

UCP CI Interoperability Matrix				
UCP CI w/ HA800 G3 server				
Hardware				
UCP CI (Release Version)		v9.3		
Release date		April 21, 2025		
Major Windows Server Release:		2025		
Management and Compute Nodes : (HA810 G3)				
Components		Notes		
System ROM		U54 v2.30	Packaged with Media Kit separately	
iLO Firmware		v1.63		
CPU Family		Sapphire Rapids/Emerald Rapids		
Compute Nodes : (HA820 G3)				
Components		Notes		
System ROM		U54 v2.30	Packaged with Media Kit separately	
iLO Firmware		v1.63		
CPU Family		Sapphire Rapids/Emerald Rapids		
Compute Nodes : (HA840 G3)				
Components		Notes		
System ROM		U59 v2.30		
iLO Firmware		v1.63		
CPU Family		Sapphire Rapids		
I/O Card Support for HA810 G3 / HA820 G3 / HA840 G3				
Components		Notes		
OCP Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T OCP3 Adptr	Firmware	1.3602.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	e1r68x64.sys Driver	Inbox		
INT E810 10/25GbE, 2p, SFP28 OCP3	Firmware	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	icea.sys Driver	Inbox		
MLX MCX562A 10/25GbE, 2p, SFP28 OCP3 Adptr	Firmware	16.35.3006 (SPV 7.42)	Packaged with SPV image v 7.42. This card is not supported for HA840 G3.	
	mlx5.sys Driver	Inbox		
MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	Firmware	26.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlx5.sys Driver	Inbox		
BCM 57412 10GbE 2p SFP+ OCP3	Firmware	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	bnxtnd.sys Driver	230.0.162.0		
BCM 57504 10/25GbE 4p SFP28 OCP3	Firmware	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	bnxtnd.sys Driver	230.0.162.0		
PCIe Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T PCIe Adptr	Firmware	1.3602.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	e1r68x64.sys Driver	Inbox		
INT E810 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	icea.sys Driver	Inbox		
INT E810 10/25GbE, 4p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	icea.sys Driver	Inbox		
INT E810 100GbE, 2p, QSFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	Packaged with SPV image v 7.42. This card is not supported for HA840 G3.	
	icea.sys Driver	Inbox		
MLX MCX631102 10/25GbE 2p SFP28 Adptr	Firmware	26.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlx5.sys Driver	Inbox		
MLX MCX623106AS 100GbE, 2p, QSFP56 Adptr	Firmware	22.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlx5.sys Driver	Inbox		
BCM 57412 10GbE 2p SFP+ Adptr	Firmware	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	bnxtnd.sys Driver	230.0.162.0		
HBA Controller				
HPE SN1200E 16Gb 2p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	Packaged with SPV image v 7.42	
	elxfc.sys Driver	Inbox		
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10	Packaged with SPV image v 7.42	
	elxfc.sys Driver	14.4.313.0		
HPE SN1610Q 32Gb 1p FC HBA	Firmware	02.10.00	Packaged with SPV image v 7.42	
	ql2300.sys Driver	9.4.10.20		
HPE SN1610Q 32Gb 2p FC HBA	Firmware	02.10.00	Packaged with SPV image v 7.42	
	ql2300.sys Driver	9.4.10.20		
HPE SN1700E 64Gb 2P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	Packaged with SPV image v 7.42	
	elxfc.sys Driver	14.4.313.0		
HPE SN1700E 64Gb 1P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	Packaged with SPV image v 7.42	
	elxfc.sys Driver	14.4.313.0		
HPE SN1600E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.2.589.21		
	elxfc.sys Driver	Inbox		
Boot Controller				
NS204i-u (PCIe card)	Firmware	1.2.14.1013	Packaged with SPV image v 7.42	
	Driver	Inbox		
Drives for vSAN Cache and Capacity (Options) for HA 800 G3				
Components		Notes		
		SSD/NVME firmware is packaged and applied with SPV image v 7.42		
For accurate Firmware requirments for SSD and NVMe devices being used for vSAN cache and/or capacity drives, please refer to the following two reference items: 1) VMware Compatibility Guide: Hitachi Vantara vSAN Ready Node listings. (https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vsan&details=1&vsan_type=vsanreadynode&vsan_partner=39&page=1&display_in_terval=10&sortColumn=Partner&sortOrder=Asc) 2) The Service Pack for Vantara (SPV) Content.html file that is inside the SPV iso packaged in the UCP MediaKit, as well as posted on the UCP Download section on the https://support.hitachivantara.com support portal will list all firmware (including firmware for SSD/NVMe devices)				

Vendor			
Arista	DCS-7010T-48-R	4.28.10.1M	
Arista	DCS-7050CX3-32S-R	4.29.5M	
Arista	DCS-7050SX3-48YC8-R	4.29.5M	
Cisco	Nexus 3048	9.3.13	* These Cisco switches are used on UCP CI appliance from v4.0 and prior. * 9.3.7 (Compact NXOS) supported version on 3048.
Cisco	Nexus 93180LC-EX	NXOS 10.3.5	
Cisco	Nexus 93180YC-EX	NXOS 10.3.4a	
Cisco	Nexus 92348GC (1 G Mgmt)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 10.5.1	
Cisco	Nexus 9332C (100G Spine)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 10.5.1	These CISCO switches were added from Version 5.3
Cisco	Nexus 93600CD-GX (100G Spine)	NXOS 10.5.1	
Cisco	Nexus 9316D-GX (400G Spine)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3H (10/25G Leaf)	NXOS 10.5.1	

Storage Models

	Models		Notes
VSP	G200	83-05-54-x0/00	Hitachi Support Page - FCNs
VSP	G400	83-05-54-x0/00	
VSP	G600	83-05-54-x0/00	
VSP	G800	83-05-54-x0/00	
VSP	F400	83-05-54-x0/00	
VSP	F600	83-05-54-x0/00	
VSP	F800	83-05-54-x0/00	
VSP	G350	88-08-16-xx/00	
VSP	G370	88-08-16-xx/00	
VSP	G700	88-08-16-xx/00	
VSP	G900	88-08-16-xx/00	
VSP	F350	88-08-16-xx/00	
VSP	F370	88-08-16-xx/00	
VSP	F700	88-08-16-xx/00	
VSP	F900	88-08-16-xx/00	
VSP	G1000, VSP G1500, VSP F1500	80-06-98-00/20	
VSP	E590	93-07-26-x0/00	
VSP	E790	93-07-26-x0/00	
VSP	E990	93-07-26-x0/00	
VSP	E1090	93-07-26-x0/00	
VSP	5100, 5200, 5500, 5600	90-09-27-00/00	
VSP	One Block 24, 26, 28	A3-03-03-40/00	

* Minimum Level or above

GPU

Vendor			
NVIDIA A2	Firmware	94.07.62.00.AE	
	Driver	N/A	Compatible with HA810 G3
NVIDIA A16	Firmware	94.07.62.00.AD	
	Driver	N/A	Compatible with HA820 G3 only
NVIDIA A100	Firmware	N/A	
	Driver	N/A	Compatible with HA820 G3 only
NVIDIA L4	Firmware	95.04.55.00.01	
	Driver	N/A	Compatible with HA810 G3 & HA820 G3
NVIDIA L40	Firmware	95.02.5D.00.01	
	Driver	N/A	Compatible with HA820 G3 only
NVIDIA L40S	Firmware	95.02.66.00.02	
	Driver	N/A	Compatible with HA820 G3 only
NVIDIA H100	Firmware	96.00.74.00.1C	
	Driver	N/A	Compatible with HA820 G3 only
NVIDIA H100 NVL	Firmware	96.00.88.00.11	
	Driver	N/A	Compatible with HA820 G3 only

Software

Software Versions			
Vendor	Component		Notes
Hitachi	UCP Advisor	4.7	
Downloadable ZIPs			
Vendor	Component		Notes
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20240705.zip	
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20250331.zip	
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	
Hitachi	Server Firmware ZIP	Server_Firmware_HA_20250331.zip	
Hitachi	UCPToolkit ZIP	Toolkit9.2.zip	
Main Mediakit ZIP			
Vendor	Component		Notes
Hitachi	UCP CI Mediakit	UCPCI-HC_BaseMediaKit_v9.3_20250421.zip	

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmlx5_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

FC Switches			
Vendor		Notes	
Brocade	G620	9.2.1a	
Brocade	G720	9.2.1a	
Ethernet Switches			
Vendor			
Arista	DCS-7010T-48-R	4.28.10.1M	
Arista	DCS-7050CX3-32S-R	4.29.5M	
Arista	DCS-7050SX3-48YC8-R	4.29.5M	
Cisco	Nexus 3048	9.3.13	* These Cisco switches are used on UCP CI appliance from v4.0 and prior. * 9.3.7 (Compact NXOS) supported version on 3048.
Cisco	Nexus 93180LC-EX	NXOS 10.3.5	
Cisco	Nexus 93180YC-EX	NXOS 10.3.4a	
Cisco	Nexus 92348GC (1 G Mgmt)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 10.5.1	
Cisco	Nexus 9332C (100G Spine)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 10.5.1	These CISCO switches were added from Version 5.3
Cisco	Nexus 93600CD-GX (100G Spine)	NXOS 10.5.1	
Cisco	Nexus 9316D-GX (400G Spine)	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3H (10/25G Leaf)	NXOS 10.5.1	
Storage Models			
Models		Notes	
VSP	G200	83-05-54-x0/00	Hitachi Support Page - ECNs
VSP	G400	83-05-54-x0/00	
VSP	G600	83-05-54-x0/00	
VSP	G800	83-05-54-x0/00	
VSP	F400	83-05-54-x0/00	
VSP	F600	83-05-54-x0/00	
VSP	F800	83-05-54-x0/00	
VSP	G350	88-08-16-xx/00	
VSP	G370	88-08-16-xx/00	
VSP	G700	88-08-16-xx/00	
VSP	G900	88-08-16-xx/00	
VSP	F350	88-08-16-xx/00	
VSP	F370	88-08-16-xx/00	
VSP	F700	88-08-16-xx/00	
VSP	F900	88-08-16-xx/00	
VSP	G1000, VSP G1500, VSP F1500	80-06-98-00/20	
VSP	E590	93-07-26-x0/00	
VSP	E790	93-07-26-x0/00	
VSP	E990	93-07-26-x0/00	
VSP	E1090	93-07-26-x0/00	
VSP	5100, 5200, 5500, 5600	90-09-27-00/00	
VSP	One Block 24, 26, 28	A3-03-03-40/00	

* Minimum Level or above

GPU			
Vendor		Notes	
NVIDIA A2	Firmware	94.07.62.00.AE	
	Driver	N/A	Compatible with HA805 G3 only

Software			
Software Versions			
Vendor		Notes	
Hitachi	UCP Advisor	4.7	
Downloadable ZIPs			
Vendor		Notes	
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20240705.zip	
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20250331.zip	
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	
Hitachi	Server Firmware ZIP	Server_Firmware_HA_20250331.zip	
Hitachi	UCP Toolkit ZIP	Toolkit9.2.zip	
Main Mediakit ZIP			
Vendor		Notes	
Hitachi	UCP CI Mediakit	UCPCI-HC_BaseMediaKit_v9.3_20250421.zip	

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

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Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP CI Interoperability Matrix			
UCP CI w/ HA800 G2 server			
Hardware			
UCP CI (Release Version)		v9.3	
Release date		April 21, 2025	
Major Windows Server Release:		2025	
Management and Compute Nodes : (HA810 G2)			
Components			Notes
System ROM		U46 v2.20 (SPV 6.92)	Packaged with SPV image v 6.92
iLO Firmware		v3.08	System ROM & iLO are applied with SPV image.
CPU Family		Icelake	
Compute Nodes : (HA820 G2)			
Components			Notes
System ROM		U46 v2.20 (SPV 6.92)	Packaged with SPV image v 6.92
iLO Firmware		v3.08	System ROM & iLO are applied with SPV image.
CPU Family		Icelake	
I/O Card Support for HA810 G2 / HA820 G2			
Components			Notes
OCP Network Cards (Options)			
INT I350 1GbE, 4p, BASE-T OCP3 Adptr	Firmware	1.3612.0 (SPV 6.92)	
	e1r68x64.sys Driver	Inbox	Packaged with SPV image v 6.92
INT E810 10/25GbE, 2p, SFP28 OCP3	Firmware	4.50 (SPV 6.92)	
	icea.sys Driver	Inbox	Packaged with SPV image v 6.92
MLX MCX562A 10/25GbE, 2p, SFP28 OCP3 Adptr	Firmware	16.35.3502 (SPV 6.92)	
	mlx5.sys Driver	Inbox	Packaged with SPV image v 6.92
BCM 57412 10GbE, 2p, SFP+ OCP3 Adptr	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
BCM 57414 10/25GbE, 2p, SFP28 OCP3	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
BCM 57416 10GbE, 2p, BASE-T OCP3 Adptr	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
PCIe Network Cards (Options)			
INT I350 1GbE, 4p, BASE-T PCIe Adptr	Firmware	1.3612.0 (SPV 6.92)	
	e1r68x64.sys Driver	Inbox	Packaged with SPV image v 6.92
INT E810 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	
	icea.sys Driver	Inbox	Packaged with SPV image v 6.92
INT E810 10/25GbE, 4p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	
	icea.sys Driver	Inbox	Packaged with SPV image v 6.92
INT E810 100GbE, 2p, QSFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	
	icea.sys Driver	Inbox	Packaged with SPV image v 6.92
MLX MCX512F 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	16.35.3502 (SPV 6.92)	
	mlx5.sys Driver	Inbox	Packaged with SPV image v 6.92
MLX MCX623106AS 100GbE, 2p, QSFP56 Adptr	Firmware	22.41.1000 (SPV 6.92)	
	mlx5.sys Driver	Inbox	Packaged with SPV image v 6.92
BCM 57412 10GbE, 2p, SFP+ Adptr	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
BCM 57414 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
BCM 57416 10GbE, 2,p BASE-T Adptr	Firmware	230.1.123.0 (SPV 6.92)	
	bnxtnd.sys Driver	230.0.162.0	Packaged with SPV image v 6.92
HBA Controller			
HPE SN1100Q 16Gb 1p FC HBA - (QLogic (Marvell), QLE2690)	Firmware	02.04.01 (SPV 6.92)	
	ql2300.sys Driver	9.4.10.20	Packaged with SPV image v 6.92
HPE SN1100Q 16Gb 2p FC HBA - (QLogic (Marvell), QLE2692)	Firmware	02.04.01 (SPV 6.92)	
	ql2300.sys Driver	9.4.10.20	Packaged with SPV image v 6.92
HPE SN1200E 16Gb 1p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10 (SPV 6.92)	
	elxfc.sys Driver	14.4.313.0	Packaged with SPV image v 6.92
HPE SN1200E 16Gb 2p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10 (SPV 6.92)	
	elxfc.sys Driver	14.4.313.0	Packaged with SPV image v 6.92
HPE SN1610Q 32Gb 1p FC HBA - (QLogic (Marvell), QLE2770)	Firmware	02.10.00 (SPV 6.92)	
	ql2300.sys Driver	9.4.10.20	Packaged with SPV image v 6.92
HPE SN1610Q 32Gb 2p FC HBA - (QLogic (Marvell), QLE2772)	Firmware	02.10.00 (SPV 6.92)	
	ql2300.sys Driver	9.4.10.20	Packaged with SPV image v 6.92
HPE SN1610E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10 (SPV 6.92)	
	elxfc.sys Driver	14.4.313.0	Packaged with SPV image v 6.92
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10 (SPV 6.92)	
	elxfc.sys Driver	14.4.313.0	Packaged with SPV image v 6.92
SAS/RAID Controller			
HPE SR408I-p 12G	Firmware	7.11 (SPV 6.92)	
	SmartPqi.sys Driver	Inbox	Packaged with SPV image v 6.92
HPE SR408I-a 12G	Firmware	7.11 (SPV 6.92)	
	SmartPqi.sys Driver	Inbox	Packaged with SPV image v 6.92
HPE MR416I-p 12G	Firmware	52.26.3-5487 (SPV 6.92)	
	SmartPqi.sys Driver	Inbox	Packaged with SPV image v 6.92
HPE MR416I-a 12G	Firmware	52.26.3-5487 (SPV 6.92)	
	SmartPqi.sys Driver	Inbox	Packaged with SPV image v 6.92
HPE P816I-a SR 12G	Firmware	7.11 (SPV 6.92)	
	kmod-smartpqi Driver	Inbox	Packaged with SPV image v 6.92
HPE SR932I-p 24G	Firmware	03.01.30.106 (SPV 6.92)	
	kmod-smartpqi Driver	Inbox	Packaged with SPV image v 6.92
Boot Controller			
NS204I-r (Riser)	Firmware	1.2.14.1013 (SPV 6.92)	
	Driver	Inbox	Packaged with SPV image v 6.92
NS204I-p (PCIe card)	Firmware	1.2.14.1013 (SPV 6.92)	

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UCP CI w/ HA800 G3 server					
Hardware					
UCP CI (Release Version)	v9.2	v9.3			
Release date	March 31, 2025	April 21, 2025			
Major RHEL Release:	9.4	9.4			
Management and Compute Nodes : (HA810 G3)					
Components		Notes			
System ROM	U54 v2.30	U54 v2.30	Packaged with Media Kit separately		
I/O Firmware	v1.63	v1.63			
CPU Family	Sapphire Rapids/Emerald Rapids	Sapphire Rapids/Emerald Rapids			
Compute Nodes : (HA820 G3)					
Components		Notes			
System ROM	U54 v2.30	U54 v2.30	Packaged with Media Kit separately		
I/O Firmware	v1.63	v1.63			
CPU Family	Sapphire Rapids/Emerald Rapids	Sapphire Rapids/Emerald Rapids			
Compute Nodes : (HA840 G3)					
Components		Notes			
System ROM	U59 v2.30	U59 v2.30			
I/O Firmware	v1.63	v1.63			
CPU Family	Sapphire Rapids	Sapphire Rapids			
I/O Card Support for HA810 G3 / HA820 G3 / HA840 G3					
Components		Notes			
OCP Network Cards (Options)					
INT I350 1GbE, 4p, BASE-T OCP3 Adptr	Firmware	1.3602.0 (SPV 7.42)	1.3602.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-hp-igb Driver	5.16.9-1.rhel9u4	5.16.9-1.rhel9u4		
INT E810 10/25GbE, 2p, SFP28 OCP3	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4		
MLX MCK562A 10/25GbE, 2p, SFP28 OCP3 Adptr	Firmware	16.35.3006 (SPV 7.42)	16.35.3006 (SPV 7.42)	Packaged with SPV image v 7.42. This card is not supported for HA840 G3.	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4		
MLX MCK6314 10/25GbE 2p SFP28 OCP3 Adptr	Firmware	26.41.1000 (SPV 7.42)	26.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4		
BCM 57412 10GbE 2p SFP+ OCP3	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-bnxt_en Driver	inbox	inbox		
BCM 57504 10/25GbE 4p SFP28 OCP3	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-bnxt_en Driver	inbox	inbox		
PCIe Network Cards (Options)					
INT I350 1GbE, 4p, BASE-T PCIe Adptr	Firmware	1.3602.0 (SPV 7.42)	1.3602.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-hp-igb Driver	Partner Async - 5.16.9-1.rhel9u4	Partner Async - 5.16.9-1.rhel9u4		
INT E810 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-ice Driver	Partner Async - 1.14.11-1.rhel9u4	Partner Async - 1.14.11-1.rhel9u4		
INT E810 10/25GbE, 4p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4		
INT E810 100GbE, 2p, QSFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	Packaged with SPV image v 7.42. This card is not supported for HA840 G3.	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4		
MLX MCK631102 10/25GbE 2p SFP28 Adptr	Firmware	26.41.1000 (SPV 7.42)	26.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4		
MLX MCK623106A5 100GbE, 2p, QSFP56 Adptr	Firmware	22.41.1000 (SPV 7.42)	22.41.1000 (SPV 7.42)	Packaged with SPV image v 7.42	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4		
BCM 57412 10GbE 2p SFP+ Adptr	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	Packaged with SPV image v 7.42	
	kmod-bnxt_en Driver	inbox	inbox		
HBA Controller					
HPE SN1200E 16Gb 2p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	14.4.329.10	Packaged with SPV image v 7.42	
	kmod-elx-lpfc Driver	inbox	inbox		
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10	14.4.329.10	Packaged with SPV image v 7.42	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4		
HPE SN1610Q 32Gb 1p FC HBA	Firmware	02.10.00	02.10.00	Packaged with SPV image v 7.42	
	kmod-qlgc-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4		
HPE SN1610Q 32Gb 2p FC HBA	Firmware	02.10.00	02.10.00	Packaged with SPV image v 7.42	
	kmod-qlgc-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4		
HPE SN1700E 64Gb 2P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	14.4.329.10	Packaged with SPV image v 7.42	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4		
HPE SN1700E 64Gb 1P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	14.4.329.10	Packaged with SPV image v 7.42	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4		
HPE SN1600E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.2.589.21	14.2.589.21		
	kmod-elx-lpfc Driver	inbox	inbox		
Boot Controller					
NS204i-u (PCIe card)	Firmware	1.2.14.1013	1.2.14.1013	Packaged with SPV image v 7.42	
	Driver	inbox	inbox		
Drives for vSAN Cache and Capacity (Options) for HA 800 G3					
Components		Notes			
		SSD/NVME firmware is packaged and applied with SPV image v 7.42			
For accurate Firmware requirements for SSD and NVMe devices being used for vSAN cache and/or capacity drives, please refer to the following two reference items: 1) VMware Compatibility Guide: Hitachi Vantara vSAN Ready Node listings. (https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vSAN&detail=1&vsan_type=vSANreadynode&vsan_partner=39&page=1&display_in_ternval=10&sortColumn=Partner&sortOrder=Asc) 2) The Service Pack for Vantara (SPV) Content.html file that is inside the SPV iso packaged in the UCP MediaKit, as well as posted on the UCP Download section on the https://support.hitachivantara.com support portal will list all firmware (including firmware for SSD/NVMe devices)					
FC Switches					
Vendor		Notes			
Brocade	G620	9.2.1a	9.2.1a		
Brocade	G720	9.2.1a	9.2.1a		
Ethernet Switches					
Vendor					
Arista	DCS-7010T-48-R	4.28.10.1M	4.28.10.1M		
Arista	DCS-7050CX3-32S-R	4.29.5M	4.29.5M		
Arista	DCS-7050SX3-48YC8-R	4.29.5M	4.29.5M		
Cisco	Nexus 3048	9.3.13	9.3.13	* These Cisco switches are used on UCP Ci appliance from v4.0 and prior. * 9.3.7 (Compact NXOS) supported version on 3048.	
Cisco	Nexus 93180LC-EX	NXOS 10.3.5	NXOS 10.3.5		
Cisco	Nexus 93180YC-EX	NXOS 10.3.4a	NXOS 10.3.4a		
Cisco	Nexus 92348GC (1 G Mgmt)	NXOS 10.5.1	NXOS 10.5.1	These CISCO switches were added from Version 5.3	
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 9332C (100G Spine)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 93600CD-GX (100G Spine)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 9316D-GX (400G Spine)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 93180YC-FX3H (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1		
Cisco	Nexus 9336C-FX2 (25G/100G Leaf)	NXOS 10.5.1	NXOS 10.5.1		
Storage Models					
Models		Notes			
VSP	G200	83-05-S3-x0/00	83-05-S4-x0/00	Hitachi Support Page - FCNs	
VSP	G400	83-05-S3-x0/00	83-05-S4-x0/00		
VSP	G600	83-05-S3-x0/00	83-05-S4-x0/00		
VSP	G800	83-05-S3-x0/00	83-05-S4-x0/00		
VSP	F400	83-05-S3-x0/00	83-05-S4-x0/00		
VSP	F600	83-05-S3-x0/00	83-05-S4-x0/00		

VSP	F800	83-05-53-xx/00	83-05-54-xx/00	
VSP	G350	88-08-15-xx/00	88-08-16-xx/00	
VSP	G370	88-08-15-xx/00	88-08-16-xx/00	
VSP	G700	88-08-15-xx/00	88-08-16-xx/00	
VSP	G900	88-08-15-xx/00	88-08-16-xx/00	
VSP	F350	88-08-15-xx/00	88-08-16-xx/00	
VSP	F370	88-08-15-xx/00	88-08-16-xx/00	
VSP	F700	88-08-15-xx/00	88-08-16-xx/00	
VSP	F900	88-08-15-xx/00	88-08-16-xx/00	
VSP	G1000, VSP G1500, VSP F1500	80-06-98-00/00	80-06-98-00/20	
VSP	E590	93-07-25-xx/00	93-07-26-xx/00	
VSP	E790	93-07-25-xx/00	93-07-26-xx/00	
VSP	E990	93-07-25-xx/00	93-07-26-xx/00	
VSP	E1090	93-07-25-xx/00	93-07-26-xx/00	
VSP	S100, S200, S500, S600	90-09-26-00/00	90-09-27-00/00	
VSP	One Block 24, 26, 28	A3-03-21-40/00	A3-03-03-40/00	

* Minimum Level or above

GPU				
Vendor				
NVIDIA A2	Firmware	94.07.62.00.AE	94.07.62.00.AE	
	Driver	535.104.05	535.104.05	Compatible with HA810 G3
NVIDIA A16	Firmware	94.07.62.00.AD	94.07.62.00.AD	
	Driver	535.104.05	535.104.05	Compatible with HA820 G3 only
NVIDIA A100	Firmware	N/A	N/A	
	Driver	N/A	N/A	Compatible with HA820 G3 only
NVIDIA L4	Firmware	95.04.55.00.01	95.04.55.00.01	
	Driver	535.104.05	535.104.05	Compatible with HA810 G3 & HA820 G3
NVIDIA L40	Firmware	95.02.50.00.01	95.02.50.00.01	
	Driver	535.104.05	535.104.05	Compatible with HA820 G3 only
NVIDIA L40S	Firmware	95.02.66.00.02	95.02.66.00.02	
	Driver	535.104.05	535.104.05	Compatible with HA820 G3 only
NVIDIA H100	Firmware	96.00.74.00.1C	96.00.74.00.1C	
	Driver	550.90.07	550.90.07	Compatible with HA820 G3 only
NVIDIA H100 NVL	Firmware	96.00.88.00.11	96.00.88.00.11	
	Driver	550.90.07	550.90.07	Compatible with HA820 G3 only

Software				
Software Versions				
Vendor		Component		Notes
Hitachi		UCP Advisor	4.7	4.7
Downloadable ZIPs				
Vendor		Component		Notes
Hitachi		Arista Network Firmware ZIP	Arista_Firmware_20240705.zip	Arista_Firmware_20240705.zip
Hitachi		Cisco Network Firmware ZIP	Cisco_Firmware_20250331.zip	Cisco_Firmware_20250331.zip
Hitachi		Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt
Hitachi		Server Firmware ZIP	Server_Firmware_HA_20250331.zip	Server_Firmware_HA_20250331.zip
Hitachi		UCP Toolkit ZIP	Toolkit9.2.zip	Toolkit9.2.zip
Main MediaKit ZIP				
Vendor		Component		Notes
Hitachi		UCP CI MediaKit	UCPCI-HC_BaseMediaKit_v9.2_20250331.zip	UCPCI-HC_BaseMediaKit_v9.3_20250421.zip

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmh3_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP CI Interoperability Matrix				
UCP CI w/ HA8x5 G3 server				
Hardware				
UCP CI (Release Version)		v9.2	v9.3	
Release date		March 31, 2025	April 21, 2025	
Major RHEL Release:		9.4	9.4	
Compute Nodes : (HA805 / HA815/ HA825 G3)				
Compute Nodes : (HA805 G3)				
Components				Notes
System ROM	A56 v2.10		A56 v2.10	
I/O Firmware	v1.63		v1.63	Packaged with Media Kit separately
CPU Family	AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin		AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin	
Compute Nodes : (HA815 G3)				
Components				Notes
System ROM	A55 v2.14		A55 v2.14	
I/O Firmware	v1.63		v1.63	Packaged with Media Kit separately
CPU Family	AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin		AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin	
Compute Nodes : (HA825 G3)				
Components				Notes
System ROM	A55 v2.14		A55 v2.14	
I/O Firmware	v1.63		v1.63	Packaged with Media Kit separately
CPU Family	AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin		AMD Genoa / AMD Genoa-x / AMD Bergamo/Turin	
I/O Card Support for HA805 G3 / HA825 G3				
Components				Notes
OCP Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T OCP3 Adptr	Firmware	1.3602.0 (SPV 7.42)	1.3602.0 (SPV 7.42)	
	kmod-hp-igb Driver	5.16.9-1.rhel9u4	5.16.9-1.rhel9u4	Packaged with SPV image v 7.42
INT E810 10/25GbE, 2p, SFP28 OCP3	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 7.42
INT E810 100GbE 2p QSFP28 OCP3 Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 7.42
MLX MCX562A 10/25GbE, 2p, SFP28 OCP3 Adptr	Firmware	16.35.3006 (SPV 7.42)	16.35.3006 (SPV 7.42)	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 7.42
MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	Firmware	26.41.1000 (SPV 7.42)	26.41.1000 (SPV 7.42)	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 7.42
BCM 57412 10GbE 2p SFP+ OCP3	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 7.42
BCM 57504 10/25GbE 4p SFP28 OCP3	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 7.42
BCM 57416 10GbE 2p Base-T OCP3	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 7.42
PCIe Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T PCIe Adptr	Firmware	1.3602.0 (SPV 7.42)	1.3602.0 (SPV 7.42)	
	kmod-hp-igb Driver	5.16.9-1.rhel9u4	5.16.9-1.rhel9u4	Packaged with SPV image v 7.42
INT E810 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 7.42
INT E810 10/25GbE, 4p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 7.42)	4.50 (SPV 7.42)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 7.42
MLX MCX631102 10/25GbE 2p SFP28 Adptr	Firmware	26.41.1000 (SPV 7.42)	26.41.1000 (SPV 7.42)	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 7.42
MLX MCX63106A3 100GbE, 2p, QSFP56 Adptr	Firmware	22.41.1000 (SPV 7.42)	22.41.1000 (SPV 7.42)	
	mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 7.42
BCM 57412 10GbE 2p SFP+ Adptr	Firmware	230.1.123.0 (SPV 7.42)	230.1.123.0 (SPV 7.42)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 7.42
HBA Controller				
HPE SN1700E 64Gb 2P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	14.4.329.10	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 7.42
HPE SN1700E 64Gb 1P FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10	14.4.329.10	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 7.42
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10	14.4.329.10	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 7.42
HPE SN1610Q 32Gb 1p FC HBA	Firmware	02.10.00	02.10.00	
	kmod-qlqc-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 7.42
HPE SN1610Q 32Gb 2p FC HBA	Firmware	02.10.00	02.10.00	
	kmod-qlqc-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 7.42
HPE SN1600E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.2.589.21	14.2.589.21	
	kmod-elx-lpfc Driver	Inbox	Inbox	
Boot Controller				
NS204i-u (PCIe card)	Firmware	1.2.14.1013	1.2.14.1013	
	Driver	Inbox	Inbox	Packaged with SPV image v 7.42
Drives for vSAN Cache and Capacity (Options) for HA 800 G3				
Components				Notes
				SSD/NVMe firmware is packaged and applied with SPV image v 7.42
For accurate Firmware requirements for SSD and NVMe devices being used for vSAN cache and/or capacity drives, please refer to the following two reference items: 1) VMware Compatibility Guide: Hitachi Vantara V5AN Ready Node listings. (https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vSAN&details=1&osan_type=vSANreadynode&vSAN_partner=39&page=1&display_in_tervale=10&sortColumn=Partner&sortOrder=Asc) 2) The Service Pack for Vantara (SPV) Content.html file that is inside the SPV iso packaged in the UCP MediaKit, as well as posted on the UCP Download section on the https://support.hitachivantara.com support portal will list all firmware (including firmware for SSD/NVMe devices)				
FC Switches				
Vendor				Notes
Brocade	G620	9.2.1a	9.2.1a	
Brocade	G720	9.2.1a	9.2.1a	
Ethernet Switches				
Vendor				
Arista	DCS-7010T-48-R	4.28.10.1M	4.28.10.1M	
Arista	DCS-7050CX3-32S-R	4.29.5M	4.29.5M	
Arista	DCS-7050SX3-48YC8-R	4.29.5M	4.29.5M	
Cisco	Nexus 3048	9.3.13	9.3.13	
Cisco	Nexus 93180LC-EX	NXOS 10.3.5	NXOS 10.3.5	
Cisco	Nexus 93180YC-EX	NXOS 10.3.4a	NXOS 10.3.4a	
Cisco	Nexus 932486C (1 G Mgmt)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9332C (100G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93600CD-GX (100G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9316D-GX (400G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3H (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9336C-FX2 (25G/100G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Storage Models				
Models				Notes
VSP	G200	83-05-53-x0/00	83-05-54-x0/00	Hitachi Support Page - ECNs

VSP	G400	83-05-53-x0/00	83-05-54-x0/00	
VSP	G600	83-05-53-x0/00	83-05-54-x0/00	
VSP	G800	83-05-53-x0/00	83-05-54-x0/00	
VSP	F400	83-05-53-x0/00	83-05-54-x0/00	
VSP	F600	83-05-53-x0/00	83-05-54-x0/00	
VSP	F800	83-05-53-x0/00	83-05-54-x0/00	
VSP	G350	88-08-15-xx/00	88-08-16-xx/00	
VSP	G370	88-08-15-xx/00	88-08-16-xx/00	
VSP	G700	88-08-15-xx/00	88-08-16-xx/00	
VSP	G900	88-08-15-xx/00	88-08-16-xx/00	
VSP	F350	88-08-15-xx/00	88-08-16-xx/00	
VSP	F370	88-08-15-xx/00	88-08-16-xx/00	
VSP	F700	88-08-15-xx/00	88-08-16-xx/00	
VSP	F900	88-08-15-xx/00	88-08-16-xx/00	
VSP	G1000, VSP G1500, VSP F1500	80-06-98-00/00	80-06-98-00/20	
VSP	E590	93-07-25-x0/00	93-07-26-x0/00	
VSP	E790	93-07-25-x0/00	93-07-26-x0/00	
VSP	E990	93-07-25-x0/00	93-07-26-x0/00	
VSP	E1090	93-07-25-x0/00	93-07-26-x0/00	
VSP	5100, 5200, 5500, 5600	90-09-26-00/00	90-09-27-00/00	
VSP	One Block 24, 26, 28	A3-03-21-40/00	A3-03-03-40/00	

* Minimum Level or above

GPU				
Vendor				
NVIDIA A2	Firmware	94.07.62.00.AE	94.07.62.00.AE	Compatible with H805 G3 only
	Driver	535.104.05	535.104.05	

Software				
Software Versions				
Vendor	Component			Notes
Hitachi	UCP Advisor	4.7	4.7	
Downloadable ZIPs				
Vendor	Component			Notes
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20240705.zip	Arista_Firmware_20240705.zip	
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20250331.zip	Cisco_Firmware_20250331.zip	
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt	
Hitachi	Server Firmware ZIP	Server_Firmware_HA_20250331.zip	Server_Firmware_HA_20250331.zip	
Hitachi	UCP Toolkit ZIP	Toolkit9.2.zip	Toolkit9.2.zip	
Main MediaKit ZIP				
Vendor	Component			Notes
Hitachi	UCP CI MediaKit	UCPCI-HC_BaseMediaKit_v9.2_20250331.zip	UCPCI-HC_BaseMediaKit_v9.3_20250421.zip	

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmix_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP CI Interoperability Matrix				
UCP CI w/ HA800 G2 server				
Hardware				
UCP CI (Release Version)		v9.2	v9.3	
Release date		March 31, 2025	April 21, 2025	
Major RHEL Release:		9.4	9.4	
Management and Compute Nodes : (HA810 G2)				
Components				Notes
System ROM		U46 v2.20 (SPV 6.92)	U46 v2.20 (SPV 6.92)	Packaged with SPV image v 6.92
iLO Firmware		v3.08	v3.08	System ROM & iLO are applied with SPV image.
CPU Family		Icelake	Icelake	
Compute Nodes : (HA820 G2)				
Components				Notes
System ROM		U46 v2.20 (SPV 6.92)	U46 v2.20 (SPV 6.92)	Packaged with SPV image v 6.92
iLO Firmware		v3.08	v3.08	System ROM & iLO are applied with SPV image.
CPU Family		Icelake	Icelake	
I/O Card Support for HA810 G2 / HA820 G2				
Components				Notes
OCP Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T OCP3 Adptr	Firmware	1.3612.0 (SPV 6.92)	1.3612.0 (SPV 6.92)	
	kmod-hp-igb Driver	5.16.9-1.rhel9u4	5.16.9-1.rhel9u4	Packaged with SPV image v 6.92
INT E810 10/25GbE, 2p, SFP28 OCP3	Firmware	4.50 (SPV 6.92)	4.50 (SPV 6.92)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 6.92
MLX MCX562A 10/25GbE, 2p, SFP28 OCP3 Adptr	Firmware	16.35.3502 (SPV 6.92)	16.35.3502 (SPV 6.92)	
	kmod-mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 6.92
BCM 57412 10GbE, 2p, SFP+ OCP3 Adptr	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 6.92
BCM 57414 10/25GbE, 2p, SFP28 OCP3	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 6.92
BCM 57416 10GbE, 2p, BASE-T OCP3 Adptr	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	bnxtnet Driver (ESXi)	Inbox	Inbox	Packaged with SPV image v 6.92
PCIe Network Cards (Options)				
INT I350 1GbE, 4p, BASE-T PCIe Adptr	Firmware	1.3612.0 (SPV 6.92)	1.3612.0 (SPV 6.92)	
	kmod-hp-igb Driver	5.16.9-1.rhel9u4	5.16.9-1.rhel9u4	Packaged with SPV image v 6.92
INT E810 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	4.50 (SPV 6.92)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 6.92
INT E810 10/25GbE, 4p, SFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	4.50 (SPV 6.92)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 6.92
INT E810 100GbE, 2p, QSFP28 PCIe Adptr	Firmware	4.50 (SPV 6.92)	4.50 (SPV 6.92)	
	kmod-ice Driver	1.14.11-1.rhel9u4	1.14.11-1.rhel9u4	Packaged with SPV image v 6.92
MLX MCX512F 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	16.35.3502 (SPV 6.92)	16.35.3502 (SPV 6.92)	
	kmod-mlnx-ofa_kernel Driver	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 6.92
MLX MCX623106AS 100GbE, 2p, QSFP56 Adptr	Firmware	22.41.1000 (SPV 6.92)	22.41.1000 (SPV 6.92)	
	kmod-mlnx-ofa_kernel	24.04-OFED.24.04.0.6.6.1.rhel9u4	24.04-OFED.24.04.0.6.6.1.rhel9u4	Packaged with SPV image v 6.92
BCM 57412 10GbE, 2p, SFP+ Adptr	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 6.92
BCM 57414 10/25GbE, 2p, SFP28 PCIe Adptr	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	kmod-bnxt_en Driver	Inbox	Inbox	Packaged with SPV image v 6.92
BCM 57416 10GbE, 2,p BASE-T Adptr	Firmware	230.1.123.0 (SPV 6.92)	230.1.123.0 (SPV 6.92)	
	bnxtnet Driver (ESXi)	Inbox	Inbox	Packaged with SPV image v 6.92
HBA Controller				
HPE SN1100Q 16Gb 1p FC HBA - (Qlogic (Marvell), QLE2690)	Firmware	02.04.01 (SPV 6.92)	02.04.01 (SPV 6.92)	
	kmod-qlogic-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1100Q 16Gb 2p FC HBA - (Qlogic (Marvell), QLE2692)	Firmware	02.04.01 (SPV 6.92)	02.04.01 (SPV 6.92)	
	kmod-qlogic-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1200E 16Gb 1p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10 (SPV 6.92)	14.4.329.10 (SPV 6.92)	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1200E 16Gb 2p FC HBA - (Emulex (Broadcom), XE201)	Firmware	14.4.329.10 (SPV 6.92)	14.4.329.10 (SPV 6.92)	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1610Q 32Gb 1p FC HBA - (Qlogic (Marvell), QLE2770)	Firmware	02.10.00 (SPV 6.92)	02.10.00 (SPV 6.92)	
	kmod-qlogic-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1610Q 32Gb 2p FC HBA - (Qlogic (Marvell), QLE2772)	Firmware	02.10.00 (SPV 6.92)	02.10.00 (SPV 6.92)	
	kmod-qlogic-qla2xxx Driver	10.02.12.01_k1-1.rhel9u4	10.02.12.01_k1-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1610E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10 (SPV 6.92)	14.4.329.10 (SPV 6.92)	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 6.92
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3x000)	Firmware	14.4.329.10 (SPV 6.92)	14.4.329.10 (SPV 6.92)	
	kmod-elx-lpfc Driver	14.4.329.9-1.rhel9u4	14.4.329.9-1.rhel9u4	Packaged with SPV image v 6.92
SAS/RAID Controller				
HPE SR408i-p 12G	Firmware	7.11 (SPV 6.92)	7.11 (SPV 6.92)	
	kmod-smartpqi Driver	2.1.30-031.rhel9u4	2.1.30-031.rhel9u4	Packaged with SPV image v 6.92
HPE SR408i-a 12G	Firmware	7.11 (SPV 6.92)	7.11 (SPV 6.92)	
	kmod-smartpqi Driver	2.1.30-031.rhel9u4	2.1.30-031.rhel9u4	Packaged with SPV image v 6.92
HPE MR416i-p 12G	Firmware	52.26.3-5487 (SPV 6.92)	52.26.3-5487 (SPV 6.92)	
	kmod-smartpqi Driver	07.726.04.00_rhel9u3-1	07.726.04.00_rhel9u3-1	Packaged with SPV image v 6.92
HPE MR416i-a 12G	Firmware	52.26.3-5487 (SPV 6.92)	52.26.3-5487 (SPV 6.92)	
	kmod-smartpqi Driver	07.726.04.00_rhel9u3-1	07.726.04.00_rhel9u3-1	Packaged with SPV image v 6.92
HPE P816i-a SR 12G	Firmware	7.11 (SPV 6.92)	7.11 (SPV 6.92)	
	kmod-smartpqi Driver	2.1.30-031.rhel9u4	2.1.30-031.rhel9u4	Packaged with SPV image v 6.92
HPE SR932i-p 24G	Firmware	03.01.30.106 (SPV 6.92)	03.01.30.106 (SPV 6.92)	
	kmod-smartpqi Driver	2.1.30-031.rhel9u4	2.1.30-031.rhel9u4	Packaged with SPV image v 6.92
Boot Controller				
NS204i-r (Riser)	Firmware	1.2.14.1013 (SPV 6.92)	1.2.14.1013 (SPV 6.92)	
	Driver	Inbox	Inbox	Packaged with SPV image v 6.92
NS204i-p (PCIe card)	Firmware	1.2.14.1013 (SPV 6.92)	1.2.14.1013 (SPV 6.92)	
	Driver	Inbox	Inbox	Packaged with SPV image v 6.92
Drives for vSAN Cache and Capacity (Options) for HA 800 G2				
Components				Notes
				SSD/NVMe firmware is packaged and applied with SPV image v 6.92
For accurate Firmware requirements for SSD and NVMe devices being used for vSAN cache and/or capacity drives, please refer to the following two reference items: 1) VMware Compatibility Guide: Hitachi Vantara vSAN Ready Node listings. https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vSAN&details=1&vSAN_type=vSANreadynode&vSAN_partner=39&page=1&display_interval=10&sortColumn=Partner&sortOrder=Asc 2) The Service Pack for Vantara (SPV) Content.html file that is inside the SPV iso packaged in the UCP MediaKit, as well as posted on the UCP Download section on the https://support.hitachivantara.com support portal will list all firmware (including firmware for SSD/NVMe devices)				
FC Switches				

Vendor				Notes
Brocade	G620	9.2.1a	9.2.1a	
Brocade	G720	9.2.1a	9.2.1a	
Ethernet Switches				
Vendor				
Arista	DCS-7010T-48-R	4.28.10.1M	4.28.10.1M	
Arista	DCS-7050CX3-32S-R	4.29.5M	4.29.5M	
Arista	DCS-7050SX3-48YCB-R	4.29.5M	4.29.5M	
Cisco	Nexus 3048	9.3.13	9.3.13	* These Cisco switches are used on UCP CI appliance from v4.0 and prior. * 9.3.7 (Compact NXOS) supported version on 3048.
Cisco	Nexus 93180LC-EX	NXOS 10.3.5	NXOS 10.3.5	
Cisco	Nexus 93180YC-EX	NXOS 10.3.4a	NXOS 10.3.4a	
Cisco	Nexus 92348GC (1 G Mgmt)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9332C (100G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	These CISCO switches were added from Version 5.3
Cisco	Nexus 93600CD-GX (100G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9316D-GX (400G Spine)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 93180YC-FX3H (10/25G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Cisco	Nexus 9336C-FX2 (25G/100G Leaf)	NXOS 10.5.1	NXOS 10.5.1	
Storage Models				
Models				Notes
VSP	G200	83-05-53-x0/00	83-05-54-x0/00	Hitachi Support Page - ECNs
VSP	G400	83-05-53-x0/00	83-05-54-x0/00	
VSP	G600	83-05-53-x0/00	83-05-54-x0/00	
VSP	G800	83-05-53-x0/00	83-05-54-x0/00	
VSP	F400	83-05-53-x0/00	83-05-54-x0/00	
VSP	F600	83-05-53-x0/00	83-05-54-x0/00	
VSP	F800	83-05-53-x0/00	83-05-54-x0/00	
VSP	G350	88-08-15-xx/00	88-08-16-xx/00	
VSP	G370	88-08-15-xx/00	88-08-16-xx/00	
VSP	G700	88-08-15-xx/00	88-08-16-xx/00	
VSP	G900	88-08-15-xx/00	88-08-16-xx/00	
VSP	F350	88-08-15-xx/00	88-08-16-xx/00	
VSP	F370	88-08-15-xx/00	88-08-16-xx/00	
VSP	F700	88-08-15-xx/00	88-08-16-xx/00	
VSP	F900	88-08-15-xx/00	88-08-16-xx/00	
VSP	G1000, VSP G1500, VSP F1500	80-06-98-00/00	80-06-98-00/20	
VSP	E590	93-07-25-x0/00	93-07-26-x0/00	
VSP	E790	93-07-25-x0/00	93-07-26-x0/00	
VSP	E990	93-07-25-x0/00	93-07-26-x0/00	
VSP	E1090	93-07-25-x0/00	93-07-26-x0/00	
VSP	S100, S200, S500, S600	90-09-26-00/00	90-09-27-00/00	
VSP	One Block 24, 26, 28	A3-03-21-40/00	A3-03-03-40/00	
* Minimum Level or above				
GPU				
Vendor				
NVIDIA Tesla T4	Firmware	90.04.B4.00.04	90.04.B4.00.04	
	Driver	535.104.05	535.104.05	
NVIDIA A16	Firmware	94.07.62.00.AD	94.07.62.00.AD	Compatible with HA810 G2 and HA820 G2
	Driver	535.104.05	535.104.05	
NVIDIA A40	Firmware	94.02.5C.00.0F	94.02.5C.00.0F	Compatible with HA820 G2 only
	Driver	Inbox	Inbox	
NVIDIA A100 80GB PCIe	Firmware	N/A	N/A	Compatible with HA820 G2 only
	Driver	535.54.06	535.54.06	Compatible with HA820 G2 only
Software				
Software Versions				
Vendor		Component		Notes
Hitachi	UCP Advisor	4.7	4.7	
Downloadable ZIPs				
Vendor		Component		Notes
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20240705.zip	Arista_Firmware_20240705.zip	
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20250331.zip	Cisco_Firmware_20250331.zip	
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt	
Hitachi	Server Firmware ZIP	Server_Firmware_HA_20250331.zip	Server_Firmware_HA_20250331.zip	
Hitachi	UCP Toolkit ZIP	Toolkit9.2.zip	Toolkit9.2.zip	
Main Mediakit ZIP				
Vendor		Component		Notes
Hitachi	UCP CI Mediakit	UCPCI-HC_BaseMediakit_v9.2_20250331.zip	UCPCI-HC_BaseMediakit_v9.3_20250421.zip	

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmix_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

[illegible]

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/firmware that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use mthsa_coe driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/firmware version, we identify the supported firmware version for that driver/firmware

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/firmware that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanice cards use rmmio6_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/firmware version, we identify the supported Firmware version for that driver/firmware.

*This will sometimes result in selecting older versions of firmwares for a given I/O adapter.

UCP CI Interoperability Matrix

UCP CI w/ HA800 G2 server

UCP CI (Release Version)

Release date

Major vSphere Release:

v9.0

Jul 5, 2024

8.0u2

Hardware

v9.1

October 23, 2024

8.0u3

v6.2

v6.1

v6.4

v9.3

April 23, 2025

8.0u3

Management and Compute Nodes : (HA810 G2)

Components

UCP Family

BD Firmware

SPV Family

146 v2.00 (SPV 6.9)

v3.03

v3.03

146 v2.00 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

Notes

System ROM & I.O are applied with SPV image.

Compute Nodes : (HA820 G2)

Components

UCP Family

BD Firmware

SPV Family

146 v2.00 (SPV 6.9)

v3.03

v3.03

146 v2.00 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

146 v2.20 (SPV 6.9)

v3.03

v3.03

Notes

System ROM & I.O are applied with SPV image.

I/O Card Support for HA810 G2 / HA820 G2

DCP Network Cards (Options)

NT100 10GbE, 4p, BASE-T 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

NT100 10GbE, 2p, SFP+ 10Gbps Adapter

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NT100 10GbE, 2p, SFP+ 10Gbps Adapter

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Hitachi	Cisco Network Firmware ZIP	Cisco Firmware_20240705.zip	Cisco Firmware_20240705.zip	Cisco Firmware_20250831.zip	Cisco Firmware_20250831.zip		
Hitachi	Brocade Network Firmware ZIP	Brocade_Router1011a.zip	Brocade_Router1011a.zip	Brocade_Router1011a.zip	Brocade_Router1011a.zip		
Hitachi	Server Firmware ZIP	Server_Firmware_HA_20240705.zip	Server_Firmware_HA_20240705.zip	Server_Firmware_HA_20250831.zip	Server_Firmware_HA_20250831.zip		
Hitachi	Firmware Software ZIP (v7.0 HA Packag)	HA_vSphere_7.x_20240705.zip	HA_vSphere_7.x_20240705.zip	HA_vSphere_7.x_20240705.zip	HA_vSphere_7.x_20240705.zip		
Hitachi	Firmware Software ZIP (v8.0 HA Packag)	HA_vSphere_8.x_20240206.zip	HA_vSphere_8.x_20240201.zip	HA_vSphere_8.x_20241001.zip	HA_vSphere_8.x_20241001.zip		
Hitachi	UCP Toolkit ZIP	toolkit0.0.zip	toolkit0.1.zip	toolkit0.2.zip	toolkit0.2.zip		
Main Mediatek ZIP							
Vendor	Component				Notes		
Hitachi	UCP O Mediatek	UCPG-HC_BaseMediatek_v0.0_20240705.zip	UCPG-HC_BaseMediatek_v0.1_20241001.zip	UCPG-HC_BaseMediatek_v0.2_20250831.zip	UCPG-HC_BaseMediatek_v0.3_20250421.zip		

Note: An exploration to the topic of how firmware versions are decided on for the various IO cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/firmware that is used for each IO Adapter

Step 2 - For IO cards that use the same driver (i.e. all Mellanox cards use mlx5_core driver) we identify the version that is common across all adapters

Step 3* - For Each IO card, using the common driver/firmware version, we identify the supported firmware version for that driver/firmware

*This will sometimes result in selecting older versions of firmware for a given IO adapter.

[illegible]

[illegible]

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/usb that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use mnm63_core Driver) we identify the version that is common across all adapters

Step 3* - For each I/O card, using the common driver/usb version, we identify the supported firmware version for that driver/usb.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given version, we check the driver/yes that is used for each IO Adapter

Step 2 - For IO cards that use the same driver (i.e. all Mellanox cards use mlx5_core.ko) we identify the version that is common across all adapters

Step 3* - For each IO card, using the common driver/yes version, we identify the supported firmware version for that driver/yes.

*This will sometimes result in selecting older versions of firmware for a given IO adapter.

GPU					
Vendor					
NVIDIA A2	Firmware	N/A	N/A	N/A	
V10-100e D1WD-256e, SVID-0000, SSID-157e	VVD-VMware_ESXi_8.0.0_Driver	≥35.54.06 or higher	≥35.54.06 or higher	≥35.54.06 or higher	Compatible with HA805 G3 only
NVIDIA's compatibility Guide Link					
Software					

Software Versions					
Vendor	Component				Notes
Hitschi	UCP Advisor	4.4	4.5	4.5	
VMware	ESXi	8.0.1 GA (Build # 21813344)	8.0U2 GA (Build # 22380479)	8.0U2 GA (Build # 22380479)	
VMware	vCenter(VCSA)	8.0.1 GA (Build # 21815093)	8.0U2 GA (Build # 22617221)	8.0U2 GA (Build # 22617221)	
VMware	vSAN	8.0.1 GA (Build # 21813344)	8.0U2 GA (Build # 22380479)	8.0U2 GA (Build # 22380479)	
Downloadable ZIPs					
Vendor	Component				Notes
Hitschi	Arista Network Firmware ZIP	Arista_Firmware_20210906.zip	Arista_Firmware_20240315.zip	Arista_Firmware_20240315.zip	
Hitschi	Cisco Network Firmware ZIP	Cisco_Firmware_20220705.zip	Cisco_Firmware_20240315.zip	Cisco_Firmware_20240506.zip	
Hitschi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt	Brocade_ReadMe.txt	
Hitschi	Server Firmware ZIP	Server_Firmware_HA_20231204.zip	Server_Firmware_HA_20240315.zip	Server_Firmware_HA_20240506.zip	
Hitschi	VMware Software ZIP (v8.0 HA Package)	HA_vSphere_8.x_20231204.zip	HA_vSphere_8.x_20240506.zip	HA_vSphere_8.x_20240506.zip	
Hitschi	UCP ToolKit ZIP	UCPToolkit_v8.5_20231204.zip	UCPToolkit_6.1.1.zip	UCPToolkit_7.zip	
Main Mediakit ZIP					
Vendor	Component				Notes
Hitschi	UCP-CI Mediakit	UCP-CI_Mediakit_v8.5_20231204.zip	UCP-CI_MC_BaseMediakit_v8.6_20240315.zip	UCP-CI_MC_BaseMediakit_v8.7_20240506.zip	

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Soliton Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use mli4_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP CI Interoperability Matrix																	
UCP CI w/ HA800 G2 server																	
UCP CI (Release Version)		Hardware		v6.0		v6.1		v6.2									
Major vSphere Release		Release date		v6.0		v6.1		v6.2									
				July 21, 2023		August 25, 2023		December 4, 2023									
				8.0		8.0		8.0a									
								March 15, 2024									
								8.0b2									
								May 6, 2024									
								8.0b2									
Management and Compute Nodes : (HA810 G2)																	
Comments																	
UCP Firmware	UCP-184, UCP-185, UCP-186, UCP-187, UCP-188, UCP-189, UCP-190, UCP-191, UCP-192, UCP-193, UCP-194, UCP-195, UCP-196, UCP-197, UCP-198, UCP-199, UCP-200, UCP-201, UCP-202, UCP-203, UCP-204, UCP-205, UCP-206, UCP-207, UCP-208, UCP-209, UCP-210, UCP-211, UCP-212, UCP-213, UCP-214, UCP-215, UCP-216, UCP-217, UCP-218, UCP-219, UCP-220, UCP-221, UCP-222, UCP-223, UCP-224, UCP-225, UCP-226, UCP-227, UCP-228, UCP-229, UCP-230, UCP-231, UCP-232, UCP-233, UCP-234, UCP-235, UCP-236, UCP-237, UCP-238, UCP-239, UCP-240, UCP-241, UCP-242, UCP-243, UCP-244, UCP-245, UCP-246, UCP-247, UCP-248, UCP-249, UCP-250, UCP-251, UCP-252, UCP-253, UCP-254, UCP-255, UCP-256, UCP-257, UCP-258, UCP-259, UCP-260, UCP-261, UCP-262, UCP-263, UCP-264, UCP-265, UCP-266, UCP-267, UCP-268, UCP-269, UCP-270, UCP-271, UCP-272, UCP-273, UCP-274, UCP-275, UCP-276, UCP-277, UCP-278, UCP-279, UCP-280, UCP-281, UCP-282, UCP-283, UCP-284, UCP-285, UCP-286, UCP-287, UCP-288, UCP-289, UCP-290, UCP-291, UCP-292, UCP-293, UCP-294, UCP-295, UCP-296, UCP-297, UCP-298, UCP-299, UCP-300, UCP-301, UCP-302, UCP-303, UCP-304, UCP-305, UCP-306, UCP-307, UCP-308, UCP-309, UCP-310, UCP-311, UCP-312, UCP-313, UCP-314, UCP-315, UCP-316, UCP-317, UCP-318, UCP-319, UCP-320, UCP-321, UCP-322, UCP-323, UCP-324, UCP-325, UCP-326, UCP-327, UCP-328, UCP-329, UCP-330, UCP-331, UCP-332, UCP-333, UCP-334, UCP-335, UCP-336, UCP-337, UCP-338, UCP-339, UCP-340, UCP-341, UCP-342, UCP-343, UCP-344, UCP-345, UCP-346, UCP-347, UCP-348, UCP-349, UCP-350, UCP-351, UCP-352, UCP-353, UCP-354, UCP-355, UCP-356, UCP-357, UCP-358, UCP-359, UCP-360, UCP-361, UCP-362, UCP-363, UCP-364, UCP-365, UCP-366, UCP-367, UCP-368, UCP-369, UCP-370, UCP-371, UCP-372, UCP-373, UCP-374, UCP-375, UCP-376, UCP-377, UCP-378, UCP-379, UCP-380, UCP-381, UCP-382, UCP-383, UCP-384, UCP-385, UCP-386, UCP-387, UCP-388, UCP-389, UCP-390, UCP-391, UCP-392, UCP-393, UCP-394, UCP-395, UCP-396, UCP-397, UCP-398, UCP-399, UCP-400, UCP-401, UCP-402, UCP-403, UCP-404, UCP-405, UCP-406, UCP-407, UCP-408, UCP-409, UCP-410, UCP-411, UCP-412, UCP-413, UCP-414, UCP-415, UCP-416, UCP-417, UCP-418, UCP-419, UCP-420, UCP-421, UCP-422, UCP-423, UCP-424, UCP-425, UCP-426, UCP-427, UCP-428, UCP-429, UCP-430, UCP-431, UCP-432, UCP-433, UCP-434, UCP-435, UCP-436, UCP-437, UCP-438, UCP-439, UCP-440, UCP-441, UCP-442, UCP-443, UCP-444, UCP-445, UCP-446, UCP-447, UCP-448, UCP-449, UCP-450, UCP-451, UCP-452, UCP-453, UCP-454, UCP-455, UCP-456, UCP-457, UCP-458, UCP-459, UCP-460, UCP-461, UCP-462, UCP-463, UCP-464, UCP-465, UCP-466, UCP-467, UCP-468, UCP-469, UCP-470, UCP-471, UCP-472, UCP-473, UCP-474, UCP-475, UCP-476, UCP-477, UCP-478, UCP-479, UCP-480, UCP-481, UCP-482, UCP-483, UCP-484, UCP-485, UCP-486, UCP-487, UCP-488, UCP-489, UCP-490, UCP-491, UCP-492, UCP-493, UCP-494, UCP-495, UCP-496, UCP-497, UCP-498, UCP-499, UCP-500, UCP-501, UCP-502, UCP-503, UCP-504, UCP-505, UCP-506, UCP-507, UCP-508, UCP-509, UCP-510, UCP-511, UCP-512, UCP-513, UCP-514, UCP-515, UCP-516, UCP-517, UCP-518, UCP-519, UCP-520, UCP-521, UCP-522, UCP-523, UCP-524, UCP-525, UCP-526, UCP-527, UCP-528, UCP-529, UCP-530, UCP-531, UCP-532, UCP-533, UCP-534, UCP-535, UCP-536, UCP-537, UCP-538, UCP-539, UCP-540, UCP-541, UCP-542, UCP-543, UCP-544, UCP-545, UCP-546, UCP-547, UCP-548, UCP-549, UCP-550, UCP-551, UCP-552, UCP-553, UCP-																

UCP CI Interoperability Matrix										
UCP CI (Release Version) Release Date Major vSphere Release		UCP CI DS G1/G2								
		Hardware								
		v6.0 Jul 21, 2023 8.0	v6.5 December 4, 2023 8.0u1	v6.6 March 15, 2024 8.0u2	v6.7 May 6, 2024 8.0u2					
Management and Compute Nodes: (DS120 G2)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		No Lake	No Lake	No Lake	No Lake					
Compute Nodes: (DS222 G2)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		No Lake	No Lake	No Lake	No Lake					
Management and Compute Nodes: (DS120 G1)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake					
Compute Nodes: (DS222 G1)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake					
Compute Nodes: (DS225 G1)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake					
Compute Nodes: (DS240 G1)										
Components		RAIS-H03	RAIS-H03	RAIS-H03	RAIS-H03	Notes				
RAIS		3.34.06	3.44.06	3.44.06	3.45.06	Advanced Server DS020 Gen1 support vSphere 7.0/24a onwards				
PFS		Not	Not	Not	Not					
CPU Family		Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake					
Supported I/O Cards										
Components										Notes
Network Cards (Options)										
Intel IBS174, 10Gb quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 1 & DS120 Gen 2				
RAIS-H086, DVID=1423, SVID=8086, SSD=0001		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 1 & DS120 Gen 2				
RAIS-H086, DVID=1423, SVID=8086, SSD=0003		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 1 & DS120 Gen 2				
RAIS-H086, DVID=1572, SVID=8086, SSD=0004		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 1 & DS120 Gen 2				
RAIS-H086, DVID=1572, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				
RAIS-H086, DVID=1149, SVID=8086, SSD=0002		Partner Appliance - 1.4.1.6.16vme	Partner Appliance - 1.4.1.1.2.0vme	Partner Appliance - 1.4.1.1.7.2vme	Partner Appliance - 1.4.1.1.7.2vme	Currently on Firmware 3 support				
Intel IBS174, 10Gb, quad port PCP		1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	1.8.3.0 or higher	Available on Advanced Server DS020 Gen 2 nodes				

Storage Models				
	Models			Notes
VSP	G200	83-05-43-x0/00	83-05-43-x0/00	attach Support Page - Click
VSP	G400	83-05-43-x0/00	83-05-43-x0/00	
VSP	G600	83-05-43-x0/00	83-05-43-x0/00	
VSP	G800	83-05-43-x0/00	83-05-43-x0/00	
VSP	G400	83-05-43-x0/00	83-05-43-x0/00	
VSP	F600	83-05-43-x0/00	83-05-43-x0/00	
VSP	F800	83-05-43-x0/00	83-05-43-x0/00	
VSP	F1500	88-08-04-x0/00	88-08-04-x0/00	
VSP	G1700	88-08-04-x0/00	88-08-04-x0/00	
VSP	G7000	88-08-04-x0/00	88-08-04-x0/00	
VSP	G9000	88-08-04-x0/00	88-08-04-x0/00	
VSP	F150	88-08-04-x0/00	88-08-04-x0/00	
VSP	F170	88-08-04-x0/00	88-08-04-x0/00	
VSP	F700	88-08-04-x0/00	88-08-04-x0/00	
VSP	F900	88-08-04-x0/00	88-08-04-x0/00	
VSP	G10000, VSP G1500, VSP F1500	90-08-21-00/00	90-08-21-00/00	
VSP	F990	93-06-22-40/00	93-06-22-40/00	
VSP	F990	93-06-22-40/00	93-06-22-40/00	
VSP	F990	93-06-22-60/00	93-06-22-60/00	
VSP	F12000	93-06-22-80/00	93-06-22-80/00	
VSP	5100, 5200, 5500, 5600	90-08-21-00/00	90-08-21-00/00	

Software						
Software Versions		Notes				
Vendor	Component					Notes
VMware	ESX	7.0U3d (Build # 19482537)	7.0U3g (Build # 20128353)	8.0 (Build # 20513097)		
VMware	Center(VCSA)	7.0U3d (Build # 19482537)	7.0U3g (Build # 20128353)	8.0 (Build # 20513097)		
VMware	VSAN	7.0U3d (Build # 19482537)	7.0U3g (Build # 20128353)	8.0 (Build # 20513097)		
Downloadable ZIPs						
Vendor	Component					Notes
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip		
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20207075.zip	Cisco_Firmware_20207075.zip	Cisco_Firmware_20207075.zip		
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt	Brocade_ReadMe.txt		
Hitachi	Adapter Firmware ZIP	Adapter_Firmware_20210729.zip	Adapter_Firmware_20211205.zip	Adapter_Firmware_20211205.zip		
Hitachi	Server Firmware ZIP	Server_Firmware_20207075.zip	Server_Firmware_20211205.zip	Server_Firmware_20221216.zip		
Hitachi	MB Packages	MB_20210906.zip	MB_20210906.zip	MB_20210906.zip		
Hitachi	VMware Software ZIP	vSphere7.0U3d-19482537_20207075.zip	vSphere7.0U3g_20208353_20211205.zip	DS_vSphere_6.7_20221216.zip DS_vSphere_7.x_20221216.zip DS_vSphere_8.x_20221216.zip		
Hitachi	UCPToolkit ZIP	UCPToolkit_v6.1_2020905.zip	UCPToolkit_v6.1_20211205.zip	UCPToolkit_v7.0_20221216.zip		
Main Mediatek ZIP		Notes				
Vendor	Component					Notes
Hitachi	UCP 4 Mediatek	UCP4-HC_Mediatek_V6.1_2020905.zip	UCP4-HC_Mediatek_V6.1_20211205.zip	UCP4-HC_Base_Mediatek_V7.0_20221216.zip		

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP CI w/ HA800 G2 server							HA
Hardware							
UCP CI (Release Version)		v7.0 (HA800 G2 specific components)					
Release date		December 23, 2022					
Major vSphere Release:		7.0 U3c		8.0			
Management and Compute Nodes : (HA810 G2)							
Components		Versions			Notes		
System ROM		U46 v1.58 (SPV 6.60)	U46 v1.58 (SPV 6.60)		Packaged with SPV image v 6.70		
ILO Firmware		v2.65 (SPV 6.60)	v2.65 (SPV 6.60)		System ROM & ILO are applied with SPV image.		
CPU Family		Icelake	Icelake				
Compute Nodes : (HA820 G2)							
Components		Versions			Notes		
System ROM		U46 v1.58 (SPV 6.60)	U46 v1.58 (SPV 6.60)		Packaged with SPV image v 6.70		
ILO Firmware		v2.65 (SPV 6.60)	v2.65 (SPV 6.60)		System ROM & ILO are applied with SPV image.		
CPU Family		Icelake	Icelake				
I/O Card Support for HA810 G2 / HA820 G2							
Components					Notes	VMware HCL / IOVP link:	
UCP Network Cards (Options)							
NT 1350 10GbE, 4p, BASE-T OCP3 Adptr		Firmware	1.3082.0 (SPV6.60)	1.3082.0 (SPV6.60)		VMware Compatibility Guide Link	
VID=8086, DVID=1521, SVID=8086, SSID=00a3		Intel-igbn Driver (ESXi)	Partner Async - 1.5.2.0-10EM	Partner Async - 1.9.1.0-10EM	Packaged with SPV image v 6.70		
NT 8B10 10/25GbE, 2p, SFP28 OCP3		Firmware	3.00 (SPV 6.60)	3.00 (SPV 6.60)		VMware Compatibility Guide Link	
VID=, DVID=, SVID=, SSID=		Intel-icen Driver (ESXi)	Partner Async - 1.6.2.0-10EM	Partner Async - 1.8.4.0-10EM	Packaged with SPV image v 6.70		
MLX MCK562A 10/25GbE, 2p, SFP28 OCP3 Adptr		Firmware	16.32.1010 (SPV 6.60)	16.32.1010 (SPV 6.60)		VMware Compatibility Guide Link	
VID=15b3, DVID=1017, SVID=15b3, SSID=0052		nmk5_core Driver (ESXi)	Partner Async - 4.21.71.101-10EM	VMware Inbox - 4.23.0.36-8vmw	Packaged with SPV image v 6.70		
BCM 57412 10GbE, 2p, SFP+ OCP3 Adptr		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d6, SVID=14e4, SSID=1594		bnxndr Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
BCM 57414 10/25GbE, 2p, SFP28 OCP3		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d7, SVID=14e4, SSID=1596		bnxndr Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
BCM 57416 10GbE, 2p, BASE-T OCP3 Adptr		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d8, SVID=14e4, SSID=1592		bnxndr Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
PCIe Network Cards (Options)							
NT 1350 10GbE, 4p, BASE-T PCIe Adptr		Firmware	1.3082.0 (SPV6.60)	1.3082.0 (SPV6.60)		VMware Compatibility Guide Link	
VID=8086, DVID=1521, SVID=8086, SSID=00a1		igbn Driver (ESXi)	Partner Async - 1.5.2.0-10EM	Partner Async - 1.9.1.0-10EM	Packaged with SPV image v 6.70		
NT 8B10 10/25GbE, 2p, SFP28 PCIe Adptr		Firmware	3.00 (SPV 6.60)	3.00 (SPV 6.60)		VMware Compatibility Guide Link	
VID=8086, DVID=159b, SVID=8086, SSID=0003		Intel-icen Driver (ESXi)	Partner Async - 1.6.2.0-10EM	Partner Async - 1.8.4.0-10EM	Packaged with SPV image v 6.70		
NT 8B10 10/25GbE, 4p, SFP28 PCIe Adptr		Firmware	3.00 (SPV 6.60)	3.00 (SPV 6.60)		VMware Compatibility Guide Link	
VID=8086, DVID=1593, SVID=8086, SSID=0005		Intel-icen Driver (ESXi)	Partner Async - 1.6.2.0-10EM	Partner Async - 1.8.4.0-10EM	Packaged with SPV image v 6.70		
NT 8B10 100GbE, 2p, QSFP28 PCIe Adptr		Firmware	3.00 (SPV 6.60)	3.00 (SPV 6.60)		VMware Compatibility Guide Link	
VID=8086, DVID=1592, SVID=8086, SSID=0002 (or 0004)		Intel-icen Driver (ESXi)	Partner Async - 1.6.2.0-10EM	Partner Async - 1.8.4.0-10EM	Packaged with SPV image v 6.70		
MLX MCK512F 10/25GbE, 2p, SFP28 PCIe Adptr		Firmware	16.32.1010 (SPV 6.60)	16.32.1010 (SPV 6.60)		VMware Compatibility Guide Link	
VID=15b3, DVID=1017, SVID=15b3, SSID=0116		nmk5_core Driver (ESXi)	Partner Async - 4.21.71.101-10EM	VMware Inbox - 4.23.0.36-8vmw	Packaged with SPV image v 6.70		
MLX MCK623106AS 100GbE, 2p, QSFP56 Adptr		Firmware	22.32.1010 (SPV 6.60)	22.32.1010 (SPV 6.60)		VMware Compatibility Guide Link	
VID=15b3, DVID=101d, SVID=15b3, SSID=0042		nmk5_core Driver (ESXi)	Partner Async - 4.21.71.101-10EM	VMware Inbox - 4.23.0.36-8vmw	Packaged with SPV image v 6.70		
BCM 57412 10GbE, 2p, SFP+ Adptr		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d6, SVID=14e4, SSID=1595		bnxndr Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
BCM 57414 10/25GbE, 2p, SFP28 PCIe Adptr		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d7, SVID=14e4, SSID=1597		nmk5_core Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
BCM 57416 10GbE, 2p BASE-T Adptr		Firmware	219.0.144.0 (SPV 6.60)	219.0.144.0 (SPV 6.60)		VMware Compatibility Guide Link	
VID=14e4, DVID=16d8, SVID=14e4, SSID=1593		bnxndr Driver (ESXi)	Partner Async - 218.0.38.0-10EM	Partner Async - 222.0.118.0-0EM	Packaged with SPV image v 6.70		
HBA Controller							
HPE SN1100 16Gb 1p FC HBA - (QLogic (Marvell), QLE2690)		Firmware	[09]01.75.07 (SPV 6.60)	[09]01.75.07 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1077, DVID=2261, SVID=1590, SSID=00f9		ghatwefc Driver (ESXi)	VMware Inbox - 4.1.14.0.26vmw	VMware Inbox - 5.2.46.0-2vmw	Packaged with SPV image v 6.70		
HPE SN1100Q 16Gb 2p FC HBA - (QLogic (Marvell), QLE2692)		Firmware	[09]01.75.07 (SPV 6.60)	[09]01.75.07 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1077, DVID=2261, SVID=1590, SSID=00fa		ghatwefc Driver (ESXi)	VMware Inbox - 4.1.14.0.26vmw	VMware Inbox - 5.2.46.0-2vmw	Packaged with SPV image v 6.70		
HPE SN1200E 16Gb 1p FC HBA - (Emulex (Broadcom), XE201)		Firmware	12.8.528.21 (SPV 6.60)	12.8.528.21 (SPV 6.60)		VMware Compatibility Guide Link	
VID=10df, DVID=e300, SVID=1590, SSID=0213		lpc Driver (ESXi)	Partner Async - 14.0.326.12-10EM	VMware Inbox - 14.0.635.3-14vmw	Packaged with SPV image v 6.70		
HPE SN1200E 16Gb 2p FC HBA - (Emulex (Broadcom), XE201)		Firmware	12.8.528.21 (SPV 6.60)	12.8.528.21 (SPV 6.60)		VMware Compatibility Guide Link	
VID=10df, DVID=e300, SVID=1590, SSID=0214		lpc Driver (ESXi)	Partner Async - 14.0.326.12-10EM	VMware Inbox - 14.0.635.3-14vmw	Packaged with SPV image v 6.70		
HPE SN1610Q 32Gb 1p FC HBA - (QLogic (Marvell), QLE2770)		Firmware	[09]02.05.03 (SPV 6.60)	[09]02.05.03 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1077, DVID=2281, SVID=1590, SSID=02d3		ghatwefc Driver (ESXi)	VMware Inbox - 4.1.14.0.26vmw	VMware Inbox - 5.2.46.0-2vmw	Packaged with SPV image v 6.70		
HPE SN1610Q 32Gb 2p FC HBA - (QLogic (Marvell), QLE2772)		Firmware	[09]02.05.03 (SPV 6.60)	[09]02.05.03 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1077, DVID=2281, SVID=1590, SSID=02d4		ghatwefc Driver (ESXi)	VMware Inbox - 4.1.14.0.26vmw	VMware Inbox - 5.2.46.0-2vmw	Packaged with SPV image v 6.70		
HPE SN1610E 32Gb 1p FC HBA - (Emulex (Broadcom) LPe3000)		Firmware	12.8.528.21 (SPV 6.60)	12.8.528.21 (SPV 6.60)		VMware Compatibility Guide Link	
VID=10df, DVID=f400, SVID=1590, SSID=02d5		lpc Driver (ESXi)	Partner Async - 14.0.326.12-10EM	VMware Inbox - 14.0.635.3-14vmw	Packaged with SPV image v 6.70		
HPE SN1610E 32Gb 2p FC HBA - (Emulex (Broadcom) LPe3000)		Firmware	12.8.528.21 (SPV 6.60)	12.8.528.21 (SPV 6.60)		VMware Compatibility Guide Link	
VID=10df, DVID=f400, SVID=1590, SSID=02d6		lpc Driver (ESXi)	Partner Async - 14.0.326.12-10EM	VMware Inbox - 14.0.635.3-14vmw	Packaged with SPV image v 6.70		
SAS/RAID Controller							
HPE SR408i-p 12G		Firmware	4.11 (SPV 6.60)	4.11 (SPV 6.60)		VMware Compatibility Guide Link	
VID=9005, DVID=028f, SVID=103c, SSID=0600		smartpoj Driver (ESXi)	Partner Async - 70.4150.0.119-10EM	VMware Inbox - 80.4253.0.5000-2vmw	Packaged with SPV image v 6.70		
HPE SR408i-a 12G		Firmware	4.11 (SPV 6.60)	4.11 (SPV 6.60)		VMware Compatibility Guide Link	
VID=9005, DVID=028f, SVID=103c, SSID=0602		smartpoj Driver (ESXi)	Partner Async - 70.4150.0.119-10EM	VMware Inbox - 80.4253.0.5000-2vmw	Packaged with SPV image v 6.70		
HPE MR416i-p 12G		Firmware	52.16.3-3913 (SPV 6.60)	52.16.3-3913 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1000, DVID=10e2, SVID=1590, SSID=0293		gi-mr3 Driver (ESXi)	VMware Inbox - 7.718.02.00-1vmw	VMware Inbox - 7.722.02.00-1vmw	Packaged with SPV image v 6.70		
HPE MR416i-a 12G		Firmware	03.01.09.056 (SPV 6.60)	03.01.09.056 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1000, DVID=10e2, SVID=1590, SSID=032a		gi-mr3 Driver (ESXi)	VMware Inbox - 7.718.02.00-1vmw	VMware Inbox - 7.722.02.00-1vmw	Packaged with SPV image v 6.70		
HPE R116i-a SR 12G		Firmware	4.11 (SPV 6.60)	4.11 (SPV 6.60)		VMware Compatibility Guide Link	
VID=9005, DVID=028f, SVID=103c, SSID=1100		smartpoj Driver (ESXi)	Partner Async - 70.4150.0.119-10EM	VMware Inbox - 80.4253.0.5000-2vmw	Packaged with SPV image v 6.70		
HPE SR932i-p 24G		Firmware	03.01.09.056 (SPV 6.60)	03.01.09.056 (SPV 6.60)		VMware Compatibility Guide Link	
VID=9005, DVID=028f, SVID=1590, SSID=0294		smartpoj Driver (ESXi)	Partner Async - 70.4150.0.119-10EM	VMware Inbox - 80.4253.0.5000-2vmw	Packaged with SPV image v 6.70		
Boot Controller							
N5204i-r (Riser)		Firmware	1.0.14.1060 (SPV 6.60)	1.0.14.1060 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1b46, DVID=2241, SVID=1590, SSID=030f		nvme_pcie Driver (ESXi)	VMware Inbox - 1.2.3.16-1vmw	VMware Inbox - 1.2.4.1-1vmw	Packaged with SPV image v 6.70		
N5204i-p (PCIe card)		Firmware	1.0.14.1060 (SPV 6.60)	1.0.14.1060 (SPV 6.60)		VMware Compatibility Guide Link	
VID=1b46, DVID=2241, SVID=1590, SSID=0216		nvme_pcie Driver (ESXi)	VMware Inbox - 1.2.3.16-1vmw	VMware Inbox - 1.2.4.1-1vmw	Packaged with SPV image v 6.70		
Drives for vSAN Cache and Capacity (Options) for HA 800 G2							
Components					Notes		
For accurate Firmware requirements for SSD and NVMe devices being used for vSAN cache and/or capacity drives, please refer to the following two reference items:					SSD/NVMe firmware is packaged and applied with SPV image v		
1) VMware Compatibility Guide: Hitachi Vantara vSAN Ready Node listings. (https://www.vmware.com/resources/compatibility/search.php?deviceCategory=vSANdetails&1&vSAN_type=vmwarereadynode&vSAN_partner=39&page=1&display_in_tutorial=10&sortColumn=Partner&sortOrder=Asc)							
2) The Service Pack for Vantara (SPV) Content.html file that is inside the SPV iso packaged in the UCP Medikit, as well as posted on the UCP download section on the https://support.hiatahivantara.com support portal will list all firmware (including firmware for SSD/NVMe devices)							
FC Switches							
Vendor						Notes	
Brocade		G620	9.0.1c	9.0.1c			
Brocade		G720	9.1.0b	9.1.0b			
Ethernet Switches							
Vendor							
Quanta		L89 Mgmt Switch	N/A	N/A			
Arista		DCS-7010T-48-R	4.25.4M	4.25.4M			
Arista		DCS-7050CK3-32S-R	4.25.4M	4.25.4M			
Arista		DCS-7050SK3-48YC-R	4.25.4M	4.25.4M			
Cisco		Nexus 3048	NXOS 9.3.8 (Compact)	NXOS 9.3.8 (Compact)		* These Cisco switches are used on UCP CI appliance from v4.0 and prior.	
Cisco		Nexus 93180LC-EX	NXOS 9.3.8	NXOS 9.3.8		* 9.3.7 (Compact NXOS) supported version on 3048.	
Cisco		Nexus 93180YC-EX	NXOS 9.3.8	NXOS 9.3.8			
Cisco		Nexus 9332PQ	N/A	N/A			
Cisco		Nexus 92348GC (1 G Mgmt)	NXOS 9.3.8	NXOS 9.3.8			
Cisco		Nexus 93180YC-FX (10/25G Leaf)	NXOS 9.3.8	NXOS 9.3.8			
Cisco		Nexus 9332C (100G Spine)	NXOS 9.3.8	NXOS 9.3.8			
Cisco		Nexus 93180YC-FX3 (10/25G Leaf)	NXOS 9.3.8	NXOS 9.3.8			

Cisco	Nexus 93600GC (100G Spine)	NXOS 9.3.8	NXOS 9.3.8	THese LAPDs RESULTS WERE PAGED FROM VERSION 2.0	
Storage Models					
	Models			Notes	
VSP	G200	83-05-43-x0/00	83-05-43-x0/00	Hitachi Support Page - FCNs	
VSP	G400	83-05-43-x0/00	83-05-43-x0/00		
VSP	G600	83-05-43-x0/00	83-05-43-x0/00		
VSP	G800	83-05-43-x0/00	83-05-43-x0/00		
VSP	F400	83-05-43-x0/00	83-05-43-x0/00		
VSP	F600	83-05-43-x0/00	83-05-43-x0/00		
VSP	F800	83-05-43-x0/00	83-05-43-x0/00		
VSP	G350	88-08-04-x0/00	88-08-04-x0/00		
VSP	G370	88-08-04-x0/00	88-08-04-x0/00		
VSP	G700	88-08-04-x0/00	88-08-04-x0/00		
VSP	G900	88-08-04-x0/00	88-08-04-x0/00		
VSP	F350	88-08-04-x0/00	88-08-04-x0/00		
VSP	F370	88-08-04-x0/00	88-08-04-x0/00		
VSP	F700	88-08-04-x0/00	88-08-04-x0/00		
VSP	F900	88-08-04-x0/00	88-08-04-x0/00		
VSP	G1000, VSP G1500, VSP F1500	80-06-87-00/00	80-06-87-00/00		
VSP	E590	93-06-22-40/00	93-06-22-40/00		
VSP	F790	93-06-22-40/00	93-06-22-40/00		
VSP	E990	93-06-22-60/00	93-06-22-60/00		
VSP	E1090	93-06-22-80/00	93-06-22-80/00		
VSP	S100, S200, S500, S600	90-08-21-00/00	90-08-21-00/00		
* Minimum Level or above					
GPU					
Vendor					
NVIDIA Tesla T4 VID=10de DVID=1e08, SVID=0000, SSID=12a2	Firmware	N/A	N/A		VMware Compatibility Guide Link
	NVD-VMware_ESXi_8.0.0_Driver	N/A	N/A	Compatible with HA810 G2 and HA820 G2	
NVIDIA A16 VID=10de DVID=25b6, SVID=0000, SSID=14a9	Firmware	N/A	N/A		VMware Compatibility Guide Link
	NVD-VMware_ESXi_8.0.0_Driver	N/A	N/A	Compatible with HA820 G3 only	
NVIDIA A40 VID=10de DVID=2235, SVID=0000, SSID=145a	Firmware	N/A	N/A		VMware Compatibility Guide Link
	NVD-VMware_ESXi_8.0.0_Driver	N/A	N/A	Compatible with HA820 G3 only	
NVIDIA A100 80GB PCIe VID=10de DVID=20b5, SVID=0000, SSID=20b5	Firmware	N/A	N/A		VMware Compatibility Guide Link
	NVD-VMware_ESXi_8.0.0_Driver	N/A	N/A	Compatible with HA820 G3 only	
Software					
Software Versions					
Vendor	Component			Notes	
VMware	ESXi	7.0U3c (Build # 19193900)	8.0 GA (Build # 20513097)		
VMware	vCenter(VCSA)	7.0U3c (Build # 19234570)	8.0 GA (Build # 20519528)		
VMware	VSAN	7.0U3c (Build # 19193900)	8.0 GA (Build # 20513097)		
Downloadable ZIPs					
Vendor	Component			Notes	
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip		
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20220705.zip	Cisco_Firmware_20220705.zip		
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt		
Hitachi	Adapter Firmware ZIP (OS Package)	Adapter_Firmware_20221205.zip	Adapter_Firmware_20231205.zip		
Hitachi	Server Firmware ZIP	Server_Firmware_20221216.zip	Server_Firmware_20230403.zip		
Hitachi	Server Firmware ZIP	N/A	N/A		
Hitachi	MB Package(s)	MB_20210906.zip	MB_20210906.zip		
Hitachi	VMware Software ZIP (v7.0 HA Package)	HA_vSphere_7.x_20221216.zip	HA_vSphere_7.x_20221216.zip		
Hitachi	VMware Software ZIP (v8.0 HA Package)	HA_vSphere_8.x_20221216.zip	HA_vSphere_8.x_20221216.zip		
Hitachi	UCPToolkit ZIP	UCPToolkit_v7.0_20221216.zip	UCPToolkit_v7.0_20230403.zip		
Main Mediakit ZIP					
Vendor	Component			Notes	
Hitachi	UCP CI Mediakit	UCPCI-HC_Base_Mediakit_v7.0_20221216.zip	UCPCI-HC_Base_Mediakit_v7.0.1_20230403.zip		

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmk5_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

Intel SSD 54510 Series (240 GB, M.2 2280)	Firmware	KC311120 - or higher	KC311120 - or higher	KC311120 - or higher	Only for DS240 Boot Device	VMware Compatibility Guide link
Toshiba / Kioxia BG4 Series - 256GB, M.2 2230	Firmware	N/A	N/A	N/A	Only available on Advanced Server DSx20 Gen 2 nodes. Only used as Boot device.	
Drives for vSAN Cache and Capacity (Options) for DS120/220						
Components					Notes	
Intel® Optane™ DC 118 GB Persistent Memory Module (NMA1X0D128GP)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher		
Intel® Optane™ DC 256 GB Persistent Memory Module (NMA1X0D256GP)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher		
Intel® Optane™ DC 512 GB Persistent Memory Module (NMA1X0D512GP)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher		
GPU						
Components					Notes	
NVIDIA Tesla M10	Nvidia Virtual GPU Software for vSphere	470.82	510.85.03	510.85.03	Available for DS225 G1	VMware Compatibility Guide link
NVIDIA Tesla M60	Nvidia Virtual GPU Software for vSphere	470.82	510.85.03	510.85.03	Available for DS225 G1	VMware Compatibility Guide link
NVIDIA Tesla P40	Nvidia Virtual GPU Software for vSphere	470.82	510.85.03	510.85.03	Available for DS225 G1	VMware Compatibility Guide link
NVIDIA Tesla V100	Nvidia Virtual GPU Software for vSphere	470.82	510.85.03	510.85.03	Available for DS225 G1	VMware Compatibility Guide link
NVIDIA Tesla T4	Nvidia Virtual GPU Software for vSphere	470.82	510.85.03	510.85.03	Available for DS120G1, DS220 G1, DS225 G1, DS120G2, DS220G2	VMware Compatibility Guide Link
NVIDIA Tesla A16	Nvidia Virtual GPU Software for vSphere	NA	510.47.03	510.47.03	Available for DS220 G2	VMware Compatibility Guide Link
NVIDIA Tesla A30	Nvidia Virtual GPU Software for vSphere	NA	510.47.03	510.47.03	Available for DS220 G2	VMware Compatibility Guide Link
NVIDIA Tesla A100-80G	Nvidia Virtual GPU Software for vSphere	NA	515.48.07	515.48.07	Available for DS220 G2	VMware Compatibility Guide Link
NVIDIA Tesla A2	Nvidia Virtual GPU Software for vSphere	NA	510.47.03	510.47.03	Available for DS220 G2	VMware Compatibility Guide Link

FC Switches						
Vendor					Notes	
Brocade	Models	2.0.1c	2.0.1c	2.0.1c		
Brocade	2720	2.1.0b	2.1.0b	2.1.0b		

Ethernet Switches						
Vendor					Notes	
Quanta	J89 Mgmt Switch	N/A	N/A	N/A		
Arista	DCS-7010T-48-8	4.25.4M	4.25.4M	4.25.4M		
Arista	DCS-7050CX3-32S-R	4.25.4M	4.25.4M	4.25.4M		
Arista	DCS-7050CX3-48CYR-R	4.25.4M	4.25.4M	4.25.4M		
Cisco	Nexus 3048	NXOS 9.3.8 [Compact]	NXOS 9.3.8 [Compact]	NXOS 9.3.8 [Compact]	* These Cisco switches are used on UCS F appliance from v4.0 and prior	
Cisco	Nexus 93180LC-EX	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8	* 9.3.7 (Compact NXOS) supported version on 3048.	
Cisco	Nexus 93180YC-EX	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8		
Cisco	Nexus 9332PC	N/A	N/A	N/A		
Cisco	Nexus 932480C (1 G Mgmt)	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8		
Cisco	Nexus 93180YC-FX (10/25G Leaf)	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8		
Cisco	Nexus 9332C (100G Spine)	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8		
Cisco	Nexus 93180YC-FS (10/25G Leaf)	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8		
Cisco	Nexus 93600SC (100G Spine)	NXOS 9.3.8	NXOS 9.3.8	NXOS 9.3.8	These CISCO switches were added from Version 5.3	

Storage Models						
Vendor					Notes	
VSP	Models	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	2400	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00	Link to Support Page - EChg	
VSP	2600	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	2800	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	3400	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	3600	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	3800	83-05-43-x0/00	83-05-43-x0/00	83-05-43-x0/00		
VSP	3150	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	3270	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	3700	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	3900	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	F350	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	F370	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	F390	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	F500	88-08-04-x0/00	88-08-04-x0/00	88-08-04-x0/00		
VSP	G1000, VSP G1500, VSP F1500	80-06-87-00/00	80-06-87-00/00	80-06-87-00/00		
VSP	I590	93-06-22-40/00	93-06-22-40/00	93-06-22-40/00		
VSP	I790	93-06-22-40/00	93-06-22-40/00	93-06-22-40/00		
VSP	I990	93-06-22-60/00	93-06-22-60/00	93-06-22-60/00		
VSP	L390	93-06-22-80/00	93-06-22-80/00	93-06-22-80/00		
VSP	S100, S200, S500, S600	90-08-21-00/00	90-08-21-00/00	90-08-21-00/00		

* Minimum Level or above

Software						
Software Versions						
Vendor					Notes	
VMware	ESXi	7.0U3d (Build # 19482537)	7.0U3g (Build # 20328353)	7.0U3g (Build # 20328353)		
VMware	vCenter(VCSA)	7.0U3d (Build # 19480866)	7.0U3g (Build # 20150588)	7.0U3g (Build # 20150588)		
VMware	vSAN	7.0U3d (Build # 19482537)	7.0U3g (Build # 20328353)	7.0 (Build # 20328353)		
Downloadable ZIPs						
Vendor					Notes	
Hitachi	Arista Network Firmware ZIP	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip		
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20220705.zip	Cisco_Firmware_20220705.zip	Cisco_Firmware_20220705.zip		
Hitachi	Storage Network Firmware ZIP	Brocade_BroadNet_tst	Brocade_BroadNet_tst	Brocade_BroadNet_tst		
Hitachi	Adapter Firmware ZIP	Adapter_Firmware_20220729.zip	Adapter_Firmware_20221205.zip	Adapter_Firmware_20221205.zip		
Hitachi	Server Firmware ZIP	Server_Firmware_20220705.zip	Server_Firmware_20221205.zip	Server_Firmware_20221205.zip		
Hitachi	MR Packager(C)	MRP_20210906.zip	MRP_20210906.zip	MRP_20210906.zip		
Hitachi	VMware Software ZIP	vsphere7.0u3d-19482537_20220705.zip	vsphere7.0u3g-20328353_20221205.zip	vsphere7.0u3g-20328353_20221205.zip		
Hitachi	UCP Toolkit ZIP	UCPToolkit_v6.1_20220905.zip	UCPToolkit_v6.3_20221205.zip	UCPToolkit_v6.3_20221205.zip		
Media Mediatek ZIP						
Vendor					Notes	
Hitachi	UCP C Mediatek	UCPC-HC_MediaKit_V6.1_20220905.zip	UCPC-HC_MediaKit_V6.3_20221205.zip	UCPC-HC_MediaKit_V6.3_20221205.zip		

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vsphere version, we check the driver/usb that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use mlnx_...core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/usb version, we identify the supported Firmware version for that driver/usb.

*This will sometimes result in selecting older versions of Firmware for a given I/O adapter.

UCP CI Interoperability Matrix							
UCP CI							
Hardware							
UCP CI (Release Version)		v5.2					
Release date		March 7, 2022					
Major vSphere Release:		6.5U3 P06	6.7U3 FP18	7.0 U3c			
Management and Compute Nodes : (DS120 G2)							
Components	Versions	Versions	Versions	Notes			
BIOS	N/A	N/A	3A12.H03	Advanced Server D5x20 Gen2 support vSphere 7.0U2a onward.			
BIAC	N/A	N/A	4.72.06				
CPUD	N/A	N/A	Rev11				
CPU Family	N/A	N/A	Ice Lake				
Compute Nodes : (DS220 G2)							
Components	Versions	Versions	Versions	Notes			
BIOS	N/A	N/A	3A12.H03	Advanced Server D5x20 Gen2 support vSphere 7.0U2a onward.			
BIAC	N/A	N/A	3.16.06				
CPUD	N/A	N/A	Rev7				
CPU Family	N/A	N/A	Ice Lake				
Management and Compute Nodes : (DS120 G1)							
Components	Versions	Versions	Versions	Notes			
BIOS	3B22.H00	3B22.H00	3B23.H00				
BIAC	4.70.06	4.70.06	4.72.06				
CPUD	Rev10 / Rev11	Rev10 / Rev11	Rev11				
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake				
Compute Nodes : (DS220 G1)							
Components	Versions	Versions	Versions	Notes			
BIOS	3B22.H00	3B22.H00	3B23.H00				
BIAC	4.70.06	4.70.06	4.72.06				
CPUD	Rev10 / Rev11	Rev10 / Rev11	Rev11				
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake				
Compute Nodes : (DS225 G1)							
Components	Versions	Versions	Versions	Notes			
BIOS	3B22.H00	3B22.H00	3B23.H00				
BIAC	4.70.06	4.70.06	4.72.06				
CPUD	Rev10 / Rev11	Rev10 / Rev11	Rev11				
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake	Skylake / Cascade Lake				
Compute Nodes : (DS240 G1)							
Components	Versions	Versions	Versions	Notes			
BIOS	3B22.H00	3B22.H00	3B23.H00				
BIAC	4.70.06	4.70.06	4.71.06				
CPUD	Rev11	Rev11	Rev11				
CPU Family	Skylake	Skylake / Cascade Lake	Skylake / Cascade Lake				
I/O Card Support for DS120/220/225/240							
Components	Versions			Notes	VMware HCL / I/OVP link:		
Network Cards (Options)							
Intel I350-T4, 1GbE quad-port PCIe	Firmware	N/A	N/A	1.63.0 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=1521, SVID=8086, SSID=00a1	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.4.111.2-1vmw			
Intel I350-T4, 1GbE quad-port QCP	Firmware	N/A	N/A	1.63.0 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=1523, SVID=8086, SSID=00a3	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.4.111.2-1vmw			
Intel X710-D4A, 10GbE quad-port PCIe	Firmware	N/A	N/A	8.30 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=1572, SVID=8086, SSID=0004	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.8.1.136-1vmw			
Intel X710-D4A, 10GbE quad-port QCP	Firmware	N/A	N/A	8.30 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=1572, SVID=8086, SSID=00a2	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.8.1.136-1vmw			
Intel X710-T4L, 10GbE, quad-port PCIe	Firmware	N/A	N/A	8.30 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=15f1, SVID=8086, SSID=0002	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.8.1.136-1vmw			
Intel X710-T4L, 10GbE, quad-port QCP	Firmware	N/A	N/A	8.30 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=15f1, SVID=8086, SSID=000a	igbn Driver (ESX)	N/A	N/A	VMware Inbox - 1.8.1.136-1vmw			
Intel E810-XVDA2, 10GbE dual-port PCIe	Firmware	N/A	N/A	3.0 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=15b9, SVID=8086, SSID=0003	igbn Driver (ESX)	N/A	N/A	Partner Async - 1.6.5.0-10EM			
Intel E810-XVDA2, 10GbE dual-port QCP	Firmware	N/A	N/A	3.0 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=8086, DVID=15b9, SVID=8086, SSID=0005	igbn Driver (ESX)	N/A	N/A	Partner Async - 1.6.5.0-10EM			
Mellanox CX-6 MCX63102AN-ADA, An 25GbE, dual-port PCIe	Firmware	N/A	N/A	26.29.2002 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
	vmnic5_core Driver (ESX)	N/A	N/A	Partner Async - 4.21.71.101			
Mellanox CX-6 MCX631432AN-ADA, An 25GbE, dual-port QCPs	Firmware	N/A	N/A	26.29.2002 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
	vmnic5_core Driver (ESX)	N/A	N/A	Partner Async - 4.21.71.101			
Intel X557-T4, 10GbBase-T quad port, QCP Mezz	Firmware	N/A	N/A	4.30	Also listed on VMware HCL as: "Intel® Ethernet Connection X722 for 10GBASE-T"	VMware Compatibility Guide Link for X722	
VID=8086, DVID=8742, SVID=1536, SSID=8a3f	igbn Driver (ESX)	1.5.6	1.7.17	VMware Inbox - 1.11.1.31-1vmw			
Intel XW710-D4, 10/25/40GbE dual port, PCIe	Firmware	6.0.1	7.30	8.30 - or higher	Listed on VMware HCL as: "Intel® Ethernet Network Adapter XW710-2"	VMware Compatibility Guide Link	
VID=8086, DVID=158a, SVID=8086, SSID=0003	igbn Driver (ESX)	1.5.6	1.7.17	VMware Inbox - 1.11.1.31-1vmw			
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, QCP Mezz (except DS240) (Quanta ON 25GbE CNA Lx EN Dual port)	Firmware	14.23.1020	14.26.1040	14.28.2006	Listed on VMware HCL as: "ON 25GbE ConnectX-4 Lx EN Dual port"	VMware Compatibility Guide Link	
VID=1583, DVID=1015, SVID=1526, SSID=8a15	vmnic5_core Driver (ESX)	4.36.14.2	4.17.14.2	VMware Inbox - 4.19.16.11			
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MQ2 (Pcie) (MCX4121A-ACA)	Firmware	14.23.1020	14.27.1016	14.28.2006 - or higher	Listed on VMware HCL as: "ConnectX-4 Lx EN NIC, 25GbE; dual-port SFP28; (MCX4121A-ACA)"	VMware Compatibility Guide Link	
VID=1583, DVID=1015, SVID=1583, SSID=0003	vmnic5_core Driver (ESX)	4.36.14.2	4.17.14.2	VMware Inbox - 4.19.16.11			
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, Pcie (MCX516A-CCAT)	Firmware	16.27.1016	16.27.1016	16.28.2006 - or higher	Listed on VMware HCL as: "ConnectX-5 Lx EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)"	VMware Compatibility Guide Link	
VID=1583, DVID=1017, SVID=1583, SSID=0007	vmnic5_core Driver (ESX)	16.14.2	4.17.14.2	VMware Inbox - 4.19.16.11			
HBA Controller							
Emulex LPe31002 FC HBA	Firmware	12.0.193.13	12.0.193.8	12.8.542.26 - or higher	Listed on VMware HCL as: "Emulex LightPulse LPe31002-M8 2-Port 16Gb Fibre Channel Adapter"	VMware Compatibility Guide Link	
VID=10df, DVID=4300, SVID=10df, SSID=4e310	qfc Driver (ESX)	12.0.193.14	12.0.193.14	Partner Async - 14.0.326.12			
Emulex LPe32002 FC HBA	Firmware	12.0.193.13	12.0.193.8	12.8.542.26 - or higher	Listed on VMware HCL as: "Emulex LightPulse LPe32002-M8 2-Port 32Gb Fibre Channel Adapter"	VMware Compatibility Guide Link	
VID=10df, DVID=4300, SVID=10df, SSID=4e300	qfc Driver (ESX)	12.0.193.14	12.0.193.14	Partner Async - 14.0.326.12			
Emulex LPe5002 FC HBA	Firmware	N/A	N/A	12.8.542.26 - or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=10df, DVID=4600, SVID=10df, SSID=4602	qfc Driver (ESX)	N/A	N/A	Partner Async - 14.0.326.12			
RAID Controller							
Broadcom 5A5318 2GB RAID Mezzanine	Firmware	5.040.00.1123	5.100.00.2651	5.100.00.2651	Listed on VMware HCL as: "QS-3516B-R6-P032"	VMware Compatibility Guide Link	
VID=1000, DVID=0014, SVID=1526, SSID=9400	lsi-m3 Driver (ESX)	7.704.7.0	7.707.11	VMware Inbox - 7.716.03.00			
Broadcom 9460-16i	Firmware	N/A	N/A	5.130.00.3059 or higher	Listed on VMware HCL as: "MEGARaid SAS 9460-16i". Used for RAID Boot devices on exceptions.	VMware Compatibility Guide Link	
VID=1000, DVID=0014, SVID=1000, SSID=9460	lsi-m3 Driver (ESX)	N/A	N/A	VMware Inbox - 7.718.02.00-1vmw			
Broadcom 953916i	Firmware	N/A	N/A	5.170.00.3513 - or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=1000, DVID=10a2, SVID=1526, SSID=00cd	lsi-m3 Driver (ESX)	N/A	N/A	VMware Inbox - 7.716.03.00-1vmw			
Broadcom 9550-16i	Firmware	N/A	N/A	5.130.02.3059 or higher	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=1000, DVID=10a2, SVID=1000, SSID=4000	lsi-m3 Driver (ESX)	N/A	N/A	VMware Inbox - 7.718.02.00-1vmw			
SAS Controller							
Quantax Q5-214 Mezz Card	Firmware	1A14 (15.00.00.00) [20190530]	1A14 (15.00.00.00) [20190530]	1A22 (16.00.00.00)	Listed on VMware HCL as: "QS-8210"	VMware Compatibility Guide Link	
VID=1000, DVID=00c3, SVID=1526, SSID=8a12	lsi-m3 Driver (ESX)	1A22 (16.00.00.00) [20190530]	1A22 (16.00.00.00) [20190530]	VMware Inbox - 17.00.10.0			
Broadcom 5A5309-16i PCIe (only for DS225)	Firmware	15.00.00.00	15.00.00.00	16.00.00.00	Listed on VMware HCL as: "9305-16i"	VMware Compatibility Guide Link	
VID=1000, DVID=00c4, SVID=1000, SSID=4190	lsi-m3 Driver (ESX)	16.00.00.00-10EM	16.00.00.00-10EM	VMware Inbox - 17.00.10.0			
Quantax Q52616 Mezz Card	Firmware	N/A	N/A	18.00.01.00	Only for DS225 and DS220 SFF	VMware Compatibility Guide Link	
VID=1000, DVID=00a6, SVID=1526, SSID=00cc	lsi-m3 Driver (ESX)	N/A	N/A	VMware Inbox - 15.00.02.00-1vmw			
Broadcom 9500-16i	Firmware	N/A	N/A	18.00.00.00	Only available on Advanced Server D5x20 Gen 2 nodes	VMware Compatibility Guide Link	
VID=1000, DVID=00a6, SVID=1000, SSID=4050	lsi-m3 Driver (ESX)	N/A	N/A	VMware Inbox - 19.00.02.00-1vmw			
Drives for vSAN Cache and Capacity (Options) for DS120/220/225/240							
Components	Versions			Notes			
Intel SSD DC P3600 Series (NVMe, 2.5" U2) [All except DS225]	Firmware	N/A	BDV10110 - or higher	BDV10110 - or higher	Not compatible with DS225	VMware Compatibility Guide Link	
Intel SSD DC P4600 Series (NVMe, 2.5" U2) [All except DS225]	Firmware	QDV10101 - or higher	QDV10101 - or higher	QDV10101 - or higher			
Intel SSD DC P4510 Series (NVMe, 2.5" U2) [All except DS225]	Firmware	VDV10131 - or higher	VDV10170 - or higher	VDV10170 - or higher	Not compatible with DS225	VMware Compatibility Guide Link	
Intel SSD DC P4600 Series (NVMe, 2.5" U2) [All except DS225]	Firmware	QDV10101 - or higher	QDV10101 - or higher	QDV10101 - or higher			
Intel SSD DC P4610 Series (NVMe, 2.5" U2) [All except DS225]	Firmware	VDV10140 - or higher	VDV10170 - or higher	VDV10170 - or higher	Not compatible with DS225	VMware Compatibility Guide Link	
Intel Optane SSD DC P4800 Series NVMe (NVMe, 375GB, 2.5" U2) [All except DS225]	Firmware	E3010455 - or higher	E3010475 - or higher	E3010475 - or higher			
Intel Optane SSD DC P4800 Series NVMe (NVMe, 750GB, 2.5" U2) [All except DS225]	Firmware	E3010455 - or higher	E3010475 - or higher	E3010475 - or higher	Not compatible with DS225	VMware Compatibility Guide Link	
Driver (ESX)	intel-nvme-vmd 1.6.0.1003 (Async driver)	intel-nvme-vmd 1.8.1.1001 (Async driver)	VMware Inbox - nvme-pcie 1.2.3.16				
NVMe Driver	Driver (ESX)						
Intel SSD DC S4500 Series	Firmware	SCV10121 - or higher	SCV10121 - or higher	SCV10121 - or higher	* Requires SAS Controller * The min. version as listed on The VMware CG * Strongly suggested to use recommended version.	VMware Compatibility Guide Link	
Intel SSD DC S4510 Series	Firmware	XCV10100 - or higher	XCV10100 - or higher	XCV10100 - or higher			
Intel SSD DC S4600 Series	Firmware	SCV10121 - or higher	SCV10121 - or higher	SCV10121 - or higher	* Requires SAS Controller * The min. version as listed on The VMware CG * Strongly suggested to use recommended version.	VMware Compatibility Guide Link	
Intel SSD DC S4610 Series	Firmware	XCV10100 - or higher	XCV10100 - or higher	XCV10100 - or higher			
Samsung SATA SSD PM883a Series	Firmware	GXT52042 - or higher	GXT52042 - or higher	GXT52042 - or higher	Requires SAS Controller	VMware Compatibility Guide Link	
Samsung SATA SSD PM883 Series	Firmware	HXT12042 - or higher	HXT12042 - or higher	HXT12042 - or higher			
Seagate SAS11 HDD 15000 rpm, 2.5 inch	Firmware	E004 - or higher	E004 - or higher	E004 - or higher	Requires SAS Controller	VMware Compatibility Guide Link	
Seagate SAS11 HDD 7200 rpm, 3.5 inch (only for DS220 3.5 960)	Firmware	E002 - or higher	E002 - or higher	E002 - or higher			
Intel SSD S4510 Series (240 GB, M.2 2280)	Firmware	XC11120 - or higher	XC11120 - or higher	XC11120 - or higher	Only for DS240 Boot Device	VMware Compatibility Guide Link	
Toshiba / Kioxia BG4 Series - 256GB, M.2 2230	Firmware	N/A	N/A	N/A			
Drives for vSAN Cache and Capacity (Options) for DS120/220							
Components	Versions			Notes			
Intel® Optane™ DC 128 GB Persistent Memory Module (NMA1X0D128P9)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher	VMware Compatibility Guide Link		
Intel® Optane™ DC 256 GB Persistent Memory Module (NMA1X0D256P9)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher			
Intel® Optane™ DC 512 GB Persistent Memory Module (NMA1X0D512P9)	Firmware	1.2.0.5375 - or higher	1.2.0.5375 - or higher	1.2.0.5375 - or higher			
GPU							
Components	Versions			Notes			

NVIDIA Tesla M10	Nvidia Virtual GPU Software for vSphere	440.53	450.55	470.82	Available for DS225 G1	VMware Compatibility Guide Link
NVIDIA Tesla M60	Nvidia Virtual GPU Software for vSphere	440.53	450.55	470.82	Available for DS225 G1	VMware Compatibility Guide Link
NVIDIA Tesla P40	Nvidia Virtual GPU Software for vSphere	440.53	450.55	470.82	Available for DS225 G1	VMware Compatibility Guide Link
NVIDIA Tesla V100	Nvidia Virtual GPU Software for vSphere	440.53	450.55	470.82	Available for DS225 G1	VMware Compatibility Guide Link
NVIDIA Tesla T4	Nvidia Virtual GPU Software for vSphere	440.53	450.55	470.82	Available for DS12001, DS220 G1, DS225 G1, DS12002, DS22002	VMware Compatibility Guide Link
NVIDIA Tesla A100	Nvidia Virtual GPU Software for vSphere	N/A	N/A	470.82	Available for DS12001, DS220 G1, DS225 G1	VMware Compatibility Guide Link

FC Switches

Vendor	Models	Firmware Versions	Notes			
Brocade	6240		8.0.1c	8.0.1c		

Ethernet Switches

Vendor	Models	Firmware Versions	Notes			
Quanta	BB Mgmt Switch	N/A	N/A	N/A		
Arista	DCS-7030T-48-R	4.25.4M	4.25.4M	4.25.4M		
Arista	DCS-7050CX3-32S-R	4.25.4M	4.25.4M	4.25.4M		
Arista	DCS-7050CX3-48YC8-R	4.25.4M	4.25.4M	4.25.4M		
Cisco	Nexus 3048	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above		
Cisco	Nexus 91380LC-EX	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above		
Cisco	Nexus 91380YC-EX	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above	N/A - No longer used in UCSF CI v4.0 and above		
Cisco	Nexus 9132PX	N/A	N/A	N/A		
Cisco	Nexus 923480C (1 G Mgmt)	NXOS 9.3.5 or 9.3.7	NXOS 9.3.5 or 9.3.7	NXOS 9.3.7		
Cisco	Nexus 91380YC-EX	NXOS 9.3.5 or 9.3.7	NXOS 9.3.5 or 9.3.7	NXOS 9.3.7		
Cisco	Nexus 91380YC-FX (10/75G Leaf)	NXOS 9.3.5 or 9.3.7	NXOS 9.3.5 or 9.3.7	NXOS 9.3.7		
Cisco	Nexus 9332C (100G Spine)	NXOS 9.3.5 or 9.3.7	NXOS 9.3.5 or 9.3.7	NXOS 9.3.7		

Storage Models

Models	Notes			
VSP	6200	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	6400	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	6500	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	6800	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	7400	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	7600	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	7800	83-05-43-40/00	83-05-43-40/00	83-05-43-40/00
VSP	8210	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	8370	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	8700	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	8900	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	9100	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	9370	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	9700	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	9900	88-08-04-40/00	88-08-04-40/00	88-08-04-40/00
VSP	G1000, VSP G1500, VSP F1500	80-06-87-00/00	80-06-87-00/00	80-06-87-00/00
VSP	E590	93-05-02-40/00	93-05-02-40/00	93-05-22-40/00
VSP	E790	93-06-22-40/00	93-05-02-40/00	93-06-22-40/00
VSP	E990	93-06-22-60/00	93-05-02-60/00	93-06-22-60/00
VSP	S2000	93-06-22-60/00	93-05-22-60/00	93-06-22-60/00
VSP	S100, S200, S500, S600	90-08-21-00/00	90-08-21-00/00	90-08-21-00/00

* Minimum Level or above

Software

Software Versions	Component	Versions	Notes			
Vendor						
VMware	ESX	6.5U3 P06 (Build #17477841)	6.7U3 EP18 (Build # 17499825)	7.0U3c (Build # 19193900)		
VMware	VCXen(VCSA)	6.5U3n (Build # 17590285)	6.7U3L (Build # 17138064)	7.0U3c (Build # 19193900)		
VMware	VCAN	6.5.1	6.7	7.0U3c (Build # 19193900)		
Downloadable ZIPs						
Vendor	Component	Filename				
Hitachi	Hitachi Network Firmware ZIP	Hitachi_Firmware_20210906.zip	Arista_Firmware_20210906.zip	Arista_Firmware_20210906.zip		
Hitachi	Cisco Network Firmware ZIP	Cisco_Firmware_20210906.zip	Cisco_Firmware_20210906.zip	Cisco_Firmware_20210906.zip		
Hitachi	Storage Network Firmware ZIP	Brocade_ReadMe.txt	Brocade_ReadMe.txt	Brocade_ReadMe.txt		
Hitachi	Adaptor Firmware ZIP	Adaptor_Firmware_20220307.zip	Adaptor_Firmware_20220307.zip	Adaptor_Firmware_20220307.zip		
Hitachi	Server Firmware ZIP	Server_Firmware_20220307.zip	Server_Firmware_20220307.zip	Server_Firmware_20220325.zip		
Hitachi	MBB Packages	MBB_20210906.zip	MBB_20210906.zip	MBB_20210906.zip		
Hitachi	Firmware Software ZIP	adapters_software_171477841_20210224	adapters_software_17499825_20210224	adapters_software_19193900_20220414.zip		
Hitachi	UCFToolkit ZIP	UCFToolkit_v5.2_20220307.zip	UCFToolkit_v5.2_20220307.zip	UCFToolkit_v5.2_20220325.zip		
Main Mediakit ZIP						
Vendor	Component	Filename				
Hitachi	ICPCI-HC_Mediakit	ICPCI-HC_Mediakit_v5.2_20220307.zip	ICPCI-HC_Mediakit_v5.2_20220307.zip	ICPCI-HC_Mediakit_v5.2_20220414.zip		

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMware Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use rmlG_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter

Note: As mentioned in the logic of how Firmware versions are decided on for the various QD cards, below, the programming was for the 9MFA version. Compatibility check for supported versions and combinations:

- Step 1 - For a given *qdrive* version, we check the *drive* (ids that is used for each QD) adapter.
- Step 2 - For QD cards that use the same driver (i.e. all 9MFA cards use *winusb_qd*, same driver) we identify the version that is Common across all adapters.
- Step 3* - For each QD card, using the common *drive* (ids) version, we identify the supported firmware version for that drive (ids).

*This will sometimes result in selecting older versions of firmware for a given QD adapter.

UCP CI Interoperability Matrix											
UCP CI v2.0.0 - v2.5.0 Hardware											
UCP CI (Release Version)		v2.0.0		v2.1.0		v2.1.0 / v2.1.9		v2.5.0			
Release date		August 6th, 2018		September 17th, 2018		November 19th, 2018 / April 30th, 2019		September 3rd, 2019			
Major vSphere Release		6.5U2		6.5U2		6.5U2		6.5U2		6.7U2	
Management and Compute Nodes :											
Component		Hitachi Advanced Server D5120		Variants		Variants		Variants		Variants	
D5120		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
D5120 Family		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
Compute Nodes :											
Component		Hitachi Advanced Server D5220		Variants		Variants		Variants		Variants	
D5220		D5220-001		D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001
D5220 Family		D5220-001		D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001	D5220-001
Compute Nodes :											
Component		Hitachi Advanced Server D5225		Variants		Variants		Variants		Variants	
D5225		D5225-001		D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001
D5225 Family		D5225-001		D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001	D5225-001
Compute Nodes :											
Component		Hitachi Advanced Server D5240		Variants		Variants		Variants		Variants	
D5240		D5240-001		D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001
D5240 Family		D5240-001		D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001	D5240-001
UCI Card Support for D5120/D5220/D5240											
Component		Network Cards (Options)		Variants		Variants		Variants		Variants	
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001	D5120-001
NIC		D5120-001		D5120-001							

UCP CI Interoperability Matrix						
UCP CI v1.0.1 - 1.5.0						
Hardware						
UCP CI (Release Version)	v1.0.1	v1.1	v1.1.1	v1.5.0		
Release date	September 7th, 2017	February 5th, 2018	April 9th, 2018	June 4th, 2018		
Major vSphere Release:	6.5U1	6.5U1	6.5U1	6.5U2		
Management and Compute Nodes :						
Components	Hitachi Advanced Server DS120					
BIOS	Version 1A08.02	Version 1A08.02	Version 1A08.03	Version 1A10.03	Notes	
BMAC	3.16.06	3.16.06	3.75.06	3.75.06		
CPUD	Rev10	Rev10	Rev10	Rev10		
CPU Family	SkyLake	SkyLake	SkyLake	SkyLake		
Compute Nodes :						
Components	Hitachi Advanced Server DS220					
BIOS	N/A	N/A	N/A	N/A	Notes	
BMAC	N/A	N/A	N/A	N/A		
CPUD	N/A	N/A	N/A	N/A		
CPU Family	N/A	N/A	N/A	N/A		
Compute Nodes :						
Components	Hitachi Advanced Server DS225					
BIOS	N/A	N/A	N/A	N/A	Notes	
BMAC	N/A	N/A	N/A	N/A		
CPUD	N/A	N/A	N/A	N/A		
CPU Family	N/A	N/A	N/A	N/A		
Compute Nodes :						
Components	Hitachi Advanced Server DS240					
BIOS	N/A	N/A	N/A	N/A	Notes	
BMAC	N/A	N/A	N/A	N/A		
CPUD	N/A	N/A	N/A	N/A		
CPU Family	N/A	N/A	N/A	N/A		
I/O Card Support for DS120/220/225/240						
Components	Versions	Versions	Versions	Versions	Notes	
Network Cards (Options)						
Intel X527-04, 10GbE quad-port, OCP Mezz	Firmware 3.2d	3.2d	3.2d	3.2d	Listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GbE SFP+"	
Aden Driver (ESX)	1.3.1 (inbox driver)	1.3.1 (inbox driver)	1.5.6	1.5.6		
Intel X557-T4, 10GbE-1 quad-port, OCP Mezz	Firmware 3.2d	3.2d	3.2d	3.2d	Listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GbE SFP+"	
Aden Driver (ESX)	1.3.1 (inbox driver)	1.3.1 (inbox driver)	1.5.6	1.5.6		
Intel XXV710-D42, 10/25/40GbE dual-port, PCIe	Firmware N/A	N/A	N/A	N/A	6.0.1	
Aden Driver (ESX)	N/A	N/A	N/A	N/A	1.5.6	
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240)	Firmware 14.18.1000	14.18.1000	14.20.1010	14.20.1010	ON 25GbE ConnectX-4 Lx EN Dual port*	
pm104_core Driver (ESX)	3.16.0.0-1 (inbox driver)	N/A	N/A	N/A		
pm104_core Driver (ESX)	N/A	4.16.8.8	4.16.10.3	4.16.10.3	Fw 14.21.1000 supported with driver 4.16.12.12 Async driver	
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2 (PCIe)	Firmware 14.18.1000	14.18.1000	14.20.1010	14.20.1010	Listed on VMware HCL as: "ConnectX-4 Lx EN NIC, 25GbE, dual-port SFP28, MCK4121A-ACA"	
pm104_core Driver (ESX)	3.16.0.0-1 (inbox driver)	N/A	N/A	N/A		
pm104_core Driver (ESX)	N/A	4.16.8.8	4.16.10.3	4.16.10.3		
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16	Firmware N/A	N/A	N/A	N/A	Listed on VMware HCL as: "ConnectX-5 Lx EN network interface card, 100GbE dual-port QSFP28 (MCO516A-CAAT)"	
pm104_core Driver (ESX)	N/A	N/A	N/A	N/A		
pm104_core Driver (ESX)	N/A	N/A	N/A	N/A		
HBA Controller						
Emulex LPe11002 FC HBA	Firmware 11.2.156.27	11.2.156.27	11.2.156.27	11.2.156.27		
igfc Driver (ESX)	11.2.266.0	11.2.266.0	11.2.266.0	11.2.266.0		
Emulex LPe12002 FC HBA	Firmware 11.2.156.27	11.2.156.27	11.2.156.27	11.2.156.27		
igfc Driver (ESX)	11.2.266.0	11.2.266.0	11.2.266.0	11.2.266.0		
RAID Controller						
Broadcom SAS3516 2GB RAID Mezzanine	Firmware N/A	N/A	N/A	N/A		
pm3 Driver (ESX)	N/A	N/A	N/A	N/A		
SAS Controller						
25-3216 Mezz Card	Firmware N/A	N/A	N/A	N/A	Only for DS120 and DS220	
pm3 Driver (ESX)	N/A	N/A	N/A	N/A		
Broadcom SAS9305-16i PCIe (only for DS225)	Firmware N/A	N/A	N/A	N/A	Only for DS225	
pm3 Driver (ESX)	N/A	N/A	N/A	N/A		
Drives for vSAN Cache and Capacity (Options) for DS120/220/225						
Components	Versions	Versions	Versions	Versions	Notes	
Intel SSD DC P3600 Series (NVMe, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel SSD DC P4500 Series (NVMe, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel SSD DC P4510 Series (NVMe, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel Optane SSD DC P4800X Series NVMe (NVMe, 375GB, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel Optane SSD DC P4800X Series NVMe (NVMe, 375GB, 2.5" U2) (All except DS225)	Firmware N/A	N/A	N/A	N/A	Not compatible with DS225	
Intel Optane SSD DC P4800X Series NVMe (NVMe, 375GB, 2.5" U2) (All except DS225)	Driver (ESX) N/A	N/A	N/A	N/A	Not compatible with DS225	
VMM Driver						
Intel SSD DC S4500 Series	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Intel SSD DC S4510 Series	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Intel SSD DC S4600 Series	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Intel SSD DC S4610 Series	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Samsung SATA SSD PM883a Series	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Seagate SASIII HDD 10000 rpm, 3.5 inch	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
Seagate SASIII HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SKU)	Firmware N/A	N/A	N/A	N/A	Requires SAS Controller	
GPU for DS225						
Components	Versions	Versions	Versions	Versions	Notes	
NVIDIA Tesla M10	Nvidia Virtual GPU Software for vSphere N/A	N/A	N/A	N/A		
NVIDIA Tesla M60	Nvidia Virtual GPU Software for vSphere N/A	N/A	N/A	N/A		
NVIDIA Tesla P40	Nvidia Virtual GPU Software for vSphere N/A	N/A	N/A	N/A		
NVIDIA Tesla V100	Nvidia Virtual GPU Software for vSphere N/A	N/A	N/A	N/A		
FC Switches						
Vendor	Models	Firmware Versions	Firmware Versions	Firmware Versions	Firmware Versions	Notes
Brocade	66620	v8.1.0b	v8.1.0b	v8.1.0b	v8.1.0b	
Ethernet Switches						
Vendor	Models	Firmware Versions	Firmware Versions	Firmware Versions	Firmware Versions	Notes
Quanta	BB9 Mgmt Switch	N/A	N/A	N/A	N/A	
Cisco	Nexus 3048	7.0(3)(4)(6)	7.0(3)(4)(6)	7.0(3)(4)(6)	7.0(3)(4)(6)	
Cisco	Nexus 91380LC-EX	7.0(3)(7)(1)	7.0(3)(7)(1)	7.0(3)(7)(1)	7.0(3)(7)(1)	
Cisco	Nexus 91380MC-EX	7.0(3)(4)(6)	7.0(3)(4)(6)	7.0(3)(4)(6)	7.0(3)(4)(6)	
Cisco	Nexus 9332PQ	N/A	N/A	N/A	N/A	
Storage Models						
Models	Microcode Versions	Microcode Versions	Microcode Versions	Microcode Versions	Notes	
VSP	6200	83-04-26-20/00	83-04-26-20/00	83-04-26-20/00	83-04-26-20/00	
VSP	6400	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP	6400	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP	6800	83-04-26-60/00	83-04-26-60/00	83-04-26-60/00	83-04-26-60/00	
VSP	6400	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP	6600	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP	6800	83-04-26-60/00	83-04-26-60/00	83-04-26-60/00	83-04-26-60/00	
VSP	6350	N/A	N/A	N/A	88-01-04-40/00	
VSP	6370	N/A	N/A	N/A	88-01-04-40/00	
VSP	6700	N/A	N/A	N/A	88-01-04-40/00	
VSP	6900	N/A	N/A	N/A	88-01-04-40/00	
VSP	6350	N/A	N/A	N/A	88-01-04-40/00	
VSP	6370	N/A	N/A	N/A	88-01-04-40/00	
VSP	6700	N/A	N/A	N/A	88-01-04-40/00	
VSP	6900	N/A	N/A	N/A	88-01-04-40/00	
* Minimum Level or above						
Software						
Software Versions						
Vendor	Component	Versions	Versions	Versions	Versions	Notes
VMware	ESXi	6.5U1 (Build # 1969303)	6.5U1 (Build # 6765664)	6.5U1 (Build # 7188607)	6.5U2 (Build # 8294253)	
VMware	vCenter(VCSA)	6.5U1 (Build # 5973321)	6.5U1 (Build # 5973321)	6.5U1 (Build # 7515524)	6.5U2 (Build # 8307201)	
VMware	vSAN	N/A	N/A	N/A	N/A	
Hitachi	UCP Advisor	2.0	2.5	2.5	2.5	* Requires at least VCSA 6.5U2c
Downloadable ZIPs						
Vendor	Component	Filename	Filename	Filename	Filename	Notes
Hitachi	Ethernet Network Firmware ZIP	N/A	N/A	N/A	N/A	
Hitachi	Storage Network Firmware ZIP	N/A	N/A	N/A	N/A	
Hitachi	Server Firmware ZIP	N/A	N/A	N/A	N/A	
Hitachi	VMware Software ZIP	N/A	N/A	N/A	N/A	
Hitachi	UCP toolkit ZIP	N/A	N/A	N/A	N/A	
Main Mediakit ZIP						
Vendor	Component	Filename	Filename	Filename	Filename	Notes
Hitachi	UCP CI Mediakit	N/A	N/A	N/A	N/A	

