

E-rate 2012

Priority 2, Internal Connections and Basic Maintenance

Wireless - See specifications below

Locations:

Ansonville Elementary School:	hardware quantity request is	6
Anson New Technology High School:	hardware quantity request is	3
Anson County Early College:	hardware quantity request is	4
Anson High School:	hardware quantity request is	19
Anson Middle School:	hardware quantity request is	12
Anson Central Office:	hardware quantity request is	1

Servers - See specifications below

Locations:

Ansonville Elementary School:	hardware quantity request is	1
Anson New Technology High School:	hardware quantity request is	1
Anson County Early College:	hardware quantity request is	1
Anson High School:	hardware quantity request is	1
Anson Middle School:	hardware quantity request is	1
Anson Central Office:	hardware quantity request is	3

Switches - See specifications below

Locations:

Ansonville Elementary Schools :	Fiber switch hardware quantity is	3
	POE, 48 port 10/100/1000 hardware quantity is	3

Anson County Early College:	Fiber switch hardware quantity is	3
Anson High School:	Fiber switch hardware quantity is	10
	POE, 48 port 10/100/1000 hardware quantity is	13
Anson Middle School:	Fiber switch hardware quantity is	8
	POE, 48 port 10/100/1000 hardware quantity is	14
Anson Central Office:	Fiber switch hardware quantity is	3
	POE, 48 port 10/100/1000 hardware quantity	3

Wireless Specifications:

- Multi-radio, multi-sector antenna system creates a customizable 360° coverage pattern
- Directional antennas provide increased transmit gain and greater receive sensitivity to increase range
- Provides 2X the range and 4X the coverage area, enabling greater data rates at a given range.

All bids must require documentation regarding their products are equal to or exceeds our current solution. Our current wireless solution standard is a Xirrus model XN8.

Wireless Standards Supported

802.11a, 802.11b, 802.11d, 802.11g, 802.11e

802.11h, 802.11i, 802.11j, 802.11n

Bids must support the above wireless standards, QOS and the latest encryption standards and the management controller software that will communicate with our existing system. We will require an uninterruptable power supply per closet for the wireless devices.

Server Specifications:

For all eligible locations except our Central office we will need:

Servers equal to or better than our Current HP ML 350 and ML 370 Servers.

Each server must be a tower.

Domain Controllers that handle DHCP, DNS and Active Directory

Each server will should have a minimum of 24GB of RAM, a minimum of 2 Dual Quad Processors, Raid configuration and a hard drive capacity to ensure all current data will run from the DC. The vendor must provide Windows Server 2008 software and license.

We require an uninterruptable power supply for each server.

Central Office Server Requirements:

We need servers that are equal to or better than our Current HP ML 350 and ML370 Servers.

Virtualized servers:

Servers may be rack mountable.

Domain Controllers that handle DHCP, DNS and Active Directory

Email Server

Specifications to handle this:

3 Servers to host virtualized software that will allow us to host all DHCP, DNS, Active Directory and Email (Exchange)

Each server should have a minimum of 64GB of RAM, a minimum of 2 Dual Quad Processors,

Raid Configuration and a SCSI SAN device to handle all eligible components.

The vendor should provide Windows Server 2008 OS, software and licenses.

Switch Specifications:

For all eligible locations except our Central office we will need:

The switches must provide Layer 3 capabilities, POE, 10GB fiber throughput between IDF closets and MDF Closet, and 10/100/1000 connection. Must be compatible with existing Cisco 3750 Layer 3 Switches, current IOS and preferably stackable with existing switches.

Our objective is to transmit 10 GB uplinks from the MDF closet to IDF Closets and GB speed to the desktop or other devices over all 48 Ethernet ports. 10/100/1000 switches must be POE.

Design Note:

All switches must be equal to or greater than our current Cisco platform standards.

We will evaluate different designs but the proposal must interface and be compatible with existing hardware to ensure manageability, reliability and performance. **In your proposal, your quantity may vary from ours depending on the model, design and current stacking availability.** We currently run Cisco 3750s-POE, 24 & 48 port switches that allows 1 GB fiber interface uplink between closets.

In all eligible facilities, the larger Layer 3 core switch should efficiently process larger amounts of data. All hardware cannot have any compatibility issue with our existing hardware.

Vendors must provide the necessary cables and interfacing components.

We will require an uninterruptable power supply per closet for the switches.

Central Office Switch requirements:

At the Central Office we need a **larger** Layer 3 Catalyst Switch to handle and route all incoming WAN traffic. All switches at all eligible sites must first communicate and interface with our existing Cisco Switches without any conflicts. All new switches must interface with our current Cisco switches either by a stacking cable or an interface that will provide full data throughput. Vendors must provide the necessary cables and interfacing components.

48 port POE GB Ethernet ports preferred.

All switches must be equal to or greater than our current Cisco platform standards.

Uninterruptable Power Supply Specifications:

Minimum backup power that is not in excess of the e-rate eligibility for basic power protection is needed for all current existing hardware in each closet. We will require a representative from our Maintenance Department to answer your questions regarding our current power circuit capacity.

Walk-through for proposals:

We suggest a walk-through to ensure accurate proposals for the UPS and Switches request. We are not requiring the wireless and server proposals have a walk-through. All vendors can send in their proposals based on specifications and quantity listed. You may email hinson.milton@anson.k12.nc.us for the date of the walk-through and if further information is needed. The walk-through process is not mandatory and we will schedule it to help the vendors understand our needs.