



Fannin County School System

Developing Young futures... To Prepare for Tomorrow. Today

3 Year District Technology Plan FY 24-27

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Vision & Mission

The Fannin County School System Vision, Mission, and Strategic Plan are used by the Fannin County Technology Department as the basis for technology use to increase student learning and achievement. The district plan can be found here:

<https://www.fannin.k12.ga.us/missionandvision>

Our Vision...

The Fannin County School System holds a vision of excellence for all students with successful progression at each level and a 100% graduation rate.

Our Mission...

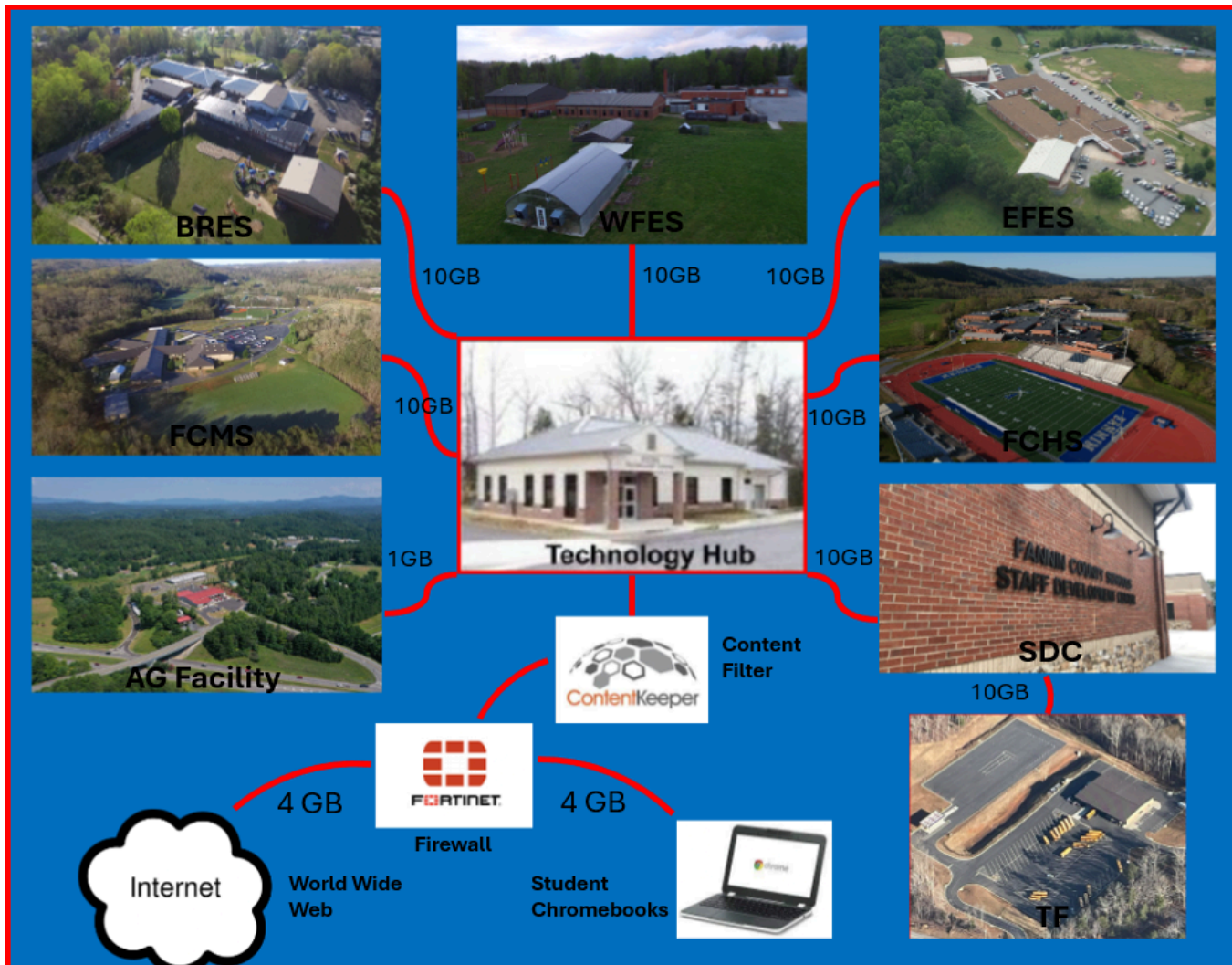
**Developing Young Futures...
To Prepare for Tomorrow,
Today**

We Believe...

1. **All students can learn and deserve equal access to a high-quality, well-rounded education.**
2. **Higher expectations result in higher achievement.**
3. **High school graduation is an essential key to lifelong success.**
4. **Parent and community involvement increase student achievement.**
5. **Education is a shared responsibility and should take place at home, in school, and in the community.**
6. **A safe and secure environment is essential for teaching and learning.**
7. **All schools are committed to preparing students for success.**
8. **An excellent education requires high-quality staff, programs, facilities, equipment, and technology.**
9. **Student needs and supports should drive decision making and school system policies.**
10. **Students deserve an education that focuses on creativity, critical-thinking, community involvement, college and career preparation, and 21st-century learning skills.**



The current WAN infrastructure is composed of 8 outlying buildings with the FCSS Technology Hub being the central location. All internet and server traffic routes through the Technology Hub. There is a 10GB fiber connection to each location, apart from the Ag Facility which is 1GB. All outbound traffic to the internet is first routed through our CIPA compliant content filter, ContentKeeper. It is then routed through our Fortinet F400 edge firewall device. We currently have 4 GB of internet bandwidth via 2 separate ISP connections for redundancy and speed.



Current Technology Equipment

All equipment itemized below is on a replacement cycle. We strive to replace our Chromebooks and Windows desktops every 5 years; Our wireless infrastructure every 5 years; laptops every 4 years; servers and the virtual environment every 5 years. The exception is the ViewSonic interactive panels which we hope will provide at least 10 years or more of service.

Wireless

FCSS currently has a total of 193 Ruckus Wireless access points system-wide. We have Wi-Fi coverage in all buildings district wide with some extended coverage to outdoor areas as well. We do offer a BYOD (Bring Your Own Device) guest network for non-school devices.

<u>Location</u>	<u># of Wireless Access Points</u>
BRES	27
EFES	26
FCHS	51
FCMS	35
WFES	36
AG Facility	3
Maintenance	1
SDC	9
Transportation Facility	4
Tech Center	1

Chromebooks & iPads

FCSS has a 1:1 program for all students in grades 3–12. Students in grades 6-12 take their Chromebooks home daily. Pre-k, 1st and 2nd grade have access to iPads and some Chromebooks as well for use at school daily. Teachers also have a Chromebook to support instruction and learning for students. Support staff have a Chromebook as well for supporting teachers and students.

<u>Location</u>	<u># of Student Chromebooks</u>	<u># of Teacher, Admin & Support Staff Chromebooks</u>	<u># of Student iPads</u>	<u># of Admin iPads</u>
BRES	508	78	266	3
EFES	416	76	247	0
FCHS	963	104	72	15
FCMS	817	72	101	3
WFES	437	88	272	0
BOE		40		6
Totals	3141	458	958	27

Windows Desktops

FCSS is a Windows only school district. We supply Windows desktops for all certified teachers and administrators within the district. We also supply Office Pro Plus and Adobe Creative Cloud as our main two applications along with the Google Education suite of products and services. Student desktops have been on the decline since the inception of 1:1 Chromebooks, but we still supply them for any needed classroom or application.

<u>Location</u>	<u># Staff Desktops</u>	<u># Student Desktops</u>
BRES	39	11
EFES	36	26
FCHS	72	100
FCMS	55	26
WFES	38	29
BOE		30
TOTALS	240	222

Windows Laptops

FCSS is a Windows only school district. We supply Windows desktops for all certified teachers and administrators within the district. We also supply Office Pro Plus and Adobe Creative Cloud as our main two applications along with the Google Education suite of products and services.

<u>Location</u>	<u># Staff Laptops</u>
BRES	20
EFES	32
FCHS	41
FCMS	32
WFES	19
BOE	40
TOTALS	184

Interactive Panels

FCSS has a systemwide installation of ViewSonic interactive panels with a built-in CPU. There is a panel in every classroom in the district, most being 65 inches in size. There are also panels in the media, commons, and administrative offices throughout the district.

<u>Location</u>	<u># ViewSonic Panels with on board Windows CPU</u>
BRES	38
EFES	32
FCHS	70
FCMS	45
WFES	35
BOE	6
TOTALS	226

Hotspots

FCSS offers AT&T, T-Mobile and Verizon hotspots for checkout in our Media Centers at each school. They are automatically paired to the students' Chromebooks and can be used at home for instructional purposes only, if internet is needed.

<u>Location</u>	<u># Available Hotspots for checkout</u>
BRES	9
EFES	7
FCHS	49
FCMS	42
WFES	13
TOTALS	120

Document Cameras

FCSS offers Document cameras for every teacher to be used to enhance instruction in their classroom.

<u>Location</u>	<u># Document Cameras</u>
BRES	38
EFES	42
FCHS	71
FCMS	75
WFES	45
TOTALS	271

Grand Total of all Managed Devices - 5838

School Bus Wi-Fi

FCSS offers school bus Wi-Fi for all students while riding the bus to and from school. Wi-Fi is also offered while students ride to and from extracurricular activities. Currently, 27 of the 45 school buses in the district are Wi-Fi enabled.

Servers

FCSS currently has a Virtual environment made up of 18 servers, all of which are Windows Server 2023. There are currently 5 physical servers with Windows Server 2023.

Google

Google Workspace for Education is used by FCSS for many different things which include Gmail for email for all staff and students; Google classroom as a learning management system; Google drive for storing and sharing files among staff and students. All the Google suite of word processing applications are used by staff and students.

Audio Enhancement

FCSS has installed Audio Enhancement in every classroom in the district. This includes 4 ceiling speakers and a microphone for the teachers to enhance audio for learning and instruction. Each classroom is also equipped with a PTZ camera that can be used to record teachers' lessons which can then be shared with students for learning and instruction. The PTZ camera can also be used for safety in the classroom in the event of an emergency. All staff in the district will wear a device that can be used to alert administrators if an urgent situation arises.

Goals, Strategies, and Benchmarks

GOAL 1: Infrastructure and Devices			
CONTINUE TO UPDATE, EXPAND, AND IMPROVE ACCESS TO 21ST CENTURY TECHNOLOGIES, INCLUDING THE NETWORK INFRASTRUCTURE, AS WELL AS END USER HARDWARE AND ACCESS TO DEVICES			
<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Seek E-Rate and other grant funding to maintain network hardware and cabling to keep LAN/Wireless robust enough to handle streaming video, voice over IP, Google Workplace for Education and all other technology needs	FY 24 - 27 All staff, students, and classrooms have access to all online resources needed for learning and instruction.	E-Rate and Grant Funding	Director of Technology & Cybersecurity
Continue to provide LAN/WAN and expand wireless access capable of handling streaming applications and 1:1 Chromebook initiative	FY 24 - 25 Wireless network will be upgraded and replaced across the entire school district. FY 22 - 27 Ongoing maintenance and upkeep of a 10GB WAN that connects all schools; continue to provide a secure and reliable network.	Local funds SPLOST E-rate Applicable grants Amount: WAN: \$45,000 annually (est.) WAP: \$250,000 (est.)	Superintendent Chief Operations Officer Director of Technology & Cybersecurity
Continue to keep all student Chromebooks and iPads updated for optimal performance for learning	FY 24 - 27 Follow our online replacement cycle to replace outdated Chromebooks and iPads after 5 years in service	SPLOST Applicable grants \$75,000 Per Year (est.)	Director of Technology & Cybersecurity School Techs

<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Replace obsolete audio systems in elementary gymnasiums at EFES and WFES to match the new one installed at BRES in 2023	FY 24 - 25 EFES and WFES gym sound systems upgraded to match the new one installed at BRES in 2023	SPLOST \$50,000 (Est.)	Director of Technology & Cybersecurity School Leaders Technology Specialists Gym Teachers
Increase morale and technology access for all teachers and office staff	FY 24 – 25 Add dual monitors to all teachers and office staff workstations	SPLOST \$24,000	Director of Technology & Cybersecurity School Techs
Continue to Support CTAE, STEAM, and STEM initiatives	FY 25 Replace FCHS video and engineering computer lab. These are high-end computers with lots of RAM, video cards, and processing power. FY 24 - 27 Support all 5 schools' STEM and STEAM technology initiatives	SPLOST \$50,000	Director of Technology & Cybersecurity FCHS Principal, Tech Specialist, and CTAE Teacher

<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Support the finance department through hardware and software upgrades	<p>FY 24 - 25 Upgrade the PCGenesis server to the latest version of Windows with new hardware</p> <p>Help Finance to continue to upgrade processes to be more streamlined and paperless.</p>	SPLOST \$15,000	Superintendent Chief Operations Officer Director of Technology & Cybersecurity Finance Director
Increase student internet access when traveling on school buses	<p>FY 24 Install Wi-Fi access on all of our school system buses for student use while traveling to and from school and extracurricular activities</p>	SPLOST & E-Rate \$40,000, 80% covered by E-Rate, if approved.	Director of Technology & Cybersecurity School Techs

<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Increase productivity and cost savings for printing district wide	<p>FY 24 - 26 Continue to remove classroom printers and purchase copiers for everyone to print to</p> <p>Consider implementing PaperCut, a cloud based printing solution</p>	SPLOST \$60,000	Superintendent Chief Operations Officer Director of Technology & Cybersecurity Finance Director
Continue to update outdated computer and technology equipment based on our replacement cycle	<p>FY 24 - 27 Replace iPads replaced as needed every 5 years or longer; ViewSonic panels replaced as needed, Laptops every 4 years, Desktops every 5 years, Chromebooks every 5 years</p>	Local Funds SPLOST \$210000 Annually (Est.)	Superintendent Chief Operations Officer Director of Technology & Cybersecurity

GOAL 2: Cybersecurity & Network Safety	CONTINUE TO PUT CYBERSECURITY AND NETWORK SAFETY AT THE FOREFRONT TO PROTECT OUR USERS AND DATA		
<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Increase cybersecurity monitoring	FY 24 - 25 Consider installing a SIEM or contracting with a company for event monitoring	SPLOST Local	Director of Technology & Cybersecurity
Increase Cybersecurity and Network protection with MFA	FY 24 Enable MFA for all district Google accounts FY 25 Enable MFA for all district Infinite Campus accounts FY 25 - 26 Consider expanding DUO MFA to more users	SPLOST Local	Director of Technology & Cybersecurity School Techs

Continue to patch and update all software and operating systems	<p>FY 24 - 27 Follow our patch procedure for installing as soon as released</p> <p>FY 25 - 26 Research the implementation of a patch management software solution for district devices</p>	Local	Director of Technology & Cybersecurity School Techs
<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Conduct Cybersecurity and Network testing	<p>FY 24 – 27</p> <p>Conduct yearly penetration tests for vulnerabilities</p>	SPLOST Local	Director of Technology & Cybersecurity
Create a Cybersecurity and Network Safety Team	<p>FY 24- 27</p> <p>Create a cybersecurity team to discuss and be proactive toward security events and vulnerabilities</p>	N/A	Superintendent Directors Director of Technology & Cybersecurity School Techs Principals Teachers

<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Strengthen desktop, laptop, and network security	FY 25 – 26 Remove Admin access from all computers in the district	SPLOST Local \$6,000	Director of Technology & Cybersecurity School Techs
Solidify my backup and Disaster Recovery solutions.	FY 24 - 27 Simulate a disaster recovery event yearly; evaluate current backup solutions for any improvements that should be made	N/A	Director of Technology & Cybersecurity

GOAL 3: Training	Conduct and receive training in regard to cybersecurity, network safety, audio enhancement, and technology in general		
<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Embrace and implement AIBe a leader in the field	FY 24 - 27 Help teachers and district staff safely implement AI	N/A	Director of Technology & Cybersecurity Directors School Techs Teachers
Continue to assist staff in using all software programs to which they have access	FY 24 – 25 Train on the Adobe Suite of products.	N/A	Director of Technology & Cybersecurity School Techs

<u>Strategies</u>	<u>Benchmark</u>	<u>Funding Source/Amount</u>	<u>Person Responsible</u>
Phishing, Cybersecurity and Network safety training.	FY 24 - 27 Continue to phish all users quarterly; Train those who fail; Implement new training in cybersecurity and safety	N/A	Director of Technology & Cybersecurity School Techs
Make sure Audio Enhancement is a successful and well used product.	FY 24- 27 Support all district staff in the use of our new Audio Enhancement equipment; Offer training on how to best use it; Encourage the use of it district-wide	N/A	Director of Technology & Cybersecurity School Techs Principals
Continue to attend conferences and trainings, when possible, to increase knowledge	FY 24 – 27 Attend cybersecurity and network-safety related conferences and events; Research and stay up to date online; Network with other directors and professionals	N/A	Director of Technology & Cybersecurity School Techs