

EXHIBIT A
UOG BID NO. B26-19

UOG JUNIPER NETWORK EQUIPMENT OR APPROVED EQUAL AND WIRELESS ACCESS POINTS

BID SPECIFICATIONS OR EQUIVALENT

1. Project Overview

The University seeks proposals from qualified vendors to supply, deliver, configure Juniper network equipment or approved equivalent that will integrate with existing Juniper infrastructure and be managed through the University's current Juniper Mist Cloud with Marvis AI platform. The scope will include wired and wireless infrastructure in its new buildings, supporting scalable, secure, and high-performance connectivity.

Award will be made to the lowest responsive and responsible bidder whose submission meets the technical, compatibility, warranty, and delivery requirements of this solicitation.

2. Brand Name or Equal Specification

The equipment identified in this solicitation references Juniper Networks products as the baseline standard of quality, functionality, interoperability, and compatibility required by the University.

Bidders proposing products other than the referenced Juniper Networks equipment shall clearly identify all proposed substitutions and provide complete supporting documentation demonstrating compliance with all required specifications and compatibility requirements.

The University shall be the sole judge in determining whether a proposed "equal" product meets the requirements of this solicitation.

Any costs associated with additional licensing, migration, implementation, interoperability modifications, retraining, or infrastructure changes necessary to support a proposed equivalent solution shall be fully disclosed within the bid submission and included in the Bid Price Form.

Equivalent products may be proposed provided the bidder demonstrates, to the sole satisfaction of the University, that the proposed solution:

- Meets or exceeds all stated specifications;
- Is fully compatible with the University's existing Juniper Mist Cloud infrastructure;
- Supports existing management, monitoring, automation, and NAC configurations;
- Does not require substantial redesign or replacement of existing infrastructure;
- Does not result in additional licensing, migration, training, implementation, or operational costs to the University.

Failure to provide sufficient technical documentation demonstrating equivalency may result in the bid being deemed non-responsive.

Failure to disclose such requirements may result in rejection of the proposed equivalent product or require the Contractor to absorb such costs at no additional cost to the University.

3. MINIMUM BIDDER REQUIREMENTS

Bidders shall:

- Be authorized resellers, distributors, or partners of the proposed equipment manufacturer;
- Demonstrate experience with enterprise network infrastructure deployments;

- Demonstrate experience with Juniper Mist cloud-managed environments or equivalent cloud-managed enterprise networking platforms;
- Provide manufacturer-certified technical personnel for implementation and support;
- Have the capability to provide warranty support, replacement services, and technical assistance.
- Manufacturer authorization letters;
- Technical certifications;
- Past performance references;
- Evidence of successful enterprise deployments

4. REQUIRED BID SUBMITTALS

Bidders shall provide the following with their bid submission:

a. Technical Proposal

Including:

- Manufacturer name;
- Model numbers;
- SKUs;
- Detailed technical specifications;
- Product brochures;
- Datasheets;
- Cloud licensing information;
- Warranty information;
- Support coverage details;
- Compatibility confirmation with existing Juniper Mist infrastructure;
- Power requirements;
- Rack mounting requirements;
- Network topology recommendations (if applicable).

b. Capabilities Statement

Including:

- Company background;
- Years of experience;
- Relevant project experience;
- Technical certifications;
- Staffing capabilities;
- Support capabilities;
- Guam/local support presence (if applicable).

c. Product Literature

Bidder shall provide:

- Official manufacturer datasheets;
- Technical specification sheets;
- Product brochures;
- Compatibility matrices;
- Warranty documentation;

- Subscription/service descriptions.

d. Exceptions Sheet

Bidders shall clearly identify any deviations, substitutions, exceptions, or alternate solutions proposed. Failure to disclose deviations may result in rejection of substituted equipment after award at no additional cost to the University.

5. RESPONSIVENESS REQUIREMENTS

To be considered responsive, bids must:

- Include all required bid forms;
- Include complete pricing;
- Include technical specifications and product literature;
- Demonstrate compliance with minimum specifications;
- Include required warranties and subscriptions;
- Include required support services;
- Include compatibility confirmation;
- Include all required licenses and cloud subscriptions;
- Include delivery lead times;
- Include acknowledgment of all amendments.

Failure to provide required technical documentation may result in the bid being deemed non-responsive.

6. RESPONSIBILITY REQUIREMENTS

To be considered responsible, bidders must demonstrate:

- Technical capability;
- Manufacturer authorization;
- Adequate staffing;
- Relevant experience;
- Ability to meet delivery schedules;
- Ability to provide post-installation support;
- Ability to provide warranty services.

The University reserves the right to request additional information to determine bidder responsibility.

Award shall be made to the lowest responsive and responsible bidder whose bid conforms to the requirements and specifications set forth in this Invitation for Bids and is determined to be in the best interest of the University.

The University reserves the right to evaluate:

- Compliance with minimum technical specifications;
- Compatibility with existing University infrastructure;
- Compliance with Juniper Mist Cloud integration requirements;
- Delivery schedule;
- Warranty and support coverage;
- Bidder qualifications and experience;
- Completeness of bid submission;
- Technical equivalency of proposed “equal” products.

For “equal” products, the University may evaluate:

- Integration compatibility;
- Migration complexity;
- Operational impacts;
- Additional licensing requirements;
- Additional implementation costs;
- Feature equivalency;
- Network management compatibility;
- Security functionality;
- Long-term operational supportability.

Failure to sufficiently demonstrate equivalency may result in the bid being deemed non-responsive.

7. Network Equipment Requirements

Vendors must quote the following Juniper Networks compatible hardware and software components or equivalent.

All equipment must be managed and supported by UOG's existing Juniper Mist portal.

All equipment must come complete with rackable railings and power cables.

MIST Cloud capable:

- All switches shall be cloud-native, Mist AI-driven switches
- Mist cloud remote management and monitoring capable
- Mist cloud automated provisioning via Mist cloud
- Mist cloud backup and restore
- Mist cloud centralized firmware and software updates

A. Juniper EX4400 Fiber Aggregation Switch – Stackable to existing EX4400 switch

Model/SKU: EX4400-24X

Specifications:

- 24 x 1/10GbE SFP+ ports
- 4 x 25GbE uplink ports module
- 2 x 550 watt AC power supply (dual)
- Virtual Chassis (stacking support – up to 10 units as a single logical device)
- Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN)
- Advanced Layer 2 and Layer 3 features
- Extension Module slot
- MACsec AES256
- Mist AI-enabled support
- High Availability – Redundant, hot-swappable power supplies
- Redundant, field-replaceable, hot-swappable fans
- Graceful protocol restart (OSPF, BGP)
- Flow-based telemetry, Redundant trunk group (RTG)
- Power supplies are fully redundant, load-sharing, and hot-removable and hot-insertable field-replaceable units (FRUs) when the second power supply is installed and running. You can remove and replace either one of the power supplies without powering off the switch or disrupting switch functions.
- complete and can be powered on

- 3 years MIST Wired assurance & Virtual Network Assistance + JTAC CareCore Support – SUBEX24-2S-3Y-COR

B. Juniper EX4100 Switches – Stackable to existing EX4100 access switches

https://www.hpe.com/psnow/doc/a00150781enw?jumpid=in_pdfviewer-psnow

B.1. Model: EX4100-48MP (PoE+) - SKU: EX4100-48P**Specifications:**

- 48 x 1GbE PoE+ ports (30 W by default)
- 4 x 10GE/25GE SFP28 Virtual Chassis ports
- 4 x 1GE/10GE SFP+ MACsec-enabled uplink ports
- Virtual Chassis (stacking support – up to 10 units as a single logical device)
- Voice VLAN, Private Vlan
- Mist AI integration
- Port-based VLAN
- Voice VLAN
- Private Vlan (PVLans)
- Persistent MAC learning (sticky MAC)
- Media Access Control (MAC) limiting (per port and per VLAN)
- Dynamic Address Resolution Protocol (ARP) dynamic ARP inspection (DAI)
- IP source guard
- Local proxy ARP
- Static ARP support
- Dynamic Host Configuration Protocol (DHCP) snooping
- Persistent MAC address configurations
- Distributed denial of service (DDoS) protection (CPU control path flooding protection)
- IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: Number of LAGs supported: 128, Maximum number of ports per LAG: 8
- 802.1X port-based
- 802.1X multiple supplicants
- 802.1X with VLAN assignment
- 802.1X with authentication bypass access (based on host MAC address)
- 802.1X with VoIP VLAN support
- 802.1X dynamic ACL based on RADIUS
- Low-noise model options
- 920W AC power supply with the AIR OUT label
- complete and can be powered on
- 3 years MIST Wired assurance & Virtual Network Assistance + JTAC CareCore Support – SUBEX48-25S-3Y-COR

B.2 Model: EX4100-24MP (PoE+)

Model: EX4100-24P (PoE+)

SKU: EX4100-24P

Specifications:

- 24 x 1GbE PoE+ ports (30 W by default)
- 4 x 10GE/25GE SFP28 Virtual Chassis ports
- 4 x 1GE/10GE SFP+ MACsec-enabled uplink ports.
- Virtual Chassis (stacking support)
- Mist AI integration
- Port-based VLAN
- Voice VLAN
- Private Vlans (PVLans)
- Persistent MAC learning (sticky MAC)
- Media Access Control (MAC) limiting (per port and per VLAN)
- Dynamic Address Resolution Protocol (ARP) dynamic ARP inspection (DAI)
- IP source guard
- Local proxy ARP
- Static ARP support
- Dynamic Host Configuration Protocol (DHCP) snooping
- Persistent MAC address configurations
- Distributed denial of service (DDoS) protection (CPU control path flooding protection)
- IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: Number of LAGs supported: 128, Maximum number of ports per LAG: 8
- 802.1X port-based
- 802.1X multiple supplicants
- 802.1X with VLAN assignment
- 802.1X with authentication bypass access (based on host MAC address)
- 802.1X with VoIP VLAN support
- 802.1X dynamic ACL based on RADIUS
- Low-noise model options
- 920W AC power supply with the AIR OUT label
- complete and can be powered on
- 3 years, Wired Assurance / VNA, Core Support – SUB-EX24-2S-3Y-COR

C. EX4000 POE+ Switches**C.1 Model: EX4000-48MP (PoE+)**

SKU: EX4000-48P

<https://www.hpe.com/us/en/collaterals/collateral.a00150799enw.html>

Specifications:

- 48 x 1GbE PoE+ ports (30 W by default)
- 2 x 10GE Virtual Chassis ports
- 2 x 10GE SFP+ uplink ports
- Virtual Chassis - (stacking support – up to 6 units as a single logical device)
- Mist AI integration
- Port-based VLAN
- Voice VLAN

- Private Vlans (PVLans)
- Persistent MAC learning (sticky MAC)
- Media Access Control (MAC) limiting (per port and per VLAN)
- Dynamic Address Resolution Protocol (ARP) dynamic ARP inspection (DAI)
- IP source guard
- Local proxy ARP
- Static ARP support
- Dynamic Host Configuration Protocol (DHCP) snooping
- Persistent MAC address configurations
- Distributed denial of service (DDoS) protection (CPU control path flooding protection)
- IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: Number of LAGs supported: 128, Maximum number of ports per LAG: 8
- 802.1X port-based
- 802.1X multiple supplicants
- 802.1X with VLAN assignment
- 802.1X with authentication bypass access (based on host MAC address)
- 802.1X with VoIP VLAN support
- 802.1X dynamic ACL based on RADIUS
- Low-noise model options
- complete and can be powered on
- 3 years MIST Wired assurance & Virtual Network Assistance + JTAC CareCore Support – SUBEX48-25S-3Y-COR

C.2 Model: EX4000-24MP (PoE+)

SKU: EX400-24P

Specifications:

- 24 x 1GbE PoE+ ports (30 W by default)
- 2 x 10Gbps SFP+ Virtual Chassis ports
- 2 x 1/10GE SFP+ uplink ports.
- Virtual Chassis - (stacking support – up to 6 units as a single logical device)
- Mist AI integration
- Port-based VLAN
- Voice VLAN
- Private Vlans (PVLans)
- Persistent MAC learning (sticky MAC)
- Media Access Control (MAC) limiting (per port and per VLAN)
- Dynamic Address Resolution Protocol (ARP) dynamic ARP inspection (DAI)
- IP source guard
- Local proxy ARP
- Static ARP support
- Dynamic Host Configuration Protocol (DHCP) snooping
- Persistent MAC address configurations
- Distributed denial of service (DDoS) protection (CPU control path flooding protection)
- IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: IEEE 802.3ad: Link Aggregation Control Protocol
- 802.3ad (LACP) support: Number of LAGs supported: 128, Maximum number of ports per LAG: 8
- 802.1X port-based
- 802.1X multiple supplicants

- 802.1X with VLAN assignment
- 802.1X with authentication bypass access (based on host MAC address)
- 802.1X with VoIP VLAN support
- 802.1X dynamic ACL based on RADIUS
- Low-noise model options
- complete and can be powered on
- complete and can be powered on
- 3 years, Wired Assurance / VNA, Core Support – SUB-EX24-2S-3Y-COR

D. Transceivers and Stacking Accessories

Proposed transceivers and Stacking Accessories shall be compatible with the proposed switches

D.1 10G SFP+ Transceivers – Single-Mode fiber (SMF)

D.2 Stacking Cables for switches

E. Wireless Access Point

SKU/Model: AP45-WW

<https://www.juniper.net/content/dam/www/assets/datasheets/us/en/access-points/ap45-datasheet.pdf>

Specifications:

- Wi-Fi 6E 802.11ax (Wi-Fi 6E) 4x4:4
- 802.11ax (Wi-Fi 6), including support for OFDMA, 1024-QAM, MUMIMO, Target Wake Time (TWT), Spatial Frequency Reuse (BSS Coloring)
- 2.4 GHz: 4x4:4 802.11ax up to 1,148 Mbps data rate
- 5 GHz: 4x4:4 802.11ax up to 2,400 Mbps data rate
- 6 GHz: 4x4:4 802.11ax up to 4,800 Mbps data rate
- Backwards compatibility with 802.11a/b/g/n/ac
- MIMO: Four spatial stream SU-MIMO for up to 4,800 Mbps wireless data rate to individual 4x4 HE160. Four spatial stream MU-MIMO for up to 4,800 Mbps wireless data rate to up to four MU-MIMO capable client devices simultaneously
- Bluetooth 5.1
- Mounting brackets (ceiling mount)
- Wireless Assurance – SKU: SUB-MAN3Y

F. Network Managed UPS

Specifications:

- 1500VA UPS with Network card
- network managed
- installed in network cabinet

G. Juniper Mist Cloud Services

Specifications:

- Mist with Marvis Virtual Network Assistant
- Subscription-based cloud dashboard
- AI-driven root cause analysis
- Telemetry-based monitoring and automated event correlation

H. Juniper Network Access Control (NAC)

Specifications:

- Quantity: 3,000 clients

- Model: S-CLIENT-S-3
- Juniper Mist Edge (for NAC functionality)
- Integration with 802.1X, RADIUS, and network policy enforcement
- Secure onboarding and role-based access

8. Enhanced Limited Lifetime Warranty

The equipment includes an enhanced limited lifetime hardware warranty that provides return-to-factory replacement for as long as the original UOG owns the product. The warranty includes lifetime software updates, advanced shipping of spares within one business day, and 24x7 Juniper Networks Technical Assistance Center (JTAC) support for 90 days after the purchase date.

Equivalent products must provide warranty and support coverage equal to or greater than the referenced Juniper support services.

9. Integration Requirements

Scope:

- All network hardware must integrate with the University's existing Juniper infrastructure and is fully managed using the Juniper Mist Cloud with Marvis AI.
- Vendors must confirm that the new switches will be:
- Stackable with existing EX-series switches (VC support required)
- Compatible with Mist AP templates and NAC profiles
- Equipment must support at a minimum:
- Stacking with EX4000/EX4100/EX4400 in the same family
- Secure management interfaces

10. Documentation and Deliverables

The awarded Contractor shall provide:

a. Equipment Deliverables

- All network equipment;
- Wireless access points;
- Cloud licenses/subscriptions;
- Mounting hardware;
- Stacking cables;
- Transceivers;
- Power supplies;
- Accessories.

b. Documentation Deliverables

- **Company Capabilities**
- Network equipment inventory list;
- Serial number documentation;
- Warranty documentation;
- Licensing/subscription documentation;
- Technical support contact information;
- Installation documentation;
- Configuration backup files;
- AP mounting photos;
- Port patching documentation;
- Test results and verification reports.
- **Estimated delivery schedule**

All equipment shall be delivered new, unused, and in original manufacturer packaging.

Equipment shall be complete, fully operational, and ready for deployment upon delivery.

Partial shipments must be coordinated with and approved by the University.

11. References and Technical Resources

- i. Juniper EX4400 Series Switches:
<https://www.hpe.com/psnow/doc/a00150783enw>
- ii. Juniper EX4100 Series Access Switches:
<https://www.hpe.com/psnow/doc/a00150781enw>
- iii. Juniper EX4000 Series Access Switches:
<https://www.hpe.com/us/en/collaterals/collateral.a00150799enw.html>
- iv. Juniper Mist Cloud and Marvis AI:
<https://www.hpe.com/us/en/mist-ai.html>

<https://www.mist.com/resources/mist-marvis-overview/>
- v. Juniper Mist Access Assurance (NAC):
<https://www.juniper.net/documentation/us/en/software/mist/mist-access/topics/concept/mist-nac-overview.html>

<https://www.hpe.com/psnow/doc/a00150852enw>
- vi. Juniper Transceivers and Optics Compatibility:
https://www.juniper.net/documentation/en_US/release-independent/junos/information-products/pathway-pages/ex-series/ex-optics.html

The University reserves the right to reject any proposed equal product determined not to be in the best interest of the University.

EXHIBIT B
UOG BID NO. B26-19

UOG JUNIPER NETWORK EQUIPMENT OR APPROVED EQUAL AND WIRELESS ACCESS POINTS

1. Bid Submittals:
 - a) Bid prices shall be submitted on the Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional costs not stated in this bid but are required to complete the delivery and installation of the product and/or services must be included in the bidder's price.
 - b) Bidder shall submit an electronic file with the copy of the bid security included. One (1) original file of copy submitted electronically, and original bid security will need to be receipted at UOG procurement office before the bid deadline.

Bid award to be based on the required items in EXHIBIT A and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package.

OTHER NOTES:

1. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
2. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

Item	Description	Approved Manufacturer	Model/SKU	Qty	Unit Price	Extended Price
EX4400-24X				2		
EX4100-48MP				4		
EX4100-24MP				4		
EX4000-48MP				4		
EX4000-24MP				3		
AP45-WW				114		
NAC Licenses				3,000		
Transceivers				16		
Stacking Cables EX4400-24X (Supports 100G & 40G)				2		
Stacking Cables EX4100 series (Supports 10/25GbE)				4		
Stacking Cables EX4000 series (Supports 1/10GbE)				4		
GRAND TOTAL: \$						

APPROVED EQUAL DISCLOSURE

If proposing an “Approved Equal” product, Bidder shall identify all deviations from the referenced specifications below.

Referenced Item	Proposed Equal Product	Deviations from Referenced Specifications	Licensing Required	Infrastructure Required
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Failure to disclose deviations, licensing requirements, migration requirements, interoperability limitations, or additional implementation requirements may result in rejection of the proposed equivalent product or require the Contractor to absorb such costs at no additional cost to the University.

BIDDERS ACKNOWLEDGMENT (PRINT, SIGN & DATE)

OPTIONS

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to exercise any or part of the options requested. Insert any additional options recommended.

Table 2.0 Options

Optional Items	Unit Price
EX4400-24X	
EX4100-48MP	
EX4100-24MP	
EX4000-48MP	
EX4000-24MP	
AP45-WW	
NAC Licenses	
Transceivers	
Stacking Cables EX4400-24X (Supports 100G & 40G)	
Stacking Cables EX4100 series (Supports 10/25GbE)	
Stacking Cables EX4000 series (Supports 1/10GbE)	
Uninterruptible Power Supply	