



Modification 01

&

Questions and Answers

Request for Proposals No. 2022- 71

Education Development Center, Inc.
(Hereafter referred to as "EDC")

Procurement of Turnkey Data Center Solution
Procurement, Installation and Training

Date of Issuance: August 2, 2022

Date of Modification: August 23, 2022

Modification 01:

The purpose of this modification 01 is to revise **Annex 3 – Technical Specifications List**, and replace **Section H.3 Warranty**, for Request for Proposal (“RFP”) 2022-071, Turnkey Data Center Solution: Procurement, Installation and Training.

With Modification 01, the following changes are made to the RFP:

Section 1:

DELETE THE FOLLOWING IN ITS ENTIRETY:

Annex 3 - Technical Specifications List

Network Components

- **Cisco Nexus Dashboard Platform**
 - Cisco Application Services Engine Performance cluster
 - Support: 8x5xNBD

- **Fiber Leaf Switches**
 - 2 x Cisco Nexus 9K-93180YC-FX3 Fiber Leaf
 - 32GB Memory
 - DCN Premier Term N9300 XF, 3Y
 - Support: 8x5xNBD

- **TOR Switches**
 - 2 x Nexus C9336C-FX2, with Essential license
 - 36p 40/100G QSFP28
 - 2 x 10GBASE-SR SFP Module
 - Support: 24X7X4OS Nexus 9300 Series
 - SWSS: NX-OS Essentials license for Nexus 9300

- **OOB Management Switches**
 - 2 x Nexus C2348UPQ
 - 10GE UP FEX
 - 48x1/10GE SFP+
 - 6x40G QSFP
 - Nexus Airflow Extension Sleeve for 23xx FEX
 - 40GBASE Active Optical Cable, 1m
 - Support: 8X5XNBD
 - SNTC: 8X5XNBD Standard airflow pack: N2K-C2348UPQ, 2AC

- **DMZ Switches**
 - 2 x Catalyst 9300-24T, with Network Advantage license (3Y)
 - 350W AC 80+ platinum Config 1 Secondary Power Supply
 - 50CM Type 1 Stacking Cable
 - Catalyst Stack Power Cable 30 CM
 - Catalyst 9300 8 x 10GE Network Module
 - Support: 8x5XNBD

Security Components

- **Datacenter Firewall**
 - 2 x Cisco Firepower 4125 NGFW Appliance, 1U, 2 x NetMod Bays
 - Threat Defense and Malware License and Subscription (3Y)
 - 2 x 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
 - 2 x 10GBASE-SR SFP Module, Enterprise-Class
 - Cisco FirePower 2 port 40G SR FTW Network Module
 - 2 x Power Cord - Europe, 16/10A,250V, 2500mm, -40C to +85C
 - Support: 8x5xNBD
 - 2 x Cisco Firepower Management Center 1600 Chassis
 - 2 x Power Cord, 250VAC 10A CEE 7/7 Plug, EU
 - Support 8x5xNBD
- **Perimeter Firewall**
 - 2 x Palo Alto PA-5220 with Base AC Hardware Bundle
 - 1 x Threat prevention subscription 3 Year prepaid for device in an HA pair
 - 2 x PA SFP+ form factor, SR 10Gb optical transceiver, OM3 MMF
 - 1 x QSFP+ form factor, 40Gb active optical cable with 2 transceivers and 10m of cable permanently bonded as an assembly
 - 1 x Palo Alto Networks PA-5200 4 post rack mount kit
 - 1 x Support: 3 Year Premium
- **WAF and LTM**
 - 1 x BIG-IP i4600 Local Traffic Manager
 - BIG-IP Advanced Web Application Firewall Module for i4X00
 - 2 x BIG-IP and VIPRION SFP 1000BASE-T Transceiver
 - 2 x BIG-IP and VIPRION SFP+ 10GBASE-SR Transceiver
 - Redundant Power Supply
 - 1 x BIG-IP IP Intelligence License for i4X00
 - Support: 6 x Level 1-3 Premium Service for BIG-IP (24x7)
 - Support: 3 x Next-Business-Day Hardware Replacement Service (RMA) for BIG-IP

Servers and Storage Components

- **Azure Stack Servers**
 - 8 x Cisco AzureStack Hyb CTO Node C240-M5L w/40G QL
 - 2 x Intel 6230R 2.1GHz/150W 26C/35.75MB DDR4 2933MHz
 - 16 x 64GB DDR4-2933-MHz RDIMM/2Rx4/1.2v
 - 8 x 8 TB 12G SAS 7.2K RPM LFF HDD (4K)
 - 2 x 3.2TB 2.5in U.2 WD SN840 NVMe Extreme Perf. High Endurance
 - 2 x 1000BASE-T SFP transceiver module for Category 5 copper wire
 - Support: 8x5xNBD
- **Fabric Interconnect**
 - 2 x Cisco Fabric Interconnect Microsoft Azure Stack FI 6332/32 QSFP+/8p Lic included
 - 14 x 40G port License to connect C-direct
 - Support: 8x5xNBD

- **Backup Server**
 - Cisco UCS S3260 Storage Server Base Chassis (single node M5)
 - 2 x Intel 6226R 2.9GHz/150W 16C/22MB DDR4 2933MHz
 - 8 x 16GB DDR4-2933-MHz RDIMM/1Rx4/1.2v
 - 2 x UCS S3260 480G Boot SSD (Micron 6G SATA)
 - 1 x UCS S3260 Dual Raid based on LSI 3316
 - 1 x UCS C3260 System IO Controller with VIC 1300
 - 56 x 18TB UCS S3260 Disk
 - 4 x Redundant power supply
 - 1 x Rail Kit
 - 1 x Windows Server 2019 Standard lic. for 32-Cores
 - Hardware Support: 8x5xNBD
 - Operating System Support: 24x7

Additional Hardware Components

- **Cisco Transceivers**
 - 2 x 100GBASE-CR4 Passive Copper Cable, 2m
 - 1 x 1000BASE-T SFP transceiver module for Category 5 copper wire
 - 5 x QSFP to SFP10G adapter
 - 8 x QSFP40G BiDi Short-reach Transceiver
 - 32 x 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, OM4 MMF
 - 16 x 40GBASE Active Optical Cable, 3m
 - 12 x 10GBASE-SR SFP Module
- **Racks**
 - 2 x 42 RU 800x1000, including all required accessories and patch cords

Software Components

- **Backup Software**
 - 14 x Veeam Availability Suite Universal Perpetual License. Includes Enterprise Plus Edition features. 10 instance pack.
 - Support: 3 Year 24x7

Professional Services

- **Implementation Services**
 - Installation and configuration must be done by certified product engineers/partners for the following products:
 - Microsoft Systems (Servers, VMs and Azure Stack)
 - Cisco Network and Security Devices
 - F5 LTM and WAF Devices
 - Palo Alto Firewalls
 - Veeam Backup Software
 - Microsoft Monitoring Solution
- **Operations and Support**
 - HTEC services for 3 years, including HTOM and HTAC.
 - Resident engineer to provide on-site L1 support for all Cisco Products.
 - 8x5xNBD support for all Cisco Products.
 - 24x7 support for Big-IP and Palo Alto Products.
 - 24x7 premier support for all Microsoft Products.

- **Training**
 - 6 x Microsoft official training and certification (AZ-600 and AZ-900)
 - On-job training for provided technologies for 4 seats

Details:

#	Part Number	Description	QTY
1. Active			
1.1 Azure Stack			
1.1.1	ASF-DCV1-G-AZRINST	Azure Stack Installation Services	1
1.1.2	UCS-MAN-S01A0T0V0	MSFT AzureStack Hyb CTO Node C240 M5L w/ 40G QL	8
1.1.3	CON-SSCS-S01A0T0V	SOLN SUPP 8X5XNBDOS MSFT AzureStack Hyb CTO Node C240 M5L	8
1.1.4	UCS-CPU-I6230R	Intel 6230R 2.1GHz/150W 26C/35.75MB DDR4 2933MHz	16
1.1.5	UCS-MR-X64G2RT-H	64GB DDR4-2933-MHz RDIMM/2Rx4/1.2v	128
1.1.6	UCS-HD8T7K4KAN	8 TB 12G SAS 7.2K RPM LFF HDD (4K)	64
1.1.7	GLC-TE	1000BASE-T SFP transceiver module for Category 5 copper wire	16
1.1.8	UCS-NVMEM6-W3200	3.2TB 2.5in U.2 WD SN840 NVMe Extreme Perf. High Endurance	16
1.1.9	UCS-MAFI-6332	Microsoft Azure Stack FI 6332/32 QSFP+/8p Lic included	2
1.1.10	CON-SSCS-MAFI6332	SOLN SUPP 8X5XNBDOS Microsoft Azure Stack FI 6332/32 QSFP+/8	2
1.1.11	UCS-LIC-6300-40GC	3rd Gen FI Per port License to connect C-direct only	14
1.1.12	N9K-C9336C-FX2	Nexus 9300 Series, 36p 40/100G QSFP28	2
1.1.13	CON-SSC4P-N9336FX2	SOLN SUPP 24X7X4OS Nexus 9300 Series, 36p 40/100G QSFP28	2
1.1.14	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	4
1.1.15	C1E1TN9300XF-3Y	Data Center Networking Essentials Term N9300 XF, 3Y	2
1.1.16	N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	2
1.1.17	NXA-AIRFLOW-SLV-E	Nexus Airflow Extension Sleeve for 23xx FEX	2
1.1.18	QSFP-H40G-AOC1M	40GBASE Active Optical Cable, 1m	2
1.1.19	CON-SNT-2348PQFA	SNTC-8X5XNBD Standard airflow pack: N2K-C2348UPQ, 2AC	2
1.1.20	QSFP-100G-CU2M=	100GBASE-CR4 Passive Copper Cable, 2m	2
1.1.21	GLC-TE=	1000BASE-T SFP transceiver module for Category 5 copper wire	1
1.1.22	CVR-QSFP-SFP10G=	QSFP to SFP10G adapter	5
1.1.23	QSFP-40G-SR-BD=	QSFP40G BiDi Short-reach Transceiver	8
1.1.24	SFP-10G-SR-S=	10GBASE-SR SFP Module, Enterprise-Class	4
1.2. Transceivers			
1.2.1	QSFP-40/100-SRBD=	100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF	32
1.2.2	QSFP-H40G-AOC3M=	40GBASE Active Optical Cable, 3m	16
1.3. Backup Server			
1.3.1	UCSS-S3260	Cisco UCS S3260 Storage Server Base Chassis	1
1.3.2	CON-SNT-UCSS3260	SNTC 8X5XNBD, Cisco UCS S3260 Storage Server Base Chassis	1

#	Part Number	Description	QTY
1.3.3	UCSC-PSU1-1050W	Cisco UCS 1050W AC Power Supply for Rack Server	4
1.3.4	UCSC-CMA-M4	Reversible CMA for C240 M4 ball bearing rail kit	1
1.3.5	UCS-S3260-M5SRB	UCS S3260 M5 Server Node for Intel Scalable CPUs	1
1.3.6	UCS-CPU-I6226R	Intel 6226R 2.9GHz/150W 16C/22MB DDR4 2933MHz	2
1.3.7	UCS-MR-X16G1RT-H	16GB DDR4-2933-MHz RDIMM/1Rx4/1.2v	8
1.3.8	UCSC-C3260-SIOC	Cisco UCS C3260 System IO Controller with VIC 1300 incl.	1
1.3.9	UCS-S3260-56WHD18	UCS S3260 4row of drives 56x 18TB WD Total: 1,008TB	1
1.3.10	UCS-S3260-G3SD48	UCS S3260 480G Boot SSD (Micron 6G SATA)	2
1.3.11	MSWS-19-ST16C	Windows Server 2019 Standard (16 Cores/2 VMs)	1
1.3.12	CON-ISV1-MSWSS19S	ISV 24X7 Windows Server 2019	1
1.3.13	MSWS-19-STA2C	Windows Server 2019 Standard - Additional 2 Cores	8
1.3.14	CON-ISV1-MSWSC19S	ISV 24X7 Windows Server 2019	8
1.3.15	UCS-S3260-DRAID2	UCS S3260 Dual Raid Controller based on Broadcom 3316 2G ROC	1
1.4. Fiber Leaf			
1.4.1	N9K-C93180YC-FX3	Nexus 9300 48p 1/10/25G, 6p 40/100G, MACsec, SyncE	2
1.4.2	CON-SSSNT-N9KC93X3	SOLN SUPP 8X5XNBD Nexus 9300 48p 1/10/25G, 6p 40/100G, MAC	2
1.4.3	NXK-MEM-16GB	Additional memory of 16GB for Nexus Switches	2
1.4.4	C1P1TN9300XF-3Y	DCN Premier Term N9300 XF, 3Y	2
1.5. Service Engine Cluster			
1.5.1	SE-CL-L3	Service Engine Cluster - Performance	1
1.5.2	CON-L1NBD-SECLL3	CX LEVEL 1 8X5XNBD Service Engine Clust	1
1.6. 10G Transceivers			
1.6.1	SFP-10G-SR-S=	10GBASE-SR SFP Module Enterprise Class	12
1.7. DataCenter Firewall			
1.7.1	L-FPR4125T-TM-3Y	Cisco FPR4125 Threat Defense Threat and Malware 3Y Subs	1
1.7.2	FPR4125-NGFW-K9	Cisco Firepower 4125 NGFW Appliance, 1U, 2 x NetMod Bays	1
1.7.3	CON-SNT-FPR4125N	SNTC-8X5XNBD Cisco Firepower 4125 NGFW Appliance, 1U,	1
1.7.4	GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	2
1.7.5	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	2
1.7.6	FPR4K-NM-2X40G-F	Cisco FirePower 2 port 40G SR FTW Network Module	1
1.7.7	CON-SNT-FR4KNMXG	SNTC-8X5XNBD Cisco FirePower 2 port 40G SR FTW Networ	1
1.8. DMZ Switch			
1.8.1	C9300-24T-A	Catalyst 9300 24-port data only, Network Advantage	2
1.8.2	CON-SNT-C93002TA	SNTC-8X5XNBD Catalyst 9300 24-port data only, Network	2
1.8.3	PWR-C1-350WAC-P/2	350W AC 80+ platinum Config 1 Secondary Power Supply	2
1.8.4	STACK-T1-50CM	50CM Type 1 Stacking Cable	2
1.8.5	CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	2
1.8.6	C9300-NM-8X	Catalyst 9300 8 x 10GE Network Module	2
1.8.7	C9300-DNA-A-24-3Y	C9300 DNA Advantage, 24-Port, 3 Year Term License	2
1.9 F5			

#	Part Number	Description	QTY
1.9.1	F5-BIG-LTM-I4600	BIG-IP i4600 Local Traffic Manager (32 GB Memory, Base SSL, Base Compression)	1
1.9.2	F5-SVC-BIG-PRE-L1-3	Level 1-3 Premium Service for BIG-IP (24x7)	3
1.9.3	F5-SVC-BIG-RMA-2	Next-Business-Day Hardware Replacement Service (RMA) for BIG-IP	3
1.9.4	F5-ADD-BIG-AWF-I4XXX	BIG-IP Advanced Web Application Firewall Module for i4X00	1
1.9.5	F5-SVC-BIG-PRE-L1-3.	Level 1-3 Premium Service for BIG-IP (24x7)	3
1.9.6	F5-UPG-SFPC-R	BIG-IP & VIPRION SFP 1000BASE-T Transceiver (Field Upgrade)	2
1.9.7	F5-UPG-SFP+-R	BIG-IP & VIPRION SFP+ 10GBASE-SR Transceiver (Short Range, 300 m, Field Upgrade)	2
1.9.8	F5-UPG-AC-I4XXX	BIG-IP Single AC Power Supply for i4X00 (250 W, Field Upgrade)	1
1.9.9	F5-SBS-BIG-IPI-4-3YR	BIG-IP IP Intelligence License for i4X00 (3-Year Subscription)	1
1.10 Palo Alto			
1.10.1	PAN-PA-5220-AC	Palo Alto Networks PA-5220 with redundant AC power supplies	1
1.10.2	PAN-QSFP-AOC-10M	QSFP+ form factor, 40Gb active optical cable with 2 transceivers and 10m of cable permanently bonded as an assembly	1
1.10.3	AN-PA-5200-RACK4	Palo Alto Networks PA-5200 4 post rack mount ki	1
1.10.4	PAN-PA-5220-TP-3YR-HA2	Threat prevention subscription 3 year prepaid for device in an HA pair, PA-5220	1
1.10.5	PAN-SVC-BKLN-5220-3YR	Partner enabled premium support 3-year prepaid, PA-5220	1
1.10.6	PAN-SFP-PLUS-SR	SFP+ SR 10GigE transceiver (PA-7000 series, PA-5060, PA-5050)	2
1.11 Veeam			
1.11.1	E-VASVUL-0I-PP000-00	Veeam Availability Suite Universal Perpetual License. Includes Enterprise Plus Edition features. 10 instance pack. 1 year of Production (24/7) Support is included. Education sector.	14
1.11.2	V-VASVUL-0I-P02PP-00	2 additional years of Production (24/7) maintenance prepaid for Veeam Availability Suite Universal Perpetual License. 10 instance pack.	14
1.13. Microsoft Training			
1.13.2		AZ-900: Microsoft Azure Fundamentals	6
1.13.3		AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub	6
1.14. Cisco HTEC			
1.14.1		Cisco HTEC Services	1
1.15. Resident Engineer			
1.15.1		Resident Engineer + On-job training	1

REPLACE WITH THE FOLLOWING:

Network Components

- **Cisco Nexus Dashboard Platform**
 - Cisco Application Services Engine Performance cluster
 - Support: 8x5xNBD

- **Fiber Leaf Switches**
 - 2 x Cisco Nexus 9K-93180YC-FX3 Fiber Leaf
 - 32GB Memory
 - DCN Premier Term N9300 XF, 1Y renewable
 - Support: 8x5xNBD

- **TOR Switches**
 - 2 x Nexus C9336C-FX2, with Essential license
 - 36p 40/100G QSFP28
 - 2 x 10GBASE-SR SFP Module
 - Support: 24X7X4OS Nexus 9300 Series
 - SWSS: NX-OS Essentials license for Nexus 9300

- **OOB Management Switches**
 - 2 x Nexus C2348UPQ
 - 10GE UP FEX
 - 48x1/10GE SFP+
 - 6x40G QSFP
 - Nexus Airflow Extension Sleeve for 23xx FEX
 - 40GBASE Active Optical Cable, 1m
 - Support: 8X5XNBD
 - SNTC: 8X5XNBD Standard airflow pack: N2K-C2348UPQ, 2AC

- **DMZ Switches**
 - 2 x Catalyst 9300-24T, with Network Advantage license (1Y renewable)
 - 350W AC 80+ platinum Config 1 Secondary Power Supply
 - 50CM Type 1 Stacking Cable
 - Catalyst Stack Power Cable 30 CM
 - Catalyst 9300 8 x 10GE Network Module
 - Support: 8x5XNBD

Security Components

- **Datacenter Firewall**
 - 1 x Cisco Firepower 4125 NGFW Appliance, 1U, 2 x NetMod Bay
 - Threat Defense and Malware License and Subscription (1Y renewable)
 - 2 x 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
 - 2 x 10GBASE-SR SFP Module, Enterprise-Class
 - Cisco FirePower 2 port 40G SR FTW Network Module
 - 2 x Power Cord - Europe, 16/10A,250V, 2500mm, -40C to +85C
 - Support: 8x5xNBD

- **Perimeter Firewall**
 - 1 x Palo Alto PA-5220 with Base AC Hardware Bundle
 - Threat prevention subscription 1Y renewable prepaid for device in an HA pair
 - 2 x PA SFP+ form factor, SR 10Gb optical transceiver, OM3 MMF
 - QSFP+ form factor, 40Gb active optical cable with 2 transceivers and 10m of cable permanently bonded as an assembly
 - Palo Alto Networks PA-5200 4 post rack mount kit
 - Support: 1Y Premium renewable

- **WAF and LTM**
 - 1 x BIG-IP i4600 Local Traffic Manager
 - BIG-IP Advanced Web Application Firewall Module for i4X00
 - 2 x BIG-IP & VIPRION SFP 1000BASE-T Transceiver
 - 2 x BIG-IP & VIPRION SFP+ 10GBASE-SR Transceiver
 - Redundant Power Supply
 - 1 x BIG-IP IP Intelligence License for i4X00
 - Support: 1Y renewable x Level 1-3 Premium Service for BIG-IP (24x7)
 - Support: 1Y renewable x Next-Business-Day Hardware Replacement Service (RMA) for BIG-IP

Servers and Storage Components

- **Azure Stack Servers**
 - 8 x Cisco AzureStack Hyb CTO Node C240-M5L w/40G QL
 - 2 x Intel 6230R 2.1GHz/150W 26C/35.75MB DDR4 2933MHz
 - 16 x 64GB DDR4-2933-MHz RDIMM/2Rx4/1.2v
 - 8 x 8 TB 12G SAS 7.2K RPM LFF HDD (4K)
 - 2 x 3.2TB 2.5in U.2 WD SN840 NVMe Extreme Perf. High Endurance
 - 2 x 1000BASE-T SFP transceiver module for Category 5 copper wire
 - Support: 8x5xNBD
- **Fabric Interconnect**
 - 2 x Cisco Fabric Interconnect Microsoft Azure Stack FI 6332/32 QSFP+/8p Lic included
 - 14 x 40G port License to connect C-direct
 - Support: 8x5xNBD
- **Backup Server**
 - Cisco UCS S3260 Storage Server Base Chassis (single node M5)
 - 2 x Intel 6226R 2.9GHz/150W 16C/22MB DDR4 2933MHz
 - 8 x 16GB DDR4-2933-MHz RDIMM/1Rx4/1.2v
 - 2 x UCS S3260 480G Boot SSD (Micron 6G SATA)
 - 1 x UCS S3260 Dual Raid based on Broadcom 3316 2G ROC
 - UCS C3260 System IO Controller with VIC 1300
 - 56 x 18TB UCS S3260 Disk
 - 4 x Redundant power supply
 - Rail Kit
 - Windows Server 2019 Standard lic. for 32-Cores
 - Hardware Support: 8x5xNBD
 - Operating System Support: 24x7

Additional Hardware Components

- **Cisco Transceivers**
 - 2 x 100GBASE-CR4 Passive Copper Cable, 2m
 - 1 x 1000BASE-T SFP transceiver module for Category 5 copper wire
 - 5 x QSFP to SFP10G adapter
 - 8 x QSFP40G BiDi Short-reach Transceiver
 - 32 x 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, OM4 MMF
 - 16 x 40GBASE Active Optical Cable, 3m
 - 16 x 10GBASE-SR SFP Module

Software Components

- **Backup Software**
 - 14 x Veeam Availability Suite Universal Perpetual License. Includes Enterprise Plus Edition features. 10 instance pack.
 - Support: 1Y renewable 24x7

Professional Services

- **Implementation Services**
 - Installation and configuration must be done by certified product engineers/partners for the following products:
 - Microsoft Systems (Servers, VMs and Azure Stack)
 - Cisco Network and Security devices
 - F5 LTM and WAF devices
 - Palo Alto Firewalls
 - Veeam Backup Software
- **Operations and Support**
 - HTEC services for 1Y renewable, including HTOM and HTAC.
 - Resident engineer to provide on-site L1 support for all Cisco products.
 - 8x5xNBD support for all Cisco Products.
 - 24x7 support for Big-IP and Palo Alto Products.
 - 24x7 premier support for all Microsoft Products.
- **Training**
 - 6 x Microsoft official training and certification (AZ-600 & AZ-900)
 - On-job training for provided technologies for 4 seats

Section 2:

DELETE THE FOLLOWING IN ITS ENTIRETY:

H.3. Warranty

Offeror agrees that a 12-month warranty period for Hardware and 6-month warranty period for Software and deployment will begin upon issuance of the Certificate of Final Acceptance (FAT) by MOETE.

Warranty periods are not calculated within support services requested in the specification of hardware and software. All items on the punch list must be correct. At the completion of the warranty period a final inspection will be conducted by EDC and any warranty deficiencies will be corrected by the Selected Offeror.

Upon completion of any warranty items the Final Completion Certificate will be issued by EDC and the retainage released to the Selected Offeror.

Post live support will not be considered within warranty duration.

REPLACE WITH THE FOLLOWING:

H.3 Post Live Support:

Offerors agree that a two-month post live support is granted for Hardware, Software and deployment will begin upon issuance of the Certificate of Final Acceptance (FAT) by EDC.

Post live support period is not calculated within warranty services requested in the specification of HW and SW. All items on the punch list must be correct. At the completion of the post live support period a final inspection will be conducted by EDC and any deficiencies will be corrected by the contractor.

Upon completion of the deficiencies incidents the Final Completion Certificate will be issued by EDC and the retainage released to the contractor.

Post live support is not considered within warranty duration.

Questions and Answers

Question 1: We have a clarification please regarding the technical specifications list (Annex 3), BoM in this Annex seems to be duplicated. Is there any technical reason behind it or EDC intends to purchase 2 different data centers for disaster recovery purposes?

EDC Response: *Please refer to Section 1 of this Modification "Annex 3 - Technical Specifications List". Revised Technical Specifications list is posted.*

Question 2: What is the difference between the two BoQs in technical annex? They are exactly the same yet one of them with item numbers and the other one without item numbers? Are we obliged to stick to the specified item numbers or not?

EDC Response: *Please refer to EDC response to Question 1.*

Question 3: In Section D1. point #2, Information Technology Infrastructure components such as Servers, Databases, Storage, Software and other IT components etc. required at the Data Center must be managed under the supervision and Integrity of selected Offeror (sole system integrator) / and in Section G1.B2. point #6, MoETE will make any coordination needed between the current (system integrator/Offeror) of the main Data Center and the Offeror.

What will be the Data center supervision roles of the selected Offeror against the current system integrator of the existing DC?

EDC Response: *Data Center supervision is the responsibility of the Ministry and the current systems integrator.*

Question 4: If the new selected Offeror will manage the current data center, will you conduct an on-site survey of the current setup to check what will be managed?

EDC Response: *No the selected Offeror will not manage the data center..*

Question 5: Is there an on-site survey to check the current DC setup or to decide the cables and the connectors requirements?

EDC Response: *No there is not an on-site survey.*

Question 6: In section H.1. Inspection (integrated testing) of the Datacenter site will be made by the selected offeror. does this mean that the survey will be after awarding the offeror? Or it can be during the bidding process?

EDC Response: *Please refer to RFP Section H.1. "Integrated testing" is related to confirmation of project completion. This does not affect the procurement process.*

Question 7: All hardware and software included in the proposal must include licenses, updates, support, software assurance and maintenance for 3 years, after warranty period.? Does this imply a total of 4 years support from the Offeror to cover the 1 Year warranty of the hardware?

EDC Response: *One-year is required starting the date of handover with renewable support agreement for up to three years.*

Question 8: post implementation support implies partner SLA support or normal Offeror support?

EDC Response: *Both Offeror support and partner support are required.*

Question 9: If partner support SLA required, what is the required partner Support SLA terms? 1 year renewable SLA contract or 4 years total to cover support & warranty? what are the other terms? (like 24X7 or 8X5, regular visits frequency)? does this needs modification in the BOM support years quantity from 3 to 4?

EDC Response: *Each partner is expected to submit their SLA offer with their terms that will be evaluated. One-year 8x5 is required starting the date of handover with renewable support agreement for up to three years.*

Question 10: Appreciate it if we can set a meeting and have a site survey before the technical bidding to discuss all the needed and requirements against the RFP.

EDC Response: *Please refer to EDC response to Question 5.*

Question 11: Is it acceptable to offer an alternative Offeror or alternative Part numbers with the same solution?

EDC Response: *It is acceptable to provide alternatives for all non-Cisco items as per RFP Section C "Instructions to Offerors".*

Question 12: Is it acceptable to offer Asure stack hardware from another Offeror?

EDC Response: *Please refer to EDC response to Question 11.*

Question 13: We will offer all the HW and SW with 3 years support warranty. Is EDC will provide all Microsoft licenses (Windows OS, Asure, .. etc).

EDC Response: *One-year is required starting the date of handover with renewable support agreement for up to three years. Microsoft licenses will be provided through the Microsoft Enterprise Agreement.*

Question 14: What is the existing hardware that EDC needs to extend its support?

EDC Response: *No existing hardware needs support.*

Question 15: Regarding (H.3. Warranty), What do you mean about the required 12/6-Month warranty here, do you want to add this period to the required warranty for hardware and software?

EDC Response: *Please refer to Section 2 "H.3" in this modification.*

Question 16: Can you provide the architecture of the existing DC solution including the interconnections between the network & security elements?

EDC Response: *Please refer to Annex A to this modification.*

Question 17: Can we make a site survey for the existing data center ASAP before the submission of the technical & financial proposals?

EDC Response: *Please refer to EDC response to Question 5.*

Question 18: Please clarify if any preparation scope is needed such as precision cooling, UPS, Firefighting and alarm, Diesel generator, etc.

EDC Response: *Such preparations are not required.*

Question 19: For the Financial proposal can we proposed offer prices in USD and payment in EGP as per CBE exchange rate at the date of payment?

EDC Response: *Please refer to the RFP Clause G.2.1 "If the Offeror is an Egyptian entity, the price proposal must be in Egyptian Pounds"*

Question 20: Can We proposed offer prices in EGP as per USD\$ exchange rate (X) , and if any increase or decrease in this Dollar \$ exchange rate , EDC will eligible to pay in EGP as per CBE exchange rate at the date of payment.

EDC Response: *Please refer to EDC response to Question 19.*

Question 21: Can We proposed another payment milestones or we have to we have to stick with RFP payment milestones

EDC Response: *Offerors may propose alternative payment milestones taking into consideration that, as per RFP Clause G.2B, "EDC reserves the right to, at its sole discretion, to revise the payment schedule before issuance of a contract."*

Question 22: In section F4. Palo Alto Perimeter NG Firewall that will join an existing cluster of 2 Perimeter NG Firewalls

- How many existing cluster members? are they 2? if yes, so the final total cluster members are intended to be 3?

EDC Response: *The existing is two cluster members and the intended is to be three cluster members.*

- Will the new cluster member sync the current configuration of the existing cluster (like admin accounts, policies, objects, routing, NAT etc.)? or is there a new configuration as per the RFP requirements?

EDC Response: *The new cluster will sync with the current one with the possibility of the addition of a few new configurations.*

- In points #14, 15 & 16, it is mentioned that the PA firewall is a second layer firewall that controls users & servers & internet access to each other and to the DMZ zones as a second layer firewall. Will it still be as a perimeter firewall in front of the main DC firewall Cisco Firepower?

EDC Response: Yes.

Question 23: In Section F5., Big-IP LB and WAF will join existing cluster of 2 LB and WAF appliances.

- How many existing cluster members? are they 2 as per the RFP? if yes, so the final total cluster members are intended to be 3?

EDC Response: *Please refer to EDC response to Question 22.*

- Will the new cluster member sync the current configuration of the existing cluster (like admin accounts, WAF policies, LB pools & objects, etc.)? or is there a new configuration as per the RFP requirements?

EDC Response: *Please refer to EDC response to Question 22.*

Question 24: Is there no training required for CISCO Firepower 4125 DC FW?

EDC Response: *No. Only on-the-job training should be provided in accordance with the specifications in the Technical Specifications List.*

Question 25: In Annex 3 Tech specification list, the required security components are as follows.

- 2X cisco firepower 4125 DC FW
- 2X Cisco Firepower Mgmt Center 1600.
- 2X PA 5220 FW
- 1X F5 i4600 LTM & WAF but
- 1X F5 i4600 LTM & WAF but

with qty=6 of support While in BOM details the required items are

- 1X cisco firepower4125
- No cisco firepower Mgmt Center. (Is it available in the current setup?)
- 1X PA 5220 FW
- 1X F5 i4600 with qty

=3 years of support please confirm the required quantities

EDC Response: *Please refer to Section 1 “Annex 3 – Technical Specifications List” of this Modification 01.*

Question 26: In Annex 3. The Data Center FW Cisco Firepower BOM does not include the Firepower Management Center. Is it already available in the current setup or the BOM should be modified to include it.

EDC Response: *The New Firepower will be connected to the existing FMC.*

Question 27: In case the new Perimeter FW will not join an existing cluster with a specific model. Is it possible to replace the required PA-5220 FW with the new model PA-3430 which is higher in most of the technical specs and lower in the physical form(1U against 2U of the 5220)?

EDC Response: *The new Perimeter FW will join the existing cluster.*

Question 28: In case the new LB & WAF appliance will not a join an existing cluster with a specific model. Is it possible to replace the required F5 Big-ip i4600 with its corresponding new R4600 series model which is higher in the technical specs and provides better investment in the HW and avoids any future EOS announcements of the required I series in the RFP?

EDC Response: *The new LB & WAF will join the existing cluster.*

Question 29: How many leaf switches in the existing solution?

EDC Response: *Currently, there are two Leaf Switches.*

Question 30: What are the models of the existing Leaf switches?

EDC Response: *The current model is N9K-C93180YC-FX3*

Question 31: What is the license (Essential, Advantage or Premier) of the existing Leaf-Spine switches?

EDC Response: *For the purposes of this RFP, Offerors may assume the license is Essential.*

Question 32: What is the ACI SW version of the existing switches in cluster?

EDC Response: *For the purposes of this RFP, Offerors may assume the license is ACI 4.2.*

Question 33: What is the type of configuration of the existing ACI cluster (Medium or Large)?

EDC Response: *The configuration is Medium.*

Question 34: Regarding the required OOB MGMT Switches (N2K-C2348UPQ), this model will no longer be available for sale by Cisco as of 24-Aug-2022. So, can we propose an equivalent model N9K- C93180YC-FX3 instead?

EDC Response: *Equivalent switches with the same functionality are accepted.*

Question 35: Regarding the required Cisco Nexus Dashboard Platform, are there many site should be managed (On-Prem or On-cloud)?

EDC Response: *On-Prem.*

Question 36: RFP mentioned that the current datacenter network architecture is based on Cisco ACI, for the currently deployed Palo Alto perimeter NGFW, Are all its interfaces connected to a Cisco ACI leaf switches and traffic is steered across different NGFW zones (inside, Outside and DMZ) through Cisco ACI contract or the Palo Alto perimeter NGFW only connected from the inside interfaces to the ACI whoever NGFW/DMZ interfaces are connected to interconnection switches (DMZ switches) which connected to the internet routers as well where in this case the currently existing Palo Alto perimeter NGFW is deployed as physical inline between the ACI and the internet router?

EDC Response: *For the purposes of this RFP, Offerors may assume their best practice deployment method.*

Question 37: As a pre-requisite for deployment, are below services for security devices exist in the current datacenter or not:

- NTP
- DNS
- Active Directory

EDC Response: *All Security devices will join an existing cluster.*

Question 38: For Cisco Datacenter Firewall - Page 14 mentioned that the required Cisco Firepower NGFW are 2 appliances, however in the BoQ - Page 36 - the required is only 1 appliance, which number is correct?

EDC Response: *Please refer to Section 1 “Annex 3 – Technical Specifications List” of this Modification 01.*

Question 39: Palo Alto SoW - Page 14 mentioned that the required Palo Alto appliances will be deployed in the perimeter and join the currently existing cluster, we need to know below:

- What is the currently existing deployed hardware models?

EDC Response: *PAN-PA-5220*

- What is the currently deployed license on the currently existing devices?

EDC Response: *Threat prevention subscription*

- What is the current PAN OS version?

EDC Response: *For the purposes of this RFP, Offerors may assume that the PAN OS version is 9.0.*

Question 40: Palo Alto SoW - Page 14 mentioned that the required Palo Alto NGFW are 2 appliances, however in the BoQ - Page 37 - the required is only 1 appliance, which number is correct?

EDC Response: *Please refer to Section 1 “Annex 3 – Technical Specifications List” of this Modification 01.*

Question 41: F5 SoW - Page 14

- What is the currently existing deployed hardware models?

EDC Response: *BIG-IP i4600*

- What is the currently deployed software modules (e.g. LTM, Advanced WAF, ASM,... etc.) on the currently existing devices?

EDC Response: *LTM & Advanced WAF*

- What is the currently deployed license on the currently existing devices?
EDC Response: *LTM, AWF and BIG-IP IP Intelligence Licenses*
- What is the current F5 TMOS version?
EDC Response: *For the purposes of this RFP, Offerors may assume current F5 TMOS version is 16.0.*
- What exactly is the currently existing web application firewall modules on the currently existing appliances from F5? is it ASM (Application Security Manager) or Advanced WAF?
EDC Response: *Advanced WAF*

Question 42: As per Annex 3 - Page 32 - The required F5 appliance is Only 1, and as per F5 SoW - Page 14 - the currently exist F5 cluster consists of 2 appliances, this mean that the total appliances in the cluster wil l be 3 appliances, we need to confirm that this number is correct, because from technical point of view it's recommended to have an even number for cluster members so it's recommended to be 2 appliances instead of only 1 for resilient and consistent deployment.

EDC Response: *Confirmed*

Question 43: As per Annex 3 - Page 32. The required F5 support quantity is 6 as per this line "Support: 6 x Level 1-3 Premium Service for BIG-IP (24x7)", this mean that the required support is 6 years however the next line for RMA duration is only 3 years as per this line "Support: 3 x Next-Business-Day Hardware Replacement Service (RMA) for BIG-IP", please confirm the correct number of years?

EDC Response: *One year is required starting the date of handover with renewable support agreement for up to three years.*

Question 44: As per Annex 3 - Page 32. The required Cisco 40G network module is Fail-to-Wire interfaces as per line "Cisco FirePower 2 port 40G SR FTW Network Module", this FTW (Fail to wire interfaces usually used in case of Cisco Firepower appliances are deployed as an inline NGIPS and the current positioning is Datacenter Firewall, just confirm that this interfaces type is required.

EDC Response: *The existing is NGFW and the same interface is required.*

Question 45: Page 31 - TOR Switches Nexus C2348UPQ with NXOS Essential licenses, what will be connected to these switches from downstream and upstream?

EDC Response: *The downstream links are the management interfaces of the nodes, and the upstream links to the parent switches are the fabric interconnect.*

Question 46: Page 36 - What is the parent switch of OOB switches Nexus C2348UPQ?

EDC Response: *The parent switches are the fabric interconnect.*

Question 47: What workload "services" and Business requirements and use cases will be run on the required Azure Stack Servers?

EDC Response: *Specific technical data is not available. Offerors may make their own assumptions.*

Question 48: The service will be run on the stack will hype service or on-premises?

EDC Response: *Please refer to EDC response to Question 35.*

Question 49: The workload will be migrated from the Azure cloud to the new stack or will be migrated from other platforms? Or will be a new deployment?

EDC Response: *For the purposes of this RFP, Offerors may assume it will be migrated from the Azure cloud.*

Question 50: Page 32 - What is The Sizing sheet for the required hardware?

EDC Response: *Please refer to EDC response to Question 47.*

Question 51: Page 33 - What are Veeam backup sizing, design, scope, agent type, and retention policies?

EDC Response: *Please refer to EDC response to Question 47.*

Question 52: Page 34 - What is the Microsoft Monitoring Solution's need and sizing, design, and scope?

EDC Response: *Please refer to Section 1 "Annex 3 – Technical Specifications List" of this Modification 01.*

Question 53: Page 34 - Is service required to be 8X5 or 24X7?

EDC Response: *Please refer to Section 1 "Annex 3 – Technical Specifications List" of this modification.*

- *8x5xNBD support for all Cisco Products.*
- *24x7 support for Big-IP, Palo Alto Products and premier support for all Microsoft Products.*

Question 54: Page 34 - Is there any certification level required?

EDC Response: *Each Offeror is expected to propose their SLA which will be evaluated.*

Question 55: Page 34 - Is there minimum years of experience required?

EDC Response: *Please refer to EDC response to Question 54.*

Question 56: Page 34 - Can we provide this service remotely through Systems Support Center?

EDC Response: *Please refer to EDC response to Question 54.*

Question 57: Page 34 - For how many years the service will be required?

EDC Response: *Please refer to Section 1 "Annex 3 – Technical Specifications List" of this Modification 01.*

Question 58: Page 34 - Is there ITSM solution will be provided by customer?

EDC Response: *No.*

Question 59: Page 34 - Who will manage RMA cycle?

EDC Response: *Specific technical data is not available. Offerors may assume to manage RMA cycle.*

Question 60: Page 34 - Is there spares level will be maintained in customer's stock?

EDC Response: *No.*

Question 61: Page 34 - Who will manage non-cisco devices L1 support?

EDC Response: *Please refer to EDC response to Question 59.*

Question 62: Is there any certification level required?

EDC Response: *Please refer to EDC response to Question 54.*

Question 63: Is there minimum years of experience required (also for technical team engaged on the implementation)?

EDC Response: *There is no minimum years of experience specified. Refer to section G1.B in RFP "quote".*

Question 64: Is there was required on site attendance from PMO team through implementation phase?

EDC Response: *Yes.*

Question 65: H.1. Inspection and Testing of Datacenter - Please define the required license, SW, API, Web Services ...etc. that might be needed for the integration with the exiting network\equipment.

EDC Response: *For the purposes of this RFP, Offerors may assume their best practice deployment method.*

Question 66: H.1. Inspection and Testing of Datacenter - Please define the use case for the existing and new solution

EDC Response: *Please refer to EDC response to Question 47.*

Question 67: About the racks: the PDUs with the 2 mentioned racks and what type single or Three phase PDU ?

EDC Response: *No racks are needed.*

Question 68: Need to understand the backup design, scope, sizing, and policies.

EDC Response: *Please refer to EDC response to Question 47.*

Question 69: Need to understand prof. service scope of Microsoft Monitoring Solution (page 34), Is it part of Azure solution or on- premises setup.

EDC Response: *Please refer to Section 1 "Annex 3 – Technical Specifications List" of this Modification 01.*

Question 70: Regarding the data center firewalls, perimeter firewall, and the WAF, they will join an existing cluster, so they cannot be different appliance, unless it is supported to join the same cluster. Please confirm.

EDC Response: *Confirmed.*

Question 71: D.1 - Kindly confirm if the required Microsoft licenses are required in the scope of this RFP, or will it be provided through the Microsoft enterprise agreement.

EDC Response: *Microsoft licenses will be provided through the Microsoft Enterprise Agreement.*

Question 72: G2.1- Is it accepted regarding the offering and the payment to be in USD\$ as per the Offerors requests and due to the unavailability of the foreign currency, banks restrictions and the high forex variance?

EDC Response: *Please refer to EDC response to Question 19.*

Question 73: Annex 3 (Security) - In the BOQ, there is only one FTD4125, and no FMC. If there is existing Data Center Firewalls, we believe that the same FMC will be used to manage the cluster. Kindly confirm that no new FMC1600 is required, and the required quantity of the FTD4125 is one or two?

EDC Response: *No new FMC is required. Please refer to Section 1 "Annex 3 – Technical Specifications List" of this Modification 01.*

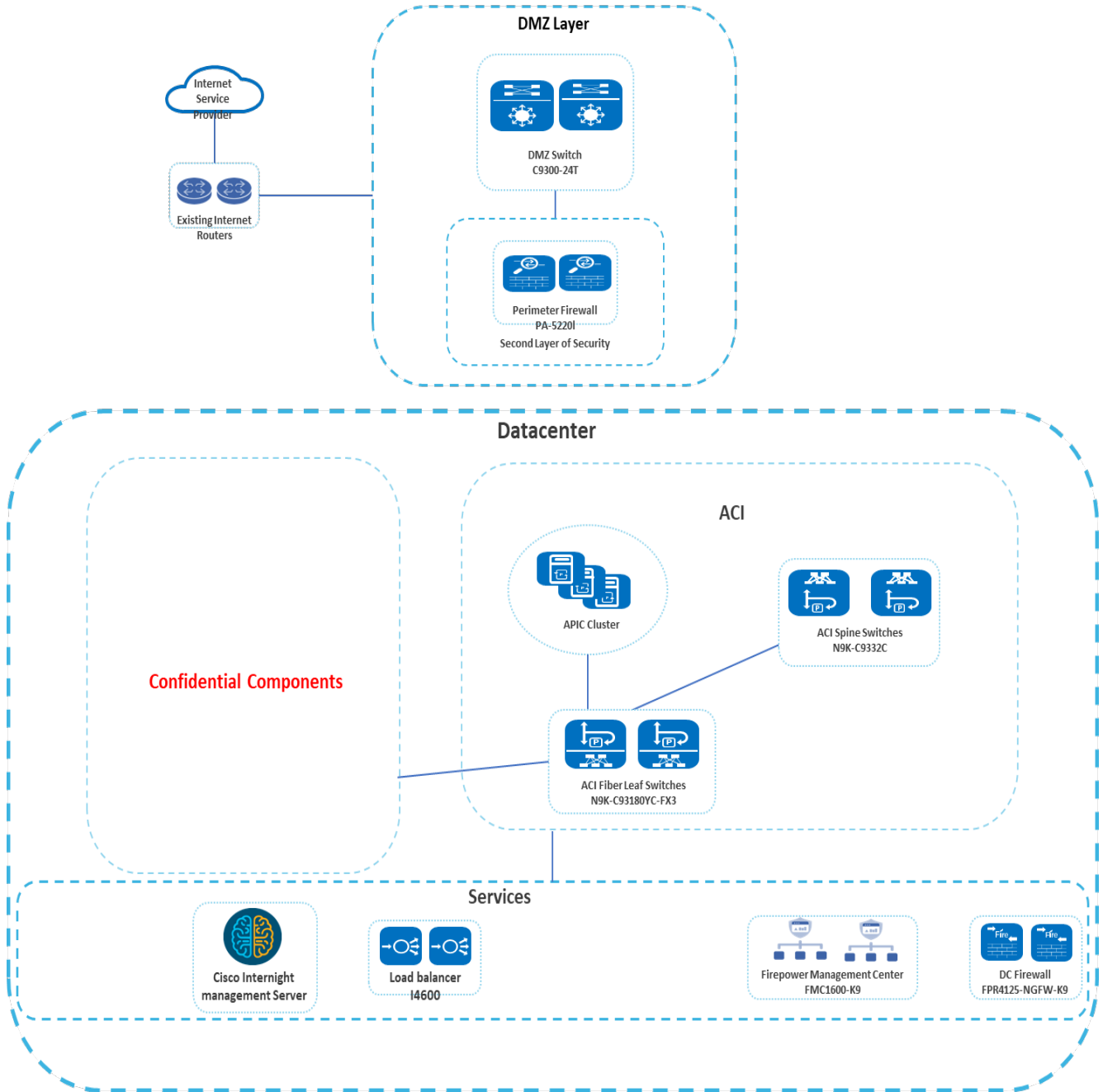
Question 74: Annex 3 (Security) - In the BOQ, there is only one PA-5220, which is mentioned that it will join an existing perimeter firewalls cluster. Kindly confirm that the required quantity of PA-5220 is one or two?

EDC Response: *The existing cluster consists of 2 x PA-5220, and the third firewall is required to be connected to this cluster.*

All other terms and conditions of the RFP remain the same.

Annex A

Ministry of Education Datacenter Architecture Design



The End