

**To:** Prospective Bidders List and Distribution List

**Subject:** Invitation For Bid IFB-CO-115735-NAGSF Amendment 2

**Provide NAGSF CIS Services Relocation**

**References:**

- A.** AC/4-D(2019)0004 (INV) dated 4 July 2019; Procedure Governing the Use of Basic Ordering Agreements (BOAs) Concluded by the NCIA - 2019 Version
- B.** NCI Agency NOI; NCIA/ACQ/2023/06553, dated 29 November 2022
- C.** NCI Agency Invitation For Bid IFB-CO-115735-NAGSF; NCIA/ACQ/2023/06602, dated 13 March 2023

Dear Prospective Bidders,

1. The purpose of this Amendment 2 is to:
  - a. Publish Release 2 of IFB Bidders' questions and NCI Agency responses, and;
  - b. Issue revised IFB documents (Book II).
2. NCI Agency responses to Bidders' questions received by 31 March 2023 are hereby published with this IFB Amendment 2 as Attachment 1.
3. Revised bidding documents are provided with this IFB Amendment 2 as Attachment 2 and replace the original versions in their entirety. Potential Bidders are strongly advised to carefully review these revised bidding documents. With the exception of the revisions included in these documents, and the ones included as part of Amendment 1, all other IFB documents remain unchanged from their original version as issued on 13 March 2023.
4. Perspective Bidders are advised that the NCI Agency reserves the right to cancel this IFB at any time in its entirety and bears no liability for bid preparation costs incurred by firms or any other collateral costs if bid cancellation occurs.

5. The NCI Agency point of contact for all information concerning this IFB is Ms. Emira Kapetanovic, Principal Contracting Assistant, who may be reached at [IFBCO115735NAGSF@ncia.nato.int](mailto:IFBCO115735NAGSF@ncia.nato.int)

For the Chief of Acquisition:  
//Original signed//

JeanLuc Guellec  
Principal Contracting Officer

**Attachments:**

- 1) Responses to Clarification Requests, Release Number 2
- 2) Revised IFB Documents :
  - 2.1 08.1\_ IFB-CO-115735-NAGSF \_Book II, Part IV Statement of Work Appendix A Amendment 2 (.PDF)

## Distribution List for IFB-CO-115735-NAGSF

### Prospective Bidders

#### NATO Delegation (Attn: Infrastructure Adviser):

ALBANIA  
BELGIUM  
BULGARIA  
CANADA  
CROATIA  
CZECH REPUBLIC  
DENMARK  
ESTONIA  
FRANCE  
GERMANY  
GREECE  
HUNGARY  
ICELAND  
ITALY  
LATVIA  
LITHUANIA  
LUXEMBOURG  
MONTENEGRO  
THE NETHERLANDS  
NORWAY  
NORTH MACEDONIA  
POLAND  
PORTUGAL  
ROMANIA  
SLOVAKIA  
SLOVENIA  
SPAIN  
TÜRKIYE  
UNITED KINGDOM  
UNITED STATES  
BELGIUM MINISTRY OF ECONOMIC AFFAIRS

#### NATO HQ

- NATO Office of Resources (NOR)
  - Management and Implementation Branch – Attn: Deputy Branch Chief
  - CIS and Cyber Capabilities Branch (CCC) Branch Head
  - NOR Secretariat Section (RPPB, IC, BC)

#### All NATEXs

#### Embassies (Commercial Attaché)

#### NCI Agency – Internal Distribution

Attachment 1: Responses to Clarification Requests, Release Number 2

CR#	IFB Ref.	Bidder's Question	NCIA Response
36	APPENDIX A – Cat VTC - Core - AV Network: Items: Cisco - Catalyst 9300 48-port PoE+, Network Essentials - TEMPEST C Upgrade option 1100W AC 80+ platinum Config 1 Power Supply Cisco - 1100W AC 80+ platinum Config 1 Secondary Power Supply Cisco - C9300 DNA Essentials, 48-port - 3 Year Term License	The configuration for the device proposed seems incomplete. Please confirm the detailed breakdown of all components and materials included, like all the other bundles in APPENDIX A.	<ul style="list-style-type: none"> <li>- The VTC switch (Core AV Network) is not connected to the LAN or any network.</li> <li>- It only connects the other AV peripherals devices in Appendix A (but not to the Codec on IP).</li> <li>- It is confirmed that the spec in Appendix A is adequate, and that the switch is PoE but will require TEMPEST C.</li> </ul>
37	APPENDIX A – Cat VTC - NS Distribution layer and NU Distribution layer, NS External SW and NU External SW: Items: ISE BASE Term License ISE BASE Tracker Term 3Y ISE PLS Term License ISE PLS Tracker Term 3Y StealthWatch 1 FPS Term License ISE BASE Tracker Term 3Y	Please confirm these Items proposed in "the Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage". They appear to be unavailable for ordering as "DNA-XARC-OFFER" is End of Life and is replaced by "DNA-XARC-OFFER" add-on for C9500-24Y4C-A bundle.	<ul style="list-style-type: none"> <li>- This alternative is adequate.</li> <li>- The case where some equipment would not be available from OEMs is covered in SOW \$5, [RQ51].</li> </ul>

Cat	Item	Part number	Qty	Spare
EUD	<b>End user devices (EUD) - All TEMPEST C</b>			
EUD	<b>NS Workstation Standard</b>			
EUD	Dell Optiplex 5000 - TEMPEST C		306	20
EUD	Form Factor SFF			
EUD	Microsoft Licences Windows 10 Pro (Includes Windows 11 Pro License) English, Dutch, French, German, Italian			
EUD	Processor 12th Generation Intel Core i5-12500 (6 Cores 3.0GHz to 4.6GHz/65W)			
EUD	Graphics Intel UHD Graphics 630, Performance: at least 917@ 1024x600 in ComputeMark v2.14, Triple Display Capable (1920x1200@60Hz on each display minimum); Compatible with DirectX 12 (Feature Level12.0) and OpenGL 4.5; HDMI 1.4 and Displayport			
EUD	Memory 8GB (1x8GB) DDR4 Non-ECC Memory			
EUD	Storage M.2 2230 256GB PCIe NVMe Class 35 Opal 2.0 Self Encrypting Solid State Drive //up to 2344 MB/s Seq. reads – 1366 MB/s Seq. Writes			
EUD	I/O Ports Front: USB 2.0 Type-A port with PowerShare USB 2.0 Type-A port USB 3.2 Gen 1 Type-A port USB 3.2 Gen 2x1 Type-C® port Universal audio port Rear: (4) USB 3.2 Gen 1 Type-A ports (2) USB 2.0 Type-A ports with Smart Power On (2) DisplayPort 1.4a ports			
EUD	Network 1000Base-SX, LC connector, Wake-On-LAN, PXE			
EUD	Expansion Slots 1x PCIe x16 & 1x PCIe x4			

Cat	Item	Part number	Qty	Spare
EUD	Security Trusted Platform Module (TPM) 2.0 chip on the motherboard// 27600 bytes non-volatile memory located in the TPM module; AES New Instructions (AES-NI) SecureKey, BIOS Guard, OS Guard or equivalent; PnP and BIOS setup/boot password/system configuration protection			
EUD	Lock Kensington lock slot included			
EUD	<b>NS Workstation High Performance</b>			
EUD	Dell Precision 3660 - TEMPEST C		7	1
EUD	Form Factor Tower			
EUD	Microsoft Licences Windows 10 Pro (Includes Windows 11 Pro License)			
EUD	Processor Intel® Core™ i5-12500 processor (18MB Cache, 6 Core (6P+0E), 3.0GHz to 4.6GHz (65W)) TDP			
EUD	Security SafeID including Trusted Platform Module (TPM) 2.0 (FIPs 140-2-Certificate), Smartcard keyboard (FIPS), Microsoft Windows 10 Device Guard and Credential Guard (Enterprise SKU), Microsoft Windows Bitlocker, Local hard disk data erasure via BIOS (secure erase), Self-encrypting storage drives (Opal, FIPS), SafeBIOS: includes Dell off-host BIOS check, BIOS failsafe, BIOS recovery and additional BIOS controls			
EUD	Remote management UEFI Enabled, Intel vPro Out of Band Management Technology			
EUD	Memory 16GB, 2x8GB, DDR5 up to 4400MHz expandable at least 128 GB, 4 x 32 GB, DDR5, 3600 MHz			
EUD	Local storage C1 M.2 SSD 512-GB-SSD, PCIe, NVMe™, Calss 40 (Read: 6770 MB/s // Write: 4389 MB/s)			
EUD	GPU Nvidia GeForce RTX 3060, Base Clock 1320 MHz, Floating-point performance: 12.74 TFLOPS Bus Interface: PCIe 4.0 x16, Recommended Resolutions: 1920x1080 2560x1440 3840x2160 Outputs: 1x HDMI 2.1 3x DisplayPort 1.4a			
EUD	NIC 1000Base-SX, LC connector, Wake-On-LAN, PXE			

Cat	Item	Part number	Qty	Spare
EUD	Ports Front: USB 3.2 Gen 1-Port (5 Gbit/s) with PowerShare USB 3.2-Gen 1-Port (5 Gbit/s) USB 3.2-Gen 2-Port (Typ-C, 10 Gbit/s) USB 3.2-Gen 2x2-Port (Typ-C, 20 Gbit/s) with PowerShare SD Card Reader 4.0 Rear: USB 2.0-Ports (480 Mbit/s) with Smart Power On USB 3.2-Gen 2-Ports (10 Gbit/s) USB 3.2 Gen 2-Ports (Typ C, 10 Gbit/s)			
EUD	Sound Audio-Controller Realtek ALC3246-CG, Audio out (3.5mm jack), Audio-mic combo (3.5mm) jack			
EUD	Power supply and cords <del>500W Platinum PSU and cord (according to local requirements)</del> 550W Platinum PSU and cord (according to local requirements)			
EUD	Lock Kensington lock socket			
EUD	<b>NS Workstation GIS</b>			
EUD	Dell Precision 5820 1000Base-SX - TEMPEST C		5	1
EUD	Form Factor Tower			
EUD	Microsoft Licences MS Windows 10 Pro OEM 64bit no-media			
EUD	Processor Intel Core i9-10900X			
EUD	Security Trusted Platform Module (TPM) 2.0 (or later) chip on the motherboard AES New Instructions (AES-NI), SecureKey, BIOS Guard, OS Guard or equivalent PnP and BIOS setup/boot password/system configuration protection			
EUD	Memory 32GB			
EUD	Primary Storage <del>Solid State capacity: 512 GB, performance: 560MB/sec sequential read and 530MB/sec sequential write, durability: 600-TBW, in removable flex bay, supported functions: TCG Opal, IEEE 1667, FDE AES-256</del> Dell-provided Intel NVMe PCIe SSD 512GB (Front PCIe FlexBay)			

Cat	Item	Part number	Qty	Spare
EUD	Secondary storage <del>8 TB Solid State capacity, performance: 560MB/sec sequential read and 530MB/sec sequential write, durability: 600 TBW, in removable flex bay, supported functions: TCG Opal, IEEE 1667, FDE AES 256</del> Dell-provided 8 TB, 7200 RPM, 3.5-inch, SATA, HDD, AG-Enterprise Class (FlexBay)			
EUD	GPU NVIDIA Quadro P2200 4x Display Port AMD Radeon™ PRO W6600.			
EUD	NIC 1000Base-SX, LC connector, Wake-On-LAN, PXE			
EUD	Sound Integrated full duplex sound card			
EUD	Power supply and cords <del>1x Power adapter and cord (according to local requirements)</del> 350W Platinum PSU and cord (according to local requirements)			
EUD	Ports 1x USB 3.2 Gen 1 Type C 1x USB 3.2 Gen 1 Type C port (DP/PowerDelivery) 6x USB 3.2 Gen 1 Type A ports 2x USB 3.2 Gen 1 Type A port (DP/PowerDelivery)			
EUD	Lock Kensington lock socket			
EUD	<b>NS Workstation monitor</b>			
EUD	24" Monitor Dell P2422H - TEMPEST C	7025SB0067589	323	25
EUD	<b>NS Workstation ancillaries</b>			
EUD	Dell KB216 Multimedia Keyboard - TEMPEST C	7050SB0045085	318	22
EUD	Dell 6 button Laser Mouse - TEMPEST C	7050SB0045086	318	22
EUD	Plantronics Blackwire 3220 - 209745-101 - TEMPEST C	5965SB0065030	318	22
EUD	CAMERA, WEB, POLYCOM STUDIO P5, 1920X1080, 1XUSB 2.0 - TEMPEST C	7050SB0070358	318	22
EUD	Kensington MicroSaver 2.0 Chassis Lock	5340SB0063389	318	22
EUD	Kensington MicroSaver 2.0 Lock Master Key	5999SB0041916	318	22
EUD	<b>Desktop VTC</b>			
EUD	POLY Studio X30 - TAA, No Radios - TEMPEST C	G2200-86615-001	2	
EUD	MONITOR, 24", DELL P2418HT LED, DP/HDMI/USB3.0/VGA, 1920X1080, TOUCHSCREEN, TEMPEST C		2	
CYB	<b>Cyber</b>			
CYB	<b>Gateway Security solution NS</b>			
CYB	SFP+ form factor, LR 10 Gb optical transceiver, long reach 10 km, SMF, duplex LC, IEEE 802.3ae 10GBASE-LR compliant	PAN-SFP-PLUS-LR	10	



Cat	Item	Part number	Qty	Spare
CYB	<b>Gateway Security software NS</b>			
CYB	Firemon ANN-SPFM-SMLO: Annual Subscription Software License and Support		2	
CYB	Firemon ANN-SPFM-SMLO-HA: Annual Subscription Software License and Support		2	
CYB	<b>Monitoring solution NS</b>			
CYB	IXIA Vision E10S System AC Chassis with fixed (48) 1G/10G; Includes license for (16) 1G/10G ports and 20Gbps of PacketStack. (991-0180)	SYS-E10S-16P-AC	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Deduplication feature, perpetual licensed per system (993-0185)	LIC-E10S-DDUP	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Header stripping feature, perpetual licensed per system (993-0187)	LIC-E10S-STRP	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Tunneling feature, perpetual licensed per system (993-0188)	LIC-E10S-TUNL	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, perpetual Port license for an additional (16) 1G/10G ports (993-0183)	LIC-E10S-16P	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia, SFP+ 10GBASE SR pluggable optical transceiver, MMF (multimode fiber), 850nm, 300m reach, LC (995-8044)	SFP-PLUS-SR-XCVR	16	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	16	
CYB	IXIA Vision 1G SFP copper transceiver (995-0003)	CGI	0	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	0	
CYB	IXIA Rack Mount Chassis for Flex Taps, 24 Slots, with Slot ID Labels. (955-8186)	RK-FLEX-ID-24	1	
CYB	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 70/30 (955-0165)	TPX-10-SR-50-70	4	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	4	
CYB	Ixia PS-Ixia NVS Solution Services (972-4025) (in Europe, 2 days)	972-4025	1	
CYB	IXIA Cable Assembly Kit, LC/LC, 1G/10G, MM, 50um	705-0012-001	4	
CYB	<b>Full Packet Capture solution NS</b>			
CYB	<del>Warranty for Net Witness S6 (per month)</del>	<del>NW-S6-SED-Core-TP-Appl-EnhMnt-1Mo</del>	<del>36</del>	
CYB	<del>Net Witness Decoder Storage PV HD 96TB</del>	<del>NW-PVHDE96</del>	<del>1</del>	
CYB	<del>Warranty for Net Witness Decoder Storage (per month)</del>	<del>NW-PV-A-E1</del>	<del>36</del>	
CYB	<del>Net Witness Concentrator Storage PV HP 78TB</del>	<del>NW-PVHPE78</del>	<del>1</del>	
CYB	<del>Warranty for Concentrator (per month)</del>	<del>NW-S6-SED-Core-TP-Appl-EnhMnt-1Mo</del>	<del>36</del>	
CYB	<del>Warranty for Concentrator storage (per month)</del>	<del>NW-PV-D-E1</del>	<del>36</del>	
CYB	<del>Net Witness T2, 11-50TB/day NetM perTB Perp lic</del>	<del>SA-NETMON-P-T2</del>	<del>1</del>	
CYB	<del>Net Witness T2, 11-50TB/day NetM perTB 1Mo</del>	<del>SA-NETMON-P-T2-E1</del>	<del>36</del>	
CYB	<del>NW S6 Decoder TP Appl EnhMnt 1Mo</del>	<del>NW-S6H-NDEC-E1</del>	<del>36</del>	

## CO-115735-NAGSF - Statement of Work - Appendix A: Equipment specifications

Cat	Item	Part number	Qty	Spare
CYB	NW PV 12x16TB SED	NW-PV-A-N	1	
CYB	NW PV 12x16TB SED EM 1Mo	NW-PV-A-N-E1	36	
CYB	NW S6 Concentrator TP Appl EnhMnt 1Mo	NW-S6H-CON-E1	36	
CYB	NW PV 3x3.8 SSD 9x16TB SED	NW-PV-D-N	1	
CYB	NW PV 3x3.8 SSD 9x16TB SED EM 1Mo	NW-PV-D-N-E1	36	
CYB	NW T2, 11-50TB/day NetM perTB Perp lic	SA-NETMON-P-T2	1	
CYB	NW T2, 11-50TB/day NetM perTB 1Mo	SA-NETMON-P-T2-E1	36	
CYB	<b>NCDP Networking NS</b>			
CYB	Catalyst 9300 24-port data only, Network Advantage	C9300-24T-A	2	
CYB	SOLN SUPP 8X5XNBD Catalyst 9300 24-port data only, Network	CON-SSSNT-C930024A	2	
CYB	C9300 Network Advantage, 24-port license	C9300-NW-A-24	2	
CYB	Cisco Catalyst 9300 XE 16.12 UNIVERSAL	S9300UK9-1612	2	
CYB	350W AC 80+ platinum Config 1 Power Supply	PWR-C1-350WAC-P	2	
CYB	350W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-350WAC-P/2	2	
CYB	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	2	
CYB	50CM Type 1 Stacking Cable	STACK-T1-50CM	2	
CYB	Catalyst Stack Power Cable 30 CM	CAB-SPWR-30CM	2	
CYB	C9300 DNA Advantage, 24-Port Term Licenses	C9300-DNA-A-24	2	
CYB	C9300 DNA Advantage, 24-port - 3 Year Term License	C9300-DNA-A-24-3Y	2	
CYB	Catalyst 9300 8 x 10GE Network Module	C9300-NM-8X	2	
CYB	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
CYB	CISCO OPTICAL 10 Gb optical SFP+ SR	SFP-10G-SR	32	
CYB	<b>VPN router NS</b>			
CYB	Juniper SRX-380 VPN Service Gateway (including JUNOS 36 month Licence)	SRX380-P-SYSJB-AC	2	
CYB	Juniper SRX-380 VPN Service Gateway 36 months support	SVC-ND-SRX380JB	2	
CYB	600W AC-source power supply for SRX 380	JPSU-600-AC-AFO	2	
CYB	J-Series Power Cable, EU	CBL-JX-PWR-EU	2	
CYB	Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics	SRX-SFP-1GE-SX	10	
CYB	Juniper compliant optical 10 Gb optical SFP+ SR	SFP-10GE-SR	8	
CYB	Juniper compliant optical 10 Gb optical SFP+ LR	SFP-10GE-LR	8	
	SRX380 rack mount kit	EX-4PST-RMK	2	
CYB	<b>NCDP Server Hardware NS</b>			
CYB	Dell VSAN-RN R7515		2	
CYB	Chassis with up to 24x2.5" Drives	379-BDTF	2	
CYB	NVMe Backplane	379-BDSX	2	
CYB	Dell VSAN-RN R7515	210-AWXP	2	
CYB	All Flash IDM, VSAN-RN R7515	350-BCBB, 350-BCBG	2	

NATO UNCLASSIFIED  
CO-115735-NAGSF - Statement of Work - Appendix A: Equipment specifications

Cat	Item	Part number	Qty	Spare
CYB	Trusted Platform Module 2.0	461-AAEM	2	
CYB	2.5" Chassis with up to 24 NVMe Drives	321-BERW	2	
CYB	AMD EPYC 7742 2.25GHz, 64C/128T, 256M Cache (225W) DDR4-3200	338-BSWN	2	
CYB	Standard Heatsink	412-AAASE	2	
CYB	Performance Optimized	370-AAIP	2	
CYB	3200MT/s RDIMMs	370-AEVR	2	
CYB	64GB RDIMM, 3200MT/s, Dual Rank	370-AEVP	24	
CYB	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH	403-BCHP	2	
CYB	C30, No RAID for NVME chassis	780-BCDO	2	
CYB	No Controller	405-AACD	2	
CYB	No Hard Drive	400-ABHL	2	
CYB	800GB, Enterprise, NVMe, Write Intensive, U2, G4, Intel Optane P5800X with carrier	400-BMUL	2	
CYB	6.4TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier	400-BKGI	24	
CYB	UEFI BIOS Boot Mode with GPT Partition	800-BBDM	2	
CYB	No Additional Mid Fan	384-BBSO	2	
CYB	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	450-ADWM	2	
CYB	European Power Cord 220V	450-AAXU	4	
CYB	Riser Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot	330-BBNL	2	
CYB	PowerEdge R7515 Motherboard, with 2 x 1Gb Onboard LOM (BCM5720)MLK	384-BCUN	2	
CYB	OpenManage Enterprise Advanced	528-BIYY	2	
CYB	iDRAC9, Enterprise 15G	385-BBOT	2	
CYB	Broadcom 57416 Dual Port 10 GbE SFP+ Network LOM Mezz Card	540-BBZE	2	
CYB	Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile	540-BBVK	2	
CYB	Emulex LPE 31002 Dual Port 16Gb Fibre Channel HBA, PCIe Low Profile	403-BBMB	2	
CYB	PowerEdge 2U Standard Bezel	350-BBWP	2	
CYB	No Quick Sync	350-BBKU	2	
CYB	iDRAC,Legacy Password	379-BCSG	2	
CYB	iDRAC Group Manager, Enabled	379-BCQV	2	
CYB	No Operating System	611-BBBF	2	
CYB	No Media Required	605-BBFN	2	
CYB	OpenManage Integration for VMware vCenter - 1 host increment, 3 year license digitally fulfilled	634-BJBD	2	
CYB	ReadyRails™ Sliding Rails With Cable Management Arm	770-BBBR	2	
CYB	No Systems Documentation, No OpenManage DVD Kit	631-AACK	2	
CYB	PowerEdge R7515 Ship Material	343-BBMU	2	
CYB	PowerEdge R7515 CE,CCC Marking	389-DURZ	2	
CYB	PowerEdge R7515 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	340-CNWP	2	
CYB	Platinum PSU Configuration	389-EFJU	2	

CO-115735-NAGSF - Statement of Work - Appendix A: Equipment specifications

Cat	Item	Part number	Qty	Spare
CYB	No Internal Optical Drive for x10 or greater HDD Chassis	429-AAIQ	2	
CYB	INFO-VSAN READY NODE	821-18369	2	
CYB	Basic Next Business Day 36 Months, 36 Month(s)	709-BBIL	2	
CYB	ProSupport and Next Business Day Onsite Service, 36 Month(s)	865-BBMY	2	
CYB	Keep Your Hard Drive For Enterprise, 36 Month(s)	711-BBIY	2	
CYB	No Installation Service Selected (Contact Sales rep for more details)	683-11870	2	
CYB	Dell compatible OPTICAL 10 Gb optical SFP+ SR	SFP-10GE-SR	12	
CYB	<b>NCDP KVM NS</b>			
CYB	Dell Digital 16 Port KVM Switch	[A7485893] / A7485893	1	
CYB	DMPUIQ-VMCHS Server Interface Pod for VGA,USB keyboard,mouse supporting virtual media,CAC,USB2.0	[A7485901] / A7485901	16	
CYB	DMPUIQ-SRL: Serial Interface Pod for digital switches	[A7485902] / A7485902	1	
CYB	Dell OU mounting bracket for the DMPU and DAV KVMs mounted vertically using square hole racks.	[A7485899] / A7485899	1	
CYB	3 Year Gold DMPU2016 Hardware Maintenance by Avocent	[A7547290] / A7547290	1	
CYB	Dell LED KMM, 18.5", 1U, International English Keyboard - DKMMLED185 - 001	DKMMLED185 - 001	1	
CYB	<b>Tier 3 Analyst Workstation NS</b>			
CYB	Dell Optiplex 7080 SFF - TEMPEST C		1	
CYB	OptiPlex 7000 Small Form Factor			
CYB	12th Gen Intel® Core™ i5-12500 (18 MB cache, 6 cores, 12 threads, 3.00 GHz to 4.60 GHz Turbo, 65 W)			
CYB	Windows 10 Pro (Windows 11 Pro license included), English, French, Spanish			
CYB	8 GB, 1 x 8 GB, DDR4			
CYB	256 GB, M.2 2230, PCIe NVMe, SSD, Class 35			
CYB	No Additional Hard Drive			
CYB	Intel® Integrated Graphics			
CYB	No Optical Drive			
CYB	No Media Card Reader			
CYB	No Wireless LAN Card (no WiFi enablement)			
CYB	No wireless driver			
CYB	Optional Serial Port			
CYB	240 W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze			
CYB	Dell KB216 Wired Keyboard English, US			
CYB	Dell Optical Mouse - MS116 (Black)			
CYB	No Cable Cover			
CYB	No Additional Cable			
CYB	No External Speaker			
CYB	No Stand or Mount			
CYB	Dell Applications Windows 10 & 11 DGR with Dell Optimizer, IRST			
CYB	OS-Windows Media Not Included			

Cat	Item	Part number	Qty	Spare
CYB	ENERGY STAR Qualified			
CYB	NO RAID			
CYB	System Power Cord (EU)			
CYB	Safety/Environment and Regulatory Guide (English/French Multi-language)			
CYB	Dell Watchdog Timer			
CYB	Quick Start Guide			
CYB	Print on Demand Label			
CYB	Trusted Platform Module (Discrete TPM Enabled)			
CYB	Shipping Material			
CYB	PowerDVD Software not included			
CYB	Regulatory Label for OptiPlex 7000 SFF 240W			
CYB	M.2 Caddy			
CYB	Intel Core i5 vPro Enterprise Processor Label			
CYB	BTS/BTP Shipment			
CYB	7000SFF_1H23_004D/US/BTS			
CYB	Internal Speaker			
CYB	No Additional Network Card Selected (Integrated NIC included)			
CYB	No Additional Video Ports			
CYB	No Additional Add In Cards			
CYB	EPEAT 2018 Registered (Gold)			
CYB	Intel vPro® Enterprise			
CYB	No AutoPilot			
CYB	3 Years Hardware Service with Onsite/In-Home Service After Remote Diagnosis			
CYB	No Microsoft Office License included			
CYB	No anti-virus software			
CYB	Dell SFF server rack mount			
CYB	<b>NCDP Virtualization Software NS</b>			
CYB	Red Hat Enterprise Linux Server, Standard (1 Physical Per Socket Pair or 2 Virtual Nodes) 3 year		11	
CYB	<b>Gateway Security solution NU</b>			
CYB	Palo Alto Networks PA-5410 with redundant AC power supplies	PAN-PA-5410-AC	2	
CYB	SFP+ form factor, 10Gb direct attach twin-ax passive cable with 2 transceiver ends and 5m of cable permanently bonded as an assembly, IEEE 802.3ae 10GBASE-CR compliant	PAN-SFP-PLUS-CU-5M	2	
CYB	SFP+ form factor, SR 10Gb optical transceiver, short reach 300m, OM3 MMF, duplex LC, IEEE 802.3ae 10GBASE-SR compliant	PAN-SFP-PLUS-SR	24	
CYB	Palo Alto Networks PA-5450 4 post rack mount kit, spare only (1 is included with base system)	PAN-PA-5450-RACK4	2	
CYB	Premium support 3 year, PA-5410	PAN-SVC-PREM-5410-3YR	2	

Cat	Item	Part number	Qty	Spare
CYB	PA-5410, Threat prevention subscription, for one (1) device in an HA pair, 3 year (36 months) term. Recommended for air gapped/closed environments.	PAN-PA-5410-TP-HA2	2	
CYB	SFP+ form factor, LR 10 Gb optical transceiver, long reach 10 km, SMF, duplex LC, IEEE 802.3ae 10GBASE-LR compliant	PAN-SFP-PLUS-LR	10	
CYB	<b>Gateway Security software NU</b>			
CYB	Firemon ANN-SPFM-SMLO: Annual Subscription Software License and Support		2	
CYB	Firemon ANN-SPFM-SMLO-HA: Annual Subscription Software License and Support		2	
CYB	<b>Monitoring solution NU</b>			
CYB	IXIA Vision E10S System AC Chassis with fixed (48) 1G/10G; Includes license for (16) 1G/10G ports and 20Gbps of PacketStack. (991-0180)	SYS-E10S-16P-AC	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Deduplication feature, perpetual licensed per system (993-0185)	LIC-E10S-DDUP	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Header stripping feature, perpetual licensed per system (993-0187)	LIC-E10S-STRP	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, enables PacketStack Tunneling feature, perpetual licensed per system (993-0188)	LIC-E10S-TUNL	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia Vision E10S, perpetual Port license for an additional (16) 1G/10G ports (993-0183)	LIC-E10S-16P	1	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	1	
CYB	Ixia, SFP+ 10GBASE SR pluggable optical transceiver, MMF (multimode fiber), 850nm, 300m reach, LC (995-8044)	SFP-PLUS-SR-XCVR	16	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	16	
CYB	IXIA Vision 1G SFP copper transceiver (995-0003)	CGI	8	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	8	
CYB	IXIA Rack Mount Chassis for Flex Taps, 24 Slots, with Slot ID Labels. (955-8186)	RK-FLEX-ID-24	1	
CYB	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 70/30 (955-0165)	TPX-10-SR-50-70	4	
CYB	Ixia NVS Basic to Essential Upgrade-EMEA/APAC/LAR (909-0764)	909-0764	4	
CYB	Ixia PS-Ixia NVS Solution Services (972-4025) (in Europe, 2 days)	972-4025	1	
CYB	IXIA Cable Assembly Kit, LC/LC, 1G/10G, MM, 50um	705-0012-001	4	
CYB	<b>Full Packet Capture solution NU</b>			
CYB	<del>Net Witness S6 Network Decoder</del>	<del>NW-S6-CORE_NL</del>	<del>1</del>	
CYB	<del>Warranty for S6 (per month)</del>	<del>NW-S6-SED-Core-TP-Appl-EnhMnt-1Mo</del>	<del>36</del>	
CYB	<del>Net Witness Decoder Storage PV HD 96TB</del>	<del>NW-PVHDE96</del>	<del>1</del>	
CYB	<del>Warranty for Decoder Storage (per month)</del>	<del>NW-PV-A-E1</del>	<del>36</del>	
CYB	<del>NW-S6 Ntwk Concentrator</del>	<del>NW-S6-CORE_NL</del>	<del>1</del>	

Cat	Item	Part number	Qty	Spare
CYB	Warranty for Concentrator (per month)	NW-S6-SED-Core-TP-Appl-EnhMnt-1Mo	36	
CYB	Net Witness Concentrator Storage PV HP 78TB	NW-PVHPE78	1	
CYB	Warranty for Concentrator storage (per month)	NW-PV-D-E1	36	
CYB	NW T2, 11-50TB/day NetM perTB Perp lic	SA-NETMON-P-T2	1	
CYB	NW T2, 11-50TB/day NetM perTB 1Mo	SA-NETMON-P-T2-E1	36	
CYB	NW-S6E-CORE-NL	NW-S6E-CORE-NL	1	
CYB	NW S6 SED Core TP Appl EnhMnt 1 Mo	NW-S6E-CORE-E1	36	
CYB	NW PV 12x16TB SED	NW-PV-A-N	1	
CYB	NW PV 12x16TB SED EM 1Mo	NW-PV-A-N-E1	36	
CYB	NW-S6E-CORE-NL	NW-S6E-CORE-NL	1	
CYB	NW S6 SED Core TP Appl EnhMnt 1 Mo	NW-S6E-CORE-E1	36	
CYB	NW PV 3x3.8 SSD 9x16TB SED	NW-PV-D-N	1	
CYB	NW PV 3x3.8 SSD 9x16TB SED EM 1Mo	NW-PV-D-N-E1	36	
CYB	NW T2, 11-50TB/day NetM perTB Perp lic	SA-NETMON-P-T2	1	
CYB	NW T2, 11-50TB/day NetM perTB 1Mo	SA-NETMON-P-T2-E1	36	
CYB	<b>NCDP Networking NU</b>			
CYB	Catalyst 9300 24-port data only, Network Advantage	C9300-24T-A	2	
CYB	SOLN SUPP 8X5XNBD Catalyst 9300 24-port data only, Network	CON-SSSNT-C930024A	2	
CYB	C9300 Network Advantage, 24-port license	C9300-NW-A-24	2	
CYB	Cisco Catalyst 9300 XE 16.12 UNIVERSAL	S9300UK9-1612	2	
CYB	350W AC 80+ platinum Config 1 Power Supply	PWR-C1-350WAC-P	2	
CYB	350W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-350WAC-P/2	2	
CYB	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	2	
CYB	50CM Type 1 Stacking Cable	STACK-T1-50CM	2	
CYB	Catalyst Stack Power Cable 30 CM	CAB-SPWR-30CM	2	
CYB	C9300 DNA Advantage, 24-Port Term Licenses	C9300-DNA-A-24	2	
CYB	C9300 DNA Advantage, 24-port - 3 Year Term License	C9300-DNA-A-24-3Y	2	
CYB	Catalyst 9300 8 x 10GE Network Module	C9300-NM-8X	2	
CYB	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
CYB	CISCO OPTICAL 10 Gb optical SFP+ SR	SFP-10G-SR	16	
CYB	<b>VPN router NU</b>			
CYB	Juniper SRX-380 VPN Service Gateway (including JUNOS 36 month Licence)	SRX380-P-SYSJB-AC	2	
CYB	Juniper SRX-380 VPN Service Gateway 36 months support	SVC-ND-SRX380JB	2	
CYB	600W AC-source power supply for SRX 380	JPSU-600-AC-AFO	2	
CYB	J-Series Power Cable, EU	CBL-JX-PWR-EU	2	
CYB	Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics	SRX-SFP-1GE-SX	10	

Cat	Item	Part number	Qty	Spare
CYB	Juniper compliant optical 10 Gb optical SFP+ SR	SFP-10GE-SR	8	
CYB	Juniper compliant optical 10 Gb optical SFP+ LR	SFP-10GE-LR	8	
	SRX380 rack mount kit	EX-4PST-RMK	2	
CYB	<b>NCDP Server Hardware NU</b>			
CYB	Dell VSAN-RN R7515		2	
CYB	Chassis with up to 24x2.5" Drives	379-BDTF	2	
CYB	NVMe Backplane	379-BDSX	2	
CYB	Dell VSAN-RN R7515	210-AWXP	2	
CYB	All Flash IDM, VSAN-RN R7515	350-BCBB, 350-BCBG	2	
CYB	Trusted Platform Module 2.0	461-AAEM	2	
CYB	2.5" Chassis with up to 24 NVMe Drives	321-BERW	2	
CYB	AMD EPYC 7742 2.25GHz, 64C/128T, 256M Cache (225W) DDR4-3200	338-BSWN	2	
CYB	Standard Heatsink	412-AASE	2	
CYB	Performance Optimized	370-AAIP	2	
CYB	3200MT/s RDIMMs	370-AEVR	2	
CYB	64GB RDIMM, 3200MT/s, Dual Rank, 16Gb	370-AEVP	24	
CYB	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH	403-BCHP	2	
CYB	C30, No RAID for NVME chassis	780-BCDO	2	
CYB	No Controller	405-AACD	2	
CYB	No Hard Drive	400-ABHL	2	
CYB	800GB, Enterprise, NVMe, Write Intensive, U2, G4, Intel Optane P5800X with carrier	400-BMUL	4	
CYB	6.4TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier	400-BKGI	24	
CYB	UEFI BIOS Boot Mode with GPT Partition	800-BBDM	2	
CYB	No Additional Mid Fan	384-BBSO	2	
CYB	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	450-ADWM	2	
CYB	European Power Cord 220V	450-AAXU	4	
CYB	Riser Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot	330-BBNL	2	
CYB	PowerEdge R7515 Motherboard, with 2 x 1Gb Onboard LOM (BCM5720)MLK	384-BCUN	2	
CYB	OpenManage Enterprise Advanced	528-BIYY	2	
CYB	iDRAC9, Enterprise 15G	385-BBOT	2	
CYB	Broadcom 57416 Dual Port 10 GbE SFP+ Network LOM Mezz Card	540-BBZE	2	
CYB	Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile	540-BBVK	2	
CYB	Emulex LPE 31002 Dual Port 16Gb Fibre Channel HBA, PCIe Low Profile	403-BBMB	2	
CYB	PowerEdge 2U Standard Bezel	350-BBWP	2	
CYB	No Quick Sync	350-BBKU	2	
CYB	iDRAC,Legacy Password	379-BCSG	2	
CYB	iDRAC Group Manager, Enabled	379-BCQV	2	



Cat	Item	Part number	Qty	Spare
CYB	No Operating System	611-BBBF	2	
CYB	No Media Required	605-BBFN	2	
CYB	OpenManage Integration for VMware vCenter - 1 host increment, 3 year license digitally fulfilled	634-BJBD	2	
CYB	ReadyRails™ Sliding Rails With Cable Management Arm	770-BBBR	2	
CYB	No Systems Documentation, No OpenManage DVD Kit	631-AACK	2	
CYB	PowerEdge R7515 Ship Material	343-BBMU	2	
CYB	PowerEdge R7515 CE,CCC Marking	389-DURZ	2	
CYB	PowerEdge R7515 Shipping EMEA1 (English/French/German/Spanish/Russian/Hebrew)	340-CNWP	2	
CYB	Platinum PSU Configuration	389-EFJU	2	
CYB	No Internal Optical Drive for x10 or greater HDD Chassis	429-AAIQ	2	
CYB	INFO-VSAN READY NODE	821-18369	2	
CYB	Basic Next Business Day 36 Months, 36 Month(s)	709-BBIL	2	
CYB	ProSupport and Next Business Day Onsite Service, 36 Month(s)	865-BBMY	2	
CYB	Keep Your Hard Drive For Enterprise, 36 Month(s)	711-BBIY	2	
CYB	No Installation Service Selected (Contact Sales rep for more details)	683-11870	2	
CYB	Dell compatible OPTICAL 10 Gb optical SFP+ SR	SFP-10GE-SR	12	
CYB	<b>NCDP KVM NU</b>			
CYB	Dell Digital 16 Port KVM Switch	[A7485893] / A7485893	1	
CYB	DMPUIQ-VMCHS Server Interface Pod for VGA,USB keyboard,mouse supporting virtual media,CAC,USB2.0	[A7485901] / A7485901	16	
CYB	DMPUIQ-SRL: Serial Interface Pod for digital switches	[A7485902] / A7485902	1	
CYB	Dell 0U mounting bracket for the DMPU and DAV KVMs mounted vertically using square hole racks.	[A7485899] / A7485899	1	
CYB	3 Year Gold DMPU2016 Hardware Maintenance by Avocent	[A7547290] / A7547290	1	
CYB	Dell LED KMM, 18.5", 1U, International English Keyboard - DKMMLED185 - 001	DKMMLED185 - 001	1	
CYB	<b>Tier 3 Analyst Workstation NU</b>			
CYB	Dell Optiplex 7080 SFF		1	
CYB	OptiPlex 7000 Small Form Factor			
CYB	12th Gen Intel® Core™ i5-12500 (18 MB cache, 6 cores, 12 threads, 3.00 GHz to 4.60 GHz Turbo, 65 W)			
CYB	Windows 10 Pro (Windows 11 Pro license included), English, French, Spanish			
CYB	8 GB, 1 x 8 GB, DDR4			
CYB	256 GB, M.2 2230, PCIe NVMe, SSD, Class 35			
CYB	No Additional Hard Drive			
CYB	Intel® Integrated Graphics			
CYB	No Optical Drive			
CYB	No Media Card Reader			
CYB	Intel Wi-Fi 6E 2x2 AX211 Bluetooth 5.2 Wireless Card with Internal Antenna			
CYB	Wireless Driver, Intel AX211			
CYB	Optional Serial Port			

Cat	Item	Part number	Qty	Spare
CYB	240 W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze			
CYB	Dell KB216 Wired Keyboard English, US			
CYB	Dell Optical Mouse - MS116 (Black)			
CYB	No Cable Cover			
CYB	No Additional Cable			
CYB	No External Speaker			
CYB	No Stand or Mount			
CYB	Dell Applications Windows 10 & 11 DGR with Dell Optimizer, IRST			
CYB	OS-Windows Media Not Included			
CYB	ENERGY STAR Qualified			
CYB	NO RAID			
CYB	System Power Cord (EU)			
CYB	Safety/Environment and Regulatory Guide (English/French Multi-language)			
CYB	Dell Watchdog Timer			
CYB	Quick Start Guide			
CYB	Print on Demand Label			
CYB	Trusted Platform Module (Discrete TPM Enabled)			
CYB	Shipping Material			
CYB	PowerDVD Software not included			
CYB	Regulatory Label for OptiPlex 7000 SFF 240W			
CYB	M.2 Caddy			
CYB	Intel Core i5 vPro Enterprise Processor Label			
CYB	BTS/BTP Shipment			
CYB	7000SFF_1H23_004D/US/BTS			
CYB	Internal Speaker			
CYB	No Additional Network Card Selected (Integrated NIC included)			
CYB	No Additional Video Ports			
CYB	No Additional Add In Cards			
CYB	EPEAT 2018 Registered (Gold)			
CYB	Intel vPro® Enterprise			
CYB	No AutoPilot			
CYB	3 Years Hardware Service with Onsite/In-Home Service After Remote Diagnosis			
CYB	No Microsoft Office License included			
CYB	No anti-virus software			
CYB	Dell SFF server rack mount			
CYB	<b>NCDP Virtualization Software NS</b>			
CYB	Red Hat Enterprise Linux Server, Standard (1 Physical Per Socket Pair or 2 Virtual Nodes) 3 year		11	

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Cat	Item	Part number	Qty	Spare
CYB	<b>Tier 2 uplift</b>			
CYB	Dell Controller DD6900 NFS CIFS[PowerProtect DD6900]			1
CYB	<i>Components</i>			
CYB	SYSTEM DD6900 NFS CIFS	321-BEYX		1
CYB	DD 1.92TB internal Cache SSD	400-BHKT		2
CYB	DD 10GBASE-T IO MODULE 4PORT NDC	406-BBPC		1
CYB	DD 12G 4 port SAS HBA	406-BBPF		2
CYB	DD 10GSFP IO MODULE 4Port Full Height	406-BBPD		2
CYB	XCVR 10GbE SR SFP	407-BCHR		4
CYB	DD 3M SAS HD FLEX	470-ADZE		1
CYB	ProSupport Plus Mission Critical Operating Environment Software Support Maintenance, 60 Month(s)	487-BBNY		1
CYB	Education Services - Dell EMC Proven Professional Exam Voucher Expire1YR	423-10139		1
CYB	DD6900 Field Install kit	750-ABNU		1
CYB	LICENSE BASE DD OE =IA	528-BYIF		1
CYB	<i>Software</i>			
CYB	DD OS 7.2=IA	619-APHZ		1
CYB	<i>Service</i>			
CYB	ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX	683-23696		1
CYB	<i>ProDeploy Plus for PowerProtect Data Domain 6XXX 9XXX Deployment Verification</i>	683-23697		1
CYB	Education Services - PowerProtect DD Systems Admin Instructor Led Training	423-10095		1
CYB	Parts Only Warranty 12 Months, 12 Month(s)	709-BBNH		1
CYB	<i>ProSupport Plus and 4Hr Mission Critical Initial, 12 Month(s)</i>	199-BBBF		1
CYB	ProSupport Plus and 4Hr Mission Critical Extension, 48 Month(s)	199-BBBG		1
CYB	DD DS60 SHELF Field[PowerProtect DD 4TB DS60 - 120TB]			1
CYB	<i>Components</i>			
CYB	HDD 12G DISK PK 15X4TB SAS FL DS60	400-BMDQ		1
CYB	ProSupport Plus Mission Critical DD New 1TB Software Support Maintenance, 60 months	487-BBNI		60
CYB	ProSupport Plus Mission Critical DD Boost 1TB Software Support Maintenance, 60 months	487-BBMZ		60
CYB	ProSupport Plus Mission Critical DD Replication 1TB Software Support, Maintenance, 60 Month(s)	487-BBNE		60
CYB	DD New Software 1TB Raw=CB	528-BYIR		60
CYB	DS60 4TB Active 1TB Raw=CB	528-CQOF		60
CYB	DD Boost Software 1TB Raw=CB	528-BYIS		60
CYB	DD Replication Software 1TB Raw=CB	528-BYIT		60
CYB	<i>Service</i>			
CYB	<i>ProSupport PLUS Mission Critical DD Raw DS60 4TB Active 1TB Sftwr Spt-Maint, 60 Month(s)</i>	487-BHRY		60
CYB	ProDeploy Plus for DSXX	683-23660		1
CYB	ProDeploy Plus for DSXX Deployment Verification	683-23661		1

Cat	Item	Part number	Qty	Spare
CYB	Parts Only Warranty 12 Months, 12 Month(s)	709-BBNH	1	
CYB	ProSupport Plus and 4Hr Mission Critical Initial, 12 Month(s)	199-BBBF	1	
CYB	ProSupport Plus and 4Hr Mission Critical Extension, 48 Month(s)	199-BBBG	1	
CYB	DD Spare Base[DD6900 FC Card]	210-BCLU	1	
CYB	UPG 16GBIT FC IO Module 4PORT	406-BBQH	1	
CYB	XCVR 16GFC SFP	407-BCHS	4	
<b>NS</b>	<b>NS distribution</b>			
<b>NS</b>	<b>NS DC Layer</b>			
NS	Nexus 9300 with 28p 100G and 8p 400G	N9K-C93600CD-GX	2	
NS	SNTC-24X7X4 Nexus 9300 with 28p 100G and 8p 400G	CON-SNTP-N9KC936G	2	
NS	Dummy PID for Airflow Selection Port-side Exhaust	NXX-AF-PE	2	
NS	Nexus 3K/9K Fixed Accessory Kit, 1RU front and rear removal	NXX-ACC-KIT-1RU	2	
NS	Nexus Fan, 35CFM, port side exhaust airflow	NXA-FAN-35CFM-PE	12	
NS	Nexus AC 1100W PSU - Port Side Exhaust	NXA-PAC-1100W-PE2	4	
NS	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors	CAB-C13-CBN	4	
NS	OPT OUT FOR "Default" DCN Subscription Selection	C1-SUBS-OPTOUT	2	
NS	Dummy PID for mode selection	MODE-NXOS	2	
NS	Nexus 9500, 9300 Base NX-OS Software Rel 10.2.1(64-bit)	NXOS-64-10.2.1F	2	
NS	10GBASE-SR SFP Module	SFP-10G-SR=	20	
NS	10GBASE-LR SFP Module	SFP-10G-LR=	12	
<b>NS</b>	<b>NS Core Layer</b>			
NS	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	C9500-48Y4C-A	2	
NS	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NS	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NS	C9500 Network Stack, Advantage	C9500-NW-A	2	
NS	Cisco Catalyst 9500H XE.17.5 UNIVERSAL	SC9500HUK9-175	2	
NS	No SSD Card Selected	C9500-SSD-NONE	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	
NS	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	CAB-C13-C14-2M	4	
NS	C9500 DNA Advantage, Term License	C9500-DNA-48Y4C-A	2	
NS	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NS	10GBASE-SR SFP Module	SFP-10G-SR=	16	
NS	10GBASE-LR SFP Module	SFP-10G-LR=	12	
NS	SOLN SUPP 8X5XNBD Catalyst 9500 48-port 25/100G only, Adva	CON-SSSNT-C9504YA4	2	
NS	SOLN SUPP SW SUBC9500 DNA Advantage	CON-SSTCM-C9524QA	2	

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Cat	Item	Part number	Qty	Spare
NS	Cisco Catalyst 9500 DNA Advantage 3 Year License	C9500-DNA-A-3Y	2	
NS	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	
NS	<b>NS Distribution layer</b>			
NS	Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage	C9500-24Y4C-A	2	
NS	SNTC-24X7X4 Catalyst 9500 24-port 25/100G only, Adva	CON-SNTP-C95024YA	2	
NS	C9500 Network Stack, Advantage	C9500-NW-A	2	
NS	UNIVERSAL	S9500UK9-169	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	
NS	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	CAB-9K10A-EU	4	
NS	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NS	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NS	<del>C9500 DNA Premier, 24Y4C Port, Term License</del>	<del>C9500-DNA-24Y4C-P</del>	<del>2</del>	
NS	<del>C9500 DNA Premier 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-L-P-3Y</del>	<del>2</del>	
NS	<del>C9500 DNA Advantage 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-A-48S-3Y</del>	<del>2</del>	
NS	ISE BASE Term License	ISE-BASE-T	50	
NS	ISE BASE Tracker Term 3Y	ISE-BASE-TRK-3Y	50	
NS	ISE PLS Term License	ISE-PLS-T	50	
NS	ISE PLS Tracker Term 3Y	ISE-PLS-TRK-3Y	50	
NS	StealthWatch 1 FPS Term License	SWATCH-T	200	
NS	ISE BASE Tracker Term 3Y	SWATCH-TRK-3Y	200	
NS	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NS	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NS	10GBASE-SR SFP Module	SFP-10G-SR=	0	
NS	10GBASE-LR SFP Module	SFP-10G-LR=	8	
NS	<b>NS Access Layer</b>			
NS	Catalyst 9300 48 GE SFP Ports, modular uplink Switch	C9300-48S-A	24	
NS	C9300 Network Advantage, 48-port license	C9300-NW-A-48	24	
NS	Cisco Catalyst 9300 XE 16.12 UNIVERSAL	S9300UK9-1612	24	
NS	715W AC 80+ platinum Config 1 Power Supply	PWR-C1-715WAC-P	24	
NS	715W AC 80+ platinum Config 1 SecondaryPower Supply	PWR-C1-715WAC-P/2	24	
NS	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	48	
NS	Catalyst 9300 8 x 10GE Network Module	C9300-NM-8X	24	
NS	50CM Type 1 Stacking Cable	STACK-T1-50CM	24	
NS	1M Type 1 Stacking Cable	STACK-T1-1M	12	
NS	Catalyst Stack Power Cable 30 CM	CAB-SPWR-30CM	0	

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Cat	Item	Part number	Qty	Spare
NS	Catalyst Stack Power Cable 150 CM	CAB-SPWR-150CM	0	
NS	C9300 DNA Advantage, 48-Port Fiber Term Licenses	C9300-DNA-A-48S	24	
NS	Cisco ThousandEyes Enterprise Agent IBN Embedded	TE-EMBEDDED-T	24	
NS	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	24	
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	24	
NS	1000BASE-T SFP transceiver module for Category 5 copper wire	GLC-TE=	8	
NS	100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960	GLC-GE-100FX=	0	
NS	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD=	550	
NS	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD=	8	
NS	10GBASE-SR SFP Module	SFP-10G-SR=	0	
NS	10GBASE-LR SFP Module	SFP-10G-LR=	40	
NS	SOLN SUPP 8X5XNBD Catalyst 9300 48 GE SFP Ports, modular u	CON-SSSNT-C93004SA	24	
NS	SOLN SUPP SW SUBC9300 DNA Advantage	CON-SSTCM-C93A48S	24	
NS	C9300 DNA Advantage, 48-Port Fiber, 3 Year Term License	C9300-DNA-A-48S-3Y	24	
NS	ThousandEyes - Enterprise Agents	TE-EMBEDDED-T-3Y	24	
NS	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	24	
NS	<b>NS External SW</b>			
NS	Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage	C9500-24Y4C-A	2	
NS	SNTC-24X7X4 Catalyst 9500 24-port 25/100G only, Adva	CON-SNTP-C95024YA	2	
NS	C9500 Network Stack, Advantage	C9500-NW-A	2	
NS	UNIVERSAL	S9500UK9-169	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NS	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	
NS	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	CAB-9K10A-EU	4	
NS	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NS	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NS	<del>C9500 DNA Premier, 24Y4C Port, Term License</del>	<del>C9500-DNA-24Y4C-P</del>	<del>2</del>	
NS	<del>C9500 DNA Premier 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-L-P-3Y</del>	<del>2</del>	
NS	<del>C9500 DNA Advantage 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-A-48S-3Y</del>	<del>2</del>	
NS	ISE BASE Term License	ISE-BASE-T	50	
NS	ISE BASE Tracker Term 3Y	ISE-BASE-TRK-3Y	50	
NS	ISE PLS Term License	ISE-PLS-T	50	
NS	ISE PLS Tracker Term 3Y	ISE-PLS-TRK-3Y	50	
NS	StealthWatch 1 FPS Term License	SWATCH-T	200	
NS	ISE BASE Tracker Term 3Y	SWATCH-TRK-3Y	200	
NS	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NS	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	

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Cat	Item	Part number	Qty	Spare
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NS	10GBASE-SR SFP Module	SFP-10G-SR=	20	
NS	10GBASE-LR SFP Module	SFP-10G-LR=	20	
NS	<b>NS DSMS</b>			
NS	Catalyst 9300 24-port data only, Network Advantage	C9300-24T-A	3	
NS	C9300 Network Advantage, 24-port license	C9300-NW-A-24	3	
NS	Cisco Catalyst 9300 XE 17.5 UNIVERSAL UNIVERSAL	SC9300UK9-175	3	
NS	350W AC 80+ platinum Config 1 Power Supply	PWR-C1-350WAC-P	3	
NS	350W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-350WAC-P/2	3	
NS	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	6	
NS	No SSD Card Selected	C9300-SSD-NONE	3	
NS	No Stack Cable Selected	C9300-STACK-NONE	3	
NS	No Stack Power Cable Selected	C9300-SPWR-NONE	3	
NS	TE agent for IOSXE on C9K	TE-C9K-SW	3	
NS	C9300 DNA Advantage, 24-port Term Licenses	C9300-DNA-A-24	3	
NS	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	3	
NS	Cisco DNA Spaces Extend Term License for Catalyst Switches	D-DNAS-EXT-S-T	3	
NS	Cisco ThousandEyes Enterprise Agent IBN Embedded	TE-EMBEDDED-T	3	
NS	Catalyst 9300 4 x 1GE Network Module	C9300-NM-4G	3	
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	3	
NS	SOLN SUPP 8X5XNBD Catalyst 9300 24-port data only, Network	CON-SSSNT-C93002TA	3	
NS	SOLN SUPP SW SUBC9300 DNA Advantage	CON-SSTCM-C93A24	3	
NS	C9300 DNA Advantage, 24-Port, 3 Year Term License	C9300-DNA-A-24-3Y	3	
NS	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	3	
NS	Cisco DNA Spaces Extend for Catalyst Switching - 3Year	D-DNAS-EXT-S-3Y	3	
NS	ThousandEyes - Enterprise Agents	TE-EMBEDDED-T-3Y	3	
NS	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD=	3	
NS	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD=	3	
NS	<b>RECN-NS</b>			
NS	Cisco Catalyst C8200-1N-4T Router	C8200-1N-4T	3	
NS	Cisco Catalyst 8200 Edge 16GB memory	MEM-C8200-16GB	3	
NS	Cisco Catalyst 8000 Edge M.2 USB 16GB	M2USB-16G	3	
NS	AC Power Cord (Europe), C13, CEE 7, 1.5M	CAB-ACE	3	
NS	Cisco Catalyst 8000 Edge RFID - 1RU	C-RFID-1R	3	
NS	U.S. Export Restriction Compliance license for C8000 series	C8000-HSEC	3	
NS	Cisco Catalyst 8200 Rack mount kit - 19" 1R	C8200-RM-19-1R	3	
NS	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	3	

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Cat	Item	Part number	Qty	Spare
NS	Cisco Catalyst 8200 Edge NIM Blank	C8200-NIM-BLANK	3	
NS	Cisco Catalyst 8200 Edge PIM Blank	C8200-PIM-BLANK	3	
NS	TE agent for IOSXE on Enterprise Routing	TE-R-SW	3	
NS	IOS XE Autonomous boot up mode for Unified image	IOSXE-AUTO-MODE	3	
NS	UNIVERSAL	SC8KBEUK9-176	3	
NS	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD	12	
NS	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD	12	
NS	Cisco DNA Advantage On-Prem Lic 3Y - upto 1G (Aggr, 2G)	DNA-P-T2-A-3Y	3	
NS	Solution Support for SW - DNA Advantage OnPrem Lic, T2, 3Y	SVS-PDNA-T2-A3Y	3	
NS	Cisco DNA Advantage Stack - upto 1G (Aggr, 2G)	DSTACK-T2-A	3	
NS	Cisco Network Advantage Stack - upto 1G (Aggr, 2G)	NWSTACK-T2-A	3	
NS	Cisco Umbrella for DNA Advantage	SDWAN-UMB-ADV	3	
NS	Cisco DNA Center On Prem Deployment Option for WAN	DNAC-ONPREM-PF	3	
NS	SOLN SUPP 24X7X4 Cisco Catalyst C8200	CON-SSSNP-C82001N4	3	
<b>NU</b>	<b>NU distribution</b>			
<b>NU</b>	<b>NU DC Layer</b>			
NU	Nexus 9300 with 28p 100G and 8p 400G	N9K-C93600CD-GX	2	
NU	SNTC-24X7X4 Nexus 9300 with 28p 100G and 8p 400G	CON-SNTP-N9KC936G	2	
NU	Dummy PID for Airflow Selection Port-side Exhaust	NXK-AF-PE	2	
NU	Nexus 3K/9K Fixed Accessory Kit, 1RU front and rear removal	NXK-ACC-KIT-1RU	2	
NU	Nexus Fan, 35CFM, port side exhaust airflow	NXA-FAN-35CFM-PE	12	
NU	Nexus AC 1100W PSU - Port Side Exhaust	NXA-PAC-1100W-PE2	4	
NU	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors	CAB-C13-CBN	4	
NU	OPT OUT FOR "Default" DCN Subscription Selection	C1-SUBS-OPTOUT	2	
NU	Dummy PID for mode selection	MODE-NXOS	2	
NU	Nexus 9500, 9300 Base NX-OS Software Rel 10.2.1(64-bit)	NXOS-64-10.2.1F	2	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	20	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	12	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	24	
NU	40GBASE-CR4 Passive Copper Cable, 1m	QSFP-H40G-CU1M	12	
<b>NU</b>	<b>NU Core Layer</b>			
NU	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	C9500-48Y4C-A	2	
NU	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NU	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NU	C9500 Network Stack, Advantage	C9500-NW-A	2	
NU	Cisco Catalyst 9500H XE.17.5 UNIVERSAL	SC9500HUK9-175	2	
NU	No SSD Card Selected	C9500-SSD-NONE	2	



Cat	Item	Part number	Qty	Spare
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	
NU	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	CAB-C13-C14-2M	4	
NU	C9500 DNA Advantage, Term License	C9500-DNA-48Y4C-A	2	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	16	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	12	
NU	SOLN SUPP 8X5XNBD Catalyst 9500 48-port 25/100G only, Adva	CON-SSSNT-C9504YA4	2	
NU	SOLN SUPP SW SUBC9500 DNA Advantage	CON-SSTCM-C9524QA	2	
NU	Cisco Catalyst 9500 DNA Advantage 3 Year License	C9500-DNA-A-3Y	2	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	
<b>NU</b>	<b>NU Distribution layer</b>			
NU	Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage	C9500-24Y4C-A	2	
NU	SNTC-24X7X4 Catalyst 9500 24-port 25/100G only, Adva	CON-SNTP-C95024YA	2	
NU	C9500 Network Stack, Advantage	C9500-NW-A	2	
NU	UNIVERSAL	S9500UK9-169	2	
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	
NU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	CAB-9K10A-EU	4	
NU	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NU	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NU	<del>C9500 DNA Premier, 24Y4C Port, Term License</del>	<del>C9500-DNA-24Y4C-P</del>	<del>2</del>	
NU	<del>C9500 DNA Premier 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-L-P-3Y</del>	<del>2</del>	
NU	<del>C9500 DNA Advantage 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-A-48S-3Y</del>	<del>2</del>	
NU	ISE BASE Term License	ISE-BASE-T	50	
NU	ISE BASE Tracker Term 3Y	ISE-BASE-TRK-3Y	50	
NU	ISE PLS Term License	ISE-PLS-T	50	
NU	ISE PLS Tracker Term 3Y	ISE-PLS-TRK-3Y	50	
NU	StealthWatch 1 FPS Term License	SWATCH-T	200	
NU	ISE BASE Tracker Term 3Y	SWATCH-TRK-3Y	200	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	0	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	8	
<b>NU</b>	<b>NU Access Layer</b>			

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Cat	Item	Part number	Qty	Spare
NU	Catalyst 9300 48-port PoE+, Network Advantage	C9300-48P-A	32	
NU	C9300 Network Advantage, 48-port license	C9300-NW-A-48	32	
NU	Cisco Catalyst 9300 XE 17.5 UNIVERSAL UNIVERSAL	SC9300UK9-175	32	
NU	715W AC 80+ platinum Config 1 Power Supply	PWR-C1-715WAC-P	32	
NU	715W AC 80+ platinum Config 1 SecondaryPower Supply	PWR-C1-715WAC-P/2	32	
NU	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	64	
NU	No SSD Card Selected	C9300-SSD-NONE	32	
NU	50CM Type 1 Stacking Cable	STACK-T1-50CM	28	
NU	100CM Type 1 Stacking Cable	STACK-T1-1M	6	
NU	No Stack Power Cable Selected	C9300-SPWR-NONE	32	
NU	TE agent for IOSXE on C9K	TE-C9K-SW	32	
NU	C9300 DNA Advantage, 48-Port Term Licenses	C9300-DNA-A-48	32	
NU	Cisco DNA Premier Add-On Session Opt Out (No Fulfillment)	C1-ADD-OPTOUT	32	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	32	
NU	Cisco DNA Spaces Extend Term License for Catalyst Switches	D-DNAS-EXT-S-T	32	
NU	Cisco ThousandEyes Enterprise Agent IBN Embedded	TE-EMBEDDED-T	32	
NU	Catalyst 9300 8 x 10GE Network Module	C9300-NM-8X	32	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	32	
NU	1000BASE-T SFP transceiver module for Category 5 copper wire	GLC-TE=	0	
NU	100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960	GLC-GE-100FX=	0	
NU	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD=	24	
NU	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD=	10	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	18	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	42	
NU	SOLN SUPP 8X5XNBD Catalyst 9300 48-port PoE+, Network Adva	CON-SSSNT-C93004PA	32	
NU	SOLN SUPP SW SUBC9300 DNA Advantage	CON-SSTCM-C93A48	32	
NU	C9300 DNA Advantage, 48-Port, 3 Year Term License	C9300-DNA-A-48-3Y	32	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	32	
NU	Cisco DNA Spaces Extend for Catalyst Switching - 3Year	D-DNAS-EXT-S-3Y	32	
NU	ThousandEyes - Enterprise Agents	TE-EMBEDDED-T-3Y	32	
NU	<b>NU External SW</b>			
NU	Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage	C9500-24Y4C-A	2	
NU	SNTP-24X7X4 Catalyst 9500 24-port 25/100G only, Adva	CON-SNTP-C95024YA	2	
NU	C9500 Network Stack, Advantage	C9500-NW-A	2	
NU	UNIVERSAL	S9500UK9-169	2	
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R	2	
NU	650W AC Config 4 Power Supply front to back cooling	C9K-PWR-650WAC-R/2	2	

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Cat	Item	Part number	Qty	Spare
NU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	CAB-9K10A-EU	4	
NU	Cisco pluggable SSD storage	C9K-F1-SSD-BLANK	2	
NU	Catalyst 9500 Type 4 front to back cooling Fan	C9K-T1-FANTRAY	4	
NU	<del>C9500 DNA Premier, 24Y4C Port, Term License</del>	<del>C9500-DNA-24Y4C-P</del>	<del>2</del>	
NU	<del>C9500 DNA Premier 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-L-P-3Y</del>	<del>2</del>	
NU	<del>C9500 DNA Advantage 12Q/16X / 24Y4C 3Year Term License</del>	<del>C9500-DNA-A-48S-3Y</del>	<del>2</del>	
NU	ISE BASE Term License	ISE-BASE-T	50	
NU	ISE BASE Tracker Term 3Y	ISE-BASE-TRK-3Y	50	
NU	ISE PLS Term License	ISE-PLS-T	50	
NU	ISE PLS Tracker Term 3Y	ISE-PLS-TRK-3Y	50	
NU	StealthWatch 1 FPS Term License	SWATCH-T	200	
NU	ISE BASE Tracker Term 3Y	SWATCH-TRK-3Y	200	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	6	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	6	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	20	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	20	
NU	<b>T10x NU Distribution</b>			
NU	Catalyst 9300 48-port PoE+, Network Advantage	C9300-48P-A	2	
NU	C9300 Network Advantage, 48-port license	C9300-NW-A-48	2	
NU	Cisco Catalyst 9300 XE 17.5 UNIVERSAL UNIVERSAL	SC9300UK9-175	2	
NU	715W AC 80+ platinum Config 1 Power Supply	PWR-C1-715WAC-P	2	
NU	715W AC 80+ platinum Config 1 SecondaryPower Supply	PWR-C1-715WAC-P/2	2	
NU	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	4	
NU	No SSD Card Selected	C9300-SSD-NONE	2	
NU	50CM Type 1 Stacking Cable	STACK-T1-50CM	2	
NU	100CM Type 1 Stacking Cable	STACK-T1-1M	0	
NU	No Stack Power Cable Selected	C9300-SPWR-NONE	2	
NU	TE agent for IOSXE on C9K	TE-C9K-SW	2	
NU	C9300 DNA Advantage, 48-Port Term Licenses	C9300-DNA-A-48	2	
NU	Cisco DNA Premier Add-On Session Opt Out (No Fulfillment)	C1-ADD-OPTOUT	2	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	2	
NU	Cisco DNA Spaces Extend Term License for Catalyst Switches	D-DNAS-EXT-S-T	2	
NU	Cisco ThousandEyes Enterprise Agent IBN Embedded	TE-EMBEDDED-T	2	
NU	Catalyst 9300 8 x 10GE Network Module	C9300-NM-8X	2	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NU	1000BASE-T SFP transceiver module for Category 5 copper wire	GLC-TE=	20	

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Cat	Item	Part number	Qty	Spare
NU	100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960	GLC-GE-100FX=	0	
NU	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD=	2	
NU	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD=	10	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	0	
NU	10GBASE-LR SFP Module	SFP-10G-LR=	4	
NU	SOLN SUPP 8X5XNBD Catalyst 9300 48-port PoE+, Network Adva	CON-SSSNT-C93004PA	2	
NU	SOLN SUPP SW SUBC9300 DNA Advantage	CON-SSTCM-C93A48	2	
NU	C9300 DNA Advantage, 48-Port, 3 Year Term License	C9300-DNA-A-48-3Y	2	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	2	
NU	Cisco DNA Spaces Extend for Catalyst Switching - 3Year	D-DNAS-EXT-S-3Y	2	
NU	ThousandEyes - Enterprise Agents	TE-EMBEDDED-T-3Y	2	
NU	<b>NU DSMS</b>			
NU	Catalyst 9300 24-port data only, Network Advantage	C9300-24T-A	3	
NU	C9300 Network Advantage, 24-port license	C9300-NW-A-24	3	
NU	Cisco Catalyst 9300 XE 17.5 UNIVERSAL UNIVERSAL	SC9300UK9-175	3	
NU	350W AC 80+ platinum Config 1 Power Supply	PWR-C1-350WAC-P	3	
NU	350W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-350WAC-P/2	3	
NU	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors	CAB-C15-CBN	6	
NU	No SSD Card Selected	C9300-SSD-NONE	3	
NU	No Stack Cable Selected	C9300-STACK-NONE	3	
NU	No Stack Power Cable Selected	C9300-SPWR-NONE	3	
NU	TE agent for IOSXE on C9K	TE-C9K-SW	3	
NU	C9300 DNA Advantage, 24-port Term Licenses	C9300-DNA-A-24	3	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	3	
NU	Cisco DNA Spaces Extend Term License for Catalyst Switches	D-DNAS-EXT-S-T	3	
NU	Cisco ThousandEyes Enterprise Agent IBN Embedded	TE-EMBEDDED-T	3	
NU	Catalyst 9300 4 x 1GE Network Module	C9300-NM-4G	3	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	3	
NU	SOLN SUPP 8X5XNBD Catalyst 9300 24-port data only, Network	CON-SSSNT-C93002TA	3	
NU	SOLN SUPP SW SUBC9300 DNA Advantage	CON-SSTCM-C93A24	3	
NU	C9300 DNA Advantage, 24-Port, 3 Year Term License	C9300-DNA-A-24-3Y	3	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	3	
NU	Cisco DNA Spaces Extend for Catalyst Switching - 3Year	D-DNAS-EXT-S-3Y	3	
NU	ThousandEyes - Enterprise Agents	TE-EMBEDDED-T-3Y	3	
NU	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD=	3	
NU	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD=	3	
NU	<b>NU WLC</b>			

## CO-115735-NAGSF - Statement of Work - Appendix A: Equipment specifications

Cat	Item	Part number	Qty	Spare
NU	Cisco Catalyst 9800-L Wireless Controller_Fiber Uplink	C9800-L-F-K9	2	
NU	Cisco Catalyst 9800 Series Wireless Controller DTLS License	LIC-C9800-DTLS-K9	2	
NU	C9800L UNIVERSAL (NETWORK ESSENTIALS)	SC9800LK9-1612	2	
NU	C9800 Wireless Controller Rack Mount Tray	C9800L-RMNT	2	
NU	Cisco Catalyst 9800 L Wireless Controller Power Supply	C9800-AC-110W	2	
NU	AC Power Cord, Type C5, Europe	CAB-AC-C5-EUR	2	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	2	
NU	10GBASE-SR SFP Module	SFP-10G-SR=	12	
NU	SOLN SUPP 24X7X4 Cisco Catalyst 9800-L Wireless Controlle	CON-SSSNP-C9800LFL	2	
NU	<b>NU WAP</b>			
NU	Cisco Catalyst 9136I Series, Internal Antennas,-E Regulator	C9136I-E	200	
NU	SOLN SUPP 8X5XNBD Cisco Catalyst 9136I Series, Internal A	CON-SSSNT-C9136IEX	200	
NU	SNTC-24X7X4 Cisco Catalyst 9136I Series	CON-SNTP-C9136I	200	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	200	
NU	Wireless Cisco DNA On-Prem Advantage,	CDNA-A-C9136	200	
NU	C9136I Cisco DNA On-Prem Advantage 3Y Term,Trk Lic	DNA-A-3Y-C9136	200	
NU	Ceiling Grid Clip for APs & Cellular Gateways-Recessed	AIR-AP-T-RAIL-R	200	
NU	802.11 AP Low Profile Mounting Bracket (Default)	AIR-AP-BRACKET-1	200	
NU	Wireless Cisco DNA On-Prem Advantage, Term Lic	AIR-DNA-A	200	
NU	Wireless Cisco DNA On-Prem Advantage, 3Y Term Lic	AIR-DNA-A-3Y	200	
NU	Prime AP Term Licenses	PI-LFAS-AP-T	200	
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	200	
NU	Wireless Cisco DNA On-Prem Advantage, Term, Tracker Lic	AIR-DNA-A-T	200	
NU	Wireless Cisco DNA On-Prem Advantage, 3Y Term, Tracker Lic	AIR-DNA-A-T-3Y	200	
NU	AIR CISCO DNA Perpetual Network Stack	AIR-DNA-NWSTACK-A	200	
NU	Cisco DNA Spaces Extend Option for Cisco DNA 1Yr Term	D-DNAS-EXT-T	200	
NU	Cisco DNA Spaces Extend Option for Cisco DNA 3Y	D-DNAS-EXT-3Y	200	
NU	<b>NU Hangar Ext</b>			
NU	Catalyst 9000 Compact Switch 8 port PoE+, 240W, Adv	C9200CX-8P-2X2G-A	4	
NU	SOLN SUPP 24X7X4 Catalyst 9000 Compact Switch 8 port PoE+	CON-SSSNP-C920CXYZ	4	
NU	C9200CX Network Advantage, 8-port license	C9200CX-NW-A-8	4	
NU	Europe AC Type A Power Cable	CAB-TA-EU	4	
NU	UNIVERSAL	SCAT9200CXUK9-178	4	
NU	C9200CX Cisco DNA Advantage, 8-Port Term Licenses	C9200CX-DNA-A-8	4	
NU	C9200CX Cisco DNA Advantage, 3Y Term License, 8P	C9200CX-DNAA8-3Y	4	
NU	SOLN SUPP SW SUB C9200CX Cisco DNA Advantage, 8-Port Term	CON-SSTCM-C9201CCD	4	
NU	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	PI-LFAS-T	4	

Cat	Item	Part number	Qty	Spare
NU	PI Dev Lic for Lifecycle & Assurance Term 3Y	PI-LFAS-AP-T-3Y	4	
NU	Network Plug-n-Play Connect for zero-touch device deployment	NETWORK-PNP-LIC	4	
NU	19 in Rackmount for 9200CX switches	RACKMNT-19-CMPACT	4	
VTC	<b>Video teleconferencing room - All TEMPEST C</b>			
VTC	<b>Core - AV Control</b>			
VTC	Extron - IPCP Pro 255Q xi w/LinkLicense - TEMPEST C	IPCP Pro 255Q xi	1	
VTC	Extron - Four IEC Outlets	IPL EXP PDU4H	1	
VTC	Extron - Entry Level Version for 16 Endpoints	NAVigator	1	
VTC	<del>Extron - NAVigator 96 Endpoints Upgrade</del>	<del>LinkLicense</del>	<del>1</del>	
VTC	Extron - NAVigator 48 Endpoints Upgrade	LinkLicense	1	
VTC	<b>Core - AV Network</b>			
VTC	Cisco - Catalyst 9300 48-port PoE+, Network Essentials - TEMPEST C	C9300-48P-E	1	
VTC	Cisco - Upgrade option 1100W AC 80+ platinum Config 1 Power Supply	PWR-C1-1100WAC-UP	1	
VTC	Cisco - 1100W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-1100WAC-P/2	1	
VTC	Cisco - C9300 DNA Essentials, 48-port - 3 Year Term License	C9300-DNA-E-48-3Y	1	
VTC	<b>Core - Audio</b>			
VTC	Extron - Dante Digital Matrix Processor w/ 12 AEC - TEMPEST C	DMP 128 FlexPlus C AT	1	
VTC	Extron - Four Channel Dante Amp, 100 watts at 70 volts	NetPA U 1004-70V	1	
VTC	<b>Core - Camera Routing</b>			
VTC	Blackmagic - Smart Videohub CleanSwitch 12x12 - TEMPEST C	VHUBSMTCS6G1212	1	
VTC	Blackmagic - Teranex Mini SDI to HDMI 8K HDR	CONVN8TRM/AA/SDIH	1	
VTC	<b>Core - AV Bridge</b>			
VTC	Extron - 4K HDMI and Audio to USB Scaling Bridge - TEMPEST C	MediaPort 300	1	
VTC	Extron - Four Input USB 10G Switcher	SW4 USB Pro	1	
VTC	<b>Core - AVoIP</b>			
VTC	Extron - 1G HDMI Scaling Decoder - TEMPEST C	NAV SD 101	2	
VTC	Extron - 1G HDMI Encoder	NAV E 101	2	
VTC	<b>Core - VTC Codec</b>			
VTC	Poly - Poly G7500 4k Base Unit TAA No-Radio - TEMPEST C	G7200-87340-125	1	
VTC	<b>Core - Rack</b>			
VTC	Trip Lite - Tripp Lite 18U Soundproof Rack Enclosure - TEMPEST C	SRQ18U	1	
VTC	<b>Room - Control</b>			
VTC	Extron - 12" Ultra-wide Tabletop TouchLink Pro Touchpanel (White) - TEMPEST C	TLP Pro 1230WTG	1	
VTC	<b>Room - Displays</b>			
VTC	NEC - MultiSync MA551 - TEMPEST C	MA551	16	1
VTC	Extron - 1G Pro AV over IP Scaling Decoder - HDMI	NAV SD 101	16	1
VTC	Urben - Floor Mount	TBD	12	1

Cat	Item	Part number	Qty	Spare
VTC	Various - Ceiling Mount for 55" Display	NA	4	1
VTC	<b>Room - Connection Points (Lectern/Table/ContentPC)</b>			
VTC	Extron - 1G Pro AV over IP Scaling Encoder - HDMI - TEMPEST C	NAV E 101	3	
VTC	Blackbox - KVS4-HX - Secure KVM Peripheral Defender - HDMI, CAC	KVS4-8001HX	2	
VTC	StarTech - Hybrid Universal Laptop Docking Station with 100W Power Delivery	DK30C2DPEP	2	
VTC	Extron - SuperSpeed USB Extender Kit	UCS FTR 900 Kit	1	
VTC	<b>Room - Audio</b>			
VTC	Extron - 6.5" 2-Way Ceiling Spkrs, 70/100V, Complete Pair - TEMPEST C	SF 26CT	8	
VTC	<b>Room - PTZ Cameras</b>			
VTC	Panasonic - Panasonic 4K30 SDI/HDMI PTZ Camera with 24x Optical Zoom (White) - TEMPEST C	AW-UE50WEJ	5	
VTC	<b>Room - Microphone</b>			
VTC	Sennheiser - TeamConnect Ceiling 2 (white) - TEMPEST C	507488	1	
VTC	<b>Cabling and Small Material</b>			
VTC	Various - Network, Audio, Video cabling, accessoires and small material - TEMPEST C		1	
DC	<b>Data centre</b>			
DC	<b>HCI Node</b>			
DC	HPE ProLiant DL325 Gen10 Plus v2 8SFF Configure-to-order Server	P38471-B21	5	
DC	HPE ProLiant DL325 Gen10 Plus v2 8SFF Configure-to-order Server	P38471-B21 B19	5	
DC	HPE ProLiant DL325 Gen10 Plus v2 vSAN WW FIO Tracking	P52170-B21	5	
DC	Processors			
DC	AMD EPYC 7543P 2.8GHz 32-core 225W Processor for HPE	P38717-B21	5	
DC	Factory Integrated	P38717-B21 OD1	5	
DC	HPE ProLiant DL325 Gen10 Plus v2 High Performance Heat Sink Kit	P41197-B21	5	
DC	Memory			
DC	HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07646-B21	40	
DC	Factory Integrated	P07646-B21 OD1	40	
DC	PCI Risers			
DC	HPE DL325 Gen10 Standard x8/x16 FIO Primary Riser	-	5	
DC	HPE DL325 Gen10 Plus x16 Low Profile PCIe Riser Kit	P17264-B21	5	
DC	Factory Integrated	P17264-B21 OD1	5	
DC	Boot Disk			
DC	HPE ProLiant DL325 Gen10 Plus v2 2SFF U.3 Enablement Kit	P38386-B21	5	
DC	Factory Integrated	P38386-B21 OD1	5	
DC	HPE ProLiant DL325 Gen10 Plus v2 2SFF NVMe Tri-Mode Cable Kit	P39168-B21	5	
DC	Factory Integrated	P39168-B21 OD1	5	
DC	Broadcom MegaRAID MR216i-a x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26325-B21	5	
DC	Factory Integrated	P26325-B21 OD1	5	

Cat	Item	Part number	Qty	Spare
DC	HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21	10	
DC	Factory Integrated	P40496-B21 OD1	10	
DC	vSAN NVMe Readiness			
DC	HPE ProLiant DL325 Gen10 Plus v2 8SFF U.3 BC Backplane Kit	P38476-B21	5	
DC	HPE ProLiant DL325 Gen10 Plus v2 8SFF NVMe Direct Attach Cable Kit	P39174-B21	5	
DC	Network Adapters			
DC	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21	5	
DC	Factory Integrated	P10115-B21 OD1	5	
DC	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	10	
DC	Factory Integrated	P26262-B21 OD1	10	
DC	Security option			
DC	HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21	5	
DC	Factory Integrated	P13771-B21 OD1	5	
DC	HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21	5	
DC	Factory Integrated	P14604-B21 OD1	5	
DC	Power and Cooling			
DC	HPE ProLiant DL325 Gen10 Plus v2 Max Performance Fan Kit	P38506-B21	5	
DC	Factory Integrated	P38506-B21 OD1	5	
DC	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21	10	
DC	Factory Integrated	P38995-B21 OD1	10	
DC	Racking			
DC	HPE ProLiant DL300 Gen10 Plus 1U SFF Easy Install Rail Kit	P26485-B21	5	
DC	Factory Integrated	P26485-B21 OD1	5	
DC	HPE ProLiant DL300 Gen10 Plus 1U Cable Management Arm for Rail Kit	P26489-B21	5	
DC	Factory Integrated	P26489-B21 OD1	5	
DC	Licenses			
DC	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A	5	
DC	Factory Integrated	BD505A OD1	5	
DC	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A	5	
DC	Support			
DC	HPE 3Y Complete Care Addon Essential with Comprehensive Defective Material Retention Service	HU4D7A3	5	
DC	HPE ProLiant DL325 Gen10 Plus V2 Support	HU4D7A3 ZSC	5	
DC	HPE iLO Advanced Non Blade Support	HU4D7A3 R2M	5	
DC	HPE One View w/o Ilo Support	HU4D7A3 SVP	5	
DC	SFP			
DC	MODULE, TRANSCEIVER, SFP, RJ45, 1000BASE-T, CAT5, CISCO GLC-TE		6	
DC	Cabling			



Cat	Item	Part number	Qty	Spare
DC	SFP-H25G-CU2M= 25GBASE-CU SFP28 Cable 2 Meter		70	
DC	SFP-H25G-CU3M= 25GBASE-CU SFP28 Cable 3 Meter		70	
DC	<b>HCI Node drives</b>			
DC	Cache disk			
DC	1x 800GB NVME Gen 4 High Performance Disk   HPE Basic Carrier	P40569-B21	10	1
DC	Capacity disk			
DC	1x 6.4 TB NVME Gen 4 Mainstream Disk   HPE Basic Carrier	P47840-B21	60	5
DC	<b>Management server</b>			
DC	HPE ProLiant DL360 Gen10 Plus 8SFF NC Configure-to-order Server	P28948-B21	1	1
DC	DL360 Gen10 Plus 8SFF CTO Server	P28948-B21 B19	1	1
DC	Processors			
DC	Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor for HPE	P36920-B21	1	1
DC	Factory Integrated	P36920-B21 OD1	1	1
DC	HPE ProLiant DL360 Gen10 Plus Standard Heat Sink Kit	P37863-B21	1	1
DC	Factory Integrated	P37863-B21 OD1	1	1
DC	Memory			
DC	HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-B21	2	2
DC	Factory Integrated	P06031-B21 OD1	2	2
DC	HPE DDR4 DIMM Blank Kit	P07818-B21	1	1
DC	Factory Integrated	P07818-B21 OD1	1	1
DC	PCI Risers			
DC	HPE DL360 Gen10 Plus Standard FIO x8/x16 FIO Primary Riser	-	1	1
DC	Boot Disk			
DC	HPE ProLiant DL360 Gen10 Plus 8SFF x1 Tri-Mode 24G U.3 BC Backplane Kit	P26431-B21	1	1
DC	Factory Integrated	P26431-B21 OD1	1	1
DC	Broadcom MegaRAID MR416i-a x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26279-B21	1	1
DC	Factory Integrated	P26279-B21 OD1	1	1
DC	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21	1	1
DC	Factory Integrated	P01366-B21 OD1	1	1
DC	HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21	2	2
DC	Factory Integrated	P40497-B21 OD1	2	2
DC	HPE RAID 1 Drive 1 FIO Setting	339778-B21	1	1
DC	Network Adapters			
DC	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21	1	1
DC	Factory Integrated	P08449-B21 OD1	1	1
DC	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	1	1
DC	Factory Integrated	P26262-B21 OD1	1	1

Cat	Item	Part number	Qty	Spare
DC	Security option			
DC	HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21	1	1
DC	Factory Integrated	P13771-B21 OD1	1	1
DC	HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21	1	1
DC	Factory Integrated	P14604-B21 OD1	1	1
DC	Power and Cooling			
DC	HPE ProLiant DL36X Gen10 Plus High Performance Fan Kit	P26477-B21	1	1
DC	Factory Integrated	P26477-B21 OD1	1	1
DC	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21	2	2
DC	Factory Integrated	865408-B21 OD1	2	2
DC	Racking			
DC	HPE ProLiant DL300 Gen10 Plus 1U SFF Easy Install Rail Kit	P26485-B21	1	1
DC	Factory Integrated	P26485-B21 OD1	1	1
DC	HPE ProLiant DL300 Gen10 Plus 1U Cable Management Arm for Rail Kit	P26489-B21	1	1
DC	Factory Integrated	P26489-B21 OD1	1	1
DC	Licenses			
DC	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A	1	1
DC	Factory Integrated	BD505A OD1	1	1
DC	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A	1	1
DC	Support			
DC	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3	1	1
DC	HPE ProLiant DL360 Gen10+ Support	HU4D4A3 ZSA	1	1
DC	HPE iLO Advanced Non Blade Support	HU4D4A3 R2M	1	1
DC	HPE One View w/o Ilo Support	HU4D4A3 SVP	1	1
DC	<b>Backup server</b>			
DC	HPE ProLiant DL380 Gen10 12LFF NC Configure-to-order Server	P19718-B21	1	
DC	HPE DL380 G10 CTO Mod-X 12LFF WO NIC	P19718-B21 B19	1	
DC	Processors			
DC	Intel Xeon-Silver 4214R (2.4GHz/12-core/100W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P23550-L21	1	
DC	Memory			
DC	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21	4	
DC	Factory Integrated	P00924-B21 OD1	4	
DC	PCI Risers			
DC	HPE DL380 Gen10 Standard x8/x16/x8 FIO Primary Riser	-	1	
DC	Boot Disk			
DC	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	826687-B21	1	
DC	Factory Integrated	826687-B21 OD1	1	

Cat	Item	Part number	Qty	Spare
DC	HPE 300GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	870753-B21		2
DC	Factory Integrated	870753-B21 OD1		2
DC	Data Disks			
DC	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller	804338-B21		1
DC	Factory Integrated	804338-B21 OD1		1
DC	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21		1
DC	Factory Integrated	P01366-B21 OD1		1
DC	HPE 12TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	881779-B21		12
DC	Factory Integrated	881779-B21 OD1		12
DC	Network Adapters			
DC	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	817709-B21		1
DC	Factory Integrated	817709-B21 OD1		1
DC	HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter	817718-B21		2
DC	Factory Integrated	817718-B21 OD1		2
DC	Security option			
DC	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21		1
DC	Factory Integrated	864279-B21 OD1		1
DC	HPE Gen10 Chassis Intrusion Detection Kit	867824-B21		1
DC	Factory Integrated	867824-B21 OD1		1
DC	Power and Cooling			
DC	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21		2
DC	Factory Integrated	865414-B21 OD1		2
DC	Racking			
DC	HPE 2U Cable Management Arm for Easy Install Rail Kit	733664-B21		1
DC	Factory Integrated	733664-B21 OD1		1
DC	HPE 2U Large Form Factor Easy Install Rail Kit	733662-B21		1
DC	Factory Integrated	733662-B21 OD1		1
DC	Licenses			
DC	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A		1
DC	Factory Integrated	BD505A OD1		1
DC	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A		1
DC	Support			
DC	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3		1
DC	HPE DL38x Gen10 Support	HU4D4A3 WAH		1
DC	HPE iLO Advanced Non Blade Support	HU4D4A3 R2M		1
DC	HPE One View w/o Ilo Support	HU4D4A3 SVP		1
DC	<b>Apollo SAN</b>			

Cat	Item	Part number	Qty	Spare
DC	HPE Apollo 4510 Gen10 Configure-to-Order Chassis	864668-B21	1	
DC	HPE Apollo 4510 Gen10 Chassis	864668-B21 B19	1	
DC	Compute Node			
DC	HPE XL450 Gen10 1x Node Svr	864625-B21 B19	1	
DC	HPE ProLiant XL450 Gen10 Configure-to-order Server Node for Apollo 4510 Gen10 Chassis	864625-B21	1	
DC	Factory Integrated	864625-B21 OD1	1	
DC	Processors			
DC	Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit for HPE ProLiant XL450 Gen10.	P10772-L21	1	
DC	Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit for HPE ProLiant XL450 Gen10	P10772-B21	1	
DC	Factory Integrated	P10772-B21 OD1	1	
DC	Memory			
DC	HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-K21	12	
DC	Factory Integrated	P00920-K21 OD1	12	
DC	PCIe Risers			
DC	HPE Apollo 4500 Gen10 CPU0 x2/CPU1 x2 FIO I/O Module	882020-B21	1	
DC	Boot Disks			
DC	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	804331-B21	1	
DC	Factory Integrated	804331-B21 OD1	1	
DC	HPE Apollo 4500 Gen10 Smart Array E208i-a/P408i-a SAS Cable Kit	874779-B21	1	
DC	Factory Integrated	874779-B21 OD1	1	
DC	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21	1	
DC	Factory Integrated	P01366-B21 OD1	1	
DC	HPE 480GB SATA 6G Mixed Use SFF SC Multi Vendor SSD	P18432-K21	2	
DC	Factory Integrated	P18432-K21 OD1	2	
DC	Data Disks			
DC	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21	1	
DC	Factory Integrated	830824-B21 OD1	1	
DC	HPE Apollo 4500 Gen10 Smart Array E208i-p/P408i-p SAS Cable Kit	874777-B21	1	
DC	Factory Integrated	874777-B21 OD1	1	
DC	HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37669-K21	60	
DC	Factory Integrated	P37669-K21 OD1	60	
DC	Network Adapters			
DC	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	817709-B21	1	
DC	Factory Integrated	817709-B21 OD1	1	
DC	HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter	817718-B21	2	
DC	Factory Integrated	817718-B21 OD1	2	
DC	Security option			

Cat	Item	Part number	Qty	Spare
DC	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21	1	
DC	Factory Integrated	864279-B21 OD1	1	
DC	Power and Cooling			
DC	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21	4	
DC	Factory Integrated	830272-B21 OD1	4	
DC	Racking			
DC	HPE 4U Server Rail Kit	878571-B21	1	
DC	Factory Integrated	878571-B21 OD1	1	
DC	HPE s6500 Chassis Handles Kit	608477-B21	1	
DC	Factory Integrated	608477-B21 OD1	1	
DC	Licenses			
DC	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A	1	
DC	Support			
DC	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3	1	
DC	HPE Apollo 4510 Gen10 Support	HU4D4A3 ZBH	1	
DC	HPE One View w/Ilo Support	HU4D4A3 SVN	1	
GIS	<b>Option: Additional NS IT backend capacity</b>			
GIS	<b>HCI Node</b>			
GIS	HPE ProLiant DL325 Gen10 Plus v2 8SFF Configure-to-order Server	P38471-B21	5	
GIS	HPE ProLiant DL325 Gen10 Plus v2 8SFF Configure-to-order Server	P38471-B21 B19	5	
GIS	HPE ProLiant DL325 Gen10 Plus v2 vSAN WW FIO Tracking	P52170-B21	5	
GIS	Processors			
GIS	AMD EPYC 7543P 2.8GHz 32-core 225W Processor for HPE	P38717-B21	5	
GIS	Factory Integrated	P38717-B21 OD1	5	
GIS	HPE ProLiant DL325 Gen10 Plus v2 High Performance Heat Sink Kit	P41197-B21	5	
GIS	Memory			
GIS	HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07646-B21	40	
GIS	Factory Integrated	P07646-B21 OD1	40	
GIS	PCI Risers			
GIS	HPE DL325 Gen10 Standard x8/x16 FIO Primary Riser	-	5	
GIS	HPE DL325 Gen10 Plus x16 Low Profile PCIe Riser Kit	P17264-B21	5	
GIS	Factory Integrated	P17264-B21 OD1	5	
GIS	Boot Disk			
GIS	HPE ProLiant DL325 Gen10 Plus v2 2SFF U.3 Enablement Kit	P38386-B21	5	
GIS	Factory Integrated	P38386-B21 OD1	5	
GIS	HPE ProLiant DL325 Gen10 Plus v2 2SFF NVMe Tri-Mode Cable Kit	P39168-B21	5	
GIS	Factory Integrated	P39168-B21 OD1	5	

Cat	Item	Part number	Qty	Spare
GIS	Broadcom MegaRAID MR216i-a x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26325-B21	5	
GIS	Factory Integrated	P26325-B21 OD1	5	
GIS	HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21	10	
GIS	Factory Integrated	P40496-B21 OD1	10	
GIS	vSAN NVMe Readiness			
GIS	HPE ProLiant DL325 Gen10 Plus v2 8SFF U.3 BC Backplane Kit	P38476-B21	5	
GIS	HPE ProLiant DL325 Gen10 Plus v2 8SFF NVMe Direct Attach Cable Kit	P39174-B21	5	
GIS	Network Adapters			
GIS	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21	5	
GIS	Factory Integrated	P10115-B21 OD1	5	
GIS	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21	10	
GIS	Factory Integrated	P26262-B21 OD1	10	
GIS	Security option			
GIS	HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21	5	
GIS	Factory Integrated	P13771-B21 OD1	5	
GIS	HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21	5	
GIS	Factory Integrated	P14604-B21 OD1	5	
GIS	Power and Cooling			
GIS	HPE ProLiant DL325 Gen10 Plus v2 Max Performance Fan Kit	P38506-B21	5	
GIS	Factory Integrated	P38506-B21 OD1	5	
GIS	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21	10	
GIS	Factory Integrated	P38995-B21 OD1	10	
GIS	Racking			
GIS	HPE ProLiant DL300 Gen10 Plus 1U SFF Easy Install Rail Kit	P26485-B21	5	
GIS	Factory Integrated	P26485-B21 OD1	5	
GIS	HPE ProLiant DL300 Gen10 Plus 1U Cable Management Arm for Rail Kit	P26489-B21	5	
GIS	Factory Integrated	P26489-B21 OD1	5	
GIS	Licenses			
GIS	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A	5	
GIS	Factory Integrated	BD505A OD1	5	
GIS	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A	5	
GIS	Support			
GIS	HPE 3Y Complete Care Addon Essential with Comprehensive Defective Material Retention Service	HU4D7A3	5	
GIS	HPE ProLiant DL325 Gen10 Plus V2 Support	HU4D7A3 ZSC	5	
GIS	HPE iLO Advanced Non Blade Support	HU4D7A3 R2M	5	
GIS	HPE One View w/o iLO Support	HU4D7A3 SVP	5	
GIS	SFP			

Cat	Item	Part number	Qty	Spare
GIS	MODULE, TRANSCEIVER, SFP, RJ45, 1000BASE-T, CAT5, CISCO GLC-TE		6	
GIS	Cabling			
GIS	SFP-H25G-CU2M= 25GBASE-CU SFP28 Cable 2 Meter		70	
GIS	SFP-H25G-CU3M= 25GBASE-CU SFP28 Cable 3 Meter		70	
GIS	<b>HCI Node drives</b>			
GIS	Cache disk			
GIS	1x 800GB NVME Gen 4 High Performance Disk   HPE Basic Carrier	P40569-B21	10	
GIS	Capacity disk			
GIS	1x 6.4 TB NVME Gen 4 Mainstream Disk   HPE Basic Carrier	P47840-B21	60	
GIS	<b>Management server</b>			
GIS	HPE ProLiant DL360 Gen10 Plus 8SFF NC Configure-to-order Server	P28948-B21	1	
GIS	DL360 Gen10 Plus 8SFF CTO Server	P28948-B21 B19	1	
GIS	Processors			
GIS	Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor for HPE	P36920-B21	1	
GIS	Factory Integrated	P36920-B21 OD1	1	
GIS	HPE ProLiant DL360 Gen10 Plus Standard Heat Sink Kit	P37863-B21	1	
GIS	Factory Integrated	P37863-B21 OD1	1	
GIS	Memory			
GIS	HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-B21	2	
GIS	Factory Integrated	P06031-B21 OD1	2	
GIS	HPE DDR4 DIMM Blank Kit	P07818-B21	1	
GIS	Factory Integrated	P07818-B21 OD1	1	
GIS	PCI Risers			
GIS	HPE DL360 Gen10 Plus Standard FIO x8/x16 FIO Primary Riser	-	1	
GIS	Boot Disk			
GIS	HPE ProLiant DL360 Gen10 Plus 8SFF x1 Tri-Mode 24G U.3 BC Backplane Kit	P26431-B21	1	
GIS	Factory Integrated	P26431-B21 OD1	1	
GIS	Broadcom MegaRAID MR416i-a x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus	P26279-B21	1	
GIS	Factory Integrated	P26279-B21 OD1	1	
GIS	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21	1	
GIS	Factory Integrated	P01366-B21 OD1	1	
GIS	HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21	2	
GIS	Factory Integrated	P40497-B21 OD1	2	
GIS	HPE RAID 1 Drive 1 FIO Setting	339778-B21	1	
GIS	Network Adapters			
GIS	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21	1	
GIS	Factory Integrated	P08449-B21 OD1	1	

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Cat	Item	Part number	Qty	Spare
GIS	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21		1
GIS	Factory Integrated	P26262-B21 OD1		1
GIS	Security option			
GIS	HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21		1
GIS	Factory Integrated	P13771-B21 OD1		1
GIS	HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21		1
GIS	Factory Integrated	P14604-B21 OD1		1
GIS	Power and Cooling			
GIS	HPE ProLiant DL36X Gen10 Plus High Performance Fan Kit	P26477-B21		1
GIS	Factory Integrated	P26477-B21 OD1		1
GIS	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21		2
GIS	Factory Integrated	865408-B21 OD1		2
GIS	Racking			
GIS	HPE ProLiant DL300 Gen10 Plus 1U SFF Easy Install Rail Kit	P26485-B21		1
GIS	Factory Integrated	P26485-B21 OD1		1
GIS	HPE ProLiant DL300 Gen10 Plus 1U Cable Management Arm for Rail Kit	P26489-B21		1
GIS	Factory Integrated	P26489-B21 OD1		1
GIS	Licenses			
GIS	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A		1
GIS	Factory Integrated	BD505A OD1		1
GIS	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A		1
GIS	Support			
GIS	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3		1
GIS	HPE Proliant DL360 Gen10+ Support	HU4D4A3 ZSA		1
GIS	HPE iLO Advanced Non Blade Support	HU4D4A3 R2M		1
GIS	HPE One View w/o Ilo Support	HU4D4A3 SVP		1
GIS	<b>Backup server</b>			
GIS	HPE ProLiant DL380 Gen10 12LFF NC Configure-to-order Server	P19718-B21		1
GIS	HPE DL380 G10 CTO Mod-X 12LFF WO NIC	P19718-B21 B19		1
GIS	Processors			
GIS	Intel Xeon-Silver 4214R (2.4GHz/12-core/100W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P23550-L21		1
GIS	Memory			
GIS	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21		4
GIS	Factory Integrated	P00924-B21 OD1		4
GIS	PCI Risers			
GIS	HPE DL380 Gen10 Standard x8/x16/x8 FIO Primary Riser	-		1
GIS	Boot Disk			



Cat	Item	Part number	Qty	Spare
GIS	HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit	826687-B21	1	
GIS	Factory Integrated	826687-B21 OD1	1	
GIS	HPE 300GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	870753-B21	2	
GIS	Factory Integrated	870753-B21 OD1	2	
GIS	Data Disks			
GIS	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller	804338-B21	1	
GIS	Factory Integrated	804338-B21 OD1	1	
GIS	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21	1	
GIS	Factory Integrated	P01366-B21 OD1	1	
GIS	HPE 12TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD	881779-B21	12	
GIS	Factory Integrated	881779-B21 OD1	12	
GIS	Network Adapters			
GIS	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	817709-B21	1	
GIS	Factory Integrated	817709-B21 OD1	1	
GIS	HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter	817718-B21	2	
GIS	Factory Integrated	817718-B21 OD1	2	
GIS	Security option			
GIS	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21	1	
GIS	Factory Integrated	864279-B21 OD1	1	
GIS	HPE Gen10 Chassis Intrusion Detection Kit	867824-B21	1	
GIS	Factory Integrated	867824-B21 OD1	1	
GIS	Power and Cooling			
GIS	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21	2	
GIS	Factory Integrated	865414-B21 OD1	2	
GIS	Racking			
GIS	HPE 2U Cable Management Arm for Easy Install Rail Kit	733664-B21	1	
GIS	Factory Integrated	733664-B21 OD1	1	
GIS	HPE 2U Large Form Factor Easy Install Rail Kit	733662-B21	1	
GIS	Factory Integrated	733662-B21 OD1	1	
GIS	Licenses			
GIS	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A	1	
GIS	Factory Integrated	BD505A OD1	1	
GIS	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A	1	
GIS	Support			
GIS	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3	1	
GIS	HPE DL38x Gen10 Support	HU4D4A3 WAH	1	
GIS	HPE iLO Advanced Non Blade Support	HU4D4A3 R2M	1	

Cat	Item	Part number	Qty	Spare
GIS	HPE One View w/o Ilo Support	HU4D4A3 SVP	1	
GIS	<b>Apollo SAN</b>			
GIS	HPE Apollo 4510 Gen10 Configure-to-Order Chassis	864668-B21	1	
GIS	HPE Apollo 4510 Gen10 Chassis	864668-B21 B19	1	
GIS	Compute Node			
GIS	HPE XL450 Gen10 1x Node Svr	864625-B21 B19	1	
GIS	HPE ProLiant XL450 Gen10 Configure-to-order Server Node for Apollo 4510 Gen10 Chassis	864625-B21	1	
GIS	Factory Integrated	864625-B21 OD1	1	
GIS	Processors			
GIS	Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit for HPE ProLiant XL450 Gen10.	P10772-L21	1	
GIS	Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit for HPE ProLiant XL450 Gen10	P10772-B21	1	
GIS	Factory Integrated	P10772-B21 OD1	1	
GIS	Memory			
GIS	HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-K21	12	
GIS	Factory Integrated	P00920-K21 OD1	12	
GIS	PCIe Risers			
GIS	HPE Apollo 4500 Gen10 CPU0 x2/CPU1 x2 FIO I/O Module	882020-B21	1	
GIS	Boot Disks			
GIS	HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	804331-B21	1	
GIS	Factory Integrated	804331-B21 OD1	1	
GIS	HPE Apollo 4500 Gen10 Smart Array E208i-a/P408i-a SAS Cable Kit	874779-B21	1	
GIS	Factory Integrated	874779-B21 OD1	1	
GIS	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21	1	
GIS	Factory Integrated	P01366-B21 OD1	1	
GIS	HPE 480GB SATA 6G Mixed Use SFF SC Multi Vendor SSD	P18432-K21	2	
GIS	Factory Integrated	P18432-K21 OD1	2	
GIS	Data Disks			
GIS	HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21	1	
GIS	Factory Integrated	830824-B21 OD1	1	
GIS	HPE Apollo 4500 Gen10 Smart Array E208i-p/P408i-p SAS Cable Kit	874777-B21	1	
GIS	Factory Integrated	874777-B21 OD1	1	
GIS	HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37669-K21	60	
GIS	Factory Integrated	P37669-K21 OD1	60	
GIS	Network Adapters			
GIS	HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM57414 Adapter	817709-B21	1	
GIS	Factory Integrated	817709-B21 OD1	1	
GIS	HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter	817718-B21	2	

Cat	Item	Part number	Qty	Spare
GIS	Factory Integrated	817718-B21 OD1	2	
GIS	Security option			
GIS	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21	1	
GIS	Factory Integrated	864279-B21 OD1	1	
GIS	Power and Cooling			
GIS	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21	4	
GIS	Factory Integrated	830272-B21 OD1	4	
GIS	Racking			
GIS	HPE 4U Server Rail Kit	878571-B21	1	
GIS	Factory Integrated	878571-B21 OD1	1	
GIS	HPE s6500 Chassis Handles Kit	608477-B21	1	
GIS	Factory Integrated	608477-B21 OD1	1	
GIS	Licenses			
GIS	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A	1	
GIS	Support			
GIS	HPE 3Y Complete Care Addon Critical with Comprehensive Defective Material Retention Service	HU4D4A3	1	
GIS	HPE Apollo 4510 Gen10 Support	HU4D4A3 ZBH	1	
GIS	HPE One View w/Ilo Support	HU4D4A3 SVN	1	
<b>CAB</b>	<b>Option: Additional NS IT backend capacity</b>			
<b>CAB</b>	<b>Cabling</b>			
CAB	500m multimode 96 cores fiber optics		1	