

E-RATE 2019-2020 CATEGORY 2 REQUEST FOR PROPOSALS (RFP) FOR
LAN INFRASTRUCTURE

Amite County School District

PROPOSAL DUE DATE: February 11, 2019
BID OPENING 9:00 A.M.

Scotty H. Whittington
SUPERINTENDENT OF EDUCATION

Purpose:

Proposals are being sought by the Amite County School District for the purpose of upgrading the E-Rate eligible Category 2 equipment and cabling with the option of managed services for the project.

Background:

Our District’s students, teachers, staff and administrators are using more and more resources that require Internet access, including wireless connectivity. The ACSD is looking at a new proposed solution, with a preference for Extreme switches and wireless AP’s. Other manufacturers with proven evidence of equipment that is functionally equivalent or better will also be considered. The purpose of this RFP is to explore the various options currently supported through the E-Rate program and its Category Two services.

General Requirements:

The Amite County School District is seeking quotations for complete solutions to install a LAN/Wi-Fi infrastructure to include replacing switches and Wi-Fi including GBIC modules, fiber, racks, cabling, closet cleanup, UPS battery backups and an option for managed services for equipment infrastructure at each of the eligible school sites.

The specifications herein are provided to convey the intent of the District and do not include every cable or component necessary for the complete system that the proposing vendor shall provide. Technical specifications of all equipment and necessary components proposed should be provided with the bid.

The Amite County School District (ACSD) desires to purchase cabling, switches, UPSs, and wireless access points, racks and managed services to make all school campuses Wi-Fi accessible.

Inquiries

All correspondence and inquiries regarding this RFP must be done via Email:
rmatthews@amite.k12.ms.us

If a Service Provider does not receive a response within 48 hours, it is the responsibility of the Service Provider to call **Reggie Matthews at (601) 657-4361** and confirm that the email message was received. All responses to inquiries will be emailed to the Service Providers.

Notice to Bidders

Notice is hereby given to interested bidders that the Amite County School District will receive written, sealed bids until the hour **of 9:00 a.m., February 11, 2019**, at which time bids will be received in the District Office of the Amite County School District at **533 Maggie Street Liberty, MS 39645**

Bid Timeline

Letter of Intent to Bid Due Date	January 14, 2019
Mandatory Pre-Bid Site Visit	January 16, 2019 @ 9:00 a.m.

Final Day for Questions	January 31, 2019
Bid Due Date	February 11, 2019 @ 9:00 a.m.

Submit Sealed Proposal and Supporting Documentation to:

Amite County School District
 Reggie Matthews, Technology Coordinator
 533 Maggie Street
 Liberty, MS 39645

Bid Submission Notes:

No faxed or emailed proposal will be acknowledged or allowed. Sealed proposals should be clearly marked “**RFP Category 2 2019**” and should mail or hand deliver to the address listed above. Proposals received after the deadline will be rejected.

Please submit (2) printed copies of proposal and one electronic copy.

It is the sole responsibility of the respondents to ensure their responses arrive in a timely manner. Late arrivals will be rejected. The Amite County School District is not responsible for delays of any commercial carrier or delays incurred by the respondents. Oral, telephone, or electronically transferred bids will not be considered.

Intent to Bid

Amite County School Districts requests that all vendors interested in submitting a proposal complete the Letter of Intent to Bid that is provided at the end of this document. The Letter of Intent to Bid should be emailed to Reggie Matthews at rmatthews@amite.k12.ms.us by January 14, 2019 11:59 p.m.

Pre-Bid Conference

In order to be eligible to bid, all prospective bidders must attend the mandatory pre-bid conference. The pre-bid conference will be held at the Amite County School District Technology Office located at 533 Maggie Street Liberty, MS. Proposals from vendors who do not attend the conference **WILL NOT** be considered.

The RFP will consist of Cabling, Equipment, and Managed Services. The Amite County School District (hereinafter referred to as "ACSD") intends to replace our existing network cabling, network switches, and network wireless system. Upgrading these systems will allow us to deliver better network services to our students and prepare us for initiatives such as one-to-one. Our District’s students, teachers, staff and administrators are using more and more resources that require Internet access, including wireless connectivity. Over the past year and a half we have studied various solutions to determine the proper mix of technologies that will enable us to reach our goals. The product line that the district is seeking is equal or equivalent to Extreme Networks switches and management systems, as well as Extreme Networks Wireless and management systems. The purpose of this RFP is to explore the various options currently supported through the E-Rate program and its Category Two services.

Basis of Award:

1. E-rate approval by USAC
2. Provider must have current USAC ,SPAC and SPIN Number.
3. References of at least three installations of similar application size, complexity, infrastructure design and installation method as proposed.
4. Proposed network equipment’s ability to meet current and future needs of ACSD, including onsite support, training, and technical assistance.
5. Compatibility with existing infrastructure
6. Vendor’s qualifications, knowledge, experience, past work and functionality of previous installations.
7. Overall cost and quality of proposal.
8. Service Provider MUST complete the MANDATORY walk through.
NO BIDS WILL BE ACCEPTED FROM SERVICE PROVIDERS WHO DO NOT COMPLETE THE MANDATORY SITE VISIT.
9. Total number for equipment will be given at mandatory pre-bidder’s conference.

General

The specifications herein are provided to convey the intent of the District and do not indicate every cable or component necessary for the complete system that the proposing vendor shall provide. Technical specifications of all equipment and necessary components proposed should be provided with the bid.

Prices quoted shall be an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, training, technical support and trash removal, and represent complete installation and integration with the existing network where necessary. All equipment included in vendor’s proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered. Prices quoted in the vendor’s response will remain in effect for a period of twenty four (24) months from the time of the contract signing.

Omissions in the proposal of any provision described herein shall not be construed as to relieve the vendor of any responsibility or obligation to the complete and satisfactory delivery, operation and support of any services.

Should the vendor have questions or find discrepancies in, or omissions from this RFP, or be in doubt to its meaning, the vendor shall at once notify Amite County School District. All questions should be addressed to Reggie Matthews and sent via email to rmatthews@amite.k12.ms.us

Evaluation Methodology

The Amite County School District will award a contract based on the vendor submission that best meets the needs of the Amite County School District with regard to the current Technology Plan, future growth, RFP specifications, and not necessarily the lowest price even though price will be the priority factor. The following factors will be considered when evaluating responses:

- Price, based on 5-year cost of ownership estimate (to include base price, renewal fees and additional support fees)
- Strength of References
- Adherence to Technical Specifications
- Technical Certifications of Vendor Staff
- Number of Service Staff within close proximity to Amite County, MS
- Vendor response time
- Turnkey Solution
- Ease of Use
- Preference may be given for prior positive experience with the Vendor

Vendor Qualifications

The Amite County School District may make such investigations as deemed necessary to determine the ability of the bidder or subcontractors or suppliers to perform the work, and the bidder shall furnish to the Amite County School District all such information and data for this purpose as the Amite County School District may request. The Amite County School District reserves the right to reject any bid if the evidence submitted by or investigation of such Bidder fails to satisfy the Amite County School District that such bidder is properly qualified to carry out the obligations of the contract and/or to complete the work contemplated therein within the time required.

The bidder is specifically advised that any person, firm or other party to whom it proposes to award a subcontract or purchase order under this contract must be acceptable to the Amite County School District.

The successful vendor (contractor) must have or be certified with the following:

- Vendor must be a certified Extreme or equivalent partner of each component of the proposed solution; in good standing with manufacturer; and able to provide/supply all products and services proposed. Please include documentation in response packet.
- Vendor must be an authorized dealer in the State of Mississippi for products proposed.

- Vendor must have a State of Mississippi General Contractor's License. Proof of this license must be included in the bid response.
- Vendor must have a Registered Communications Distribution Designer (RCDD) on staff that will be responsible for the infrastructure design of the project. Please include documentation in response packet.
- To ensure the highest level of quality possible, all bidders must hold the ISO 9001:2008, ISO 2015, or ISO 9004:2009 (collectively referred to as "ISO-9001 certification"). The ISO-9001 certification requirement is a pragmatic step to ensure this organization purchases from a quality bidder. The bidder's legal name must be listed on the cover page of the official ISO-9001 Certificate of Registration or the bidder must be an affiliate of the firm listed on the official ISO-9001 Certificate of Registration. An affiliate is defined as a firm who directly owns and controls or is under common ownership and control with the firm listed on the official ISO-9001 Certificate of Registration. Common ownership must be a minimum of 25% equity control. If an affiliate firm is listed on the ISO 9001 Certificate of Registration, the bidding firm must submit a letter detailing the affiliate relationship between the two firms. Please provide documentation in response packet.
- Vendor key cabling staff must have a minimum certification of BICSI Installer 2, Copper. Please provide documentation in bid response packet.
- Vendor must have sufficient network expertise and certifications for installations of equivalent size and scope. Please provide documentation in bid response packet.
- Vendor must submit the name and resume of the staff member who will be assigned as Project Manager.
- Vendor must submit the name and resumes of the key staff members who will be assigned to the project.
- It is preferred that the vendor has extensive knowledge and experience working with school systems within the state. Vendor must have been in business for a minimum of 3 years providing services as described in this RFP. Vendors are required to provide evidence that they meet this qualification with the RFP response.
- Because of the detailed planning and coordination with ACSD, preference will be given to vendors that have previously coordinated projects with them.
- Vendor must have an office location within 150 miles of the ACSD.

- Vendor must include manufacturer representatives to commission both the wired and wireless systems and approve proper installation and configuration. Vendor must include a letter from the manufacturer addressing this requirement.
- Vendors must be able to supply all products and services with no subcontractors.
- Have current liability insurance and workers compensation insurance (certificates of insurance must be furnished by winning bidder within 10 days of award)
- Provide documentation of the vendor's employee certifications
- Participate in the mandatory vendor meeting. Any bid submitted by a vendor who does not complete the mandatory pre-bid conference will not be considered.
- Provide an Erate SPIN
- Provide at least 3 references for projects of the same scope and size

Vendors are required to provide evidence that they meet these qualifications with the RFP response

Financing

This project will be subsidized by the Erate program and is therefore subject to funding availability and contingent upon Erate funding. Due to the extended period of time it could take for the District to receive a funding commitment from USAC for this project and possible unforeseen financial circumstances, any contract arising from this RFP will also be contingent upon the District's availability of funds at the time of funding for the non-erate portion of the project. The District also reserves the right to increase or decrease quantities requested in this RFP to adhere to the District's needs at the time of funding.

The Amite County School District requires that the winning bidder provide the USAC Service Provider Invoice (SPI) method for invoicing.

Disqualification of Bidder

The Amite County School District reserves the right to award to other than the lowest bidder when, in the judgment of the District administration, it is in the best interest of the District to do so. A Bidder may be disqualified for such reasons as:

1. Bidder's failure to attend and complete the mandatory pre-bid conference
2. Bidder being in litigation with the Amite County School District
3. Bidder having defaulted on a previous contract
4. Bidder having performed unsatisfactorily on a previous contract, including but not limited to the Bidder's failure to fulfill the warranty obligations of a previous contract with the Amite County School District
5. Bidder's failure to include documentation for required certifications and authorizations

The above is not an inclusive list.

The Amite County School District will strictly adhere to the rules and regulations of the Erate program when evaluating bid responses.

The following are the General Conditions for the work to be performed as outlined in the Detailed Specifications.

1. Location of Sites: The location of the work is on property owned by the Amite County School District. School sites are listed at the end of this document.

2. Scope of Work: It is understood that, except as otherwise specifically stated in this RFP, The Service Provider shall provide and pay for all materials, labor, tools, equipment, transportation, temporary construction of every nature and all other services and facilities of every nature whatsoever, necessary to execute, complete and deliver the work within the specified time. Licenses necessary for the execution of the work shall be secured and paid for by the Service Provider. Any work necessary to be performed after regular working hours, on weekends or legal holidays, shall be performed without additional expense to the District, unless the weekend or holiday work due to a delay caused by the District and written consent is secured prior to the completion of said work by the Technology Coordinator and Superintendent.

3. Protection in General:

The Service Provider shall protect all buildings, furniture, equipment, personal items, trees, shrubs, lawns and all landscaping on school property from damage. Any damaged property shall be repaired or replaced at the Service Provider's expense. Labor shall include all restoration (leveling, sod replacement) of grounds broken up during the installation of this network.

4. Change in Contract: The District will not be responsible for any change in the work involving extra costs unless approval in writing is furnished by the Technology Coordinator before such work is begun.

5. Existing Conditions: The Service Provider, in submission of this proposal, will have visited the AMITE COUNTY SCHOOL DISTRICT premises and will be assumed to have taken into consideration all conditions, which might affect this work. No consideration will be given to any claims based on a lack of knowledge of existing conditions.

6. Insurance: Within ten (10) days after notification of award, The Service Provider shall furnish to The District a Certificate of Insurance showing compliance within the following limitations: a) The Service Provider agrees to comply with the provisions of Worker's Compensation Laws of the State of Mississippi. b) It shall be stated on every policy or Certificate of Insurance, as the case may be, that "The insurance company agrees that the policy shall not be canceled, changed, or allowed to lapse until ten (10) days after The District has received written notice as evidenced by the return receipt of registered mail, and it is agreed further that as to lapsing, such notice will not be valid if mailed more than fifteen (15) days prior to the expiration date shown on the policy." c) The Service Provider shall maintain other insurance (with the limits shown below) that shall protect The Service Provider and The District from any claim for property damage or personal injury, including death, which may arise out of operations under this contract, and the Service Provider shall furnish The District with certificates and policies of such insurance as follows.

Below is a list of the insurance coverage that must be procured by The Service Provider at his own expense. The Service Provider agrees to follow instructions indicated in each case: The District Protective Liability Insurance: Personal injury, including death, limits of \$1,000,000.00 for each person and \$1,000,000.00 for each accident. Service Provider's Public Liability Insurance: Personal injury, including death, limits of \$1,000,000.00 for each person and \$1,000,000.00 for each accident. · Property Damage limits of \$100,000.00 for each accident and \$500,000.00 for the aggregate.

7. Workmanship: All work shall be performed in a professional manner. Personnel from the District may observe the work procedures and workmanship of the Service Provider, but such observation will not relieve the Service Provider from any responsibility of performance or constitute acceptance of the work performed. The Amite County School District has a rich tradition of excellence, which extends to all employees both in and outside of the classroom. The Service Provider will instruct personnel to adhere to high standard of excellence in quality work, behavior, language, and appearance while performing the duties of this installation.

8. Proposed Services and Service Provider Qualifications: The Service Provider shall furnish a written document that describes the services proposed under these specifications. It is understood that the Service Provider is not responsible for the function of existing equipment already installed at the schools. However, limited troubleshooting of existing equipment will be provided by the Service Provider free of charge to determine if the existing equipment or cabling can be re-utilized. The Service Provider must also show proof that their employee(s) are certified to install the proposed components and electronic equipment.

9. Financing: The Service Provider will provide a binding contract to the District for submission to the Schools and Libraries Division. After notification of award from the Schools and Libraries Division, the Service Provider will receive a Purchase Order for the products and services for which the Service Provide will be responsible as a result of this RFP. This Purchase Order will show the amount that is the responsibility of the local school system. The issuance of any purchase order will be contingent upon approval by USAC. Complete payment to the Service Provider will be subject to the rules of the Schools and Libraries Division (SLD). After notification by the Schools and Libraries Division (USAC Fund Administrator) of the acceptance of the Contract, the contingency will be removed and the Purchase Order will be submitted to the Service Provider in accordance with the rules and regulations of the SLD.

10. Application for Payment: All applications (invoices) for payment shall be submitted to the District according to the USAC regulations. The Service Provider must submit a Service Provider Invoice for processing of the discounted potion of the bill.

11. Proposal Submittal:

Due to the nature and diversity of the proposals, a significant amount of time may be required to determine which proposal provides the best option for the District. The possibility is that the best option will involve district purchased equipment that may or may not be E-Rate eligible or may or may not be

part of this proposal could significantly delay the evaluation process. The evaluation process will not be complete until the District has determined the best proposal based on all factors.

14. The Service Provider's Qualifications: The Service Provider must provide proof of registration with the (SLD) for reimbursement under E-Rate guidelines for Category Two Services. If The Service Provider fails to file the appropriate forms with the SLD or fails to receive an SLD Service Provider Number, the District is not responsible for the discounted portion of The Service Provider's bill. The Service Provider must generate an invoice for the USF portion of the bill in accordance with SLD regulations. The Service Provider is responsible for supplying SLD SPIN with the quote. It is preferred that the Service Provider has been in business for at least 3 years and have an office in the state of Mississippi. A legible copy of incorporation papers must be attached and noted. Service Providers must give examples of experience with installation of similar projects that have equal infrastructure equipment. Service Provider must give examples and contact information for at least three such installations.

15. Stored Materials: Any materials stored on job site shall be the Service Provider's responsibility.

16. Specifications: Complete specification details for all products being proposed must be provided as part of the RFP response package (proposal).

17. Accident Prevention: Precautions shall be exercised at all times for the protection of persons (including employees and students) and property and hazardous conditions shall be guarded against or eliminated. The District or the building principal will determine what constitutes a hazardous condition on any campus and the Service Provider will be responsible for rectifying the issue to the satisfaction of The District.

18. Contract Form: Upon Contract award and a binding contract signed, the standard written Purchase Order form will be issued to the successful Service Provider. Issuance of the Purchase Order will be contingent upon USAC acceptance and funding of the project.

19. Indemnification: The Service Provider agrees to hold The District harmless and to indemnify The District for every expense, liability or payment arising out of or through injury (including death) to any person or persons or damage to property (regardless of whom the owner may be of the property) of any place in which work is located arising out of or suffered through any act or omission of The Service Provider or Subcontractor.

20. The Service Providers' Representative: The District reserves the right, with sole discretion, to refuse to allow any representative of The Service Provider to service the contract in any manner. In this event, The Service Provider shall furnish another representative that is acceptable to The District. Examples of reasons for refusing to allow a Service Provider representative to service the contract include, but are not limited to: ·

- Use of profanity or abusive language around any school personnel or students.
- Unclean or unkempt appearance.

- Intoxication or obvious drug use.
- Threatening behavior towards any school personnel or students.

Should the Service Provider use subcontractors for portions of the work, The District reserves the right to reject any subcontractor without explanations or recourse by The Service Provider or subcontractor.

21. The District Regulations: The Service Provider and his representatives shall follow all applicable school district regulations while on The District property, including the no smoking, no weapons, and drug free policies. No work shall interfere with school activities or environment unless the Principal or person in charge gives permission. All Service Provider personnel shall be easily identified by the use of identification badges and uniforms or shirts with The Service Provider's logo clearly visible.

22. Governing Law: All RFPs and related documents submitted to The District by the Service Provider are governed under the laws of the State of Mississippi.

23. Comprehensive List of References: All references should include: a contact person, dates of work, mailing address and telephone numbers. References must include three (3) or more references of installations of similar size and complexity within the USA.

24. The District reserves the right to:

- a. Give full and proper consideration to the service, reputation, product knowledge, and experience of all companies presenting proposals, and to disqualify any such Service Provider it deems unqualified to provide the services requested.
- b. Reject any and all proposals, in whole or in part, if deemed necessary.
- c. Accept any alternative proposal believed to be in the best interest of the district.
- d. Waive any formality in the quote submission.
- e. Cancel any awarded bid if the service proves unsatisfactory.

25. Price Quotations Price quotations are to include the furnishing of all materials, equipment, maintenance, shipping costs, delivery, installation, drawings and the provision of all labor and services necessary or proper for the completion of the work as may be otherwise expressly provided in the contract documents. The District will not be liable for any costs beyond those proposed herein. Please be advised that public schools are specifically exempted from the payment of Mississippi Sales Tax. In case of discrepancy in computed proposal prices, the unit price shall govern and the total price shall be revised accordingly.

26. Variation in Quantities and Configuration: The District reserves the right to modify quantity and configuration requirements. The Service Provider agrees to sell The District the revised quantity of items at the unit price stated in the proposal regardless of quantity changes.

27. Turnkey Solution: All proposals are to provide a turnkey solution for installation and configuration of all switches and to include configuration of all existing vlans, and wireless equipment, existing fiber connections and provide a seamless integration into existing technical network and testing of equipment.

Upon completion of project the Technology Coordinator will be provided close out documents detailing the location and installation of all switches with a schematic drawing of the infrastructure.

28. Term of Contract and E-Rate Subsidies:

Payment for The District’s infrastructure proposal is dependent on E-Rate subsidies. The district will file for the E-Rate subsidies throughout the term of the contract. In the event that the district E-Rate subsidies were to cease, the district will notify the service provider as to the date of the cessation and the District’s will be liable only for payment for services until the time of termination. If E-Rate subsidies stop, the district will not be bound by the remainder of the contract

The major portions of this project are:

Network Cabling

It is our intention to update some of the network cabling for this project. Each drop should have CAT6 cabling for wired end user devices and CAT6 drops for all wireless access points. All drops shall include new patch panels, boxes, conduit and related materials. Number of drops will be given at pre- bidder’s conference.

Types and locations of fiber runs will be given at pre- bidder’s conference.

Network Switches

Each site is based on having a 48 port POE enabled Extreme x460-G2 or Extreme X450G2 and 48 port POE enabled X440-G2 or equivalent at the MDF and IDF’s. These switches shall be stacked when possible and contain enough ports for each CAT6 drop to be live.

Wireless Communication

Each site is based on having 802.11ac Extreme Access points or equivalent.

The District requires that any responding vendor that intends to propose an alternate solution provide documentation in detail on how the alternative proposals will meet the general specifications of this RFP and why the District should consider such an alternative.

All aspects of this project must comply with the Federal Communication Commission’s competitive bidding requirement for Universal Service Fund (USF) support and services

I. Detailed Specifications

The specifications provided in this section are intended to convey the characteristics of a system to provide infrastructure connectivity. The District has a preference for an Extreme solution for switches, wireless AP’s, controller and management software. The scope of the project will be as follows:

- Install and configure a wired solution of switches and including configuring vlans. Vendor must be a participant in manufacturer’s partner program. Vendor must have engineers certified in the

manufacturer's switches. Vendor must have the engineers with the skills to integrate the existing network at Amite County School District into the new switch configuration. All existing equipment in the district must be functional after installation and configuration.

- Provide training to ACSD technical staff on the configuration and management of all devices. This training should include any and all aspects of configuring, installing, and managing the entire switch lan infrastructure, including any management software for maintaining switching infrastructure and best practices. Training may be provided by the vendor or can be offered at an authorized training center.
- All equipment and material should be new. Used, refurbished or repurposed equipment or material will not be acceptable.
- Management and configuration tools to configure and manage the network devices are included in this project. This training should include any and all aspects of configuring, installing, and managing the entire lan infrastructure, including best practices. Erate ineligible software or equipment should be listed separately on proposal but included in the total cost of the bid.
- Project must be field supervised by an Engineer with the appropriate manufacturer's certification. (Please include information on who will perform this service.) Limited lifetime warranty for all LAN/WLAN components. Vendor must be able to provide quality in-house industry certified engineers for post-installation support.
- Vendor must provide evidence of successful past performance of the installation and configuration

Minimum Technical Requirements

In addition to the requirements listed above, the equipment included in the proposals needs to at least meet the following minimum requirements: ACSD requires switches to provide a managed, gigabit switched LAN. We require that all proposed switch hardware to be compatible with existing infrastructure and to enhance support, insure end to end operability, provide a common feature set and enable unified LAN/WLAN management.

- Proposed suggestions are stackable switches in the main wiring closets with POE+ functionality as needed for access points and Mini-GBIC modules as needed along with other switches in closets on the edge of the network. Included in the quote will be all fiber cables, stackable cables for switches, Cat6 Ethernet patch cables at patch panels and Cat6 Ethernet patch cables for every connected drop in the patch panel.

Technical Requirements

Before preparing your RFP Response, please read carefully all sections of the RFP. Please respond with Comply or Does Not Comply and provide a supporting narrative response if necessary. If more than one product is being utilized to provide similar functions in each case, address the requirements below for each product quoted. We will consider any vendor not responding to each requirement for all products quoted to be non-responsive.

Amite County School District MDF switches

Extreme 450G2 or equivalent

The proposed solution must provide a stackable 10/100/1000Base-TX Ethernet switch solution that meets the requirements provided below.

- Port density is determined per building/location as detailed below.

Location	10/100/1000 PoE+	1000Base-X SFP	10GbE SFP+
Switch to cover ERate eligible sites (divided among school sites)	48 (1) 48 port switch	2	4
Elementary School	48 (1) 48 port switch	6	4
High School	192 (4) 48 port switches	6	16

- Must offer a stackable switching solution that supports flexible port configurations providing the ability to support 10/100/1000Base-TX and 1000Base-X SFP or 10GBaseX-SFP+ uplink ports. Please describe the available switch offerings including port densities.

- Must provide a stackable switch with 24 or 48 10/100/1000Base-TX ports and 1000Base-X SFP ports. 48 port switch must offer system performance of at least 188 Gbps switch bandwidth and 139 Mpps forwarding rate. Please describe the performance levels for the recommended switching solution.
- Must provide a stackable switch with 24 or 48 10/100/1000Base-TX ports and four 10GbE SFP+ ports. 48 port switch must offer system performance of at least 260 Gbps switch bandwidth and 193.4 Mpps forwarding rate. Please describe the performance levels for the recommended switching solution.
- Must support flexible stacking options with an option for high speed stacking of up to 84 Gbps using dedicated stacking ports. Please describe the available stacking methods
- It is preferred that the 10 Gigabit Ethernet modules will also be able to accept standard Gigabit SFP transceivers. Please describe the capability of your switch.
- Must support redundant modular power supplies. Please describe the power supply configuration for the recommended switches.
- Must support 802.3af and 802.3at PoE+ with the ability to support up to 30 watts of PoE power per switch port. Please describe how the solution can achieve this.
- Must support IEEE 803.3az Energy Efficient Ethernet
- Must support stacking of up to eight units in a stack
- Must support SNMPv1, SNMPv2c, and SNMPv3
- Must support RMON (Statistics, History, Alarms, Events)
- Must support routing protocols including: Static Routes, OSPF v2/v3, RIPv2, RIPv6, VRRP. Please describe if any licenses are required to enable these capabilities.
- Must support multicast protocols including: MVRP, IGMP v1/v2/v3, MLD v1/v2, PIM-SM and PIM-SSM. Please describe if any licenses are required to enable these capabilities.
- Must support the ability to authenticate multiple users on a single port via 802.1X, web or MAC at the same time
- Must support dynamic role-based policy, independent of the VLAN assigned to the port. Please describe the capabilities and integration with the recommended SNMP management platform.
- Must support bandwidth policing and rate limiting. Please describe the implementation.
- Must support up to 8 QoS queues per port
- Must support high availability network protocols. Please describe any specific features supported by the switch to ensure high availability.
- Must support 802.1w Rapid Reconfiguration of Spanning Tree and 802.1s Multiple Spanning Trees
- Must support Port mirroring options (one-to-many, many-to-many)
- Must support 802.3ad Link Aggregation. Please specify the number of LACP groups
- Must support LLDP and LLDP-MED
- Must support RADIUS Accounting and TACACS+
- Must support MAC security with lockdown and limit capabilities
- Must support sFlow v5
- Must support a method to extract and transport raw network traffic and packets, as well as sample flows, for the purposes of processing and analysis by and analytics engine. Please describe the capabilities of the solution and any performance impact.
- Must support Denial of Service (DoS) protection. Please describe the switch capabilities to protect against DoS attacks.
- Must support a Lifetime Warranty that includes sustaining releases for software, phone support and advanced hardware replacement. Please describe the warranty that is provided.

Technical Requirements

Before preparing your RFP Response, please read carefully all sections of the RFP. Please respond with Comply or Does Not Comply and provide a supporting narrative response if necessary. If more than one product is being utilized to provide similar functions in each case, address the requirements below for each product quoted. We will consider any vendor not responding to each requirement for all products quoted to be non-responsive.

Amite County School Edge Switches

Extreme X440-G2 or equivalent

The proposed solution must provide a 10/100/1000Base-TX Ethernet switch solution that meets the requirements provided below. Your response should describe how your offering would meet these requirements. Vendors must provide clear and concise responses, illustrations can be provided where appropriate. Any additional feature descriptions for your offering can be provided, if applicable.

- Must provide a stackable switch with 12, 24 or 48 10/100/1000Base-TX ports with flexible port configurations providing the ability to support 1000Base-X SFP or 10GBaseX-SFP+ uplink ports. Port density is determined per building/location as detailed below.

Location	10/100/1000 PoE+	1000Base-X SFP	10GbE SFP+
Elementary Parent Center	144 ports (3) 48 port switches	2	2
Elementary Library	144 (3) 48 port switches	3	6
Elementary Teachers Lounge	96 (2) 48 port switches	1	4
Elementary LAB 503	48 (1) 48 port switch	-	2
Elementary LAB 501	48 (1) 48 port switch	-	2
Elementary LAB 505	48	-	2

	(1) 48 port switch		
Elementary 4/5 th Book Room	96 (2) 48 port switches	1	4
Elementary SPED	48 (1) 48 port switch	1	2
Elementary Room 17	144 (3) 48 port switches	2	6
High School Room 2	96 (2) 48 port switches	1	4
High School Room 12	96 (2) 48 port switches	1	4
High School Library	192 (4) 48 port switches	2	8
High School Media Room	48 (1) 48 port switch		2
High School Room 28	144 (3) 48 port switches	1	8
High School Room 30	48 (1) 48 port switch		2

- All switches must support line rate performance with the 48 port switches supporting system performance of at least 176 Gbps aggregate switch bandwidth and 130 Mpps forwarding rate.
- Should support standalone switches in the same switch family that support extended temperatures with an operating range of 0°C to 60°C. Please describe the available switch offerings including port densities.
- Must support flexible stacking options with an option for long distance stacking connectivity of up to 40km. Please describe the supported stacking capabilities.
- Must support stacking of up to eight units in a stack.

- Must support 802.3af and 802.3at PoE+ with the ability of supporting up to 30 watts of PoE power per switch port. Please describe how the solution can achieve this.
- Must support redundant power supplies as an option. Please describe the power supply configuration for the recommended switches.
- Must support SNMPv1, SNMPv2c, and SNMPv3
- Must support RMON (Statistics, History, Alarms, Events)
- Must support routing protocols including: static routes, RIPv2, RIPv2, VRRP and OSPF v2 /v3 (edge-mode). Please describe if any licenses are required to enable these capabilities.
- Must support multicast protocols including: MVRP, IGMP v1/v2/v3, MLD v1/v2, PIM-SM and PIM-SSM. Please describe if any licenses are required to enable these capabilities.
- Must support the ability to authenticate multiple users on a single port via 802.1X, Web or MAC at the same time.
- Must support dynamic role-based policy, independent of the VLAN assigned to the port, to secure and provision network resources based upon the role the user or device plays within the network. Please describe the capabilities and integration with the SNMP management platform.
- Must support bandwidth policing and rate limiting. Please describe the implementation.
- Must support up to 8 QoS queues per port
- Must support high availability network protocols. Please describe any specific features supported by the switch to ensure high availability.
- Must support 802.1w Rapid Reconfiguration of Spanning Tree and 802.1s Multiple Spanning Trees
- Must support Port mirroring options (one-to-many, many-to-many)
- Must support 802.3ad Link Aggregation. Please specify the number of LACP groups.
- Must support LLDP and LLDP-MED
- Must support RADIUS Accounting and TACACS+
- Must support MAC security with lockdown and limit capabilities
- Must support IEEE 802.1 Audio Video Bridging to enable real-time audio/video transmission over Ethernet. Please describe if any licenses are required to enable this capability.
- Must support Denial of Service (DoS) protection. Please describe the switch capabilities to protect against DoS attacks.
- Must support a Lifetime Warranty that includes sustaining releases for software, phone support and advanced hardware replacement. Please describe the warranty that is provided.

Technical Requirements

Before preparing your RFP Response, please read carefully all sections of the RFP. Please respond in a point-by-point fashion with Comply or Does Not Comply and provide a supporting narrative response if necessary. Your response should describe how your offering would meet these requirements. Any additional feature descriptions for your offering can be provided, if applicable.

Centralized Management and Visibility

The proposed solution must include a Centralized Management application to provide a complete view of the wired and wireless network, users, devices, and applications. Support must be provided for

comprehensive **access** control/BYOD, application analytics. Your responses below should provide an overview of the recommended solution followed by clear and concise responses to the point-by-point requirements. Any additional feature descriptions for your offering can be provided, if applicable.

Centralized Management Requirements:

- Provide a summary of your proposed centralized management solution and describe the components that make up the solution. Also, include details on the benefits of the management system to the overall solution.
- Must provide a single global database and a single-pane-of glass management window for visibility and control of the entire network infrastructure.
- Must provide an easy to use interface. Please describe the level of expertise required to manage the entire solution.
- Must provide alarm and event details for all managed devices with the ability to sort and filter the information
- Must provide a comprehensive dashboards and detailed views of device, network, and interface statistics. Please describe the dashboard capabilities and provide screen captures.
- Must provide the ability for analysts to be able to easily tailor the dashboard views to present the information in their preferred format. Please describe the customization capabilities available.
- Must provide historical, real-time and custom reporting capabilities with a range of information from high-level to detailed drill-downs. Please describe the reporting capabilities and provide screen captures.
- Must be able to generate reports as PDF files
- Must provide an open API for third-party application integration
- Must allow scheduled events or tasks that the user can perform behind the scenes or schedule an event for another time in the future.
- Must be able to schedule routine device configuration back-ups.
- Must support scripting capabilities to enable automation. Please describe the capabilities.
- Must be available as a hardware-based appliance or virtual appliance. Please describe the available options and recommended solution.
- Must provide a solution that can be installed on a virtual appliance. Please detail the requirements for the virtual appliance.
- Must provide complete layer 7 application visibility and control across both the wired and wireless network. Please describe how this is provided.
- Must support a large and customizable fingerprinting database with the ability to easily create your own fingerprints. Please details the existing fingerprint database, what is required to customize the solution, and how fingerprints are kept up-to-date.
- Must be highly accurate in terms of application detection. Running applications on non-standard port numbers should be handled by the product. Please describe application fingerprinting accuracy in the solution.
- Must provide contextual information and actionable insights into the network. Please describe the capabilities.
- Must provide a user interface that gives a complete picture of current application usage. Please describe the user interface capabilities.
- Must provide a scalable solution that does not impact performance. Please describe the scalability of the solution.

- Must be easy to integrate with existing network topologies and designs in a passive out-of-band manner. Inline solutions may also be acceptable given sufficient stability and reliability. Please describe how this can be accomplished.
- Must be available as a hardware-based appliance or virtual appliance. Please describe the available options and recommended solution.

Technical Requirements

Before preparing your RFP Response, please read carefully all sections of the RFP. Please respond in a point-by-point fashion with Comply or Does Not Comply and provide a supporting narrative response if necessary. Your response should describe how your offering would meet these requirements. Any additional feature descriptions for your offering can be provided, if applicable.

Wireless

- Must integrate seamlessly with the wired infrastructure
- Wireless solution must support 802.11ac Wave 2
- Wireless solution must support role-based access policies that can be implemented on a per-user and per-application basis
- Wireless solution must support fast secure roaming and handover between (802.11r), fast transition roaming (802.11k), 802.11i pre authentication, Opportunistic Key Caching (OKC), as well as seamless roaming between IP subnets and multiple wireless appliances. Please describe this capability.
- Wireless solution must support assignment of role-based policies to the clients/device without requiring segmentation via dedicated SSIDs. Please describe how this is supported.
- Wireless solution must provide the capability to ensure equal airtime for all clients in environments where there is a mix of 802.11ac, n, and a/b/g clients. Please describe how this capability is provided.
- Wireless solution must support centrally-deployed configurations and upgrades. Please describe this capability.
- Access Points must support a semi-autonomous mode of operation being able to support intelligent Access Point encryption, security, filtering, RF Management and QoS, without dependency of the wireless appliance.
- Access Points must support rule and user-based rate limiting
- Access Points must support rule and role-based QoS processing
- Access Points must simultaneously support tunneled traffic and bridged traffic at the Access Point
- Access Points must support up to 16 SSIDs (8 per radio)
- Access Points must support self-forming and self-healing meshing
- Access Point must support plug and play installation
- Access Points must support a hybrid mode of operation being able to support security scanning/spectrum analysis and serving clients on the same radio. Please describe the capability.

- Access Points must be able to be configured to provide load balancing and band-steering. Please describe the capability.
- Access Points must support IEEE 802.11h for dynamic channel control
- Access Points RF Management must support automatic channel selection and transmit power controls
- Access points must support 802.11e protocols including WMM, TSPEC, and U-APSD
- Access Points must provide application-layer visibility and policy enforcement with no impact on Wi-Fi performance. Please describe the capability of the solution to support this requirement and detail any additional components required.
- Wireless appliances should be available as hardware-based or virtual appliance option supporting a flexible deployment mode of operation with support for both a centralized or distributed data forwarding architecture. Please describe the wireless appliance architecture, as well as an overview of the available appliance options.
- In standard mode the wireless appliance must support access points in the base unit and be expandable to support up to 125 access points with license upgrades. Please describe the capabilities and available license upgrades.
- In high availability mode the wireless appliance must support up to 250 access points when configured in high availability pair. Please describe the high-availability capabilities of the solution and cost for any extra licenses required for high availability.
- Hardware-based wireless appliances must provide two 10GABSE-X OR four 10/100/1000Base-T uplinks ports for connectivity to the existing network. Please describe the available ports.
- Must support a customizable Captive Portal integrated with the wireless appliance
- Must allow non-technical personnel to create temporary guest accounts and distribute credentials through an easy-to-use graphical user interface
- Wireless appliances and access points must support IP Quality of Service at the wireless and wired side. Differentiation of packets must be supported for inbound and outbound wireless packets based on DiffServ, IP TOS, and IP Precedence.
- Must support a lifetime warranty on indoor access points. Please describe the warranty offered for the wireless access points

Managed Services

As an option to the bid the Amite County School District is seeking the services to provide for the operation, management and monitoring of eligible broadband internal connections components, the wireless access points and controllers (e.g. managed Wi-Fi). The access points and controllers to be managed include any new equipment installed in this project and/or any existing access points in the network. The managed services should be for a period of three years. This bid option should be listed as a separate line in the quote and management should be from a district level. The technical department of the district will have access to the managed services to make changes as deemed necessary. A detailed description of the services included in the quote should be described in documentation with the bid quote. Services will include but not limited to the following:

- The creation and management of SSIDs in the initial setup and for future changes as needed.
- The management of switches as related to wireless configuration such as the creation of vlans for traffic management.
- Initial setup and configuration of services as indicated in the specifications such as bonjour, gateway, radius authentication and integration into Microsoft active directory.
- 24x7 technical support for emergency situations.
- Training of ACSD technical staff on use of management system.

Please provide a narrative describing your Managed Services to include trouble-ticketing procedures, availability and response time if an engineer is required on site. Please also include the number of network engineers available within 150 miles of the District's Schools.

If proposal is totally or mostly on site support, please include estimated or guaranteed (indicating whether hours are estimated or guaranteed) number of hours per month an engineer will be on site.

Cabling and Rack Specifications

Cabling

All cable and cabling components including jacks and patch panels used in this proposal will be Category 6 rated.

- Bid must include cabling and all necessary components (patch cables, patch panels, jacks and mounts, crimp ends, racks, etc.)
- Current cables and patch panels may not be used for this project unless they are Cat 6 Rated cables.
- If the racks in the IDF or MDF are not large enough to accommodate the additional Cat 6 Patch Panel, racks should be quoted. All racks and/or cabinets should be of sufficient size to accommodate the Extreme or equivalent switches and erate eligible equipment.
- Racks should be wall mount enclosed racks unless otherwise specified at the site visit.
- Bid must include cost of labor and installation.
- Any cables run by the vendor will be terminated into a patch panel and labeled.
- Patch cables from the patch panel to the switch will be Cat 6 cables and will be provided by the vendor.
- Vendor must supply 20-year manufacturer's warranty.
- Proposed fiber runs should be Multimode unless distance requires Singlemode.
- Fiber run proposals should include all necessary components for termination, connection to equipment and full functionality of the fiber connection.

Wiring Information

Drop Ceilings

Cable can be bundled without any conduit but it must be off the ceiling using hooks.

Open Ceilings

The cable may be run out-of-sight along the beams if needed.

Walls

If cable is run along an open wall, it must be in Ivory Panduit or similar enclosure.

Cable

Cable must be the same color throughout the System Cable must be rated as Cat 6.

III. The District Responsibilities

1. Access for Installation

The District will, during the progress of the installation, allow the Service Provider and its employees access to the premises and facilities at all reasonable hours or at such hours as The District representative and the Service Provider agree upon.

2. Heating/Cooling

Provide heat or cooling when required and general illumination in rooms where work is to be performed by The Service Provider.

3. Inspections

Promptly make inspections when notified by the Service Provider that the equipment or any part thereof, is ready for acceptance.

4. Electrical

The District will provide all electrical needs within the district buildings.

5. Delay in Work

It is understood that the Service Provider will not be held accountable for any delays caused by The District.

IV. THE SERVICE PROVIDER'S RESPONSIBILITIES

1. Provision

The Service Provider must provide all supervision, tools, equipment, hardware and wiring materials as specified; transportation, erection, construction, unloading, inspecting, and keeping inventory as specified in attached contract documents. Whenever in the Contract the terms "provide, furnish, supply, install, etc.", can be interpreted as requiring the Service Provider both to furnish and/or install materials, unless specific provisioning/installation of the materials by The District is denoted.

2. Ceiling Tiles

Provide for the removal and reinstallation of all ceiling tiles as needed. Any broken ceiling tiles will be replaced with equal or better quality of the damaged ceiling tiles.

3. Identification

The Service Provider will identify to the district any work necessitating cutting into or through any part of the building structure such as girders, beams, concrete, tile floors or partition ceilings.

4. Damage

The Service Provider will be responsible for repairs of damage to the building, roads, equipment, existing cable, or property. The Service Provider will promptly report to a representative of The District any such damage to the building, roads, equipment, existing cable, or property that may occur while performing work in the facilities.

5. Installation

Install the equipment and hardware in accordance with the manufacturer's specifications. All equipment shall be sufficiently labeled such that the equipment designation or purpose, interconnections and cabling endpoints can be easily determined.

6. Test and Inspections

Conduct tests and inspections in the presence of the District technical representative after installation has been completed in order that the District may be assured that the requirements for the installation are met.

7. Completion Notification

Promptly notify the District designated contact of completion of this proposed project.

8. Defects

The Service Provider will promptly correct all defects for which the Service Provider is responsible.

9. The District Contact

The Service Provider must coordinate all work with the District designated contact.

10. Cleanup

Upon completion of the work each day, the Service Provider must remove all tools, equipment, rubbish and debris from the premises and must leave the premises clean and neat and in the same condition as it was found.

11. Subcontractors

The Service Providers may not use subcontractors to perform work. All responsibilities rest with the Service Provider.

12. Testing

The Service Provider will provide the District with complete detailed test results. The test results must be delivered to the District before payment.

14. Codes, Standards, and Ordinances

All work shall conform to the latest edition of the National Electrical Code, the Building Code, and all local codes and ordinances, as applicable.

15. USAC Certifications

The Service Provider must be an approved USAC service provider with a current SPIN and SPAC. It will be the responsibility of the Service Provider to maintain all USAC certifications throughout the term of the contract.

The winning vendor for the Category 2 project must be willing to work with the Category 1 providers to ensure that the Category 2 equipment will integrate and work seamlessly with the Category 1 services and demarcation equipment.

E-Rate

This proposal request is for services to be subsidized under the Universal Services E-Rate Program for Schools and Libraries. No purchase order will be issued, no installation will occur and no services will be provided until approval of the form 471 application AND approval by Amite County School District for the District's non-erate portion. If District funds are not available for the District portion, all contracts will become null and void and the project will not be implemented.

Right to Reject

The Amite County School District reserves the right to accept or reject all proposals or sections thereof when the rejection is in the best interest of the District. The Amite County School District reserves the right to award without further discussion. Therefore, responses should be submitted initially with the most favorable terms the vendor proposes. The Amite County School District reserves the right to reject the proposal of a vendor who has previously failed to perform properly or completed on time contracts and to reject the proposal of any vendor who in the opinion of the Amite County School District Board of Trustees, is not in a position to adequately perform the contract. The Amite County School District Board of Trustees reserves the right to reject any and all proposals, any part or parts of a proposal, waive any

technicalities/informalities, increase or reduce quantities, make modifications or specifications, and award any or the entire contract in a manner that is in the best interest of the Amite County School District

Please include in the quote the product, model number, product description, quantity and unit pricing for POE switches/APs, and any additional equipment or materials needed for a complete LAN installation.

In addition to pricing information, please include the following information:

- Service Provider's Mississippi Division or Company's Organizational Chart including job titles, names, and departments
- Description of the Service Provider's capacity to provide support
- Including names, position titles, and locations of technical support staff, sales staff, and management staff (i.e.: John Smith, Director of Sales – Jackson, MS)
- Description of Help Desk Procedures
- Description of warranty information for all proposed products
- Description of Service Response Procedures
- Description or list of service locations that will provide service and support for the district installation, the number of technicians available for that support, and average response times for service calls in the Amite County area.
- Three references for similar installations as described in the specifications.
- Full Description of the LAN equipment installation to be provided (to include performance specifications and all necessary installation and equipment) for the connections for selected ACSD school buildings.

SITE VISIT FORM

DATE _____

SERVICE PROVIDER NAME _____

CONTACT INFORMATION FOR CHANGES / UPDATES / CLARIFICATIONS

Name _____

Phone Number _____

Email Address _____

By signing below, the vendor acknowledges that the prices listed on this sheet are the prices being bid for this project and that the vendor understands that portions of this Project may be funded from Erate Funds. This project is subject to funding availability and contingent upon Erate funding.

PRINTED NAME _____ TITLE _____

SIGNED _____ DATE _____

BID WORKSHEET

PRICING INFORMATION (Total Cost for ALL Schools)

(THIS DOCUMENT MUST BE THE TOP PAGE OF YOUR SUBMISSION)

You must submit a standard quotation for EACH school in addition to this worksheet.

MUST FILL IN THE TOTAL PRICE FOR THE ENTIRE ERATE ELIGIBLE PORTION OF THE PROJECT BELOW.

Erate Eligible PROJECT TOTAL PRICE for Cabling _____

(This is the total of all schools)

Erate Eligible PROJECT TOTAL PRICE for Equipment _____

(This is the total of all schools)

Erate Eligible TOTAL PRICE for Managed Services Contract _____

(This is the total of all schools for 60 months including any upfront costs)

DO NOT INCLUDE INELIGIBLE COSTS IN THE ABOVE TOTALS. PRICING ON THIS PAGE IS FOR ERATE ELIGIBLE PRODUCTS AND SERVICES ONLY

In the occurrence of discrepancies between the total costs listed above and costs from the itemized quotes per school, the costs from the itemized quotes will be deemed to be the correct cost.

DISTRICT BUILDING INFORMATION

Name	Address	City/State/Zip
Amite County School District	533 Maggie Street	Liberty, MS 39645
Amite County Elem School	3457 S Greensburg Road	Liberty, MS 39645
Amite County High School	600 Irene Street	Liberty, MS 39645
Amite County Vo-Tech	1501 Irene Street	Liberty, MS 39645

LETTER OF INTENT TO BID

Reggie Matthews
Amite County School District
rmatthews@amite.k12.ms.us

Reference: Amite County School District 2019 E-Rate Bid

This letter is to notify you that it is our present intent to submit a proposal in response to the above referenced RFP. The individual to whom information regarding this RFP should be transmitted is:

Name: _____
Company: _____
Address: _____
City, State & Zip: _____
Phone Number: _____
E-mail Address: _____

Sincerely,

Signature

Title