

# **Request for Proposal: Wireless System**

December 19, 2014

Diller-Odell Public Schools  
506 Perry Street  
Diller, NE 68415

Erate Identifier: Category Two RFP Wireless

# Table of Contents

Overview.....	3
1.1 Description of Project.....	4
2.1 Product Specifications.....	4
2.2 Centralized Network Management.....	6
4.1 Maintenance and Support.....	6
5.1 Evaluation Process.....	7
6.1 Discrepancies and Omissions.....	7
7.1 Contingencies.....	7
8.1 Vendor Questions and Clarifications.....	8
Appendix A: Building Locations.....	9
Appendix B: Pricing Structure.....	10
Appendix C: Evaluation Rubric.....	12
Appendix D: Building Floor Plans.....	13

## Overview

Diller-Odell Public Schools is seeking proposals for a wireless system at all district locations. (See Appendix A for list of physical addresses.) Contract terms to be described later in this document.

All bidding vendors must be e-rate eligible and file an FCC Form 499A to provide the services requested and provide their SPIN number as part of this RFP.

Proposals are due in either hardcopy or in electronic form (PDF format) on or before **Wednesday, January 28<sup>th</sup>, 2015** at Diller-Odell Public Schools, Attn: Amy Coufal, 506 Perry Street, Odell, NE 68415 or emailed to [acoufal@dillerodell.org](mailto:acoufal@dillerodell.org). E-mailed proposal documents will be time-stamped from the receiving computer.

Proposal opening to be on **Wednesday, February 4<sup>th</sup>, 2015 at 9:30 am** at Educational Service Unit No 5, 900 West Court Street, Beatrice, 68310.

Questions should be addressed, no later than Friday, January 16<sup>th</sup>, 2015, to:

Amy Coufal

Ph: 402.766.4210 | Email: [acoufal@dillerodell.org](mailto:acoufal@dillerodell.org)

Questions and Answers will be posted on district website (<http://www.dillerodell.org/>) by Wednesday, January 21<sup>st</sup>, 2015.

## 1.1 Description of Project.

Diller-Odell Public Schools is requesting proposals for a wireless system throughout the district. All building floor plans are attached (See Appendix D). Each classroom is expected to have 1 access point and every commons area should have the capacity that is marked on the floor plan. Classroom access points (AP) capacity is estimated at between 30-50 IP requests to the network. The LAN policies are currently managed both wired and wireless by an Extreme (previously Enterasys) NAC device at all buildings and will enforce district access via this policy management to the AP. **All proposals must include access points and management software.** The top two vendors will be asked to present their proposal to the district technology staff in person. CAT6 cabling terminated with a CAT6 surface mount box at the site of the AP will be provided.

Generally, this RFP is requesting one AP per classroom with common areas such as gym to be served as identified on the floor plan diagrams.

Floor Plan Identification:

CL .....CLassroom identification  
CAxxxx .....Common Area xxxx =number of IP addresses  
IE.: CA1000 would mean a common area requiring 1000 IP accesses

## 2.1 Product Specifications.

The proposed solution must provide an intelligent Wireless 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.

- Access Points must support dual concurrent, dual-band 802.11ac/an/bgn connectivity.
- Access Points must support 802.11ac operating in a preferred 3x3 MIMO with 3 spatial streams.
- Access Points must be energy efficient, supporting 802.3af PoE and using less than 12.95 Watts of power with all functionality enabled.
- Access Point should provide the option for an external power adapter.
- Access Points should be available with internal or external antenna options. Please describe available APs and the antenna options.
- Please provide the maximum transmit power of each radio.
- Must document over-the-air performance in Gbps.
- Access Points pps (packet per performance) performance must be listed. A pps of 75,000 on the wired port is desirable.
- Access Points must support a semi-autonomous mode of operation being able to support intelligent AP encryption, security, filtering, RF Management and QoS, without dependency of the wireless appliance.
- Must support rate limiting at the AP.

- Access Points must simultaneously support tunneled traffic and bridged traffic at the AP.
- Must support assignment of role-based policies to the clients/devices. Please describe how this is supported.
- Access Points must support self-forming and self-healing meshing
- Access Point must support plug and play installation.
- 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 must support up to 16 SSIDs (8 per radio).
- Access Points RF Management must support automatic channel selection and transmit power controls.
- Access Points RF Management must adapt to new channels based on user configurable signal-to-noise ratio and channel occupancy.
- Access points must support 802.11e protocols including WMM, TSPEC and U-APSD.
- System must support centrally-deployed configurations and upgrades. Please describe this capability.
- 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.
- Must support fast, secure roaming and handover (pre authentication, OKC), as well as seamless roaming between IP subnets and multiple wireless appliances. Please describe this capability.
- Wireless appliances must support a flexible deployment options supporting both a centralized or distributed architecture. Please describe the wireless appliance architecture.
- Wireless appliances should be available as hardware-based or virtual appliance option. Please describe the available appliance options.
- Must support session availability option for wireless appliance. Please describe how this is accomplished and describe the cost for any extra licenses required for high availability.
- Wireless appliances and access points must support IP Quality of Service at the wireless and wired side. Please describe this capability.
- Must describe Authentication and Accounting options ie.: RADIUS and active directory support.
- Must provide documentation on the number of Ethernet ports available on each Access Point and how they are currently being used.
- Please describe the warranty offered for all devices in this proposal
- Must provide access to a live support call.

## 2.2 Centralized Network Management.

**The proposed solution must be managed by Extreme's Netsight management tools or provide a complete centralized Network Management 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 management of the entire infrastructure including wired and wireless devices.
- Management application must include:
  - Dashboards with drill down ability
  - Customized reporting for historical and real-time data
  - Interactive topology maps
  - Device views
  - Events logs
  - Device search functionality
- Must provide the capabilities to modify, filter, and create your own flexible views of the network
- Must allow for graphing or viewing in table format and multiple OIDs that are user selectable.
- Must provide a tool to find the physical location of systems and end users, and where they are connected, quickly and easily.
- 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 provide a utility to view and select MIB objects from a tree-based representation.
- Must support the ability to define policies once and enforced the policies automatically on the proposed devices.
- Must be able to deploy policies network wide, wired and wireless.

## 3.1 Maintenance and Support

First year maintenance and support must be included in the proposal cost (Eligible for Erate funding). Year two and three maintenance and support should be listed as an optional purchase (Ineligible for Erate funding support).

## 4.1 Pricing and Payment Structure

Vendors are required to breakdown the purchases by building as outlined in the table in Appendix B. Vendors are required to complete Appendix B 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. Once a contract is awarded, the total dollar amount is the responsibility of the district. The contract will define the 50% of installation complete amount.

30 days after contract signature	30 days after 50% installation complete	30 days after final testing completed
20% of contract	40% of contract	100% of contract

**5.1 Evaluation Process**

Please refer to Appendix C for further details regarding the evaluation process

**6.1 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 Amy Coufal, Diller-Odell Public Schools, [acoufal@dillerodell.org](mailto:acoufal@dillerodell.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).

**7.1 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 Diller-Odell 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 to [acoufal@dillerodell.org](mailto:acoufal@dillerodell.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 Diller-Odell Public Schools has the right to reject all submitted proposals and resubmit for new proposals through a revised RFP.

## 8.1 Vendor Questions and Clarifications.

Questions should be addressed, **no later than Friday, January 16<sup>th</sup> 2015**, to:

Amy Coufal  
Ph: 402.766.4210 | Email: [acoufal@dillerodell.org](mailto:acoufal@dillerodell.org)

Questions and Answers will be posted on district website (<http://www.dillerodell.org/>) by Wednesday, January 21<sup>st</sup>, 2015.

Final



## Appendix A

### Location of Buildings

<b>Building</b>	<b>Address</b>
Diller-Odell Elementary School	315 Smith Street, Diller, 68342
Diller-Odell High School	506 Perry Street, Odell 68415

Final

**Appendix B \*\*\***

<b>TABLE 4.1: DILLER-ODELL ELEMENTARY SCHOOL</b>				
<b>Erate Eligible Services</b>				
<b>Description</b>	<b>Model</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
<b>Maintenance (Yr1)</b>				
<b>Support</b>				
<b>Optional Purchases</b>				
<b>Description</b>		<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
<b>Maintenance – Additional 1 year</b>				
<b>Maintenance – Additional 2 years</b>				
<b>Support</b>				

<b>TABLE 4.2: DILLER-ODELL HIGH SCHOOL</b>				
<b>Erate Eligible Services</b>				
<b>Description</b>	<b>Model</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
<b>Maintenance (Yr1)</b>				
<b>Support</b>				
<b>Optional Purchases</b>				
<b>Description</b>		<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
<b>Maintenance – Additional 1 year</b>				
<b>Maintenance – Additional 2 years</b>				
<b>Support</b>				

\*\*\* If Vendor requires additional space to complete the proposal, please insert additional lines so all proposed equipment can be included in Appendix B.

**Appendix C**

Evaluation Rubric  
Diller-Odell Public Schools  
Erate: Category Two Wireless System

**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. Compatibility with currently owned district devices .....20 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 included .....15 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. Reliability .....10 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 Interface .....10 points**

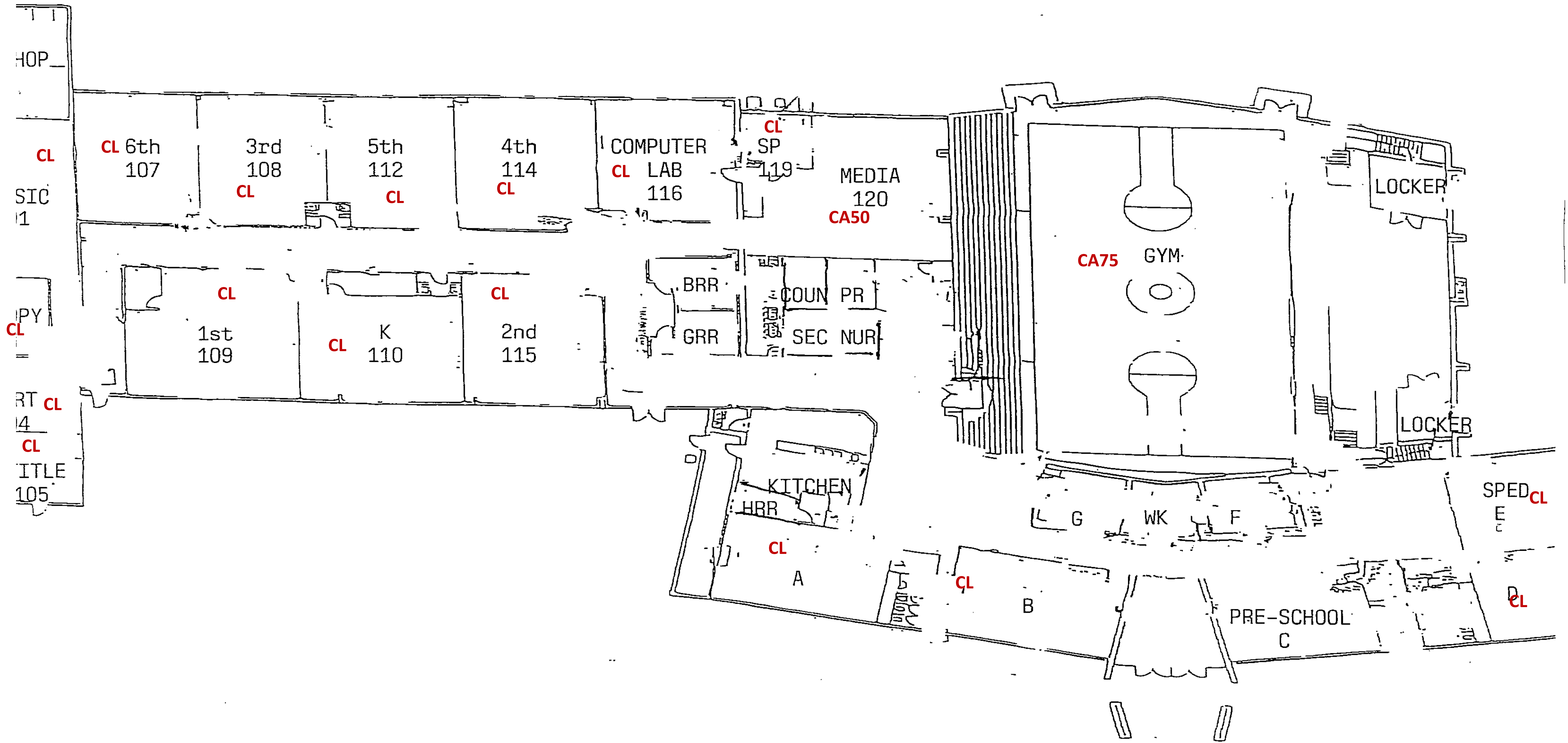
The user interface will be evaluated and points awarded on the ease of use and the completeness of the interface to the device.

**7. References .....10 points**

References will be contacted and points awarded on their responses.

**Appendix D**  
**Building Floor Plans**

Final





# DOHS Rooms 2012-13

2nd level

