

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 6.SU1		February 5th, 2018 6.SU1		April 9th, 2018 6.SU1		June 4th, 2018 6.SU2	
Management and Compute Nodes :								
Components								
Hitachi Advanced Server DS120								
BIOS	Versions	1A0B.H2	1A0B.H2	1A10.H3	1A10.H3	1A10.H3	1A10.H3	Notes
CMC	Versions	3.16.06	3.16.06	3.75.06	3.75.06	3.75.06	3.75.06	
CPUD	Versions	Rev.D	Rev.D	Rev.D	Rev.D	Rev.D	Rev.D	
GPU Family	Versions	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake	
Hitachi Advanced Server DS220								
BIOS	Versions	N/A	N/A	N/A	N/A	N/A	N/A	Notes
CMC	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
CPUD	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
GPU Family	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS225								
BIOS	Versions	N/A	N/A	N/A	N/A	N/A	N/A	Notes
CMC	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
CPUD	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
GPU Family	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
Hitachi Advanced Server DS240								
BIOS	Versions	N/A	N/A	N/A	N/A	N/A	N/A	Notes
CMC	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
CPUD	Versions	N/A	N/A	N/A	N/A	N/A	N/A	
GPU Family	Versions	N/A	N/A	N/A	N/A	N/A	N/A	

I/O Card Support for DS120/220/225/240

Components	Versions	Versions	Versions	Versions	Versions	Notes
Network Cards (Options)						
Intel X520-QM4, 10GbE quad-port, OCP Mezz	Firmware	3.2d	3.2d	3.2d	3.2d	Used on VMware HCI ac
Intel X520-QM4, 10GbE quad-port, OCP Mezz	40Gb Driver (ESK)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.5.6	1.5.6	Intel(R) Ethernet Connection X722 for 10GbE SFP+
Intel X550-DAT, 10GbE dual-port, PCIe	Firmware	3.2d	3.2d	3.2d	3.2d	Used on VMware HCI ac
Intel X550-DAT, 10GbE dual-port, PCIe	40Gb Driver (ESK)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.5.6	1.5.6	Intel(R) Ethernet Connection X722 for 10GbE SFP+
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240)	Firmware	N/A	N/A	N/A	N/A	
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-M3 (PCIe)	40Gb Driver (ESK)	14.18.1000	14.18.1000	14.20.1010	14.20.1010	"9K25GbE ConnectX-4 Lx EN Dual port"
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-M3 (PCIe)	40Gb Driver (ESK)	14.18.1000	14.18.1000	14.20.1010	14.20.1010	9K25GbE supported with driver 4.16.12.12 Async driver
Mellanox ConnectX-5 Lx EN 100GbE dual port QSPF28, PCIe x16	40Gb Driver (ESK)	3.16.0.0.1 (in-box driver)	3.16.0.0.1 (in-box driver)	4.16.10.3	4.16.10.3	ConnectX-4 Lx EN NIC, 25GbE, dual port SFP28, (MCX4121A-CAE)
Mellanox ConnectX-5 Lx EN 100GbE dual port QSPF28, PCIe x16	40Gb Driver (ESK)	3.16.0.0.1 (in-box driver)	3.16.0.0.1 (in-box driver)	4.16.10.3	4.16.10.3	ConnectX-5 Lx EN network interface card, 100GbE dual port QSPF28 (MCX516A-CACT)

HBA Controller

Components	Versions	Versions	Versions	Versions	Versions	Notes
Emulex LP311002 FC HBA	Firmware	11.2.156.27	11.2.156.27	11.2.156.27	11.2.156.27	
Emulex LP32002 FC HBA	40Gb Driver (ESK)	11.2.266.0	11.2.266.0	11.2.266.0	11.2.266.0	

RAID Controller

Components	Versions	Versions	Versions	Versions	Versions	Notes
Broadcom SAS3116 20B RAID Mezzanine (only for DS240)	Firmware	N/A	N/A	N/A	N/A	Only for DS240
	40Gb Driver (ESK)	N/A	N/A	N/A	N/A	

SAS Controller

Components	Versions	Versions	Versions	Versions	Versions	Notes
CP 3216 Mezz Card	Firmware	N/A	N/A	N/A	N/A	Only for DS120 and DS230
Broadcom SAS9305-16i PCIe (only for DS225)	40Gb Driver (ESK)	N/A	N/A	N/A	N/A	Only for DS225
	40Gb Driver (ESK)	N/A	N/A	N/A	N/A	

Drives for vSAN Cache and Capacity (Options) for DS120/220/225

Components	Versions	Versions	Versions	Versions	Versions	Notes
Intel SSD DC P3500 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, 3.5" U3) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	Not compatible with DS225
Intel Optane SSD DC P4800X Series (NVMe, 3.5" U3) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	Not compatible with DS225
Intel Optane SSD DC P4800X Series (NVMe, 3.5" U3) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	Not compatible with DS225
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 SAS SSD PM1633A Series	Firmware	N/A	N/A	N/A	N/A	Requires SAS Controller
Seagate SASIII HDD 10000 rpm, 2.5 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 SU)	Firmware	N/A	N/A	N/A	N/A	Requires SAS Controller

GPU for DS225

Components	Versions	Versions	Versions	Versions	Versions	Notes
NVIDIA Tesla M10	Media Virtual GPU software for vSphere	N/A	N/A	N/A	N/A	
NVIDIA Tesla M40	Media Virtual GPU software for vSphere	N/A	N/A	N/A	N/A	
NVIDIA Tesla P40	Media Virtual GPU software for vSphere	N/A	N/A	N/A	N/A	
NVIDIA Tesla V100	Media 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	6620	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	LB9 Mgmt Switch	N/A	N/A	N/A	N/A	
Cisco	Nexus 9300	7.0(3)48B	7.0(3)48B	7.0(3)48B	7.0(3)48B	
Cisco	Nexus 9318UC-EX	7.0(3)41E	7.0(3)41E	7.0(3)41E	7.0(3)41E	
Cisco	Nexus 93180YC-EX	7.0(3)41E	7.0(3)41E	7.0(3)41E	7.0(3)41E	
Cisco	Nexus 9332PQ2	N/A	N/A	N/A	N/A	

Storage Models

Models	Microcode Versions	Microcode Versions	Microcode Versions	Microcode Versions	Notes
VSP G200	83-04-26-20/00	83-04-26-20/00	83-04-26-20/00	83-04-26-20/00	
VSP G400	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP G600	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP G800	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP F400	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP F600	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP F800	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	83-04-26-40/00	
VSP G350	N/A	N/A	N/A	88-01-04-40/00	
VSP G370	N/A	N/A	N/A	88-01-04-40/00	
VSP G700	N/A	N/A	N/A	88-01-04-40/00	
VSP G900	N/A	N/A	N/A	88-01-04-40/00	
VSP F350	N/A	N/A	N/A	88-01-04-40/00	
VSP F370	N/A	N/A	N/A	88-01-04-40/00	
VSP F700	N/A	N/A	N/A	88-01-04-40/00	
VSP F900	N/A	N/A	N/A	88-01-04-40/00	

* Minimum level or above

Software

Vendor	Component	Versions	Versions	Versions	Versions	Notes
VMware	ESXi	6.5U1 (Build # 2099303)	6.5U1 (Build # 6765664)	6.5U1 (Build # 7886071)	6.5U2 (Build # 8294251)	
VMware	CentOS/VMKFS	6.5U1 (Build # 5713131)	6.5U1 (Build # 5973321)	6.5U1 (Build # 7751532)	6.5U2 (Build # 8307201)	
VMware	VMAN	N/A	N/A	N/A	N/A	
Hitachi	UCP Advisor	1.5	1.5	1.5	1.5	* Requires at least VCSA 6.5.0/UC
Hitachi	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	Network Software ZIP	N/A	N/A	N/A	N/A	
Hitachi	UCPTools ZIP	N/A	N/A	N/A	N/A	
Hitachi	Main Medialtr ZIP	N/A	N/A	N/A	N/A	
Hitachi	Component	Filename	Filename	Filename	Filename	Notes
Hitachi	UCP CI Medialtr	N/A	N/A	N/A	N/A	