



SSIP1 Executive Summary

District-Wide Technology Infrastructure Upgrades

October 3, 2017

Presented to Frontier Central School District Board of Education



SSIP1 Executive Summary Overview



Smart Schools Bond Act (SSBA) Overview



Frontier CSD Goals and Objectives



FCSD Smart Schools Investment Plan (SSIP) 1:
Upgrade District-Wide Technology Infrastructure



Previous and Next Steps





Smart Schools Bond Act (SSBA) Overview

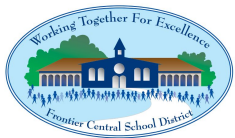


About the Smart Schools Bond Act of 2014



- The **Smart Schools Bond Act (SSBA)** was passed in the 2014 – 15 Enacted Budget and approved by the voters in a statewide referendum on Nov. 4, 2014.
- The SSBA authorized the issuance of **\$2 billion** of bonds to finance improved educational technology and infrastructure.
- The intent of the SSBA is to **improve current learning opportunities for NYS K12 students** as well as future employment potential in the 21st Century job market.

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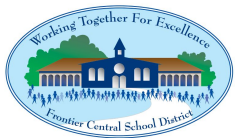


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About the Smart Schools Bond Act of 2014 (cont.)



- The SSBA provides funds for **three specific areas:**
 - Technology infrastructure & connected systems incl. high-tech security features
 - Instructional technology including devices
 - Temporary classroom upgrades to permanent structures
- The SSBA requires that a Review Board review and approve districts' **Smart Schools Investment Plans (SSIPs)** before any funds are made available.
- SSIPs are developed by a **District's SSIP team** based on current conditions and the District's five-year objectives.
- **Frontier Central School District** is eligible for **\$3,056,630** that can be used for technology and security upgrades via multiple requests.





Frontier Central School District Goals and Objectives



FCSD Mission and Technology Vision



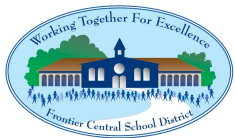
District Mission

The Frontier School Community values and expects a Frontier education to provide life skills and academic skills that allow our students to be successful in any endeavor. A Frontier education will lead to a sense of value of charity, service and community.

Technology Goal

A District Technology Program with all infrastructure needs being met with complete, seamless integration of technology into the curriculum.

Technology/ curriculum integration supported by staff development.



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FCSD Technology Goals



1. **Reliable Technology Infrastructure.** Ensure that students and staff have a reliable technology infrastructure for the next 20 years to support educational goals.
2. **Anywhere, Anytime Learning.** All learners will have access to technology in an anytime, anywhere, one-to-one computing environment.
3. **Safe School Environment.** Provide all staff and students with a safe and secure educational environment.





Frontier CSD SSIP1

District-Wide Technology Infrastructure Upgrades



Recommended FCSD SSBA Technology Priorities



Reliable Technology Infrastructure

Project - Upgrade District-Wide Technology Infrastructure

Network (Wired & Wireless)

Project - Upgrade District-wide Network Infrastructure

Building Communications Systems

Project - Security System Enhancement



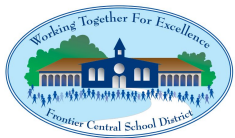
FCSD Smart Schools Investment Plan



The Smart Schools Investment Plan (SSIP) summarized here is currently estimated to utilize 100% of the District's SSBA allotment - **\$3,056,630**.

This SSIP1 Executive Summary describes the plan to **Upgrade District-Wide Technology Infrastructure** by improving the physical network and security system through:

- Improved communications pathways and upgraded cabling (Cat 6/6A)
- New equipment racks, cabinets, and cable management
- New network switches (cost split between SSBA and E-Rate)
- A new fiber optic backbone to support 10 Gbps requirements
- Integrated Security Management System with improved perimeter access control and video surveillance

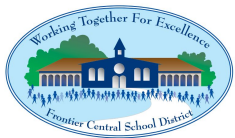


SSIP1: District-Wide Technology Infrastructure Upgrades (cont.)



SSIP1 Total Funding

Categories	Sub-Allocation \$ Amount
School Connectivity (details on next pages)	\$2,184,758
High-Tech Security (details on next pages)	\$871,872
Total Estimated Cost	\$3,056,630



SSIP1: District-Wide Technology Infrastructure Upgrades (cont.)



SSIP1 Technology Infrastructure

Items	Total Cost
New Technology Rooms - 9 Rooms District Wide (AMEP, Grounding/Bonding & Fittings)	\$225,000
Communication Equipment Room Fittings - District Wide (Racks, Cable Runways, Wire Management)	\$352,000
Primary Communications Pathways - District Wide (Conduit, Sleeves, Cable Tray, Firestop)	\$65,500
Secondary Communications Pathways - District Wide (Surface mount raceway, radius fittings and devices boxes)	\$103,200
Redundant Service Provider Conduit - District Wide	\$112,000
Fiber Optic Backbone Cabling Upgrades - District Wide	\$93,300



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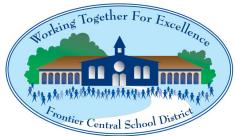
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SSIP1: District-Wide Technology Infrastructure Upgrades (cont.)



SSIP1 Technology Infrastructure (cont.)

Items	Total Cost
Horizontal Cabling - District Wide (Category 6 For Wired Network, Category 6A for Wireless Network)	\$304,690
Horizontal Cabling - High School (50% of cost - shared with E-Rate)	\$114,125
Press Box Backbone Conduit - High School	\$23,000
Relocate Intrabuilding and Service Provider Fiber - Middle School	\$20,000
Main Telecommunication Room Recabling - Middle School	\$22,750
Upgrade Network switches (50% of total cost - shared with E-Rate)	\$253,000
Total Technology Infrastructure Costs (Does not include Professional Services)	\$1,688,565

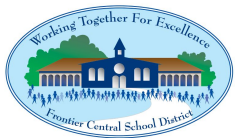


SSIP1: District-Wide Technology Infrastructure Upgrades (cont.)



SSIP1 High-Tech Security

Items	Total Cost
Integrated Security Management System, Upgraded Video Surveillance, and Perimeter Door Monitoring	\$670,671
Total High-Tech Security Costs (Does not include Professional Services)	\$670,671

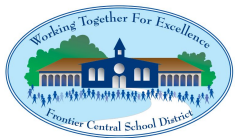


SSIP1: District-Wide Technology Infrastructure Upgrades (cont.)



SSIP1 Professional Services

Items	Total Cost
Wireless Network Survey	\$99,760
Professional Services (30% - Design Contingency, Construction Contingency, Incidentals)	\$597,634
Total Other Costs	\$697,394
Total Project Costs	\$3,056,630





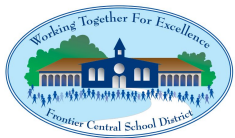
Next Steps



SSIP1 Next Steps



Date	Milestone
Oct. 3	SSIP1 Executive Summary - Preliminary Approval By Board
Oct. 4	SSIP1 Executive Summary posted to district website for 30-day review
Oct. 17	SSIP1 Public Forum, time/location TBD
Nov. 7	SSIP1 Executive Summary - Final Approval By Board
Nov. 10	SSIP1 Submission to SSBA website

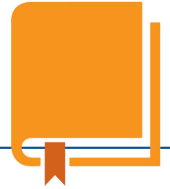




Available Resources



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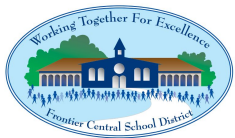


FCSD Resources

- District Strategic Plan
- District Technology Plan
- District Comprehensive Technology Plan

NYS Resources

- Smart Schools Bond Act of 2014 Statute
- Smart Schools Bond Act FAQs
- Smart Schools Bond Act (SSBA) Guidance
- NYS State Education Dept. (SED) SSBA website





Questions and Discussion

