

Bethany Public Schools
Request for Proposal
Wireless Solution for Bethany Public Schools

Dear Bidder:

You have elected to participate in a competitive procurement to furnish Ethernet/Fiber cabling, wireless access devices, and other equipment as required to furnish or upgrade a wireless solution for Bethany Public Schools. The request for proposals will end on 2:00 p.m. January 13, 2015.

Proposed Service:

Part Number	Description
Admin Main Rack	
J9824A	HP 5406R-44G-PoE+/4SFP (No PSU) v2 z12 Switch
J9538A	HP 8-port 10GbE SFP+ v2 z1 Module
Admin Rack 2	
J9836A	2920-48G-PoE+
Server Rack	
J9836A	2920-48G-PoE+
Elem Main Rack	
J9824A	HP 5406R-44G-PoE+/4SFP (No PSU) v2 z12 Switch
J9538A	HP 8-port 10GbE SFP+ v2 z1 Module
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module
Elem Library	
J9836A	2920-48G-PoE+
Elem Room B107	
J9836A	2920-48G-PoE+
Elem Computer Lab	
J9836A	2920-48G-PoE+
Elem Upstairs Rack	
J9825A	HP 5412R-92G-PoE+/2SFP+ (No PSU) v2 z12 Switch
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module
ECC Rack	
J9836A	2920-48G-PoE+
Middle School Main Rack	
J9823A	HP 5406R-44G-PoE+/2SFP+ (No PSU) v2 z12 Switch
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module
High School Main Rack	

J9825A	HP 5412R-92G-PoE+/2SFP+ (No PSU) v2 z12 Switch
J9538A	HP 8-port 10GbE SFP+ v2 z1 Module
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module
High School Business Lab	
J9823A	HP 5406R-44G-PoE+/2SFP+ (No PSU) v2 z12 Switch
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module
High School Library	
J9836A	2920-48G-PoE+
High School Room 14	
J9836A	2920-48G-PoE+
High School Gym	
J9836A	2920-48G-PoE+
High School New Lab Rack	
J9823A	HP 5406R-44G-PoE+/2SFP+ (No PSU) v2 z12 Switch
J9534A	HP 24-port Gig-T PoE+ v2 z1 Module

District understands all model and part numbers listed are preferred, and will accept proposals for functional equivalents.

Additionally, all additional components such as optical fiber transceivers, power supplies necessary to support the required Power Over Ethernet (POE) utilization, and all required Category 6 and fiber-optic patch cables should be included as part of the final proposed design in order to deliver a fully-functional system.

Uninterruptible Power Supply (UPS) equipment should be proposed as determined by the vendors in order to provide at least six minutes of operation of all switch equipment listed above. Vendors should account for POE port usage by wireless access points.

Classroom and Office Area Access Points

Part Number	Description
AH-AP230-AC-FCC	AP230, indoor plenum rated, 2 radio 3x3:3 802.11a/b/g/n/ac, 2 10/100/1000, USB, FCC regulatory domain, without power supply
AH-ACC-BKT-80211AC-KIT	AP370/AP390, AP230 15/16", 9/16", 3/8" ceiling mount brackets for recessed and non-recessed ceiling tiles with AP370/AP390 and AP230 locking bracket
AH-HMOL-8x5-1YR-AC-300	HiveManager Online Express or Enterprise for one 802.11ac AP370/390 for one year, includes 8x5 Phone support, software subscription, and customer portal access

Auditorium and Cafeteria Area High Density Access Points

Part Number	Description
AH-AP-390-AC-FCC	AP390, indoor plenum rated, 2 radio 3x3:3 802.11a/b/g/n/ac, 2 10/100/1000, USB, FCC regulatory domain, without power supply
AH-ACC-BKT-80211AC-KIT	AP370/AP390, AP230 15/16", 9/16", 3/8" ceiling mount brackets for recessed and non-recessed ceiling tiles with AP370/AP390 and AP230 locking bracket
AH-ACC-300-ANT-KIT	AP390, AP350 articulated indoor antenna kit (3x2.4Ghz 4dBi and 3x5Ghz 4dBi antennas)
AH-HMOL-8x5-1YR-AC-300	HiveManager Online Express or Enterprise for one 802.11ac AP370/390 for one year, includes 8x5 Phone support, software subscription, and customer portal access

Final proposed design shall include the required number of wireless access points to provide coverage for up to 60 concurrently connected wireless devices in each classroom or suite of offices.

Cafeterias, auditoriums, and other high-density areas should be planned with an anticipated maximum, concurrent capacity of up to 500 endpoint devices.

Minimum indicated signal strength for all coverage areas shall be at least -65 dBi.

Wireless proposals must be validated by a predictive wireless coverage survey, showing heat maps for signal strength, signal to noise ratio, channel allocation (2.4 and 5 GHz), and utilization health.

District will provide floor plan maps for all covered areas.

District understands all model and part numbers listed are preferred, and will accept proposals for functional equivalents.

Final proposed design shall include all installation and configuration of equipment listed above. Selected vendor will label all equipment and cabling per E-Rate requirements, and provide documentation in electronic format of all equipment and cabling locations, authentication credentials, installation and configuration diagrams, and backup copies of configurations.

Fiber Optic Cabling

Admin Rack 2
Admin Server Rack
Elem Library Rack
Elem Room B107 Rack
High School Library Rack
High School Room 14 Rack
High School Gym Rack

Category 6

Plenum-rated, solid, Category 6 unshielded twisted pair cabling to be installed to every wireless access point location. To future-proof the wireless infrastructure, two runs (drops) shall be installed for every access point location. Access point

locations shall be terminated above suspended ceilings with CAT6 female jacks. 7 foot CAT6 stranded patch cables shall be provided for the access point side of all drops, and 3 foot stranded patch cables shall be provided for the rack side of all drops.

Cabling colors to be determined by the District prior to installation.

All components, such as fiber breakout boxes, splicing trays, patch panels, patch cables, and cable organizers shall be included to comprise a complete, fully-functional system.

All cabling should be installed according to BICSI and standards and local electrical/fire code.

All cabling shall be tested, and a report validating the test results shall be provided to the District at the conclusion of the project.

Instructions to Bidders

- A. Response to this solicitation received after the published date will be considered late, and returned to the bidder.
- B. Bids may be withdrawn at any time prior to the official response/opening time. Alterations made before opening time must be initiated by the bidder guaranteeing authenticity. After the official opening, bids may not be amended, altered, or withdrawn without the recommendation/concurrence of the School District.
- C. Bidder will sign both responses agreeing to furnish any and all items upon which prices are offered, at the price(s) and upon the terms and conditions contained in the Specification.
- D. Bidder shall submit line item labor and material pricing.
- E. Bidder will identify all subcontractors to be used on this project. Bidder will identify all partnering agreements with other vendors concerning this project and identify the lead contractor.
- F. It is anticipated that some or all of the district's costs under this Agreement shall be eligible for the "E-Rate" discount under the Federal Communications Commission (FCC) Universal Service Provision (FCC 97-157). Vendor's bids/invoices should itemize/breakdown the costs of all E-Rate eligible products and/or services from all non-E-Rate eligible products and /or services.
- G. Bid must meet existing coverage area, standards and be compatible with existing hardware.
- H. The Supplier shall obtain a valid E-rate SPIN (Service Provider Identification Number), and must provide that SPIN in the Proposal submitted in response to this bid opportunity. If a Supplier does not currently have a SPIN but would like to apply for one, the Supplier must submit a completed FCC Form 498 to the E-rate program administrator, the Schools and Libraries Division of the Universal Service Administrative Company ("SLD") The form is available on the SLD's website at: www.usac.org/sl in the forms section.
- I. The Bethany School District reserves the right to accept or reject in part or in whole any bids submitted and to waive any technicalities in the best interest of the Bethany School District.
- J. The proposal is to be sent to Bethany Public Schools: Attention: Tim Haws, 6721 NW 42, Bethany, Oklahoma 73008.
- K. The outside of the envelope must be marked Cellular Service for I-phones and cell phones.
- L. This RFP is valid only if funded by E-Rate
- M. A response that is only a copy of the company brochure of available services will not be considered responsive.**

Sincerely,

Tim Haws
Special Services Coordinator
Bethany Public Schools
6721 N.W. 42nd Street
Bethany, OK 73008
(405) 499-4611