

# **Request for Proposal: Wireless System**

December 17, 2018

Seward Public Schools  
410 South Street  
Seward, NE 68434

Erate Identifier: Cat2.2019Wireless

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## Overview

Seward Public Schools is seeking proposals for a wireless system, potentially at all district locations. (See Appendix A for list of physical addresses.) Contract terms to be described later in this document. Top two Resellers may be asked to present their proposal to the district technology staff.

All proposals must include a lifetime warranty after online diagnosis and RMA issuance.

Installation of the equipment will be completed by the district; implementation into the district's current infrastructure must be included as part of the proposal. Equipment will be drop shipped to Seward Public Schools, 410 South Street, Seward, NE 68434.

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, January 22<sup>nd</sup>, 2019 by 3:00 pm CST** at Seward Public Schools, Attn: Craig Williams, 410 South Street, Seward, NE 68434 or emailed to [craig.williams@sewardschools.org](mailto:craig.williams@sewardschools.org). E-mailed proposal documents will be time-stamped from the receiving computer.

Proposal opening to be on **Tuesday, January 29<sup>th</sup>, 2019 at 11:00 am CST**, at Seward Public Schools, Board Room, 410 South Street, Seward, NE 68434.

Questions should be addressed, no later than Wednesday, January 9<sup>th</sup>, 2019, to:

Craig Williams

Email: [craig.williams@sewardschools.org](mailto:craig.williams@sewardschools.org)

Questions and Answers will be posted on district website (<http://www.sewardpublicschools.org/>) by Friday, January 11<sup>th</sup>, 2019.

## 1.1 Description of Project.

Seward Public Schools is requesting proposals for a wireless system at all district locations. Generally, this RFP is requesting one AP per classroom and common areas. Classroom access point (AP) capacity is estimated at between 40--75 IP requests to the network. **All proposals must include access points and management software.** The top two vendors may be asked to present their proposal to the district technology staff.

The total number of access points, by school are as follows:

- Seward High School – 54
- Seward Middle School – 44
- Seward Elementary School – 42

## 2.1 Product Specifications.

The proposed solution must provide an intelligent Wireless solution that meets the requirements provided below. **Vendors are required to complete the questions posted in Appendix B as part of their proposal.** Your response should describe how your offering would meet these requirements below. 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 be for 802.11ac Wave 2 access points operating in a 4x4 MIMO with 4 Spatial Streams
- Support 802AF/AT POE/POE+ not to exceed 22.5 Watts
- Access Points must support dual concurrent, dual-band radios
- Access Points must be available with internal antennas unless otherwise specified.
- The wireless management system may be hardware appliance, virtual appliance or cloud based, but must support the following
- Role-based differentiated user access connected to Microsoft Active Directory and third-party solutions such as but not limited to Facebook, Google, etc.
- Critical real time applications through policy applied by user identification and/or group/vlan membership for proper Quality of Service (QOS)
- AP RF Management must support automatic channel selection and transmit power controls.
- AP RF Management must adapt to new channels based on user configurable signal-to-noise ratio and channel occupancy.
- Ability to disable a single radio in an Access point individually from the management console.
- Dashboards with drill down ability
  - Customized reporting for historical and real-time data
- Interactive topology maps
  - Device views

- Events logs
- Device search functionality
- The Access Points (APs) must support the following:
  - Rate limiting at the AP per client and application.
  - Seamless roaming between wireless APs at OSI layer 2/3. Roaming should be transparent to user and running applications.
  - Load balancing and band-steering.
  - Plug and Play installation.
  - 802.11h for dynamic channel control
  - Access Points must support a minimum of 10 SSIDs (5 per radio).
    - 802.11e protocols including WMM, TSPEC and U-APSD.

### **3.1 Installation and Implementation.**

Installation of the equipment will be completed by the district; implementation into the district's current infrastructure must be included as part of the proposal.

### **4.1 Maintenance and Support.**

Five (5) years of controller management software, included cloud-based if necessary, must be included in the proposal cost. Cloud licensing must be included in the proposal cost (Eligible for Erate funding). If lifetime warranty is included, this needs to be noted in the proposal.

### **5.1 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.

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.

### **6.1 Evaluation Process.**

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

## **7.1 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 Craig Williams, Seward Public Schools, [craig.williams@sewardschools.org](mailto:craig.williams@sewardschools.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).

## **8.1 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 Seward Public Schools decide to do so. The purchase of said equipment will require an approval process which will not be complete until the noted "Anticipated Award Date". 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 [craig.williams@sewardschools.org](mailto:craig.williams@sewardschools.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 Seward Public Schools has the right to reject all submitted proposals and resubmit for new proposals through a revised RFP.

## **9.1 Vendor Questions and Clarifications.**

Questions should be addressed, no later than Wednesday, January 9<sup>th</sup>, 2019, to:  
Craig Williams  
Email: [craig.williams@sewardschools.org](mailto:craig.williams@sewardschools.org)

Questions and Answers will be posted on district website (<http://www.sewardpublicschools.org/>) by Friday, January 11<sup>th</sup>, 2019.

## Appendix A

| <b>TABLE 5.1: SEWARD ELEMENTARY SCHOOL</b>                              |            |             |              |
|---|------------|-------------|--------------|
| <b>Erate Eligible Services</b>  |            |             |              |
| <b>Description*</b>   | <b>Qty</b> | <b>Unit</b> | <b>Total</b> |
| <b>Access points</b>  | <b>42</b>  |             |              |
| *Proposal costs must include 5 years of controller management software. |            |             |              |

| <b>TABLE 5.2: SEWARD MIDDLE SCHOOL</b>                                  |            |             |              |
|---|------------|-------------|--------------|
| <b>Erate Eligible Services</b>  |            |             |              |
| <b>Description*</b>   | <b>Qty</b> | <b>Unit</b> | <b>Total</b> |
| <b>Access points</b>  | <b>44</b>  |             |              |
| *Proposal costs must include 5 years of controller management software. |            |             |              |

| <b>TABLE 5.3: SEWARD HIGH SCHOOL</b>                                    |            |             |              |
|---|------------|-------------|--------------|
| <b>Erate Eligible Services</b>  |            |             |              |
| <b>Description</b>  | <b>Qty</b> | <b>Unit</b> | <b>Total</b> |
| <b>Access points</b>  | <b>54</b>  |             |              |
| *Proposal costs must include 5 years of controller management software. |            |             |              |

## Appendix B

Vendors are required to submit the following information as part of their proposal:

- Please provide the following specifications for your product:
  - Maximum Transmit power of each radio
  - Over-the-air performance in Gbps
  - Number of LAN ports and capabilities including performance
  - Authentication and Accounting options, IE: Radius and Active Directory
  - Do the APs support an autonomous or semi-autonomous mode of operation? If yes, Please describe how the APs support encryption, security, filtering, RF Management and QoS without the dependency of a wireless appliance.
  
- High-Availability, please describe:
  - Centrally-deployed configurations and upgrades.



## Appendix C

Evaluation Rubric  
Seward Public Schools  
Erate: Cat2.2019Wireless

### 1. Cost of eligible equipment and/or eligible maintenance .....25 points

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

### 2. Features included .....20 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.

### 3. 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. Systems Engineer or Product Integrator within 250 miles.

### 4. Reliability .....15 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

### 5. User Interface .....15 points

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

### 6. References .....10 points

References will be contacted and points awarded on their responses.