

UCP HC Interoperability Matrix

UCP HC

v3.5.1

Hardware

UCP HC (Release Version)		v3.0		v3.5.0		v3.5.1			
		September 30th, 2019		December 2nd, 2019		February 14th, 2020			
Major vSphere Release:		6.5U3	6.7U3	6.5U3	6.7U3	6.5U3	6.7U3		
Compute Nodes (Based off DS120):									
Components		V120F/V121F/V120 Hybrid/V123F/V124N							
BIOS		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
vSphere		3814.H01	3814.H01	3814.H01	3814.H01	3816.H00	3816.H00		
fW		4.62.06	4.62.06	4.62.06	4.62.06	4.64.06	4.64.06		
vCPU		Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
vGPU Family		SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS220):									
Components		V220 Hybrid/V220F							
BIOS		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
vSphere		3814.H01	3814.H01	3814.H01	3814.H01	3816.H00	3816.H00		
fW		4.62.06	4.62.06	4.62.06	4.62.06	4.64.06	4.64.06		
vCPU		Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
vGPU Family		SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS225):									
Components		V225G							
BIOS		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
vSphere		3814.H01	3814.H01	3814.H01	3814.H01	3816.H00	3816.H00		
fW		4.62.06	4.62.06	4.62.06	4.62.06	4.64.06	4.64.06		
vCPU		Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
vGPU Family		SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS240):									
Components		N/A							
BIOS		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
vSphere		N/A	N/A	N/A	N/A	N/A	N/A		
fW		N/A	N/A	N/A	N/A	N/A	N/A		
vCPU		N/A	N/A	N/A	N/A	N/A	N/A		
vGPU Family		N/A	N/A	N/A	N/A	N/A	N/A		
IO Card Support for DS120/220/225									
Components		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
Network Cards (Options)		3.20	4.00	3.20	4.00	3.20	4.00		
Intel X527-DA4, 10GbE quad-port, OCP Mezz		Firmware: 3.20	4.00	Firmware: 3.20	4.00	Firmware: 3.20	4.00	Listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GbE SFP+"	
Intel X577-14, 10GbE 1 quad-port, OCP Mezz		Firmware: 3.20	4.00	Firmware: 3.20	4.00	Firmware: 3.20	4.00	Listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GbE SFP+"	
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe		BIOS Driver (ESX): 6.0.1	1.7.17	6.0.1	1.7.17	6.0.1	1.7.17		
Cisco ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240)		Firmware: 1.5.6	1.7.17	Firmware: 1.5.6	1.7.17	Firmware: 1.5.6	1.7.17		
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MO2 (PCIe)		Firmware: 14.23.1020	14.23.1020	Firmware: 14.23.1020	14.23.1020	Firmware: 14.23.1020	14.23.1020	Listed on VMware HCL as: "QN 25GbE ConnectX-4 Lx EN Dual port"	
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MO2 (PCIe)		OS Driver (ESX): 4.16.14.2	4.17.14.2	OS Driver (ESX): 4.16.14.2	4.17.14.2	OS Driver (ESX): 4.16.14.2	4.17.14.2	Listed on VMware HCL as: "ConnectX-4 Lx EN NIC 25GbE; dual-port SFP28; (MCKA121A-ACA)"	
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Only for V220 Hybrid and V220F)		Firmware: 14.23.1020	14.23.1020	Firmware: 14.23.1020	14.23.1020	Firmware: 14.23.1020	14.23.1020	Listed on VMware HCL as: "ConnectX-5 Lx EN network interface card, 100GbE dual-port QSFP28 (MCK516A-CCAT)"	
OS Driver (ESX): 4.16.14.2		4.17.14.2	4.16.14.2	4.17.14.2	4.16.14.2	4.17.14.2	4.17.14.2		
HBA Controller									
Emulex LPe31002 FC HBA		Firmware: N/A	N/A	Firmware: N/A	N/A	Firmware: N/A	N/A		
qlc Driver (ESX)		N/A	N/A	N/A	N/A	N/A	N/A		
Emulex LPe32002 FC HBA		Firmware: N/A	N/A	Firmware: N/A	N/A	Firmware: N/A	N/A		
qlc Driver (ESX)		N/A	N/A	N/A	N/A	N/A	N/A		
RAID Controller									
Broadcom SAS3516 26B RAID Mezzanine (only for DS240)		Firmware: N/A	N/A	Firmware: N/A	N/A	Firmware: N/A	N/A	Only for DS240	
lsi-mega9 Driver (ESX)		N/A	N/A	N/A	N/A	N/A	N/A		
SAS Controller									
QS-3216 Mezz Card (only for DS120/220)		Firmware: 1A14 (15.00.00.00) (20190530)	1A14 (15.00.00.00) (20190530)	1A14 (15.00.00.00) (20190530)	1A14 (15.00.00.00) (20190530)	1A14 (15.00.00.00) (20190530)	1A14 (15.00.00.00) (20190530)	Only for DS120 and DS220	
lsi-mega9 Driver (ESX)		15.00.00.00	15.00.00.00	15.00.00.00	15.00.00.00	15.00.00.00	15.00.00.00	Only for DS225	
lsi-mega9 Driver (ESX)		16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM		
Drives for vSAN Cache and Capacity (Options) for DS120/220/225									
Components		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225)		Firmware: N/A	N/A	Firmware: N/A	N/A	Firmware: N/A	N/A	Not compatible with V225G	
Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225)		DPV10101	DPV10101	DPV10101	DPV10101	DPV10101	DPV10101	Not compatible with V225G	
Intel SSD DC P4615 Series (NVMe, 2.5" U2) (All except DS225)		DDV10111	DDV10111	DDV10111	DDV10111	DDV10111	DDV10111	Not compatible with V225G	
Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225)		DPV10101	DPV10101	DPV10101	DPV10101	DPV10101	DPV10101	Not compatible with V225G	
Intel SSD DC P4615 Series (NVMe, 2.5" U2) (All except DS225)		DDV10140	DDV10140	DDV10140	DDV10140	DDV10140	DDV10140	Not compatible with V225G	
Intel Optane SSD DC P4800X Series (NVMe, 375GB, 2.5" U2) (All except DS225)		E2010435	E2010435	E2010435	E2010435	E2010435	E2010435	Not compatible with V225G	
Intel Optane SSD DC P4800X Series (NVMe, 75GB, 2.5" U2) (All except DS225)		E2010435	E2010435	E2010435	E2010435	E2010435	E2010435	Not compatible with V225G	
vSAN Driver		1.6.0.1003 (Async driver)	1.6.0.1003 (Async driver)	1.6.0.1003 (Async driver)	1.6.0.1003 (Async driver)	1.6.0.1003 (Async driver)	1.6.0.1003 (Async driver)	Requires SAS Controller	
Intel SSD DC S4600 Series		NCV10121	NCV10121	NCV10121	NCV10121	NCV10121	NCV10121	Requires SAS Controller	
Intel SSD DC S4610 Series		NCV10100	NCV10100	NCV10100	NCV10100	NCV10100	NCV10100	Requires SAS Controller	
Intel SSD DC S4620 Series		NCV10121	NCV10121	NCV10121	NCV10121	NCV10121	NCV10121	Requires SAS Controller	
Intel SSD DC S4615 Series		NCV10100	NCV10100	NCV10100	NCV10100	NCV10100	NCV10100	Requires SAS Controller	
Samsung SATA SSD PM173a Series		GX72204Q	GX72204Q	GX72204Q	GX72204Q	GX72204Q	GX72204Q	Requires SAS Controller	
Samsung SATA SSD PM173b Series		HX72204Q	HX72204Q	HX72204Q	HX72204Q	HX72204Q	HX72204Q	Requires SAS Controller	
Seagate SASIII HDD 10000 rpm, 3.5 inch		E002	E002	E002	E002	E002	E002	Requires SAS Controller	
Seagate SASIII HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SKU)		E002	E002	E002	E002	E002	E002	Requires SAS Controller	
GPU for DS225									
Components		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
NVIDIA Tesla M10		vSphere	390.94	390.94	390.94	390.94	390.94		
NVIDIA Tesla M60		vSphere	390.94	390.94	390.94	390.94	390.94		
NVIDIA Tesla P40		vSphere	390.94	390.94	390.94	390.94	390.94		
NVIDIA Tesla V100		vSphere	390.94	390.94	390.94	390.94	390.94		
Software									
Software Versions		Versions	Versions	Versions	Versions	Versions	Versions	Notes	
VMware		ESXi	6.5U3 (Build # 14320405)	6.7U3 (Build # 14320388)	6.5U3 (Build # 14320405)	6.7U3 (Build # 14320388)	6.5U3 (Build # 14320388)		
VMware		vCenter/VSAN	6.5U3 (Build # 14320388)	6.7U3 (Build # 14320388)	6.5U3 (Build # 14320388)	6.7U3 (Build # 14320388)	6.5U3 (Build # 14320388)		
VMware		VSAN	6.6.1	6.7	6.6.1	6.7	6.6.1		
Hitachi		UCP Advisor	3.0	3.5*	3.5*	3.5*	3.5*	* Requires at least VCSA 6.5U2c * When available	
Downloadable ZIPs									
Vendor		Component	Filename	Filename	Filename	Filename	Filename	Notes	
Hitachi		Server Firmware ZIP	Server_Firmware_20190923.zip	Server_Firmware_20190923.zip	Server_Firmware_20190923.zip	Server_Firmware_20200129.zip	Server_Firmware_20200129.zip		
Hitachi		VMware Software ZIP	VMware6.5U3_20190923.zip	VMware6.7U3_20190923.zip	VMware6.5U3_20190923.zip	VMware6.7U3_20190923.zip	VMware6.7U3_20190923.zip		
Hitachi		UCP Toolkit ZIP	UCPToolKit_20190923.zip	UCPToolKit_20191126.zip	UCPToolKit_20191126.zip	UCPToolKit_20200205.zip	UCPToolKit_20200205.zip		
Main Mediakt ZIP									
Vendor		Component	Filename	Filename	Filename	Filename	Filename	Notes	
Hitachi		UCP HC Mediakt	UCPHC_MEDIKAT_V3.0.0_20190923.zip	UCPHC_MEDIKAT_V3.0.0_20190923.zip	UCPHC_MEDIKAT_V3.5.0_20191127.zip	UCPHC_MEDIKAT_V3.5.1_20200205.zip	UCPHC_MEDIKAT_V3.5.1_20200205.zip		

UCP HC Interoperability Matrix

UCP HC
v2.3.0 - v2.5.0
Hardware

UCP HC (Release Version)		v2.3.0		v2.3.1		v2.3.2		v2.5.0			
Major vSphere Release:		August 6th, 2018		November 5th, 2018		March 4th, 2019		September 3rd, 2019			
Release date:		6.5U2		6.5U2		6.7U1		6.5U2		6.7U2	
Components:		N/A		V120F/V121F/V120 Hybrid/V123F/V124N		V120F/V121F/V120 Hybrid/V123F/V124N		V120F/V121F/V120 Hybrid/V123F/V124N		Notes	
Compute Nodes (Based off DS120):		Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Notes	
BIOS		N/A	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3B14.H01	3B14.H01		
BMC		N/A	4.23.06	4.23.06	4.23.06	4.23.06	4.23.06	4.62.06	4.62.06		
CPID		N/A	Rev10	Rev10	Rev10	Rev10	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
CPU Family		N/A	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS220):		Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Notes	
BIOS		N/A	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3B14.H01	3B14.H01		
BMC		N/A	4.23.06	4.23.06	4.23.06	4.23.06	4.23.06	4.62.06	4.62.06		
CPID		N/A	Rev10	Rev10	Rev10	Rev10	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
CPU Family		N/A	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS225):		Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Notes	
BIOS		N/A	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3A10.HB	3B14.H01	3B14.H01		
BMC		N/A	4.23.06	4.23.06	4.23.06	4.23.06	4.23.06	4.62.06	4.62.06		
CPID		N/A	Rev10	Rev10	Rev10	Rev10	Rev10 / Rev11	Rev10 / Rev11	Rev10 / Rev11		
CPU Family		N/A	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake	SkyLake / Cascade Lake	SkyLake / Cascade Lake		
Compute Nodes (Based off DS240):		Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Notes	
BIOS		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
BMC		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
CAC		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
CPID		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
CPU Family		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
I/O Card Support for DS120/220/225		Components:	Components:	Components:	Components:	Components:	Components:	Components:	Components:	Notes	
Network Cards (Options)		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Notes	
Intel X520-D4, 10GbE quad-port, QCP Mezz		Firmware	3.24	3.24	3.24	3.24	3.24	4.00	4.00	Listed on VMware HCL as: "Intel(i) Ethernet Connection X722 for 10GbE SFP"	
Intel X557-T4, 10GbE-T quad-port, QCP Mezz		Firmware	15.6	15.6	15.6	15.6	15.6	17.37	17.37		
Intel XXV710-D42, 10/25/40GbE dual-port, PCIe		Firmware	3.24	3.24	3.24	3.24	3.24	4.00	4.00	Listed on VMware HCL as: "Intel(i) Ethernet Connection X722 for 10GbASE-T"	
Mellanox ConnectX-4 Lx EN 10/25/56 dual-port SFP28, QCP Mezz (except DS240)		Firmware	5.0.1	5.0.1	5.0.1	5.0.1	5.0.1	5.6	5.6		
Mellanox ConnectX-4 Lx EN 10/25/56 dual-port SFP28, QCP Mezz (except DS240)		Kernel	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.17.14.2	4.17.14.2	Listed on VMware HCL as: "ON 25GbE ConnectX-4 Lx EN Dual port"	
Mellanox ConnectX-4 Lx EN 10/25/56 dual-port SFP28, LP-MD2 (PGx)		Kernel	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.17.14.2	4.17.14.2		
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x8 (Only for V220 Hybrid and V220F)		Kernel	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.16.10.3	4.17.14.2	4.17.14.2	Listed on VMware HCL as: "ConnectX-5 Lx EN network interface card, 100GbE dual-port QSFP28 (MCS316A-CAC)"	
HBA Controller		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Notes	
Emulex LPe13002 FC HBA		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Emulex LPe13002 FC HBA		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
RAID Controller		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Notes	
Broadcom SAS3516 2GB RAID Mezzanine (only for DS240)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Only for DS240
SAS Controller		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Notes	
Qo-3216 Mezz Card (only for DS120/220)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Only for DS120 and DS220
Broadcom SAS3506-16 PCIe (only for DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Only for DS225
Drives for vSAN Cache and Capacity (Options) for DS120/220/225		Components:	Components:	Components:	Components:	Components:	Components:	Components:	Components:	Notes	
Intel SSD DC P3600 Series (NVMe, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Intel SSD DC P5600 Series (NVMe, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Intel SSD DC P6600 Series (NVMe, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Intel Optane SSD DC P4800X Series NVMe (NVMe, 1.8" B, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Intel Optane SSD DC P4800X Series NVMe (NVMe, 750GB, 2.5" U2) (All except DS225)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Not compatible with V225G
Hitachi Drive		Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Firmware	Notes	
Intel SSD DC S4500 Series		Firmware	N/A	N/A	N/A	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	N/A	N/A	N/A		Requires SAS Controller
Intel SSD DC S4600 Series		Firmware	N/A	N/A	N/A	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	N/A	N/A	N/A		Requires SAS Controller
Samsung SATA SSD PM863a Series		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Requires SAS Controller
Samsung SATA SSD PM863a Series		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Requires SAS Controller
Seagate SAS8 HDD 10000 rpm, 2.5 inch		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Requires SAS Controller
Seagate SAS8 HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SKU)		Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Requires SAS Controller
GPU for DS225		Components:	Components:	Components:	Components:	Components:	Components:	Components:	Components:	Notes	
NVIDIA Tesla M10		Firmware	390.72	390.72	390.72	390.72	390.72	390.72	390.72		
NVIDIA Tesla M60		Firmware	390.72	390.72	390.72	390.72	390.72	390.72	390.72		
NVIDIA Tesla P40		Firmware	390.72	390.72	390.72	390.72	390.72	390.72	390.72		
NVIDIA Tesla V100		Firmware	390.72	390.72	390.72	390.72	390.72	390.72	390.72		
Software Versions		Vendor	Component	Version	Version	Version	Version	Version	Version	Notes	
VMware		ESX	ESX	6.5U2 (Build # 829423)	6.5U2 (Build # 10390118)	6.7U1 (Build # 10002058)	6.5U2 (Build # 10390118)	6.7U1 (Build # 10764713)	6.5U2 (Build # 13635690)	6.7U2 (Build # 13644819)	
VMware		Centrino(VCSA)	Centrino(VCSA)	6.5U2 (Build # 945167)	6.5U2 (Build # 945167)	6.7U1 (Build # 10244745)	6.5U2 (Build # 945167)	6.7U1 (Build # 10244745)	6.5U2 (Build # 13638825)	6.7U2 (Build # 13643870)	
VMware		ESX	ESX	6.5 U2	6.5 U2	6.7 U1	6.5 U2	6.7 U1	6.5 U2		
Hitachi		UCP Advisor	UCP Advisor	2.3	2.3	2.3	2.3	2.3	2.3	* Requires at least VCSA 6.5U2	
Downloadable Zips		Vendor	Component	Filename	Filename	Filename	Filename	Filename	Filename	Notes	
Hitachi		Server Firmware ZIP	Server Firmware ZIP	N/A	N/A	N/A	N/A	N/A	N/A		
Hitachi		VMware Software ZIP	VMware Software ZIP	N/A	N/A	N/A	N/A	N/A	N/A		
Hitachi		UCP/UCS ZIP	UCP/UCS ZIP	N/A	N/A	N/A	N/A	N/A	N/A		
Main MediaKit ZIP		Vendor	Component	Filename	Filename	Filename	Filename	Filename	Filename	Notes	
Hitachi		UCP HC MediaKit	UCP HC MediaKit	N/A	N/A	N/A	N/A	N/A	UCP HC MediaKit v2.5.0_20190806.zip	UCP HC MediaKit v2.5.0_20190806.zip	

UCP HC Interoperability Matrix

UCP HC

v1.0 - v2.3.0

Hardware

UCP HC (Release Version)		V1.0	V1.0	V2.0	V2.1	V1.1	V2.2	V2.3.0	
Release date:		September 7th, 2017	January 8, 2018	November 20, 2017	April 9th, 2018	April 9th, 2018	June 4th, 2018	August 6th, 2018	
Major vSphere Release:		6.5U1	6.5U1	6.5U1	6.5U1	6.5U1	6.5U2	6.5U2	
Compute Nodes (Based off DS120):		V120F	N/A	V120F/V121F	V120F/V121F	N/A	V120F/V121F/V120 Hybrid/V123F	N/A	Notes
Components									
OS	Windows	N/A	Windows	Windows	Windows	Windows	Windows	Windows	
BMC	IPMI v2	N/A	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	
CMC	Rev9	N/A	Rev10	Rev10	Rev10	Rev10	Rev10	Rev10	
CPD	Shake	N/A	Shake	Shake	Shake	Shake	Shake	Shake	
CPU Family									
Compute Nodes (Based off DS220):		N/A	V220 Hybrid	N/A	N/A	V220 Hybrid	V220 Hybrid	N/A	Notes
Components									
OS	Windows	N/A	Windows	Windows	Windows	Windows	Windows	Windows	
BMC	IPMI v2	N/A	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	
CMC	Rev9	N/A	Rev10	Rev10	Rev10	Rev10	Rev10	Rev10	
CPD	Shake	N/A	Shake	Shake	Shake	Shake	Shake	Shake	
CPU Family									
Compute Nodes (Based off DS225):		N/A	N/A	N/A	N/A	N/A	N/A	V225G	Notes
Components									
OS	Windows	N/A	Windows	Windows	Windows	Windows	Windows	Windows	
BMC	IPMI v2	N/A	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	
CMC	Rev9	N/A	Rev10	Rev10	Rev10	Rev10	Rev10	Rev10	
CPD	Shake	N/A	Shake	Shake	Shake	Shake	Shake	Shake	
CPU Family									
Compute Nodes (Based off DS240):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Notes
Components									
OS	Windows	N/A	Windows	Windows	Windows	Windows	Windows	Windows	
BMC	IPMI v2	N/A	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	IPMI v2	
CMC	Rev9	N/A	Rev10	Rev10	Rev10	Rev10	Rev10	Rev10	
CPD	Shake	N/A	Shake	Shake	Shake	Shake	Shake	Shake	
CPU Family									
I/O Card Support for DS120/220/225		N/A	Versions	Versions	Versions	Versions	Versions	Versions	Notes
Components									
Network Cards (Options)									
Intel X520-DAT, 10GbE quad-port, OCP Mezz	Firmware	3.20	3.20	3.20	3.20	3.20	3.20	3.20	Used on VMware HCL as: VMware Ethernet Connection K722 for 10GbE SFP+
Intel X557-T4, 10GbE 1 quad-port, OCP Mezz	Firmware	3.20	3.20	3.20	3.20	3.20	3.20	3.20	Used on VMware HCL as: VMware Ethernet Connection K722 for 10GbE SFP+
Intel XXV710-DAT, 10/25/40GbE dual-port, PCIe	Firmware	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	1.3.1 (in-box driver)	Used on VMware HCL as: VMware Ethernet Connection K722 for 10GbE SFP+
Mellanox ConnectX-4 LX EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240)	Firmware	14.18.1000	14.18.1000	14.18.1000	14.20.1010	14.20.1010	14.20.1010	14.20.1010	ON 25GbE ConnectX-4 LX EN Dual port*
Mellanox ConnectX-4 LX EN 10/25GbE dual-port SFP28, LP-MD (PCIe)	Firmware	14.18.1000	14.18.1000	14.18.1000	14.20.1010	14.20.1010	14.20.1010	14.20.1010	ON 25GbE ConnectX-4 LX EN Dual port*
Mellanox ConnectX-5 LX EN 100GbE dual-port QDF2P8, PCIe x16 (Only for V220 Hybrid and V220F)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ON 100GbE ConnectX-5 LX EN Dual port QDF2P8 (MCK516A-CAT)
HBA Controller									
Emulex LPe31002 FC HBA	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Emulex LPe31002 FC HBA	igmp Driver (ESX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
RAID Controller									
Broadcom SAS516 6GB RAID Mezzanine (only for DS240)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Only for DS240
SAS Controller									
OP-S136 Mezz Card (only for ESX1307220)	Firmware	14.14 (15.00.00.00)	14.14 (15.00.00.00)	14.14 (15.00.00.00)	14.14 (15.00.00.00)	14.14 (15.00.00.00)	N/A	N/A	Only for ESX130 and ESX20
Broadcom SAS9305-16 PCIe (only for DS225)	Firmware	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	16.00.00.00-10EM	Only for DS225
Drives for vSAN Cache and Capacity (Options) for DS120/220/225									
Components									
Intel SSD DC P4500 Series (NVMe, 2.5" U2) (All except DS225)	Firmware	SCV01073	N/A	SCV01073	N/A	SCV01073	N/A	SCV01073 (Only for V120F)	Notes
Intel SSD DC P4550 Series (NVMe, 2.5" U2) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
Intel SSD DC P4650 Series (NVMe, 2.5" U2) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
Intel SSD DC P4615 Series (NVMe, 2.5" U2) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
Intel Optane SSD DC P4800X Series (NVMe, NVMe, 3.5" U3) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
Intel Optane SSD DC P4800X Series (NVMe, NVMe, 3.5" U3) (All except DS225)	Firmware	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not compatible with V2.25G
NVMe Drive									
Intel SSD DC S4500 Series	Firmware	N/A	N/A	SCV10111	SCV10121	SCV10121 (Only for V120F)	SCV10121	SCV10121	Requires SAS Controller
Intel SSD DC S4515 Series	Firmware	N/A	N/A	SCV10111	SCV10121	SCV10121 (Only for V120F)	SCV10121	SCV10121	Requires SAS Controller
Intel SSD DC S4600 Series	Firmware	N/A	N/A	SCV10111	SCV10121	SCV10121 (Only for V120F)	SCV10121	SCV10121	Requires SAS Controller
Intel SSD DC S4615 Series	Firmware	N/A	N/A	SCV10111	SCV10121	SCV10121 (Only for V120F)	SCV10121	SCV10121	Requires SAS Controller
Seagate SATA SSD PM863 Series	Firmware	N/A	N/A	OS75204Q	OS75204Q	OS75204Q (Only for V120F)	OS75204Q	OS75204Q	Requires SAS Controller
Seagate SAS8 HDD 10000 rpm, 2.5 inch	Firmware	N/A	N/A	600D	600D	600D	600D	600D	Requires SAS Controller
Seagate SAS8 HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SNU)	Firmware	N/A	N/A	600D	600D	600D	600D	600D	Requires SAS Controller
GPU for DS225									
Components									
NVIDIA Tesla M60	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390.72
NVIDIA Tesla M40	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390.72
NVIDIA Tesla P40	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390.72
NVIDIA Tesla V100	Driver	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390.72
Software									
Software Versions									
Vendor									
VMware	ESXi	6.5U1 (Build # 5969303)	6.5U1 (Build # 5969303)	6.5U1 (Build # 763664)	6.5U1 (Build # 738807)	6.5U1 (Build # 738807)	6.5U2 (Build # 8294253)	6.5U2 (Build # 8294253)	Notes
VMware	VCenter/VCSA	6.5U1 (Build # 5973321)	6.5U1 (Build # 5973321)	6.5U1 (Build # 5973321)	6.5U1 (Build # 7515524)	6.5U1 (Build # 7515524)	6.5U2 (Build # 8307201)	6.5U2 (Build # 8307201)	
VMware	ESX	6.5.1	6.5.1	6.5.1	6.5.1	6.5.1	6.5.1	6.5.1	
Hatch	UCP Advisor	2.0	2.0	2.5	2.5	2.5	2.7	2.7	* Requires at least VCSA 6.5U2z
Downloadable Zips									
Vendor									
Hatch	Component	Filename	Filename	Filename	Filename	Filename	Filename	Filename	Notes
Hatch	Server Firmware ZIP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hatch	UCP Advisor ZIP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hatch	UCP Advisor ZIP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Main Mediskit ZIP									
Vendor									
Hatch	Component	Filename	Filename	Filename	Filename	Filename	Filename	Filename	Notes
Hatch	UCP HC Mediskit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Hitachi Unified Compute Platform HC for VMware

UCP HC V210/V210F (*)										
Hardware										
Compute Nodes:	D51B-2U (2U1N)									
UCP HC (Media Kit Version)	1.0	2.0	3.0	4.0	5.0	6.0		6.1		
Release date	January 1, 2017	April 19, 2017	July 17, 2017	August 15, 2017	December 18, 2017	October 25, 2018		July 15th, 2019		
Components	Versions	Versions	Versions	Versions	Versions	versions	versions	versions	versions	
BIOS	S25_3B09.01	S25_3B09.01	S25_3B09.01	S25_3B09.01	S2B_3B10.03	S2B_3B10.03	S2B_3B10.03	S2B_3B10.03	S2B_3B19.02	S2B_3B19.02
BMC	3.51	3.51	3.51	3.51	3.63	3.66	3.66	3.73	3.73	3.73
CPLD	09	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9
CPU Family	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell
Network Cards (Options)										
Intel Dual Port 10GigE SFP+ 82599ES OCP Mezz Card, and PCI Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Dual port GigE Base-T Intel I350 Mezz Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Dual port 10GigE Base-T Intel X540 Mezz Card, and PCI Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Mellanox CX3 40/56GbE, Dual Port QSFP	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
I/O Controller										
LSI SAS 3008 Mezz Card	Firmware	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00	[1A12]09.00.00.00
	Driver (ESXi)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)	lsi_mega3 version 10.00.00.00-1OEM (Asyn driver)
Drives for vSAN Cache and Capacity (Options)										
Intel® SSD DC S3700 Series	Firmware	5DV10265	5DV10265	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Intel® SSD DC S3710 Series	Firmware	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140
Samsung SSD PM863a	Firmware	N/A	GXT5204Q	GXT5204Q	GXT5204Q	GXT5204Q	GXT5204Q	GXT5204Q	GXT5204Q	GXT5204Q
Seagate SAS HDD 10K rpm, 2.5 inch	Firmware	0002	0002	0002	0002	0002	0002	0002	0002	0002
Seagate SASIII HDD 7200 rpm, 3.5 inch	Firmware	E001	E002	E002	E002	E002	E002	E002	E002	E002
Software										
Vendor	Component	Versions								
VMware	ESXi	6.0 U2 (Build # 4600944)	6.0 U3 (Build # 5050593)	6.5 (Build # 5310538)	6.5 U1 (Build # 5969303)	6.5 U1 (Build # 6765664)	6.5U2 EP 10 (Build # 10390116)	6.7.0U1-10302608	6.5U2-13635690	6.7.0U2-13644319
	vCenter (VCSA)	6.0 U2 (Build # 3634788)	6.0 U3b (Build # 5326117)	6.5 (Build # 5318154)	6.5 U1 (Build # 5973321)	6.5 U1 (Build # 5973321)	6.5U2c (Build # 9451637)	6.7.0-10244745	6.5U2c-13638625	6.7U2a-13643870
	vSAN	6.2	6.2 U3	6.6	6.6.1	6.6.1	6.6.1 EP 10	6.7.0U1	6.6.1	6.7.0U2
						Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager

(*) End-of-Sale

Hitachi Unified Compute Platform HC for VMware

UCP HC V240/V240F (*)																
Hardware																
Compute Nodes T415-2U (2U4N)																
UCP HC (Media Kit Version)																
Release date	1 (V240 only)		1.1		2.0		3.0		4.0		5.0		6.0		6.1	
Components	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions	Versions
BIOS	S25_3A18	S25_3B06	S25_3B08.02	S25_3B08.02	S25_3B09.01	S25_3B10.02	S25_3B10.03	S25_3B12	S25_3B12	S25_3B12	S25_3B12	S25_3B12	S25_3B12	S25_3B12	S25_3B12	S25_3B12
BMC	3.36	3.42	3.51	3.51	3.58	3.66.00	3.66.00	3.77.00	3.77.00	3.77.00	3.77.00	3.77.00	3.77.00	3.77.00	3.77.00	3.77.00
CPLD	Rev 8	Rev 8	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9	Rev 9
CMC	3.37.0_03	3.37.0_03	3.41.0_04	3.41.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04	3.44.0_04
CPU Family	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell	Haswell/Broadwell
Network Cards (Options)																
Intel Dual Port 10GigE SFP+ 82599ES OCP Mezz Card, and PCI Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Dual port GigE Base-T Intel I350 Mezz Card, and PCI Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Dual port 10GigE Base-T Intel X540 Mezz Card, and PCI Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
Mellanox CX3 40/56GbE, Dual Port QSFP Mezz Card	Driver (ESXi)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)	(inbox driver)
I/O Controller																
LSI SAS 2308 Mezz Card	Firmware	[1803] 19.00.00.00-IT	[1803] 19.00.00.00-IT	[1803] 19.00.00.00-IT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(S-2308-8i-R)	Driver (ESXi)	mpt2sas version 19.00.00.00.1vmw	mpt2sas version 19.00.00.00.1vmw	mpt2sas version 19.00.00.00.1vmw	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LSI SAS 3008 Mezz Card	Firmware	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00	[1A12] 09.00.00.00
	Driver (ESXi)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)	[a. mpt3 version 10.00.00.00-1 OEM] (Asyn driver)
Drives for vSAN Cache and Capacity (Options)																
Intel® SSD DC S3700 Series	Firmware	5Dv10265	5Dv10265	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Intel® SSD DC S3710 Series	Firmware	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140	G2010140
Samsung SSD PM963a	Firmware	N/A	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q	GXTS204Q
Seagate SAS HDD 10k rpm, 2.5 inch	Firmware	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
Software																
Vendor	Component	Version														
VMware	ESXi	6.0 U2 (Build # 3620759)	6.0 U2 (Build # 3620759)	6.5 (Build # 5310538)	6.5 U1 (Build # 5969303)	6.5 U1 (Build # 6765664)	6.0.0U3-6765062	6.5 U2 EP 10 (Build # 10390116)	6.7.0U1-10302608	6.5 U2-13635690	6.7.0U2-13643870					
	vCenter (VCSA)	6.0 U2 (Build # 3634788)	6.0 U2 (Build # 3634788)	6.5 (Build # 5318154)	6.5 U1 (Build # 5973321)	6.5 U1 (Build # 5973321)	6.0.0U3-30500-7977753	6.5 U2c (Build # 9451637)	6.7.0-10244745	6.5 U2c-13638625	6.7.0U2-13643870					
	vSAN	6.2	6.2	6.6	6.6.1	6.6.1	6.6.1	6.6.1 EP 10	6.7.0U1	6.6.1	6.7.0U2					
						Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager	Note: On the Media kit, there is a specific package to update the vSphere via Update Manager					

(*) End-of-Sale