XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
QUERY/ DISPLAY VTV	<query_vtv>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<vtv_data>	<volser>		
			<initialised>		
			<mounted>		
			<resident>		
			<scratch>		
			<fenced>		
			<copies_to_migrate>		
			<consolidated>		
			<migrated>		
			<replication>		
			<size_compressed>		
			<size_uncompressed>		
			<compress_percent>		
			<date_last_used>		
			<time_last_used>		
			<new_create>		
			<date_created>		
			<time_created>		
			<management_class>		
			<vtss_name>		

Table 31. QUERY/DISPLAY VTV XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<multiple_start>	
				<multiple_next>	
			<mvc_instance>	<volser>	
				<block_id>	

RECALL

Table 32. RECALL XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
RECALL	<recall_request>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<recall_summary>	<vtv_data>	<volser>	
				<reason>	
		<recall_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	

Table 32. RECALL XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
				<percent_used>
				<percent_fragmented>
				<percent_available>
				<media_size>
				<times_mounted>
				<audit>
				<eject>
				<drain>
				<maxvtv>
				<export>
				<consolidated>
				<full>
				<usable>
				<initialised>
				<broken>
				<lost>
				<data_check>
				<read_only>
				<retired>
				<warranty_expired>
				<invalid_mir>
				<date_last_mounted>
				<time_last_mounted>
				<vtss_last_mounted>
				<acs>
				<storage_class>
				<consolidate_date>
				<consolidate_time>
			<vtv_data>	<volser>
				<initialised>

Table 32. RECALL XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		

RECLAIM

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
RECLAIM	<reclaim_request>	<header>	<vtcs_version>		
			<process_id>		
			<date>		
			<time>		
			<host_name>		
		<reclaim_summary>	<mvc_data>	<volser>	
				<reason>	
		<recall_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtlds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_ tasks>	
				<maximum_migrate_ tasks>	
				<active_migrate_ tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_ threshold>	
			<mvc_data>	<volser>	
				<vtv_count>	

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	
			<vtv_data>	<volser>	
				<initialised>	

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<migrate_process>	<vtss_data>	<name>	
				<migrate_lamt>	
				<migrate_hamt>	
				<number_vtds>	
				<number_rtds>	
				<dismount_time>	
				<minimum_migrate_tasks>	
				<maximum_migrate_tasks>	

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<active_migrate_tasks>	
				<default_acs>	
				<capacity_mb>	
				<dbu>	
				<number_vtvs>	
				<status>	
				<accessible>	
				<migrates>	
				<reclaims>	
				<auto_migrate_threshold>	
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags		
				<retired>
				<warranty_expired>
				<invalid_mir>
				<date_last_mounted>
				<time_last_mounted>
				<vtss_last_mounted>
				<acs>
				<storage_class>
				<consolidate_date>
				<consolidate_time>
			<vtv_data>	<volser>
				<initialised>
				<mounted>
				<resident>
				<scratch>
				<fenced>
				<copies_to_migrate>
				<consolidated>
				<migrated>
				<replication>
				<size_compressed>
				<size_uncompressed>
				<maximum_size>
				<compress_percent>
				<date_last_used>
				<time_last_used>
				<new_create>
				<date_created>
				<time_created>
				<management_class>
				<vtss_name>

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		
			<mvc_data>	<volser>	
				<vtv_count>	
				<media>	
				<percent_used>	
				<percent_fragmented>	
				<percent_available>	
				<media_size>	
				<times_mounted>	
				<audit>	
				<eject>	
				<drain>	
				<maxvtv>	
				<export>	
				<consolidated>	
				<full>	
				<usable>	
				<initialised>	
				<broken>	
				<lost>	
				<data_check>	
				<read_only>	
				<retired>	
				<warranty_expired>	
				<invalid_mir>	
				<date_last_mounted>	
				<time_last_mounted>	

Table 33. RECLAIM XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<vtss_last_mounted>	
				<acs>	
				<storage_class>	
				<consolidate_date>	
				<consolidate_time>	
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>
		<exceptions>	<reason>		

SET MIGOPT

Table 34. SET MIGOPT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags	
SET MIGOPT	<set_migopt_request>	<header>	<vtcs_version>
			<process_id>
			<date>
			<time>
			<host_name>
		<vtss_data>	<name>
			<migrate_lamt>
			<migrate_hamt>
			<number_vtds>
			<number_rtds>
			<dismount_time>
			<minimum_migrate_tasks>
			<maximum_migrate_tasks>
			<active_migrate_tasks>
			<default_acs>
			<capacity_mb>
			<dbu>
			<number_vtvs>
			<status>
			<accessible>
			<migrates>
			<reclaims>
			<auto_migrate_threshold>

TRACE

Table 35. TRACE XML Tags

Command/Utility	Head Tag	Structure/Data Tags	
TRACE	<trace_request>	<header>	<vtcs_version>
			<process_id>
			<date>
			<time>
			<host_name>
		<trace>	

VARY CLINK

Table 36. VARY CLINK XML Tags

Command/Utility	Head Tag	Structure/Data Tags	
VARY CLINK	<vary_clink>	<header>	<vtcs_version>
			<process_id>
			<date>
			<time>
			<host_name>
		<clink_data>	<vtss_name>
			<clink_id>
			<status>
			<usage>
			<host_name>

VARY RTD

Table 37. VARY RTD XML Tags

Command/Utility	Head Tag	Structure/Data Tags	
VARY RTD	<vary_rtd>	<header>	<vtcs_version>
			<process_id>
			<date>
			<time>
			<host_name>
		<rtd_data>	<name>
			<device_address>
			<channel_id>
			<device_type>
			<status>
			<owner_vtss>
			<acs>

VARY VTSS

Table 38. VARY VTSS XML Tags

Command/ Utility	Head Tag	Structure/Data Tags	
VARY VTSS	<vary_vtss>	<header>	<vtcs_version>
			<process_id>
			<date>
			<time>
			<host_name>
		<vtss_data>	<name>
			<migrate_lamt>
			<migrate_hamt>
			<number_vtlds>
			<number_rtds>
			<dismount_time>
			<minimum_migrate_tasks>
			<maximum_migrate_tasks>
			<active_migrate_tasks>
			<default_acs>
			<capacity_mb>
			<dbu>
			<number_vtvs>
			<status>
			<accessible>
			<migrates>
			<reclaims>
			<auto_migrate_threshold>

VTVMaint

Table 39. VTVMaint XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
VTVMaint	<vtvmaint_request>	<header>	<vtcs_version>		
			<date>		
			<time>		
			<host_name>		
		<vtv_report>	<header>	<vtcs_version>	
				<date>	
				<time>	
				<host_name>	
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<multiple_start>	

Table 39. VTVMAINT XML Tags

Command/ Utility	Head Tag	Structure/Data Tags			
				<multiple_next>	
				<mvc_instance>	<volser>
					<block_id>

VTVRPT

Table 40. VTVRPT XML Tags

Command/ Utility	Parameter	Head Tag	Structure/Data Tags		
VTVRPT		<vtv_report>	<header>	<vtcs_version>	
				<date>	
				<time>	
				<host_name>	
			<vtv_data>	<volser>	
				<initialised>	
				<mounted>	
				<resident>	
				<scratch>	
				<fenced>	
				<copies_to_migrate>	
				<consolidated>	
				<migrated>	
				<replication>	
				<size_compressed>	
				<size_uncompressed>	
				<maximum_size>	
				<compress_percent>	
				<date_last_used>	
				<time_last_used>	
				<new_create>	
				<date_created>	
				<time_created>	
				<management_class>	
				<vtss_name>	
				<mvc_instance>	<volser>
					<block_id>

Additional Information

Sun Microsystems, Inc. (Sun) offers several methods for you to obtain additional information.

Sun's External Web Site

Sun's external Web site provides marketing, product, event, corporate, and service information. The external Web site is accessible to anyone with a Web browser and an Internet connection.

The URL for the Sun external Web site is: <http://www.sun.com>

The URL for Sun StorageTek™ brand-specific information is:
<http://www.sun.com/storagetek>

Sun Microsystems Documentation

The Sun Microsystems Documentation Web Page provides customer documentation in softcopy format, including publications formerly found on the StorageTek product Customer Resource Center (CRC). The URL for the Sun Microsystems Documentation Web Page is:

<http://docs.sun.com/app/docs>

Sun Global Partners

The Sun Global Partners site provides information about solutions available with Sun's partners:

<http://www.sun.com/third-party/global/>

Third-Party Web Sites

Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

SunSun's Worldwide Offices

You may contact any of SunSun's worldwide offices to discuss complete storage, service, and support solutions for your organization. You can find address and telephone number information on Sun's external Web site at:

<http://www.sun.com/worldwide/>

Customer Support

For more information about Sun support (including for StorageTek branded products) see:

<http://www.sun.com/support/>

Customer-initiated Maintenance

Customer-initiated maintenance begins with a telephone call from you to Sun Microsystems StorageTek Support. You receive immediate attention from qualified Sun personnel, who record problem information and respond with the appropriate level of support.

To contact Sun Microsystems StorageTek Support about a problem:

1. Use the telephone and call:
 ☎ **800.872.4786** (1.800.USA.4Sun)
 ☎ **800.722.4786** (Canada)

For international locations, go to
<http://www.sun.com/service/contacting/solution.html>
 for the appropriate telephone number

2. Describe the problem to the call taker. The call taker will ask several questions and will either route your call to or dispatch a support representative.

If you have the following information when you place a service call, the process will be much easier:

Account name	_____
Site location number	_____
Contact name	_____
Telephone number	_____
Equipment model number	_____
Device address	_____
Device serial number (if known)	_____
Urgency of problem	_____
Fault Symptom Code (FSC)	_____
Problem description	_____

Conventions for Reader Usability

Conventions are used to shorten and clarify explanations and examples within this book.

Typographic

The following typographical conventions are used in this book:

- **Bold** is used to introduce new or unfamiliar terminology.
- Letter Gothic is used to indicate command names, filenames, and literal output by the computer.
- Letter Gothic Bold is used to indicate literal input to the computer.
- *Letter Gothic Italic* is used to indicate that you must substitute the actual value for a command parameter. In the following example, you would substitute your name for the “username” parameter.
- Logon *username*
- A bar (|) is used to separate alternative parameter values. In the example shown below either username or systemname must be entered.
- Logon *username|systemname*
- Brackets [] are used to indicate that a command parameter is optional.
- Ellipses (...) are used to indicate that a command may be repeated multiple times.
- The use of mixed upper and lower case characters (for non–case sensitive commands) indicates that lower case letters may be omitted to form abbreviations. For example, you may simply enter **Q** when executing the **Quit** command.

Keys

Single keystrokes are represented by double brackets [[]] surrounding the key name. For example, press [[ESC]] indicates that you should press only the escape key.

Combined keystrokes use double brackets and the plus sign (+). The double brackets surround the key names and the plus sign is used to add the second keystroke. For example, press [[AL]] + [[C]] indicates that you should press the alternate key and the C key simultaneously.

Enter Command

The instruction to “press the `[[ENTER]]` key” is omitted from most examples, definitions, and explanations in this book.

For example, if the instructions asked you to “enter” **Logon pat**, you would type in **Logon pat** and press `[[ENTER]]`.

However, if the instructions asked you to “type” **Logon pat**, you would type in **Logon pat** and you would *not* press `[[ENTER]]`.

Warnings, Cautions, and Notes - Software

The following are used in software documentation.

Caution – Information necessary to keep you from corrupting your data.

Tip – Information that can be used to shorten or simplify your task or they may simply be used as a reminder.

Note – Information that may be of special interest to you. Notes are also used to point out exceptions to rules or procedures.

Warnings, Cautions, and Notes - Hardware

The following are used in hardware documentation.

Note – A note provides additional information that is of special interest. A note might point out exceptions to rules or procedures. A note usually, but not always, follows the information to which it pertains.

Caution – A caution informs you of conditions that might result in damage to hardware, corruption of data, or corruption of application software. A caution always precedes the information to which it pertains.



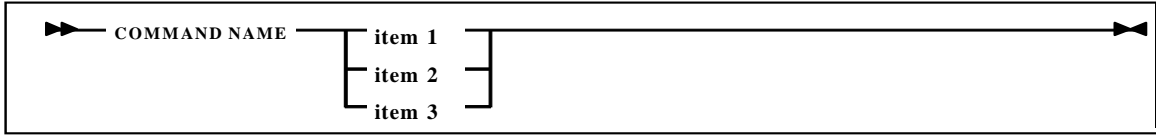
Warning – Possible Physical Injury. A warning alerts you to conditions that might result in long-term health problems, injury, or death. A warning always precedes the information to which it pertains.



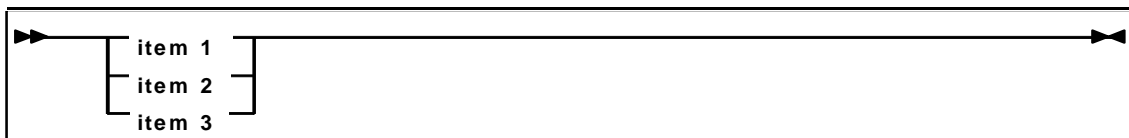
Syntax

Syntax flow diagram conventions include the following:

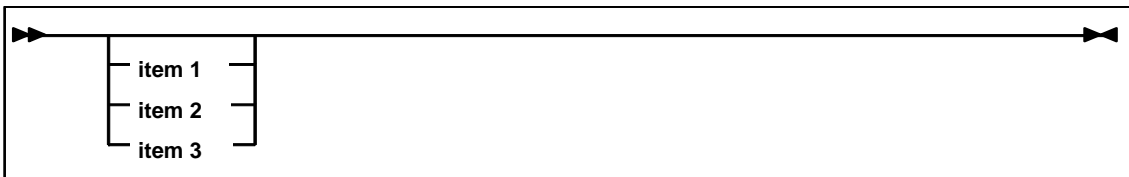
Flow Lines—Syntax diagrams consist of a horizontal baseline, horizontal and vertical branch lines and the command text. Diagrams are read left to right and top to bottom. Arrows show flow and direction.



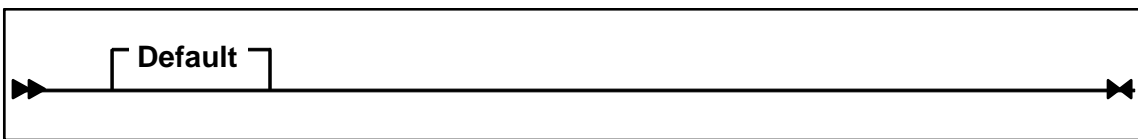
Single Required Choice—Branch lines (without repeat arrows) indicate that a single choice must be made. If one of the items to choose from is on the baseline of the diagram, one item must be selected.



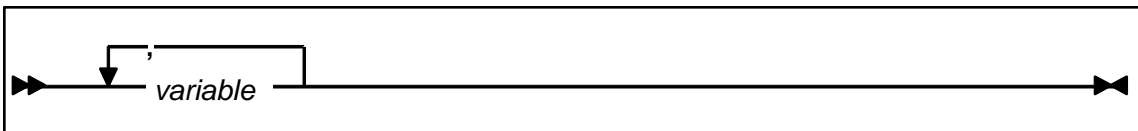
Single Optional Choice—If the first item is on the line below the baseline, one item may optionally be selected.



Defaults—Default values and parameters appear above the baseline.



Repeat Symbol—A repeat symbol indicates that more than one choice can be made or that a single choice can be made more than once. The repeat symbol shown in the following example indicates that a comma is required as the repeat separator.



Keywords—All command keywords are shown in all upper case or in mixed case. When commands are not case sensitive, mixed case implies that the lowercase letters may be omitted to form an abbreviation.

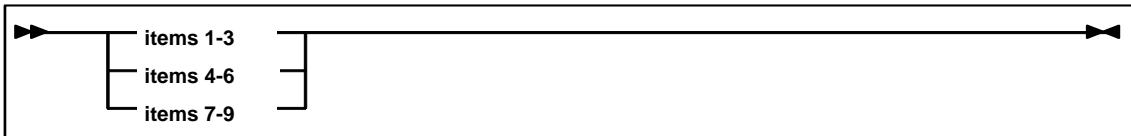
Variables—Italic type is used to indicate a variable.

Alternatives—A bar (|) is used to separate alternative parameter values.

Optional—Brackets [] are used to indicate that a command parameter is optional.

Delimiters—If a comma (,), a semicolon (;), or other delimiter is shown with an element of the syntax diagram, it must be entered as part of the statement or command.

Ranges—An inclusive range is indicated by a pair of elements of the same length and data type, joined by a dash. The first element must be strictly less than the second element.



Lists—A list consists of one or more elements. If more than one element is specified, the elements must be separated by a comma or a blank and the entire line must be enclosed by parentheses.

