

**Forest Municipal School District**  
**325 Cleveland Street**  
**Forest, MS 39074**

ERATE Internal Connections

Forest Municipal School District will accept sealed bids from qualified E-Rate vendors with Service Provider Identification Numbers (SPIN) assigned by USAC. Interested parties shall submit a proposal to the district 9am, February 26, 2024. This application is for an upgrade to the existing access points, for Forest Municipal School District. Please submit all questions by email to Tim Ringo at [tringo@forest.k12.ms.us](mailto:tringo@forest.k12.ms.us). The Forest Municipal District seeks the lowest and best bid on current standardized equipment to improve the school's infrastructure.

**Proposal should be clearly labeled on the outside of the package and delivered to:**

Forest Municipal School District  
RFP ACCESS POINTS 24-25  
305 Cleveland Street  
Forest, MS 39074

Forest Municipal School District prefers that responding vendors have an office or other physical place of business within a range of 150 miles of the district location. This preference is in support of responding time for repairs and support of the proposed solutions.

No Mandatory Walk-Through. You may contact via email Tim Ringo at [tringo@forest.k12.ms.us](mailto:tringo@forest.k12.ms.us) to request a walk-through.

**1. SCOPE OF PROJECT**

Forest Municipal School District is seeking to purchase upgraded Extreme Access Points and modules to replace end-of-life equipment. FCSD currently uses Extreme access points, and switches in its network, and aims to use equipment that is totally compatible with the current infrastructure. An alternative equal brand name will also be acceptable for ERATE bidding, and the proposed alternative equipment must be totally compatible and manageable in the Extreme Cloud IQ environment. Responses are to include pricing for all of the requested items.

**2. PROPOSAL CONTENT**

The information provided herein is intended to assist proposers to respond properly to this RFP. FCSD believes that this RFP provides interested proposers with sufficient information to submit proposals that meet minimum requirements. However, it is not intended to limit a proposal's

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content or to exclude any relevant or essential data therefore. Proposers are encouraged to include additional information that will substantiate their service capabilities, product quality, and support commitment. Any exceptions or alternate offerings to this request must be addressed by the proposer in their proposal. FCSD reserves the sole right to determine what is considered to be "equivalent" or "equal". FCSD also reserves the right to request samples for testing and evaluation.

**Must provide an indoor access point with the following specs at a minimum**

- Advanced Radio Technology: Tri-Radio Design •2.4 GHz (2x2:2) •5 GHz (2x2:2) •6 GHz (2x2:2)
- Mode 1: 2.4 GHz/5 GHz/6 GHz Data Radios •Mode 2: 2.4 GHz/5GHz Data radios + Tri-frequency band sensor (2.4 GHz/5 GHz/6 GHz)
- Universal Hardware Platform •Cloud: ExtremeCloud™ IQ •On-Premises: ExtremeCloud IQ Controller Superior Tri-Frequency Radio Performance
- Multi-band filter reduces interference and enables 5 GHz and 6 GHz operation
- Multi-band functionality out-of-the-box without a software or hardware upgrade Cellular Coexistence Filter (CCF)
- Minimizes the impact of interference from cellular networks Fully Functional over 802.3at Smart Management Choices
- ExtremeCloud IQ for public, private, and ExtremeCloud Edge cloud management capabilities ExtremeCloud IQ C, IP subnet, IP address, IP protocol type, IP Type of Service (ToS), differentiated services code point (DSCP), and TCP/UDP port
- Eth0, Eth1: (2) Wired Ethernet ports (RJ-45) (1) 100/1000/2500Mbps auto-sensing link speed Ethernet port, POE 802.3at (1) 10/100/1000 Mbps auto-sensing link speed Ethernet port 802.3az Energy Efficient Ethernet (EEE) USB 2.0, Type A, 5V/500mA
- (2) Integrated single band, 5.925-7.125 GHz omnidirectional antennas (2) Integrated dual band, 2.4-2.5 GHz and 5.1-5.8 GHz omnidirectional (2) Integrated dual band, 2.4-2.5 GHz and 5.1-5.8 GHz omnidirectional for sensor (1) Integrated dual band, 2.4-2.5 GHz omnidirect
- IEEE 802.3at PoE Power
- Connectivity Wi-Fi CERTIFIED 6™ Wi-Fi CERTIFIED™ a,b, g, n, ac Enhanced Open Optimization WMM® Wi-Fi Agile Multiband™ Security Protected Management Frames WPA™ – Enterprise, Personal WPA2™ – Enterprise, Personal WPA3™ – Enterprise, Personal
- Universal and World SKU Wi-Fi 6E Wireless Access point that can run multiple Extreme operating systems for on-premises or cloud deployments.
- Wi-Fi 6E access point, with three 2x2:2 radios, high-efficiency, high-performance 802.11ax aggregate data rates up to 3.9 Gbps in the 6 GHz, 5 GHz, and 2.4 GHz band.

**Must provide an outdoor access point with the following specs at a minimum**

- Advanced Radio Technology Tri-Radio Design •5GHz 4x4:4 •2.4GHz 2x2:2 •2.4GHz/5 GHz/Sensor
- Multiple Radio Modes - SSR •2.4 GHz/5 GHz/Sensor (2.4GHz/5GHz) •5GHz/5 GHz - Dual 5 GHz
- Universal Hardware Platform •On-Premises: WiNG OS (Distributed), ExtremeCloud™ IQ Controller (Centralized) •Cloud: ExtremeCloud IQ
- High Density Environments •Delivers exceptional end-user experience even in the densest user environments
- includes the latest WPA3 Wi-Fi security standard delivering robust protections for users and IoT devices
- Fully Functional over 802.3at Cellular Coexistence Filter (CCF) Designed for Harsh Environments • IP67 Outdoor Rated •Extended temp range -40°C to +60°C

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- Smart Management Choices •ExtremeCloud IQ for powerful, simple, and secure public or private cloud management •ExtremeCloud IQ Controller or VX/NX controllers ideal for on-premises requirements
- Optional ExtremeCloud IQ visibility supported via on-premises controller
- 100/1000/2500 Mbps auto-negotiation Ethernet port, RJ45 PoE (Power over Ethernet 802.3at) Port • 10/100/1000 Mbps auto-negotiation Ethernet port, RJ45
- 2.4–2.5 GHz and 5.150–5.850 GHz Operating Frequency • 802.11ax Modulation (1024-QAM) • Dual-band OFDMA • Rates (Mbps): ◦ 5G: HE0-HE11 (8 Mbps – 4800 Mbps) ◦ 2.4G: HE0-HE11 (8Mbps – 574 Mbps) • 4x4:4 Stream Multiple-In, Multiple-Out (MIMO) Radio • HE20/HE40/HE80/HE160 support for 5 GHz • HE20/HE40 support for 2.4 GHz • DL SU-MIMO and MU-MIMO • TxBF (Transmit Beamforming)

**Recommended number of access points and materials:**

- The following access points will be a one to one replacement. The cost of installation and configuration of the access points will need to be included, however cabling is already in place.
- Please include unit pricing for the cost of one indoor Cat6 access point drop and one outdoor Cat6 access point drop if needed.

<u>Quantity</u>	<u>Description</u>
178	Extreme 4000 Access Points or Equivalent
30	Extreme 460C Outdoor Access Points or Equivalent
208	Installation and Configuration of Access points
1	Cat6 Indoor Access Point Drop
1	Cat6 Outdoor Access Point Drop