

Hitachi Universal Storage Platform V/VM Release Notes

DKCMAIN version 60-08-59-00/00, SVP 60-08-49/00

Contents

About this document.....	1
Intended audience.....	1
Getting help	1
About this release	1
Supported features and functions.....	2
(1) For Open and Mainframe systems.....	2
(2) For Mainframe systems	3
(3) For Open systems	4
Change of contents	5
Acronyms and abbreviations.....	6

About this document

This document provides information about the Hitachi Universal Storage Platform V/VM microcode (DKCMAIN and SVP), including new features and functions and changes.

Revision	Date
RN-600859-M326-00	March 2 nd , 2016

Intended audience

This document is intended for Hitachi Data Systems customers and authorized service providers who install, configure, operate, and maintain the Hitachi Universal Storage Platform V/VM storage system.

Getting help

Hitachi Data Systems Support Connect is the destination for technical support of products and solutions sold by Hitachi Data Systems. To contact technical support, log on to Hitachi Data Systems Support Connect for contact information:
https://support.hds.com/en_us/contact-us.html.

About this release

This document describes the differences between the following versions:

Version	DKCMAIN	SVP
New version	60-08-59-00/00	60-08-49/00
Previous version	60-08-59-00/00	60-08-48/00

Supported features and functions

(1) For Open and Mainframe systems

1-1	Support for Openssl 1.0.1q
Description	<p>With the end of Openssl 0.9.8 series support, Openssl 1.0.1q is supported on SVP.</p> <p>This support is available only for Windows Vista.</p> <p>To apply the support, remove the existing Apache and then install Apache 2.2.29 (Openssl 1.0.1q). For details, refer to Maintenance Manual (21 WEB CONSOLE SECTION).</p>
Documented	Maintenance Manual (21 WEB CONSOLE SECTION)

(2) For Mainframe systems

None

(3) For Open systems

None

Change of contents

No	Item	Contents
1	Title	Failure of PDEV installation
	Symptoms	After PDEV installation failed, if recovery installation was performed, SVP message ONL0817E was displayed and the installation was unavailable.
	Conditions of Occurrence	<p>The problem may occur when all the following conditions are met.</p> <p>(1) LDEV installation (including PDEV installation due to LDEV installation) is performed by taking one of the following operations.</p> <p>(a) Selecting [Install], [Change Configuration], [Installation], and then [DKA + ECC group + LDEV] with SVP launcher</p> <p>(b) Selecting [Install], [CVS Configuration], and then [LDEV (CVS) Installation] with SVP launcher</p> <p>(2) At the operation of (1), the number of CUs is increased and the new CU is assigned to the installation target LDEV.</p> <p>(3) Due to a communication failure, the installation fails.</p> <p>(4) Operations (1) and then (2) are retried.</p>
	Category	Open or Mainframe
	Products and Versions Affected	SVP: All

Acronyms and abbreviations

3DC	three data center
ABTS	ASCII Block Terminal Services
AOU	allocation on use (another name for Dynamic Provisioning)
ASP	authorized service provider
BCM	Hitachi Business Continuity Manager
CCI	Command Control Interface
CHA	channel adapter (another name for front-end director)
CL1/2	cluster 1/2
CLI	command line interface
CLPR	cache logical partition
CM	cache memory
CMA	cache memory adapter
COW	copy on write
CPC	cache path control adapter
CPK	cache package
CRM	Cache Residency Manager
CSV	Cluster Shared Volumes
CTG	consistency group
CU	control unit
CUDG	control unit diagnosis
CVS	custom volume size (another name for Virtual LVI/LUN)
DCR	dynamic cache residency (another name for Cache Residency Manager)
DF850	Hitachi Unified Storage
DKA	disk adapter (another name for back-end director)
DKAF	DKA firmware
DKC	disk controller (also used to refer to the entire storage system)
DKU	disk unit
DP	Dynamic Provisioning
DP-VOL	Dynamic Provisioning virtual volume (V-VOL used for Dynamic Provisioning)
DPz	Dynamic Provisioning for Mainframe
DRU	Hitachi Data Retention Utility
DS	dynamic sparing
DT	Dynamic Tiering
DTz	Dynamic Tiering for Mainframe
DW700	another name for the Hitachi Unified Storage VM
DW800	another name for the Hitachi Virtual Storage Platform Gx00
ECC	error checking and correction
EQC	equipment check
ESW	express switch
FC	fibre channel, FlashCopy
FCA	fibre control adapter
FCSE	FlashCopy Space Efficient

FCU	File Conversion Utility
FCv2	FlashCopy version 2
FD	floppy disk
FDM	FICON® data migration
FMD	flash module drive
FRS	Feature Release Schedule
grp	group
HA	high availability
HAM	Hitachi High Availability Manager
HCS	Hitachi Command Suite
HDD	hard disk drive
HDEV	host device
HDS	Hitachi Data Systems
HDvM	Hitachi Device Manager
HLDE	hold-error
HM700	another name for the Hitachi Unified Storage VM
HM800	factory model number for the Hitachi Virtual Storage Platform Gx00
HMO	host mode option
HPAV	Hitachi Parallel Access Volume (another name for Hitachi Compatible PAV)
HPF	High Performance FICON®
HPtM	Hitachi Protection Manager
HPvM	Hitachi Provisioning Manager
HRpM	Hitachi Replication Manager
HTP	hyper transfer program (controls the FICON channel links)
HTSM	Hitachi Tiered Storage Manager
HUS	Hitachi Unified Storage
HUS VM	Hitachi Unified Storage VM
I-site	intermediate site
JNL	journal
JNLG	journal group
LDEV	logical device
LDKC	logical disk controller
Lib	Library
LRC	longitudinal redundancy check
LSI	large-scale integration, refers to an integrated circuit (IC)
L-site	local site
LU	logical unit
LUN	logical unit number
LUSE	logical unit size expansion
LVI	logical volume image
MCU	main control unit
MDKC	main storage system (contains MCUs)
MIH	missing interrupt handler
MP	microprocessor
MPB	MP blade

MSCS	Microsoft Cluster Server
MTO	mainframe-to-open
NDM	non-disruptive migration
OTM	open-to-mainframe
PAV	Parallel Access Volume
PCB	printed circuit board
PDEV	physical device
PP	program product
PPC	prioritized port control
PS	power supply
P-site	primary site
P-VOL	primary volume
RC	remote console
RCU	remote control unit
RDKC	remote storage system (contains RCUs)
RIO	remote I/O
RM	RAID Manager (another name for Command Control Interface)
RSCN	registered state-change notification
RSD	Hitachi RAID Systems Division
R-site	remote site
SAS	serial-attached SCSI
SATA	serial Advanced Technology Attachment
SCP	state change pending
SFP	small form-factor pluggable
SI	Hitachi ShadowImage
SIM	service information message
SIz	ShadowImage for Mainframe
SM	shared memory
SMPL	simplex
SN	Storage Navigator
SOM	system option mode
SPM	Hitachi Server Priority Manager
SSB	sense byte
SSD	solid-state device (another name for flash drive)
SSID	storage subsystem identifier
SSL	secure socket layer
SSW	standard switch adapter
SUS	suspended
S-VOL	secondary volume, source volume
SVP	service processor
TC	Hitachi TrueCopy
TCz	Hitachi TrueCopy for Mainframe
TI	Hitachi Thin Image
TOV	time-out value
TPF	Transaction Processing Facility
TS	Technical Support

TSE-VOL	track-space-efficient volume
T-VOL	target volume
UR	Hitachi Universal Replicator
URz	Hitachi Universal Replicator for Mainframe
USP V/VM	Hitachi Universal Storage Platform V/VM
UVM	Universal Volume Manager
VSP	Hitachi Virtual Storage Platform
VSP G1000	Hitachi Virtual Storage Platform G1000
VSP Gx00	Hitachi Virtual Storage Platform G200, G400, G600, G800
V-VOL	virtual volume

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