عطاء رقم 6/ل م/2020
توريد وتركيب وتشغيل أجهزة الحماية والشبكة الرئيسية وصيانتها
إعادة طرح

المواصفات:

Part #1
- Network and Servers Monitoring Solution:

1.1. Network Performance Monitor or OpManager.
1.2. NetFlow Traffic Analyzer or NetFlow Analyzer.
1.3. Network Configuration Manager.
1.4. Log Analyzer or Firewall Analyzer (Optional: separated price).

- **Professional training for four persons must be included.**
- **Only (ManageEgine and SolarWinds) are acceptable.**

* Note: Mu'tah University has:

1- Number of devices to monitor:
   - Edge Switch: 320
   - Core Switch: 2x2
   - Aggregation Switch: 22x2
   - Firewall: 2x2
   - UPS: 25
   - Servers: 60
2- Two uplinks (main and backup links).
3- Number of interfaces to monitor (Total): 900

Part #2.

- Bidder can submit two separated offers for both options.
- Bidder can submit offer for one option only.
- Mutah University will select only one option of this part, based on both technical and financial proposals.

Part #2. - Option #1
1. Juniper EX8208 Support Service: Qty (2)

- 3 years of both vendor and local support.
- A letter from the vendor shall support 3 years of vendor support.
- Support must include enabling the VPN service.
  - Support for EX8208 Chassis (includes PS, RE, SFB), and including the following modules on each chassis:
  - EX-LC-2XS-40T Qty:1
  - EX-LC8XS Qty:4
  - EX-LC-48TL Qty:1
  - EX-LC48F Qty:1
  - EX-XRE200 Qty:1

- Modules on both chassis equipped with the following total number of transvers:
  - 10G SFPs (50 SM + 6 MM) (for both Switches)

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- 1G SFPs (30 SM + 4 MM) (for both Switches)

2. Juniper SRX3400 Support Service: Qty (2)

- 3 years of both vendor and local support.
- A letter from the vendor shall support 3 years of vendor support.
- Support for SRX3400 Chassis (includes PS, SCB, RE), and including the following modules on each chassis:
  - SRX3k 2x10GE XFP Qty:4
  - SRX3-NPC Qty:4
  - SRX3-SPC Qty:6
- Modules on both chassis equipped with the following total number of transvers:
  - 10G SFPs (8 MM) (for both Devices)
  - 2 Cascade SFPs (for both Devices)

3. Fortinet 1200D Firewall Support Service: Qty (1)

- 3 years of both vendor and local support.
- A letter from the vendor shall support 3 years of vendor support.
- Support UTM Bundle (8x5 FortiCare plus NGFW, AV, Web Filtering and Antispam Service).

4. New Fortinet 1200D Firewall: Qty (1)

- Fortinet 1200D Firewall to be redundant for exist Internet Fortinet 1200D firewall.
- To insure the redundancy and the high availability, all required components, software, licenses, cables and SFPs should be included.

Part #2 - Option #2

- All items in this option is one lot and will not be divided between bidders.
- This part issued to acquire a set of new network hardware products that can support high throughput, scalability, reliability and security and Higher stacking capabilities as replacement to devices in Option #1.
- Bidder must provide hardware devices with equivalent or better specifications than each item in option #1 considering the technical specification including:
  - Interfaces and number of equipped transceivers.
  - Performance including Capacity, Throughput and number of Mac Addresses.
  - Features including Supported Protocols, Architecture and Security.
- Security Integration between Core switches and Firewalls must be implemented to insure the highest protection.

1. Core Switch: Qty (2)

- Equivalent specification or better than devices #1 in Option #1 unless specified below.
- Redundant Active /Active cores, with connection bandwidth to be min. (40 G) for high bandwidth and redundancy (core-to-core), and with all needed SFPs or cabling ,including all required SFP+ 10G transceivers or higher and cables to connect the two core switches.

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- Connection between core switches and aggregation or access switches must support active/active connection without using spanning tree.
- Support Layer 2, 3.
- Modular core switch with at least (6) I/O Non-blocking Slots, with (2) minimum empty slots for future expansion.
- Redundant management modules each with minimum 4 core CPU, 8GB RAM, and uses SSD or flash storage.
- Redundant hot swappable PSU, No. of PSUs based on best practice recommended by vendor.
- Redundant Fans, No. of Fans based on best practice recommended by vendor.
- Must support SDN and VXLAN (ready for future use – no licenses required).
- Must Support ACLs control on layer 2, 3, 4.
- The switch supports access, trunk.
- Min. 250k MAC address entries.
- Each switch should have:
  - 2 x 40G QSFP port minimum (for HA)
  - 32 x 10G SFP+ ports minimum.
  - 24 x 1G SFP+ ports minimum.
  - 8 x 1G copper ports minimum.
- Each switch should be equipped with :
  - 40G: 2 MM transceiver.
  - 10G: 25 SM and 7 MM transceiver.
  - 1G: 15 SM and 2 MM transceiver.
- At least 400 Gbps Per-slot switching capacity, full duplex, per switch.
- At least 8.5 Tbps switch capacity per switch.
- At least 4K supported VLANs.
- The switch must Support:

- RIPv1/v2	- OSPFv2/v3	- Static Routing	- IPv6
- SNMPV1/2/3	- RIPng	- STP, RSTP	- SSH
- IS-IS	- Telnet	- IGMPV1/2/3	- BGP

- Professional training for two person for installation and configuration should be included.
- Only (Juniper, Extreme, Huawei, Aruba and Cisco) brands will be accepted.
- Three years warranty and support (HW Replacement within next business day).

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2. NGFW Data Center Firewall: Qty (2)

- Equivalent specification or better than devices #2 in Option #1 unless specified below.
- Categorized as Data center firewall by vendor.
- High Availability; Active / Active and Active/Passive.
- At least 40Gbps Firewall Throughput.
- At least 7Gbps Threat Protection Throughput or NGFW Throughput.
- At least 5Gbps IPS Performance.
- At least 3 Million concurrent sessions.
- At least 170K connections/second.
- The following features and its licenses should be included.
  - Application Control.
  - Intrusion Detection and Prevention IPS License included.
  - SSL Inspection.
  - IPv4 and IPv6 (Static, RIP, OSPF) Routing Protocols.
  - Quality of Service (QoS)
  - Network Address Translation (NAT)
  - Port Address Translation (PAT)
  - Policy-based NAT/PAT
  - Support Layer 2, Layer 3 and Layer 7 Security.
  - Antivirus must be Included.
- At least 6 x 10G SFP/SFP+ ports with 4 SFP+ (MM) included per each FW.
- At least 2 UTP RJ-45 included per each FW.
- Two dedicated High availability ports per firewall.
- Redundant PSU, No. of PSUs based on best practice recommended by vendor.
- Redundant Fans, No. of Fans based on best practice recommended by vendor.
- Managed through (CLI, WebUI)
- Minimum 240GB SSD internal storage.
- All supported and available features, which requires extra license, should be listed and priced clearly and separately. (All licenses required to utilize every single available features even if not listed in the above specifications).
- Professional training for two person should be included.
- Only (Juniper, Palo Alto, Huawei, Fortinet and Cisco) brands will be accepted.
- Three years warranty and support (HW Replacement within next business day).

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3. NGFW Internet/Edge Firewall: Qty (2)

- Equivalent specification or better to devices #3 and #4 in Option #1 unless specified below.
- Preferable to be different brand than DC firewall.
- High Availability; Active / Active and Active/Passive.
- At least 10Gbps Firewall Throughput.
- At least 4Gbps Threat Protection Throughput or NGFW Throughput.
- At least 6Gbps IPS Performance.
- At least 1Million concurrent sessions.
- At least 200K connections/second.
- The following features and its licenses should be included.
  - Application Control.
  - IPsec VPN.
  - Support Remote Access VPN and VPN Tunnel for future use.
  - Intrusion Detection and Prevention IPS License included.
  - SSL Inspection.
  - IPv4 and IPv6 (Static, RIP, OSPF) Routing Protocols.
  - Quality of Service (QoS)
  - Network Address Translation (NAT)
  - Port Address Translation (PAT)
  - Policy-based NAT/PAT
  - Support Layer 2, Layer 3 and Layer 7 Security.
  - Antivirus and Antimalware must be Included.
  - Web/URL Filtering based on time, user, application protocol, IP address, URL category, VLAN and contents.
- At least 4 x 10G SFP/SFP+ ports with 4 SFP+ included per each FW.
- At least 8 UTP RJ-45 included per each FW.
- Two dedicated High availability ports per firewall.
- Redundant PSU, No. of PSUs based on best practice recommended by vendor.
- Redundant Fans, No. of Fans based on best practice recommended by vendor.
- Managed through (CLI, WebUI)
- Minimum 240GB SSD internal storage.
- All supported and available features, which requires extra license, should be listed and priced clearly and separately. (All licenses required to utilize every single available features even if not listed in the above specifications).
- Professional training for two person should be included.
- Only (Juniper, Palo Alto, Huawei, Fortinet and Cisco) brands will be accepted.
- Three years warranty and support (HW Replacement within next business day).

General information:

- This tender is not funded by any donor.
- All items will be installed inside Mutah University Data Center.
- Part #1 and Part #2 are totally separated and tender parts can be assigned to different companies.
- Welcome to make site survey (Optional).

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General terms & conditions:

- The proposal should include the following:
  - Contract Drafts for Option 1 in Part 2 including:
    - Response time for problem call, problem solving, solving software/configuration support call and response time for (hardware/software) failure.
    - Actions that will be taken during (hardware/software) failure.
    - Response time for failed hardware
    - preventive Maintenance
  - Commitment to providing “as built drawing”, administrator guide, and project documentation.
  - Commitment to providing vendor-to-client support account for online ticketing and support.
  - BoQ, Prices and comply sheet must be filled as per appendix #1.
    - Unit price must **NOT** include any tax, The tax must be added to the total of each item.
    - Detailed BoQ for all Items must be part of the technical proposal.
    - Detailed compliance sheet must be part of the technical proposal.
    - Prices for training and installation should be separated and clear.
    - All required licenses during warranty time must be included.
  - A letter from vendor to guaranty that support service for each proposed product and all its components (Hardware, Software and Licenses) will be available for min. 3 years after warranty ends including all updates, upgrade, fixes and security patches.
- The bidder must be:
  - Authorized partner by vendors for all components included in the project.
  - An official document of authorization or partnership must be included within the proposal. Otherwise, the offer will be excluded.
  - Familiar with similar projects, and have a reference list for similar projects.
  - Must have at least two certified professionals for each product (technical certificates should be provided).
- For all required training, each training must be conducted for two persons prior to the deployment.
- University will not allow the implementation of any item before or during training for all items that the company will provide.
- All training material for the provided courses must be original and provided during the training.
- For all required training, Instructor must be professional certified for the product he will train (not necessarily trainer certified).
- At least one of Mutah University staff must participate in the installation and configuration process.
- All item’s warranty must be supported by the vendor for min. 3 years, including licenses and warranty for all devices, hardware and software components including any software upgrade, update, security patches and fixes and must support hardware replacement within next business day.
- During the warranty period, the company should provide all required spare parts free of charge.
- All connectivity between new devices and all connected devices are bidder responsibility.
- All migration processes from old device to new devices are bidder responsibility.
- Installation, Configuration, labeling, Testing and all needed re-cabling should be included.
- Products and all its components (Hardware, Software and Licenses) must **NOT** be end-of-life, end-of-sale or end of support.
- Dates of (end-of-life, end-of-sale and end-of-support) for each proposed product and all its components (Hardware, Software and Licenses) must **NOT** be announced yet.
- Bidder must provide reference sites where similar devices were installed; the reference information must include the device model, date of installation and contact person details.

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Appendix 1: BoQ, Comply and pricing table.

Part	Opt	Item	Part num.	Item	Qty	Unit	Brand	Model	Brand origin	Item comply Yes/No	Unit Price	Total Price	Sales Tax	Grand total price	Part total price
1	--	1.0.1		Network Performance Monitor / OpManager											
				Training	2	Seats									
				NetFlow Traffic Analyzer / NetFlow Analyzer											
				Training	2	Seats									
				Network Configuration Manager											
				Training	2	Seats									
				Log Analyzer / Firewall Analyzer											
				Training	2	Seats									
				Installation & Configuration	1	Service									
2	1	2.1.1		Juniper EX8208 Support Service	2	Device	N/A								
				Licenses											
				Warranty/Support for 3 years	1	SLA									
		2.1.2		Juniper SRX3400 Support Service	2	Device	N/A								
				Licenses											
				Warranty/Support for 3 years	1	SLA									
		2.1.3		Fortinet 1200D Firewall Support Service	1	Device	N/A								
				Licenses											
				Warranty/Support for 3 years	1	SLA									
		2.1.4		New Fortinet 1200D Firewall	1	Device	Fortinet	1200D							
				Licenses											
				Warranty/Support for 3 years	1	SLA									
				Installation & Configuration	1	Service									
				Training	2	Seats									
	2	2.2.1		Core Switch	2	Device									
				Licenses											
				Warranty/Support for 3 years	1	SLA									
				Installation & Configuration	1	Service									
				Training	2	Seats									
		2.2.2		NGFW Data Center Firewall	2	Device									
				Licenses											
				Warranty/Support for 3 years	1	SLA									
				Installation & Configuration	1	Service									
				Training	2	Seats									
		2.2.3		NGFW Internet/Edge Firewall	2	Device									
				Licenses											
				Warranty/Support for 3 years	1	SLA									
				Installation & Configuration	1	Service									
				Training	2	Seats									

* For licenses: if more than one please add rows as needed to list and price all of them separately.
* For not offered items, please fill the price by "N/A"
* For free items, please fill the price by zero.

Appendix 2: Next 3 Years after warranty price list.

Part	Opt.	Item	Part num.	Item	Qty	Unit	Unit Price	Total Price	Sales Tax	Grand total price
1	--	1.0.2		Network Performance Monitor / OpManager						
				NetFlow Traffic Analyzer / NetFlow Analyzer						
				Network Configuration Manager						
				Log Analyzer / Firewall Analyzer						
2	1	2.1.1		Juniper EX8208 Support Service	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				
		2.1.2		Juniper SRX3400 Support Service	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				
		2.1.3		Fortinet 1200D Firewall Support Service	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				
	2	2.2.1		Core Switch	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				
		2.2.2		NGFW Data Center Firewall	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				
		2.2.3		NGFW Internet/Edge Firewall	2	Device				
				Licenses						
				Warranty/Support for 3 years	1	SLA				

* For licenses: if more than one please add rows as needed to list and price all of them separately.
* For not supported items, please fill the price by "N/A".
* For free items, please fill the price by zero.
* Please fill the fields that match the offered items in Appendix 1.