

OPTION & FIRMWARE VERSION SECTION

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NOTICE: Unless otherwise stated, "firmware version" in this section indicates DKCMAIN firmware.

1. Relationship between Option and Firmware Version

1.1 Hardware Option

When mounting the following options, update the firmware version to the version that supports the corresponding options in advance.

Refer to FIRMWARE SECTION "3. Update Firmware" for the firmware version update.

Note that the corresponding control function is indispensable.

NOTICE: If unsupported drives are mounted, critical failure can occur. Check that the drives are supported by which Storage System model and firmware version, and mount the drives on the Storage System with firmware supporting them.

Table 1-1 Correspondence Table of Hardware Options and Firmware Versions

Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)				
			VSP G130(*2)	VSP G350	VSP G370	VSP G700	VSP G900
4U Controller	DW850-CBL	VSP G700, G900 model RAID Controller Chassis	N/A	N/A	N/A	○	○
2U Controller	DW800-CBSS	VSP G130, G350, G370 model RAID 2.5" Controller Chassis	○	○	○	N/A	N/A
	DW800-CBSL	VSP G130, G350, G370 model RAID 3.5" Controller Chassis	○	○	○	N/A	N/A
Controller	DW-F850-CTLH2	VSP G900 Controller	N/A	N/A	N/A	N/A	○
	DW-F850-CTLH1	VSP G700 Controller	N/A	N/A	N/A	○	N/A
	DW-F850-CTLSH	VSP G370 Controller	N/A	N/A	○	N/A	N/A
	DW-F850-CTLSHE	VSP G370 Controller (Encryption)	N/A	N/A	○	N/A	N/A
	DW-F850-CTLS	VSP G350 Controller	N/A	○	N/A	N/A	N/A
	DW-F850-CTLSE	VSP G350 Controller (Encryption)	N/A	○	N/A	N/A	N/A
	DW-F850-CTLXSFA	VSP G130 Controller (Fibre Channel)	○	N/A	N/A	N/A	N/A
	DW-F850-CTLXSSA	VSP G130 Controller (iSCSI(Optic))	○	N/A	N/A	N/A	N/A
	DW-F850-CTLXSCA	VSP G130 Controller (iSCSI(Copper))	○	N/A	N/A	N/A	N/A

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)				
			VSP G130(*2)	VSP G350	VSP G370	VSP G700	VSP G900
Drive Box	DW-F800-DBSC	Drive Boxes	○	○	○	○	○
	DW-F800-DBLC		○	○	○	○	○
	DW-F800-DB60C		N/A	○	○	○	○
	DW-F800-DBF		N/A	N/A	N/A	○	○
Channel Board Box	DW-F800-CHBB	Channel Board Box	N/A	N/A	N/A	N/A	○
Connection cables	DW-F800-SCQ1	SAS cables	○	○	○	○	○
	DW-F800-SCQ1F		○	○	○	○	○
	DW-F800-SCQ3		○	○	○	○	○
	DW-F800-SCQ5		○	○	○	○	○
	DW-F800-SCQ10A	Optical cables	○	○	○	○	○
	DW-F800-SCQ30A		○	○	○	○	○
	DW-F800-SCQ1HA		○	○	○	○	○
Backup	DW-F850-BM15	Cache Flash Memory for backup	N/A	○	○	N/A	N/A
	DW-F850-BM35		N/A	N/A	N/A	○	○
	DW-F850-BM45		N/A	N/A	N/A	N/A	○
	DW-F800-BAT	Battery	N/A	○	○	○	○
Rack (*1)	A-6516-RKU	Rack frame	○	○	○	○	○
	DW-F800-RRCB	Rack rail	○	○	○	○	○
	DW-F800-RRDB		○	○	○	○	○
	A-F6516-STBL	Stabilizer	○	○	○	○	○
PCIe cable	DW-F800-PC1F	PCIe cable	N/A	N/A	N/A	N/A	○

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)				
			VSP G130(*2)	VSP G350	VSP G370	VSP G700	VSP G900
Channel option	DW-F800-4HF32R	FC 32 Gbps Channel Board	N/A	○	○	○	○
	DW-F800-2HS10S	iSCSI 10 Gbps Optic Channel Board	N/A	○	○	○	○
	DW-F800-2HS10B	iSCSI 10 Gbps Copper Channel Board	N/A	○	○	○	○
	DKC-F810I-1PL16	Small Form-Factor Pluggable for 16 Gbps Longwave	N/A	○	○	○	○
	DKC-F810I-1PS16	Small Form-Factor Pluggable for 16 Gbps Shortwave	N/A	○	○	○	○
	DKC-F810I-1PS32	Small Form-Factor Pluggable for 32 Gbps Shortwave	N/A	○	○	○	○
	DW-F800-1HP8	PCIe Channel Board	N/A	N/A	N/A	N/A	○
Cache option	DW-F850-CM16G	Cache memory (16 GB)	N/A	○	N/A	○	N/A
	DW-F850-CM32G	Cache memory (32 GB)	N/A	○	○	○	○
	DW-F850-CM64G	Cache memory (64 GB)	N/A	N/A	○	N/A	○
Disk Board	DW-F800-BS12G	Disk Boards	N/A	N/A	N/A	○	○
	DW-F800-BS12GE	Encryption Disk Boards	N/A	N/A	N/A	○	○

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)				
			VSP G130(*2)	VSP G350	VSP G370	VSP G700	VSP G900
2.5" SAS-HDD	DKC-F810I-600JCMC	SFF SAS	○	○	○	○	○
	DKC-F810I-1R2JCMC	Disk Drive	○	○	○	○	○
	DKC-F810I-2R4JGM		○	○	○	○	○
3.5" NLSAS-HDD	DKC-F810I-1R2J7MC	LFF SAS	N/A	○	○	○	○
	DKC-F810I-2R4J8M	Disk Drive	N/A	○	○	○	○
	DKC-F810I-6R0H9M		○	○	○	○	○
	DKC-F810I-6R0HLM		N/A	○	○	○	○
	DKC-F810I-10RH9M		○	○	○	○	○
	DKC-F810I-10RHLM		N/A	○	○	○	○
Flash Drive	DKC-F810I-480MGM	Flash Drive	○	○	○	○	N/A
	DKC-F810I-960MGM		○	○	○	○	○
	DKC-F810I-1R9MGM		○	○	○	○	○
	DKC-F810I-3R8MGM		○	○	○	○	○
	DKC-F810I-7R6MGM		○	○	○	○	○
	DKC-F810I-15RMGM		○ (*2)	○ (*2)	○ (*2)	○ (*2)	○ (*2)
Flash Module Drive	DKC-F810I-3R2FN	3.5 TB Flash Module Drive	N/A	N/A	N/A	○	○
	DKC-F810I-7R0FP	7 TB Flash Module Drive	N/A	N/A	N/A	○	○
	DKC-F810I-14RFP	14 TB Flash Module Drive	N/A	N/A	N/A	○	○

*1: For information about the Hitachi Universal V2 rack used with HDS VSP Storage Systems, see the Hitachi Universal V2 Rack Reference Guide, MK-97RK000-00.

*2: The firmware version of 88-02-01-x0/xx or more is supported.

1.2 Software Package and Program Product

Table 1-2 Correspondence Table of Software Package and Firmware Versions (VSP F350, F370, F700, F900)

#	Software package	Description	Model (○ : Supported, N/A: Unsupported)				Software package required
			VSP F350	VSP F370	VSP F700	VSP F900	
1	Hitachi Foundation Suite	A suite to manage the resources of the Storage System. Performs the basis settings and provides the basic functions required for operating the storage system including local copy and tier virtualization.	○	○	○	○	—
2	Hitachi Advanced Suite	A suite consisting of the following: • Hitachi Foundation Suite (#1) • Hitachi Remote Data Protection (#3) • global-active device (#4)	○	○	○	○	—
3	Hitachi Remote Data Protection	Provides the function to create replica volumes at remote sites not via a server and the disaster recovery function in a 3-data center configuration.	○	○	○	○	#1
4	global-active device	Provides the function to create volume pairs by two Storage Systems and retain the same data.	○	○	○	○	#1
5	Hitachi Encryption License Key	Provides the function to encrypt the data stored in the Storage System.	○	○	○	○	#1 or #2
6	Hitachi Volume Migration	Provides the function to migrate data from an old model.	○	○	○	○	#1 or #2

The program products included in each software package are shown below.

Table 1-3 Correspondence Table of Software Package and Program Product (VSP F350, F370, F700, F900 Model)

Program product	Software package (○ : Included, N/A: Not included)					
	Hitachi Foundation Suite	Hitachi Advanced Suite	Hitachi Remote Data Protection	global-active device	Hitachi Encryption License Key	Hitachi Volume Migration
dedupe and compression	○	○	N/A	N/A	N/A	N/A
Hitachi Open Volume Management Software	○	○	N/A	N/A	N/A	N/A
Hitachi Storage Advisor	○	○	N/A	N/A	N/A	N/A
Hitachi LUN Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Performance Monitor Software	○	○	N/A	N/A	N/A	N/A
Hitachi Server Priority Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Device Manager - Storage Navigator	○	○	N/A	N/A	N/A	N/A
Hitachi SNMP Agent Software	○	○	N/A	N/A	N/A	N/A
Hitachi Data Retention Utility Software	○	○	N/A	N/A	N/A	N/A
Hitachi Volume Shredder Software	○	○	N/A	N/A	N/A	N/A
Hitachi JAVA API Software	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Provisioning Software	○	○	N/A	N/A	N/A	N/A
Hitachi Universal Volume Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Virtual Partition Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Resource Partition Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Device Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Configuration Manager	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Link Manager Software (*1)	○	○	N/A	N/A	N/A	N/A
Hitachi Global Link Manager Software (*1)	○	○	N/A	N/A	N/A	N/A
Hitachi Infrastructure Analytics Advisor (No nodes licenses included)	○	○	N/A	N/A	N/A	N/A
Hitachi Data Center Analytics (No nodes licenses included)	○	○	N/A	N/A	N/A	N/A
Hitachi Tuning Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Tiering Software	○	○	N/A	N/A	N/A	N/A
active flash	○	○	N/A	N/A	N/A	N/A
Hitachi Tiered Storage Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Volume Migration V2 Software	○	○	N/A	N/A	N/A	N/A
nondisruptive migration	○	○	N/A	N/A	N/A	N/A
Hitachi ShadowImage Software	○	○	N/A	N/A	N/A	N/A
Hitachi Thin Image Software	○	○	N/A	N/A	N/A	N/A
Hitachi Replication Manager Software	○	○	○	○	N/A	N/A
Hitachi TrueCopy Software	N/A	○	○	N/A	N/A	N/A
Hitachi Universal Replicator Software	N/A	○	○	N/A	N/A	N/A
Remote Replication Extended	N/A	○	○	N/A	N/A	N/A
global-active device	N/A	○	N/A	○	N/A	N/A
Hitachi Encryption License Key	N/A	N/A	N/A	N/A	○	N/A
Hitachi Volume Migration	N/A	N/A	N/A	N/A	N/A	○

*1: Included only in VSP F900.

The following licenses are provided separately from software packages.

Program Product	Description
All Flash Array	This is a program product necessary for VSP F350, F370, F700, and F900, which is installed at the time of shipment from the factory.

Table 1-4 Correspondence Table of Software Package and Firmware Versions (VSP G350, G370, G700, G900)

#	Software package	Description	Model (○ : Supported, N/A: Unsupported)				Software package required
			VSP G350	VSP G370	VSP G700	VSP G900	
1	Hitachi Foundation Suite	A suite to manage the resources of the Storage System. Performs the basis settings and provides the basic functions required for operating the storage system including local copy and tier virtualization.	○	○	○	○	—
2	Hitachi Advanced Suite	A suite consisting of the following: • Hitachi Foundation Suite (#1) • Hitachi Remote Data Protection (#3) • global-active device (#4)	○	○	○	○	—
3	Hitachi Remote Data Protection	Provides the function to create replica volumes at remote sites not via a server and the disaster recovery function in a 3-data center configuration.	○	○	○	○	#1
4	global-active device	Provides the function to create volume pairs by two Storage Systems and retain the same data.	○	○	○	○	#1
5	Hitachi Encryption License Key	Provides the function to encrypt the data stored in the Storage System.	○	○	○	○	#1 or #2
6	Hitachi Volume Migration	Provides the function to migrate data from an old model.	○	○	○	○	#1 or #2

The program products included in each software package are shown below.

Table 1-5 Correspondence Table of Software Package and Program Product (VSP G350, G370, G700, G900 Model)

Program product	Software package (○ : Included, N/A: Not included)					
	Hitachi Foundation Suite	Hitachi Advanced Suite	Hitachi Remote Data Protection	global-active device	Hitachi Encryption License Key	Hitachi Volume Migration
dedupe and compression	○	○	N/A	N/A	N/A	N/A
Hitachi Open Volume Management Software	○	○	N/A	N/A	N/A	N/A
Hitachi Storage Advisor	○	○	N/A	N/A	N/A	N/A
Hitachi LUN Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Performance Monitor Software	○	○	N/A	N/A	N/A	N/A
Hitachi Server Priority Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Device Manager - Storage Navigator	○	○	N/A	N/A	N/A	N/A
Hitachi SNMP Agent Software	○	○	N/A	N/A	N/A	N/A
Hitachi Data Retention Utility Software	○	○	N/A	N/A	N/A	N/A
Hitachi Volume Shredder Software	○	○	N/A	N/A	N/A	N/A
Hitachi JAVA API Software	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Provisioning Software	○	○	N/A	N/A	N/A	N/A
Hitachi Universal Volume Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Virtual Partition Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Resource Partition Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Device Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Configuration Manager	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Link Manager Software (*1)	○	○	N/A	N/A	N/A	N/A
Hitachi Global Link Manager Software (*1)	○	○	N/A	N/A	N/A	N/A
Hitachi Infrastructure Analytics Advisor (No nodes licenses included)	○	○	N/A	N/A	N/A	N/A
Hitachi Data Center Analytics (No nodes licenses included)	○	○	N/A	N/A	N/A	N/A
Hitachi Tuning Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Dynamic Tiering Software	○	○	N/A	N/A	N/A	N/A
active flash	○	○	N/A	N/A	N/A	N/A
Hitachi Tiered Storage Manager Software	○	○	N/A	N/A	N/A	N/A
Hitachi Volume Migration V2 Software	○	○	N/A	N/A	N/A	N/A
nondisruptive migration	○	○	N/A	N/A	N/A	N/A
Hitachi ShadowImage Software	○	○	N/A	N/A	N/A	N/A
Hitachi Thin Image Software	○	○	N/A	N/A	N/A	N/A
Hitachi Replication Manager Software	○	○	○	○	N/A	N/A
Hitachi TrueCopy Software	N/A	○	○	N/A	N/A	N/A
Hitachi Universal Replicator Software	N/A	○	○	N/A	N/A	N/A
Remote Replication Extended	N/A	○	○	N/A	N/A	N/A
global-active device	N/A	○	N/A	○	N/A	N/A
Hitachi Encryption License Key	N/A	N/A	N/A	N/A	○	N/A
Hitachi Volume Migration	N/A	N/A	N/A	N/A	N/A	○

*1: Included only in VSP G900.