

**LOT 1: NETWORK CORE EQUIPMENTS (Switches, Firewall)**

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
1. Cisco Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage   Switch - QTY 04					
Cisco	C9500-24Y4C-A	Catalyst 9500 24x1/10/25G and 4-port 40/100G, Advantage	04	Nos	
Cisco	CON-SSSNT-C95024YA	SOLN SUPP 8X5XNBD Catalyst 9500 24-port 25/100G only, Adva	04	Nos	
Cisco	C9500-NW-A	C9500 Network Stack, Advantage	04	Nos	
Cisco	SC9500HUK9-173	Cisco Catalyst 9500H XE.17.3 UNIVERSAL	04	Nos	
Cisco	C9K-PWR-650WAC-R	650W AC Config 4 Power Supply front to back cooling	04	Nos	
Cisco	C9K-PWR-650WAC-R/2	650W AC Config 4 Power Supply front to back cooling	04	Nos	

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
Cisco	CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	08	Nos	
Cisco	C9K-F1-SSD-BLANK	Cisco pluggable SSD storage	04	Nos	
Cisco	C9K-T1-FANTRAY	Catalyst 9500 Type 4 front to back cooling Fan	08	Nos	
Cisco	C9500-DNA-24Y4C-A	C9500 DNA Advantage, Term License	04	Nos	
Cisco	CON-SSTCM-C9512QA	SOLN SUPP SW SUBC9500 DNA Advantage	04	Nos	
Cisco	C9500-DNA-L-A-3Y	Cisco Catalyst 9500 DNA Advantage 3 Year License	04	Nos	
Cisco	PI-LFAS-T	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	12	Nos	
Cisco	PI-LFAS-AP-T-3Y	PI Dev Lic for Lifecycle & Assurance Term 3Y	12	Nos	
Cisco	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	04	Nos	
<b>2. Cisco Catalyst 9300 24-port mGig and UPOE, Network Advantage   Switch - QTY 05</b>					
Cisco	C9300-24UX-A	Catalyst 9300 24-port mGig and UPOE, Network Advantage	05	Nos	
Cisco	CON-SSSNT-C93024XU	SOLN SUPP 8X5XNBD Catalyst 9300 24-port mGig and UPOE, Net	05	Nos	
Cisco	C9300-NW-A-24	C9300 Network Advantage, 24-port license	05	Nos	
Cisco	S9300UK9-1612	Cisco Catalyst 9300 XE 16.12 UNIVERSAL	05	Nos	
Cisco	PWR-C1-1100WAC-P	1100W AC 80+ platinum Config 1 Power Supply	05	Nos	
Cisco	PWR-C1-1100WAC-P/2	1100W AC 80+ platinum Config 1 Secondary Power Supply	05	Nos	
Cisco	CAB-TA-UK	United Kingdom AC Type A Power Cable	10	Nos	
Cisco	STACK-T1-50CM	50CM Type 1 Stacking Cable	05	Nos	
Cisco	CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	05	Nos	
Cisco	C9300-DNA-A-24	C9300 DNA Advantage, 24-port Term Licenses	05	Nos	
Cisco	CON-SSTCM-C93A24	SOLN SUPP SW SUBC9300 DNA Advantage	05	Nos	
Cisco	C9300-DNA-A-24-3Y	C9300 DNA Advantage, 24-Port, 3 Year Term License	05	Nos	
Cisco	PI-LFAS-T	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	05	Nos	
Cisco	PI-LFAS-AP-T-3Y	PI Dev Lic for Lifecycle & Assurance Term 3Y	05	Nos	
Cisco	C9300-NM-8X	Catalyst 9300 8 x 10GE Network Module	05	Nos	
	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	05	Nos	
	C9300-SSD-NONE	No SSD Card Selected	05	Nos	
<b>3. Check Point 6200 NextGen Firewall – QTY 01</b>					
Checkpoint	CPAP-SG6200-SNBT	Check Point 6200 Base Appliance with SandBlast subscription package for 1 year	01	Nos	
Checkpoint	CPAC-RAM8GB-6200-INSTALL	Memory Upgrade Kit from 8GB to 16GB for 6200 series appliances	01	Nos	
Checkpoint	CPCES-CO-STANDARD	Co-Standard Support - 1 Year	01	Nos	

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
4. 10G-SFP Bidirectional Module – 40km – QTY 10					
FS	FS P/N: SFP-10G-BX40D	Cisco SFP-10G-BX40D Compatible 10GBASE-BX40-D BiDi SFP+ 1330nm- TX/1270nm-RX 40km DOM LC SMF Transceiver Module	10	Nos	
5. 10G-SFP Bidirectional Module – 40km					
FS	FS P/N: SFP-10G-BX40U	Cisco SFP-10G-BX40U Compatible 10GBASE-BX40-U BiDi SFP+ 1270nm- TX/1330nm-RX 40km DOM LC SMF Transceiver Module	10	Nos	
6. 10GBASE-LR SFP Module					
FS	FS P/N: SFP-10G-LR-S	Cisco SFP-10G-LR-S Compatible, 10GBASE-LR SFP+ 1310nm 10km DOM LC SMF Transceiver Module	20	Nos	
7. 10GBASE-T SFP+ Transceiver Module					
FS	FS P/N: SFP-10G-T	Cisco SFP-10G-T-S Compatible, SFP+ Copper RJ-45 30m Transceiver Module	30	Nos	

**LOT 2: SERVER & STORAGE**

BRAND	PART CODE	DESCRIPTION	QTY	COMPLIANCE YES / NO
1. Dell EMC PE R740 Server – QTY 02				
Dell	R740	<b>Dell EMC PE R740 Rack Server</b> <b>Processor:</b> Dual Intel Xeon Silver 4210 2.2G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2400 <b>RAM:</b> 192GB RDIMM, 3200MT/s <b>Raid Controller:</b> PERC H740P RAID Controller, 8GB NV Cache <b>SSD:</b> 2 x 240GB SSD 2.5inch, Hot-Plug <b>SD Cards:</b> 2 x 16GB SD Cards <b>Network 1G:</b> Quad Port 1Gbps NIC <b>Network 10G:</b> Dual Port SFP+ 10Gbps <b>HBA FC 16G:</b> 2 x Single Port 16Gbps FC <b>Remote Management:</b> iDRAC 9 Enterprise <b>Power Supply:</b> Dual, Hot-plug Redundant <b>Warranty:</b> 3 Years Parts / 3 Years 3 years onsite service	02	Nos
2. DELL EMC PV ME4024 Hybrid SAN Storage – QTY 01				
Dell	ME4024	DELL EMC PV ME4024 Hybrid SAN Storage Dual Active-Active Controllers Minimum 8GB DRAM Cache Per Controller 4 x 10GbE SFP+ Ports 4 x 16Gb/s FC SFP+ 17 x 1.2TB 10K SAS, 2.5" Hot plug Drives 7 x 960GB SSD SAS, 2.5" Hot plug Drives.	01	Nos
3. VMware vSphere 7 Essentials Plus Kit – QTY 01				
VMware		VMware vSphere 7 Essentials Plus Kit (3 Host, 6 Processors) 3 Years Production Support	01	Nos

**LOT 3: VIDEO WALL DISPLAY**

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
1. Ultra-Narrow Bezel Video Wall Display – QTY 16					
LG	55SVH7F	LG 55" SVH7F Series 0.44mm Even Bezel FHD IPS Video Wall with built-in SoC and webOS Smart Signage Platform, 700nits, Gap reduction and Smart Calibration Interface: HDMI (2) / DP / DVI-D / USB / RS232C / RJ45 / Audio / IR	16	Nos	
Chief	LVS1U	ConnexSys Video Wall Landscape Mounting System with Rail Supports 42 to 80" Displays Up to 150 lb Extends Display 13.4" from Wall 200 x 100 to 700 x 400 mm Mount Pattern Provides -2.5 to 4° Tilt Adjustment	16	Nos	
2. 86" Touch Interactive Display – QTY 08					
LG	86TR3BF	LG 86TR3BF 86" UHD Touch Interactive Display Brightness (w/Protection Glass): 330 cd/m <sup>2</sup> Touch Type: IR Multi Touch Point: Max 20 Points / Max 10 Writing Interface: HDMI (3), RGB / Audio In, RS232C In, USB 2.0 (3, Front: 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out (USB2.0, B Type) (2), HDMI (1), Optical Output / Audio Out	08	Nos	
Titan	SGB801	FIXED MOUNT Automatically Click-in Spring Lock Pull-down cords allow easy installation Recommended Size: 60" - 100" Rated Maximum Load: 75KG	08	Nos	
3. 43" UHD Commercial Digital Signage TV – QTY 30					
LG	43UT640S	43" UT640S Series UHD Commercial Signage TV Brightness (cd/m <sup>2</sup> ): 350 Wake-on-LAN Crestron Connected® (Network Based Control) Content Management/Group Management SuperSign Control Simple Network Management Protocol (SNMP)	30	Nos	
Titan	SGB401	FIXED MOUNT Required Size: 32" - 55" Rated Maximum Load: 35KG	30	Nos	
4. 2K Input Node for KVM Over IP – QTY 23					
AVCIT	DSII-HDMI-IN 2K HDMI	2K Input Node for KVM Over IP AVCIT HDMI Input Node for IP based KVM Collaboration System	23	Nos	
5. 2K Output Node for KVM Over IP – QTY 20					
AVCIT	DSII-HDMI-OUT 2K HDMI	2K Output Node for KVM Over IP AVCIT HDMI Output Node for IP based KVM Collaboration System	20	Nos	
6. 4K Output Node for KVM Over IP – QTY 05					
AVCIT	DSII-HDMI-OUT 4K HDMI	4K Output Node AVCIT HDMI Output Node for IP based KVM Collaboration System for KVM Over IP	5	Nos	
7. KVM Over IP Management Software – QTY 02					
AVCIT	DTB-EL	KVM Over IP Management Software Software License for IP Based KVM Collaboration System	2	Nos	

**LOT 4: CLIENT SYSTEMS**

BRAND	PART CODE	DESCRIPTION	QTY	COMPLIANCE YES / NO
1. Micro Desktop Computers – QTY 50				
Dell / Lenovo		<b>Mini Computer System</b> <b>Form Factor:</b> Micro / Mini <b>Processor:</b> 10th Generation Intel® Core™ i5-10500T (6-Core, 12MB Cache, 2.3GHz to 3.8GHz, 35W) <b>Memory:</b> 8GB, DDR4 <b>Hard Disk:</b> M.2 256GB PCIe NVMe Class 35 Solid State Drive Wired Keyboard, Mouse <b>Ports:</b> RJ-45 port 10/100/1000 Mbps, USB 3.0, USB 2.0, HDMI (1), DisplayPort (1), Audio Port <b>OS:</b> Windows 10 Pro 64bit English <b>Office:</b> Microsoft Office 2019	50	Nos
Dell / Lenovo		<b>22 Inch LED Monitor</b> <b>Interface:</b> DisplayPort (1), VGA or HMDI	100	Nos

**LOT 5: VOICE & VIDEO COMMUNICATION SYSTEM**

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
1. Video Conferencing MCU with 10 Site License – QTY 01					
Aver	EVC950	<b>Aver EVC950 - 10-Site MCU embedded,</b> <b>Camera:</b> 18X zoom with 2 mega pixel PTZ, <b>Video resolution:</b> Full HD 1080p (1920 x 1080) at 30fps, <b>Content sharing resolution:</b> HD 1080p (1920 x 1080) and dual display support, <b>Table hub</b> (embedded 10W speaker, microphone, extended I/O), <b>Communication:</b> H.323 & SIP standards, <b>Video Standard:</b> H.264, H.263+, H.263, H.261, H.239 dual video streams, G.711, G.722, G.722.1, G.728, G.722.1C, embedded meeting recording and layout-changeable playback, snapshot sharing.	01	Nos	
		<b>Additional MIC array</b> Aver EVC Microphone - Directional MIC, package w/o cable, EVCseries	03	Nos	
		10M, 8pin, EVC series MIC cable (10M)	03	Nos	
		Aver EVC Camera Mount	01	Nos	
2. Video Conferencing Endpoint - QTY 08					
Aver	EVC150	<b>Aver EVC150 – Endpoint</b> <b>Camera:</b> 18X zoom with 2 mega pixel PTZ auto focus, P2P, <b>Video resolution:</b> HD1080p30fps, <b>Content sharing resolution:</b> WSXGA (1440 x 900) and dual display support, Table hub, MIC x 1, <b>Communication:</b> H.323 and SIP standards, <b>Video standard:</b> H.264, H.263, H.263+, H.261, H.239 dual video streams	08	Nos	
		<b>Additional MIC array</b> Aver EVC Microphone - Directional MIC, package w/o cable, EVCseries	24	Nos	
		10M, 8pin, EVC series MIC cable (10M)	24	Nos	
		Aver EVC Camera Mount	08	Nos	
3. USB Video Conferencing Camera – QTY 05					
Aver	VC540	<b>Aver VC540, 4K Conference Camera with Bluetooth® Speakerphone</b> USB 3.1 4K 30fps, 1080p 60fps. 16X total zoom. Mid to Large room applications. Up to 24 participants. FOV: 86°", Pan 320°Tilt 160° (+90°-30°), Up to 10 Camera Presets. Smart Frame: Automatically adjust image to show all participants. Simply Plug and Play, RS 232 Integration "	05	Nos	
Aver	60U0100000AB	<b>Additional Expansion Speakerphone incl. 10m cable</b> Bluetooth & USB cable connections to PC Two omnidirectional microphones support 360° pickup, Full duplex echo cancellation/ advanced noise suppression. Daisy chain Speakerphone and Microphone, Touch	05		

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
		controls for volume up/down, mute, phone input, call, and hang-up. 12V5A Power Adapter, LAN for IP remote access. 3.5mm phone-in jack/ 3mm line out."			
<b>4. AI Auto Tracking Video Conferencing PTZ Camera – QTY 01</b>					
Aver	PTC310U	<b>Aver AI Auto Tracking PTZ Camera</b> AI Tracking, 4K, 12x Zoom, 2x Sensor Zoom	01		
<b>5. High-end IP Phone – QTY 20</b>					
Grand stream	GXP2135	<b>Grandstream GXP2135 IP Phone</b> 8 lines, 4 SIP accounts, 4 XML programmable context-sensitive soft keys Dual switched, auto-sensing Gigabit ports, built-in PoE Built-in Bluetooth for syncing headsets and mobile devices for contact books, calendars & call transferring HD audio on the handset and speakerphone; full duplex speakerphone	05		
<b>6. Carrier Grade IP Phone – QTY 05</b>					
Grand stream	GRP2615	<b>Grandstream GRP2615 Carrier Grade IP Phone</b> HD audio, handset and speakerphone with support for wide-band audio 10-line keys with up to 5 SIP accounts Enterprise-level protection including secure boot, dual firmware images, and encrypted data storage Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE Integrated Bluetooth	05	Nos	
	GBX20	GBX20 Extension Module for GRP2615 Phone	05	Nos	
<b>7. 4G/Wi-Fi Tactical Helmet Camera – QTY 05</b>					
Combat Eye	CombatEyeSL	<b>COMBATEYE SL 4G/WIFI TACTICAL HELMET CAMERA</b> 4G/WIFI Tactical Helmet Camera with Bluetooth earphone and push to talk finger ring	05		

**LOT 6: OTHERS (Server Rack & UPS Battery)**

BRAND	PART CODE	DESCRIPTION	QTY		COMPLIANCE YES / NO
1. APC NetShelter SX 42U Rack Enclosure - QTY 02					
APC	AR3100	APC NetShelter SX 42U 600mm Wide x 1070mm Deep Enclosure	02	Nos	
2. Sealed Lead Acid Battery – QTY 250					
		Sealed Lead Acid Battery 12V 7.5Ah / 20HR 2.75' 3.75' 6'	250	Nos	

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