



Hitachi Solution for the SAP HANA Platform Support Matrix

Note: Configurations added since the last matrix release are shown in **red** text.

Introduction

Use this interoperability matrix to verify whether a proposed customer configuration is supported. The Hitachi Solution for the SAP HANA Platform Support Matrix is the official support matrix for Hitachi Unified Compute Platform for the SAP HANA Platform (UCP for SAP HANA) or Hitachi Solution for the SAP HANA Platform in a scale-up or scale-out configuration. SAP Solutions Engineering at Hitachi Vantara validates this matrix. It covers the following:

- SAP-certified appliance configuration
- Supported server configuration for SAP HANA tailored data center integration (TDI)
- Validated enterprise storage configuration for SAP HANA TDI
- Supported operating system and upgrade path

If a combination does not appear on the operating system support matrix, the customer's Hitachi Vantara Sales Engineer (SE) or other field service employee must submit an Interoperability Support Request in order to gain support for the new configuration.

In this document, "N/A" stands for "Not Applicable." If you see "Not Supported," it means that Hitachi Vantara LLC does not support the configuration.

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SAP-Certified Appliance Configuration
Certified Scale-up Appliance Configurations using Hitachi Advanced Server

Configuration	Hitachi Advanced Server				
	D57160 (Cascade Lake 8276 or 8280 Base or Large Processor)	D57000 (Cascade Lake 8276 or 8280 Base, Medium or Large Processor)	D5220 (Cascade Lake 8276 or 8280 Base, Medium or Large Processor)	D57000 (Skylake 8176 or 8176M or 8180 or 8180M Processor)	D5220 (Skylake 8176 or 8176M Processor)
RAM size	6144 GB – 24576 GB	384 GB – 12 TB	2S/768 GB, 2S/1536 GB, 2S/3072 GB	384 GB – 12 TB	2S/768 GB, 2S/1536 GB, 2S/3072 GB
NIC certified with Appliance	Mellanox Connect X4-LX	Mellanox Connect X4-LX	Intel XXV710 NIC	Mellanox Connect X4-LX	Intel XXV710 NIC
HBA	Broadcom Lpe31002-M6	Broadcom Lpe31002-M6	Broadcom Lpe31002-M6	Broadcom Lpe31002-M6	Broadcom Lpe31002-M6
RAID Card			AVAGO MegaRAID SAS PCIe ROMB-QS-3516B controller card		Broadcom 9460-16i MegaRAID storage controller card
Internal Storage			1.92 TB Intel S4510 SATA		1.92TB Intel S4500 SATA
Chassis or Rack Mount	DS7160	Supports SLES 15 SP1*			
	DS7000		Supports SLES 12 SP4*, SLES15SP1*, RHEL 7.6*, RHEL 8.1*		Supports SLES 12 SP2*, SLES 12 SP3*, SLES12 SP4*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*
	DS220 (Internal Drive)		Supports SLES 12 SP4*, SLES 15 SP1*, RHEL 7.6*, RHEL 8.1*		Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 15 SP1*, RHEL 7.3*, RHEL 7.4*, RHEL7.6*, RHEL 8.1*
Storage	AMS 2100				
	HUS 130				
	HUS VM				
	VSP G200			Supports SLES 12 SP2*, SLES 12 SP3*, RHEL 7.4*	
	VSP G350	Supports SLES 15 SP1*	Supports SLES 12 SP4*, SLES 15SP1*, RHEL 8.1		Supports SLES 12 SP3*, SLES12 SP4*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*

Certified Scale-up Appliance Configurations using Hitachi Server Blade

Configuration	Hitachi Server Blade				
	S20X B3 (Broadwell E7 v4) **	S20X B2 (Haswell E7 v3) **	S20X B1 Ivy Bridge E7 v2) **	X57A2 ** (Westmere)	
RAM size	256 GB - 8 TB	128 GB - 6 TB	128 GB - 6 TB	256 GB -1 TB	
NIC certified with Appliance	Intel NIC	Intel NIC	Emulex LOM	Intel NIC	
HBA	Hitachi HBA	Hitachi HBA	Hitachi HBA	Emulex LPe12002-M6	
Fusion-io ioDrive2				Supported	
RAID Card					
Internal Storage					
Chassis or Rack Mount	CB 2500	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*		
	CB 500			Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*	
	CB 2000				Supports SLES 11 SP4*
Storage	AMS 2100				Supports SLES 11 SP4*
	HUS 130				Supports SLES 11 SP4*
	HUS VM			Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL7.6	
	VSP G200	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*		

* Indicates operating system general support active for the operating system listed.

SAP-Certified Appliance Configuration: Certified Scale-out Configurations

Configuration	Hitachi Advanced Server			Hitachi Server Blade		
	DS7040 (Cascade Lake 8276/8276L or 8280/8280L)	DS7040 (Skylake 8176 or 8176M or 8180 or 8180M)	520X B3 (Broadwell E7 v4) **	520X B2 (Haswell E7 v3) **	520X B1 Ivy Bridge E7 v2) **	X57A2 ** (Westmere E7)
RAM (per node)	4S/3 TB, 4S/1.5 TB	4S/3 TB, 4S/1.5 TB	4S/512 GB, 4S/1 TB, 4S/1.5 TB, 4S/2 TB, 8S/1 TB, 8S/2 TB, 8S/3 TB, 8S/4 TB, 8S/6 TB, 8S/8 TB	4S/512 GB, 4S, 1 TB, 4S/1.5 TB, 4S/2 TB, 8S/1 TB, 8S/2 TB, 8S/3 TB, 8S/4 TB	4S/1 TB, 8S/2 TB	4S/0.5 TB, 8S/1 TB
NIC certified with appliance	Mellanox Connect X4-LX	Mellanox Connect X4-LX	Intel NIC	Intel NIC	Emulex LOM	Intel NIC
HBA	Broadcom Lpe31002-M6	Broadcom Lpe31002-M6	Hitachi HBA	Hitachi HBA	Hitachi HBA	Emulex LPe12002-M8
Chassis or Rack Mount	DS7040	SLES 12 SP4*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.4*, RHEL 7.6*			
	CB 2500		Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.4*, RHEL 7.6*, RHEL 7.7*	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*		
	CB 500				Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*	
	CB 2000					Supports SLES 11 SP4
Storage	VSP G700	Supports 4S/3 TB, 4S/1.5 TB	Supports 4S/3 TB, 4S/1.5 TB			
	VSP				Supports 8S/2 TB Nodes	Supports 4S/0.5 TB, 8S/1 TB nodes
	HUS VM				Supports 4S/1 TB nodes	
	VSP G800			Supports 4S/512 GB, 4S/1 TB, 4S/1.5 TB, 4S/2 TB, 8S/1 TB, 8S/2 TB, 8S/3 TB, 8S/4 TB, 8S/6 TB, 8S/8 TB	Supports 4S/512 GB, 4S, 1 TB, 4S/1.5 TB, 4S/2 TB	
	VSP G1000				Supports 8S/1TB, 8S/2TB, 8S/3 TB, 8S/4 TB	
Hitachi NAS Platform	HNAS 3080 (EOL)				Supported	Supported
	HNAS 4060			Supported	Supported	Supported
SMU	Physical (EOL)				Supported	Supported
	Virtual			Supported	Supported	Supported
Switches	VDX6720-48			Supported	Supported	Supported
	VDX6720-24 (EOL)				Supported	Supported
	ICX-6430-48			Supported	Supported	Supported
	ICX-6430-24			Supported	Supported	Supported
	Cisco Nexus 93180YC-EX switch	Supported	Supported			
	Cisco Nexus 3048 switch	Supported	Supported			
Super scale-out	Contact Engineering for support details	Contact Engineering for support details	Contact Engineering for support details	Contact Engineering for support details		

* Indicates operating system general support active for the operating system listed.

** Indicates the product is EOL.

A blank indicates the particular server or storage is not certified in that Unified Compute Platform for SAP HANA configuration.

Supported Server Configuration for SAP HANA Tailored Data Center Integration (TDI) Solution
Bare Metal Scale-up or Scale-out SAP HANA TDI Solution

Server Generation	Scale-up Configurations					Scale-out Configuration		
	Hitachi Advanced Server DS7000, DS220, or DS240	Rack Optimized Server for Solutions, 2U Single Node	Hitachi Blade Server Chassis		Hitachi Advanced Server DS7040	Hitachi Blade Server Chassis		
			CB 2500	CB 500		CB 2500	CB 500	
520X B3 (Broadwell E7 v4)	N/A	N/A	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	Supports SLES 12 SP1	N/A	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.4*, RHEL 7.7*	Not Supported	
520X B2 (Haswell E7 v3)	N/A	N/A	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	Supports SLES 12 SP1	N/A	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	Not Supported	
520X B1 (Ivy Bridge E7 v2)	N/A	N/A	Not Supported	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	N/A	Not Supported	Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.2, RHEL 7.3*, RHEL 7.4*	
520H B4 (Broadwell E5 v4)	N/A	N/A	Supports SLES 12, SLES 12 SP1, RHEL 7.2	Supports SLES 12, SLES 12 SP1, RHEL 7.2	N/A	Not Supported	Not Supported	
520H B3 (Haswell E5 v3)	N/A	N/A	Supports SLES 12, SLES 12 SP1, RHEL 7.2	Supports SLES 12, RHEL 7.2	N/A	Not Supported	Not Supported	
520H B2 (Ivy Bridge E5 v2)	N/A	N/A	Not Supported	Supports SLES 12, RHEL 7.2	N/A	Not Supported	Not Supported	
D51B-2U (Broadwell E5 v4)		Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2, RHEL 7.6*	N/A	N/A	N/A	N/A		
D51B-2U (Haswell E5 v3)		Supports SLES 12, SLES 12 SP1, SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 12 SP5*, RHEL 7.2*, RHEL 7.6*	N/A	N/A	N/A	N/A		
Hitachi Advanced Server DS220 (Skylake)	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 15 SP1*, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS240 (Skylake)	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7020/DS7040/DS7080 (Skylake)	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 15 SP1*, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7040 (Skylake)	N/A	N/A	N/A	N/A	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, RHEL 7.4*, RHEL 7.6*	N/A	N/A	
Hitachi Advanced Server DS220 (Cascade Lake)	Supports SLES 12 SP4*, SLES 15 SP1*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7020/DS7040/DS7080 (Cascade Lake)	Supports SLES 12 SP2*, SLES 12 SP3*, SLES 12 SP4*, SLES 15 SP1*, RHEL 7.3*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7020/DS7040/DS7080 (Cascade Lake) with DCPMM	Supports SLES 12 SP4*, RHEL RHEL 7.6*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7160 using eXternal Node Controller	SLES15 SP1*	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS7040 (Cascade Lake)	N/A	N/A	N/A	N/A	SLES 12 SP4*, RHEL 7.4*, RHEL 7.6*, RHEL 8.1*	N/A	N/A	

* Indicates operating system general support is active for the operating system listed.

For each server blade used for a scale-up or scale-out bare metal SAP HANA TDI implementation, the supported memory size is same as listed in the certified appliance configuration.

Supported Server Configuration for SAP HANA on Hitachi Unified Compute Platform HC Solution

Server Configuration for VMware vSphere			
CPU Generation	Hitachi Advanced Server	Hitachi Blade Server Chassis	
		CB 2500	CB 500
DS240 (Cascade Lake)	Supports ESXi 6.7 U3 - SLES 12 SP4	NA	NA

**Supported Server Configuration for SAP HANA Tailored Data Center
Virtualized TDI Solution for SAP HANA Integration (TDI) Solution**

Server Configuration for VMware vSphere				Server Configuration for a Virtualized TDI Solution for SAP HANA with LPAR		
CPU Generation	Hitachi Advanced Server	Hitachi Blade Server Chassis		Server Blade	Hitachi Blade Server Chassis	
		CB 2500	CB 500		CB 2500	CB 500
DS7000 (Skylake)	Supports ESXi 6.7 U3 SLES 12 SP3, RHEL 7.4	NA	NA	520X B3 (Broadwell E7 v4)	Supports HVM 9.6, SLES 12, SLES 12 SP1, SLES 12 SP2, SLES 12 SP3, SLES 12 SP4, RHEL 7.2	Not Supported
DS7000 (Cascade Lake)	Supports ESXi 6.7 U3 SLES 12 SP4, SLES15SP1 RHEL 7.6	NA	NA			
DS220 (Skylake)	Supports ESXi 6.7 U3 SLES 12 SP2, SLES12 SP3, RHEL 7.3, RHEL 7.4	NA	NA	520X B2 (Haswell E7 v3)	Supports HVM 9.6, SLES 12, SLES 12 SP1, SLES 12 SP2, SLES 12 SP3, SLES 12 SP4, RHEL 7.2	Not Supported
DS240 (Skylake)	Supports ESXi 6.7 U3 SLES 12 SP3, RHEL 7.4	NA	NA	520X B1 (Ivy Bridge E7 v2)	Not Supported	Supports SLES 11 SP3
520X B3 (Broadwell E7 v4)	NA	Supports ESX6.0.2, SLES 12, SLES 12 SP1, SLES 12 SP2, SLES 12 SP3, RHEL 7.2	Not Supported			
520X B2 (Haswell E7 v3)	NA	Supports ESX6.0.2, SLES 12, SLES 12 SP1, SLES 12 SP2, RHEL 7.2	Not Supported			
520X B1 (Ivy Bridge E7 v2)	NA	Not Supported	Supports VMware ESXi 5.5, SLES 11 SP3, RHEL 6.6			

Supported Storage Configuration for SAP HANA Tailored Data Center Integration (TDI) Solution

Hitachi Enterprise Storage	Number of Nodes Certified	Certification Scenario
VSP G200 with SAS HDD	2	HANA-HWC-ES 1.1
VSP G400 with SAS HDD	7	HANA-HWC-ES 1.0
VSP F400, VSP G400 with flash	16	HANA-HWC-ES 1.1
VSP G600 with SAS HDD	11	HANA-HWC-ES 1.0
VSP G800 with SAS HDD	16	HANA-HWC-ES 1.0
VSP G1000 with SAS HDD	16 per single frame	HANA-HWC-ES 1.1
VSP G1500 with SAS HDD	16 per single frame	HANA-HWC-ES 1.1
VSP F1500, VSP G1500 with flash	64 per single frame; 128 per dual frame	HANA-HWC-ES 1.1
VSP F600 or VSP G600 with flash	28	HANA-HWC-ES 1.1
VSP F600 or VSP G600 with SSD	28	HANA-HWC-ES 1.1
VSP F400 or VSP G400 with SSD	16	HANA-HWC-ES 1.1
VSP G200 with SSD	8	HANA-HWC-ES 1.1
VSP G350 with SAS HDD	3	HANA-HWC-ES 1.1
VSP G350, F350 with SSD	16	HANA-HWC-ES 1.1
VSP G370 with SAS HDD	3	HANA-HWC-ES 1.1
VSP G370, VSP F370 with SSD	16	HANA-HWC-ES 1.1
VSP G700 with SAS HDD	13	HANA-HWC-ES 1.1
VSP G700, VSP F700 with SSD	34	HANA-HWC-ES 1.1
VSP G900, VSP F900 with SSD	40	HANA-HWC-ES 1.1
VSP 5100/5100H with SSD	37	HANA-HWC-ES 1.1
VSP 5500/5500H one pair nodes with SSD	74	HANA-HWC-ES 1.1
VSP 5500/5500H two pair nodes with SSD	148	HANA-HWC-ES 1.1
VSP 5500/5500H three pair nodes with SSD	222	HANA-HWC-ES 1.1
VSP E990 with NVMe SSD	50	HCMT-v46

Refer to "SAP Note 1943937 — Hardware Configuration Check Tool - Central Note" for further details on the differences between HANA-HWC-ES 1.1 and HANA-HWC-ES 1.0. This link requires SAP user access.

Refer to "2493172 - SAP HANA Hardware and Cloud Measurement Tools" for details of HCMT. This link requires SAP user access

Supported Operating Systems

Operating System and Version	Cascade Lake	Skylake	Broadwell	Haswell	Ivy Bridge	Westmere
SUSE Linux Enterprise Server 11 SP1 (EOSL)	No	No	No	No	No	Yes
SUSE Linux Enterprise Server 11 SP2 (EOSL)	No	No	No	No	Yes	Yes
SUSE Linux Enterprise Server 11 SP3 (EOSL)	No	No	No	Yes	Yes	Yes
SUSE Linux Enterprise Server 11 SP4*	No	No	No	SAP HANA certification only	SAP HANA certification only	Yes (Upgrade only)
SUSE Linux Enterprise Server 12 (EOSL)	No	No	Yes	Yes	Yes (Upgrade Only)	No
SUSE Linux Enterprise Server 12 SP1 (EOSL)	No	No	Yes	Yes	Yes (Upgrade Only)	No
SUSE Linux Enterprise Server 12 SP2*	No	Yes (DS220, DS7000)	Yes	Yes (Upgrade Only)	Yes (Upgrade Only)	No
SUSE Linux Enterprise Server 12 SP3*	No	Yes (DS240, DS220, DS7000 scale-up only)	Yes (Upgrade Only)	Yes (Upgrade Only)	Yes (Upgrade Only)	No
SUSE Linux Enterprise Server 12 SP4*	Yes (DS220, DS7000)	Yes (DS220, DS7000)	Yes (Upgrade Only)	Yes (Upgrade Only)	Yes (Upgrade Only)	No
SUSE Linux Enterprise Server 12 SP5*	No	No	Yes (Upgrade Only)	Yes (Upgrade Only)	No	No
SUSE Linux Enterprise Server 15 SP1*	Yes (DS7000, DS7160)	No	TBD	TBD	No	No
Red Hat Enterprise Linux 6.5 (EOSL)	No	No	No	No	Yes (scale-up only)	No
Red Hat Enterprise Linux 6.6 (EOSL)	No	No	No	Yes	Yes	No
Red Hat Enterprise Linux 6.7 (EOSL)	No	No	No	No	No	No
Red Hat Enterprise Linux 7.2 (EOSL)	No	No	Yes	Yes	Yes (upgrade only)	No
Red Hat Enterprise Linux 7.3*	No	Yes (DS220 only)	Yes (upgrade for scale-up only)	Yes (upgrade only)	Yes (upgrade only)	No
Red Hat Enterprise Linux 7.4*	No	Yes (DS7000, DS240, DS220)	Yes (upgrade for scale-up only)	Yes (upgrade only)	Yes (upgrade only)	No
Red Hat Enterprise Linux 7.6*	Yes (DS220, DS7000)	Yes (DS220, DS7000)	Yes (Upgrade Only)	Yes (Upgrade Only)	Yes (Upgrade Only)	No
Red Hat Enterprise Linux 7.7*	No	No	TBD	TBD	No	No
Red Hat Enterprise Linux 8.1*	Yes (DS220, DS7000)	Yes (DS220, DS7000)	No	No	No	No
VMware ESXi 5.5 U1(EOSL)	No	No	No	No	Yes	No
VMware ESXi 5.5 U2 (EOSL)	No	No	No	Yes	Yes	No
VMware ESXi 6.0 U2*	No	No	Yes	Yes	Yes (Upgrade only)	No
VMware ESXi 6.7 U3*	Yes	Yes	Yes (Upgrade only)	Yes (Upgrade only)	No	No

* Indicates operating system general support active for the operating system listed.

Supported Operating System Upgrade Path

Upgrade Path	CascadeLake	Skylake	Broadwell	Haswell	Ivy Bridge	Westmere
SUSE Linux Enterprise Server 11 SP1 to SUSE Linux Enterprise Server 11 SP2	No	No	No	No	No	Yes
SUSE Linux Enterprise Server 11 SP2 to SUSE Linux Enterprise Server 11 SP3	No	No	No	No	Yes	Yes
SUSE Linux Enterprise Server 11 SP3 to SUSE Linux Enterprise Server 11 SP4	No	No	No	No	No	Yes
SUSE Linux Enterprise Server 11 SP3 to SUSE Linux Enterprise Server 12 SP0	No	No	No	Yes	Yes	No
SUSE Linux Enterprise Server 11 SP4 to SUSE Linux Enterprise Server 12 SP0	No	No	No	No	No	No
SUSE Linux Enterprise Server 11 SP3 to SUSE Linux Enterprise Server 12 SP1	No	No	No	Yes	Yes	No
SUSE Linux Enterprise Server 11 SP4 to SUSE Linux Enterprise Server 12 SP1	No	No	No	No	No	No
SUSE Linux Enterprise Server 12 SP0 to SUSE Linux Enterprise Server 12 SP1	No	3	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 12 SP0 to SUSE Linux Enterprise Server 12 SP2	No	No	No	No	No	No
SUSE Linux Enterprise Server 12 SP1 to SUSE Linux Enterprise Server 12 SP2	No	No	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 12 SP2 to SUSE Linux Enterprise Server 12 SP3	No	Yes (DS220 and DS7000 scale-up only)	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 12 SP3 to SUSE Linux Enterprise Server 12 SP4	No	Yes (DS220, DS7000 scale-up)	Yes	Yes	Yes	No
SUSE Linux Enterprise Server 12 SP4 to SUSE Linux Enterprise Server 12 SP5	No	No	Yes	Yes	No	No
SUSE Linux Enterprise Server 12 SP4 to SUSE Linux Enterprise Server 15 SP1	Yes (DS7000 scale-up)	No	No	No	No	No
Red Hat Enterprise Linux 6.5 to Red Hat Enterprise Linux 6.6	No	No	No	No	Yes (scale-up only)	No
Red Hat Enterprise Linux 6.6 to Red Hat Enterprise Linux 7.2	No	No	No	Yes	Yes	No
Red Hat Enterprise Linux 7.2 to Red Hat Enterprise Linux 7.3	No	No	Yes (scale-up only)	Yes	Yes	No
Red Hat Enterprise Linux 7.3 to Red Hat Enterprise Linux 7.4	No	Yes (DS220 scale-up only)	Yes (scale-up only)	Yes	Yes	No
Red Hat Enterprise Linux 7.4 to Red Hat Enterprise Linux 7.6	No	Yes (DS7000, DS220 scale-up)	Yes	Yes	Yes	No
Red Hat Enterprise 7.6 to Red Hat Enterprise Linux 7.7	No	No	TBD	TBD	No	No
Red Hat Enterprise Linux 7.6 to Red Hat Enterprise Linux 8.1 *	No	No	No	No	No	No

* Indicates direct path to upgrade from RHEL 7.6 to 8.1 is not supported using Hitachi upgrade media, only fresh RHEL8.1 install supported