

Request for Proposal: Network Switches

January 28, 2019

Ralston Public Schools
8545 Park Drive
Ralston, NE 68127

Erate Identifier: Cat2.2019Networkswitches

Table of Contents

Overview.....	3
1.1 Product Specifications	4
2.1 Pricing and Payment Structure.....	4
3.1 Installation and Implementation	4
4.1 Evaluation Process	5
5.1 Discrepancies and Omissions	5
6.1 Contingencies.....	5
7.1 Vendor Questions and Clarifications.....	5
Appendix A.....	6
Appendix B.....	7
Appendix C.....	8

Overview

Ralston Public Schools is seeking proposals for four (4) HPE Aruba or highly equivalent to switches. Additionally, Ralston Public Schools is requesting multiple stacking cables, SFP modules and power supplies required for redundancy setup. A parts list and associated specifications are contained within this document. See Appendix A for further information on quantities requested by building.

All proposals which are highly equivalent to or exceed specifications of either the HPE Aruba parts will be considered.

Vendors will have 24 hours after vendor selection is announced to raise any questions. Questions will be addressed via the web site posting answers to all questions. The District will have the final authority to the resolution of all questions.

All bidding vendors must be Erate eligible and have an updated Form 473 (SPAC) on file to provide the services requested and provide their Service Provider's Form 498 ID (formally known as SPIN) as part of this RFP. **Vendors are required to state if any proposed equipment and/or services are ineligible for Erate funding as part of their proposal documentation.**

Proposals are due in either hardcopy or in electronic form (PDF format) on or before **Tuesday, February 26th, 2019 at 3:00 pm CST** at Ralston Public Schools; Attn: Jennifer Ludes, 8545 Park Drive, Ralston, NE 68127 or emailed to jludes@ralstonschools.org. Emailed proposal documents will be time-stamped from the receiving computer.

Proposals opening to be on **Friday, March 1st, 2019 at 10:00 am CST** at Ralston Public Schools (Virginia Moon Admin Center), 8545 Park Drive, Ralston, NE.

Questions should be addressed, no later than February 20, 2019, to:

Jennifer Ludes
Ph: 402.898.3444 | Email: jludes@ralstonschools.org

Questions and Answers will be posted on district website (<http://www.ralstonschools.org/>) by February 22, 2019.

Vendors are required to attend the district walk through;
Scheduled for **Thursday, February 7, 2019** - beginning at **10:00 am** at
Ralston Public Schools Virginia Moon Administrative Center;
Located at 8545 Park Drive, Ralston, NE 68127

1.1 Product Specifications

Ralston Public Schools is seeking proposals for four (4) HPE Aruba or highly equivalent to switches. Additionally, Ralston Public Schools is requesting multiple stacking cables, SFP modules and power supplies required for redundancy setup.

Description	Part Number	Total
HPE Aruba 3810M 48G PoE+ 1-slot switch*	JL074A	2
HPE Aruba 3810M 16SFP+ 2-slot switch*	JL075A	2
10G Fiber SR SFP+ modules		38
LC SC multimode fiber cables, exact length to be determined at time of walk through		22
LC Multimode fiber		12
SFP+ Expansion cards (if not built in to 48port switch)		2
Miscellaneous stacking cables and redundant power supplies necessary for redundancy setup and/or not included with switch		

* Proposals must include pricing for support, with next business day parts replacement. Ralston Public Schools is seeking proposals that include options of 1 year, 3 years or 5 years of support.

Vendors are required to attend the district walk through;
Scheduled for **Thursday, February 7, 2019** - beginning at **10:00 am** at
Ralston Public Schools Virginia Moon Administrative Center;
Located at 8545 Park Drive, Ralston, NE 68127

2.1 Pricing and Payment Structure

Vendors are required to breakdown the purchases by building as outlined in the table in Appendix A. Vendors are required to complete Appendix A as part of their proposal. If additional items are required to complete the project, please include them in Appendix A, listed and itemized as per unit cost.

Contracts will be awarded only after receiving a funding commitment and decision letter from SLD or agreed upon by the district. This RFP will automatically become part of any contract awarded to a vendor. The District requests vendors to file a Form 474 (Service Provide Invoice; SPI) to request reimbursement directly from USAC for the eligible Erate portion of the contract.

3.1 Installation and Implementation

Installation and implementation into current infrastructure must be included as part of the vendor's proposal.

4.1 Evaluation Process

Please refer to Appendix B for further details regarding the evaluation process.

5.1 Discrepancies and Omissions

Vendors finding discrepancies or omissions in the RFP or having any doubts as to the meaning or intent of any part thereof shall submit such questions or concerns to Jennifer Ludes, Ralston Public Schools, jludes@ralstonschools.org. Addenda issued in correspondence to this RFP shall be considered a part of this RFP and shall become part of any final Contract that may be derived from this RFP. This RFP and its addenda will be part of any possible future contract with successful vendor(s).

6.1 Contingencies

This RFP should not be considered as a Contract to purchase goods or services, but is a Request for Proposal in accordance with the Terms and Conditions herein and will not necessarily give rise to a contract. However, RFP responses should be as detailed and complete as possible to facilitate the formation of a contract based on the RFP response(s) that are pursued should Ralston Public Schools decide to do so. Proposals stating that pricing is valid dependent upon availability and/or subject to prior sale will be considered as non-responsive. Completion of this RFP form and its associated Appendices are a requirement. Failure to do so will disqualify your RFP response submittal. Vendors must submit sealed RFP responses by the due date and time as specified herein. Electronic submissions will be accepted if create in PDF format and e-mail jludes@ralstonschools.org by the due date and time as specified herein. Date and time stamp of receiving computer will govern all e-mails. Vendors will be considered nonresponsive if the above requirements are not submitted as requested. The Ft Calhoun Community Schools has the right to reject all submitted proposals and resubmit for new proposals through a revised RFP.

7.1 Vendor Questions and Clarifications

Questions should be addressed, no later than February 20, 2019, to:

Jennifer Ludes

Ph: 402.898.3444 | Email: jludes@ralstonschools.org

Questions and Answers will be posted on district website (<http://www.ralstonschools.org/>) by February 22, 2019.

Appendix A

TABLE 2.1: RALSTON PUBLIC SCHOOLS SHARED SERVICES			
Erate Eligible Services			
Description	Part No	Total	UNIT COST
HPE Aruba 3810M 48G PoE+ 1-slot switch*	JL074A	2	
HPE Aruba 3810M 16SFP+ 2-slot switch*	JL075A	2	
10G Fiber SR SFP+ modules		38	
LC SC multimode fiber cables, exact length to be determined at time of walk through		22	
LC Multimode fiber		12	
SFP+ Expansion cards (if not built in to 48port switch)		2	
Miscellaneous stacking cables and redundant power supplies necessary for redundancy setup and/or not included with switch			

Appendix B
Evaluation Rubric
Ralston Public Schools
Erate: Cat2.2019NetworkSwitches

1. Cost of eligible equipment and/or eligible maintenance25 points

Cost of Equipment will be released at time of proposal opening. Points will be awarded during the evaluation of the proposal(s).

2. Compatibility with currently owned district devices20 points

Compatibility is very important. Points will be awarded during the evaluation of the proposal(s) and determination of compatibility with existing equipment will be done at that same time. Zero (0) points will be awarded for non-compatible devices and twenty (20) points will be awarded for full 100% compatibility.

3. Features included15 points

All documented features of the device in the RFP will be evaluated and points award as such. Points will not be awarded for features that are not included in the cost of the device as presented in the RFP.

4. Support of hardware.....10 points

Technical support will be contacted and will be evaluated on its technical knowledge, English as the primary language, and ease of use.

5. Reliability10 points

Reliability score will be determined using the following criteria:

- a. References given in the RFP
- b. Known other users of the device
- c. Personal experiences

6. User Interface10 points

The user interface will be evaluated and points awarded on the ease of use and the completeness of the interface to the device.

7. References10 points

References will be contacted and points awarded on their responses.

Appendix C

Product Name	Aruba 3810M 48G PoE+ 1 slot switch
Manufacturer Part Number	JL074A
I/O Ports and Slots	48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 – 48 support MACSec 1 open module slot Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module or 4 Smart Rate ports
Additional Ports and slots	1 stacking module slot 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)
Memory and Processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal
Performance	
1,000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
Throughput	up to 190.5 Mpps (64-byte packets)
Switching Capacity	320 Gbps

Product Name	Aruba 3810M 16SFP+ 2-slot switch
Manufacturer Part Number	JL075A
I/O Ports and Slots	16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 – 16 support MACSec 2 open module slots Supports a maximum of 8 SFP+ ports or 2 40GbE ports, with optional module or 4 Smart Rate ports
Additional Ports and slots	
	1 stacking module slot 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)
Memory and Processor	
	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal
Performance	
1,000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
Throughput	up to 285.7 Mpps (64-byte packets)
Switching Capacity	480 Gbps