

Introduction

The information gathered in this survey will be used to support statewide planning efforts for digital teaching and learning. This information will be shared with the NC General Assembly. In the event that legislation or funding to support these initiatives becomes a reality during the current session, your answers will be the basis for such decisions. Support for these critical teaching and learning tools and infrastructure will be necessary for the transition to digital education.

Select Your LEA and School

LEA Code

School Name

Current School Wireless Networking

These questions are regarding the Wireless LAN infrastructure in your school. Only count access points that are permanently installed at the school. Do not include APs that are mobile in nature. (ie laptop cart AP's, etc)

Wireless Access Point (AP) Density

We recognize that Access Points may not be installed directly in every classroom, in such case provide the average number of APs per classroom for covered instructional areas. For example, if your instructional space of 50 classrooms has 63 Access Points, answer "1+ APs per classroom."

If a wireless array which incorporates multiple radios into a single device and uses directional antennas is deployed, assume that 2 radios is equivalent to 1 Access Point.

How many classrooms does your school have? (type a number, Eg. 10 or 23)

How many access points are in the school? (type a number)

Common Areas Where Formal and Informal Instruction Occur

	Room Capacity (# Persons) (note: You must enter a numerical value for each location. If n/a, please type 0.)	Number of Access Points (note: You must enter a # in each entry box. If n/a, please type 0.)
Library	<input type="text"/>	<input type="text"/>
Cafeteria	<input type="text"/>	<input type="text"/>
Auditorium	<input type="text"/>	<input type="text"/>
Indoor Commons Area	<input type="text"/>	<input type="text"/>
Outdoor Commons Area	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>

Athletic Facilities Where Classes Regularly Meet

	Number of Facilities	Number of Access Points
Gym	<input type="text"/>	<input type="text"/>
Weight Room	<input type="text"/>	<input type="text"/>
Outdoor Athletic Fields	<input type="text"/>	<input type="text"/>

Administrative Suite

	Please write the #
Number of Faculty/Staff Working in Administrative Areas	<input type="text"/>
Number of Access Points	<input type="text"/>

Predominate Vendor

What is the dominant vendor of your **wireless** networking gear?

- Aerohive
- Aruba
- Cisco
- Meraki
- Ruckus
- Xirrus
- None

Other (please specify)

Model Numbers

Indoor AP Model Number

Total Indoor APs

Outdoor AP Model Number

Total Outdoor APs

802.11 protocols supported

a

b

g

n

ac

Are your AP's powered over ethernet?

Yes

No

Controllers

Cloud-Based Controller (Aerohive, Meraki, etc)

Wireless Controller Located On-Site at the School

Wireless Controller Shared w/ Other Schools

Traffic Methodology

Premise wireless controllers can be configured for various traffic routing methodologies. In most deployments, all traffic flows through the backplane of the control gear. In other approaches, control infrastructure simply manages access points, allowing traffic to flow directly to the source.

Which methodology does this school use?

All traffic flows through the wireless controller

The controller is for management only

In what year was your **wireless** gear installed? (Eg. 2010, not '10)

Current School Wired Networking

Current School Wired Networking

Predominate Vendor

What is the dominant vendor of your **wired** networking gear?

- Cisco
- Linksys
- HP
- Dell
- Aerohive
- Netgear
- D-Link
- Other

Please answer the following two questions for the predominant switch in the school

Predominant Switch Vendor

Predominant Switch Model Number

Total Number of Switches

Total Number of Switches

Average Number of Ports Per Switch

Predominate Port Speed

- 100 Mbps
- 1 Gbps

In what year was your **wired** LAN equipment deployed? (Eg. 2005, not '05 or 05)

Wiring Technology

What is the predominate wiring technology in this school?

- Cat 4
- Cat 5
- Cat 5e
- Cat 6
- Cat 6a

WAN Circuit Provider

- AT&T
- CenturyLink
- Time Warner Cable
- Other

What is the circuit speed?

- 10 Mbps
- 25 Mbps
- 50 Mbps
- 100 Mbps
- 250 Mbps
- 500 Mbps
- 1 Gbps
- 10 Gbps

Facilities

Site Layout

- Main Building/Tight Core: This campus has a central core. Cafeterias, Gyms, Libraries, and Administrative Functions are Central. Classroom wings and accessory buildings are physically attached to the central core.
- Multi-Building/Decentralized Core: Multiple detached classroom buildings. Core services are spread across buildings.

Wall Materials

What is the predominate wall material in your physical buildings?

- Drywall
- Cinder Block
- Brick
- Concrete
- Other

What percentage of the building contains “drop ceilings”?
(note: you must move the slider away from its starting position)



Number of Floors

What is the predominate number of floors on this campus (please enter a #):

Mobile Units

	Please Enter a #; if n/a, enter 0
Number of Mobile Classrooms in multiple units (i.e. interior entrances and hallways)	<input type="text"/>
Number of Mobile Classrooms in individual units	<input type="text"/>

Distance to Main & Intermediate Distribution Frames

Percentage of Classrooms **within 100 meters** of a “wiring closet” or distribution frame:



% of classrooms

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HVAC

Do your wiring closets have sufficient HVAC to keep equipment cool?

- Yes
 No

Capacity

Do your wiring closets have capacity for additional switching that would be required for a wireless network deployment?

- Yes
 No

Moving To Digital Learning Ready Wireless

Over the next two years, North Carolina will work to best leverage state, local, and federal funding to expand wireless networking in schools. Digital Learning Ready wireless provides high density wireless coverage (1/1+ AP Per Classroom) for instructional areas, and nominal coverage in all other areas.

Based on the answers you have provided, and instructional initiatives of this school:

- This School has Digital Learning Ready Wireless in place
 This School needs increased wireless networking to become Digital Learning
 This School has limited or no wireless networking, and will require a full deployment to become Digital Learning ready.

This School has Digital Learning Ready Wireless

While your school wireless network may be ready for Digital Learning, many districts would like additional assistance with their infrastructure. Please discuss any additional assistance you need for your wireless network for this school.

This School needs increased wireless networking to become Digital Learning ready:

This school is on the way to Digital Learning ready. We will follow-up regarding expanding your infrastructure to support Digital Learning. Please provide any additional information regarding this school's technology or instructional goals that can assist us in evaluating your needs.

This School has limited or no wireless networking, and will require a full deployment to become Digital Learning ready.

This school needs significant infrastructure to be become Digital Learning ready. We will follow-up regarding expanding your infrastructure to support Digital Learning. Please provide any additional information regarding this school's technology or instructional goals that can assist us in evaluating your needs.

Misc Extra Items

The following few survey items will help other groups working on North Carolina's Digital Learning Plan. We greatly appreciate your feedback.

Please indicate the FTE total for the technology facilitator(s) employed at each school in your district. [Note: Use "0" if the school does not employ a tech facilitator, whole numbers for multiple full-time tech facilitators at the school (e.g., 1, 2, 4), two decimal places for part-time employment (e.g., .25, .50, .75., etc.). If, for example, you have one full-time and one half-time tech facilitator, please enter 1.5 or 1.50.]

How much of the content in use in this school is purchased vs. locally created?



% locally created

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Does this school have a systemic process in place to vet either purchased or locally created content?

- Yes
- No

Does this school have a systemic process in place to evaluate the effectiveness of either purchased or locally created content?

- Yes
- No

Do you have access to local funds you can use for technological resources? [LEA-level item; please feel free to only answer this question one time, rather than for each school.]

- Yes (please describe)
- No