



Ramapo Central School District
45 Mountain Ave.
Hillburn, NY 10931

New York State Smart School Bond Act Investment Plan 2016-2017

Public Hearing on Smart Schools Bond Funding

There will be a Public Hearing on Smart Schools Bond Act Funding at the
Board of Education Meeting on March 31st at 7:00pm at:

Hillburn Administrative Building
Board Room
45 Mountain Ave.
Hillburn, NY 10931

We encourage our Ramapo Central School District Community to submit written feedback on The
Ramapo CSD Smart Schools Bond Act Preliminary Investment Plan. Please email:

rcsdsmartbond@ramapocentral.net

To learn more about the Smart Bond Act Guidelines go to:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf

<http://www.p12.nysed.gov/facplan/SmartSchoolsBondAct.html>

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PLAN OVERVIEW

In January 2014, Governor Andrew M. Cuomo called for New York State to invest \$2 billion in its schools through a Smart Schools Bond Act (SSBA). Voters approved the Smart School Bond Act in November 2014 and as a result the Ramapo Central School District was allocated to receive **\$1,646,123**. The District plans to utilize SSBA funds in conjunction with District funds and the e-Rate Federal Discount Program to modernize our technology infrastructure. The Ramapo Central School District Smart Schools Investment Plan is designed to:

- To Enhance and Improve The Ramapo CSD Network Infrastructure
- To Enhance and Improve our wireless connectivity and expand coverage in schools
- To Enhance and Improve our Security cameras and Systems

PRECONDITIONS

As a precondition to utilizing the SSBA allocations, the District will ensure that there is adequate Internet bandwidth to further expand wireless connectivity for classrooms and upgrading the Ramapo CSD security network and cameras. There will be adequate Internet bandwidth in excess of 100 Mbps per 1,000 students to sustain the increase of more classroom devices beginning in July 2016.

Ramapo CSD has managed fiber between buildings on the District's private network which provides up to 10 Gigabit of interconnectivity. Currently the District has 1 Gigabit between and within buildings for district interconnectivity, but with the eRate Project prior to the SSSBA Project (cabling and security upgrades) the Ramapo CSD network infrastructure we will be able to utilize bandwidth up to the 10 Gigabit threshold in between and within buildings.

All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department (NYSED). The Ramapo Central School District Instructional Technology Plan survey was submitted and approved by NYSED in October 2015.

GOALS

The Ramapo Central School District Smart Schools Investment Plan will focus on:

- Upgrading the Ramapo CSD Network Infrastructure (upgrade & replace existing cabling) to improve connectivity, coverage and speeds (Bandwidth) between schools out to the Internet.
- Upgrade current Wi-Fi infrastructure (upgrade & replace existing cabling) for all classrooms in grades K-12.
- Upgrade security cameras and security systems.

PURCHASE PLAN & ALLOCATIONS

The Ramapo Central School District supports a technology network of almost 5,000 users. Under current allocations of resources for technology equipment, that includes; BOCES Purchase Agreements (IPA), District Technology Department yearly budget allocations, eRate funding, and any grant funding available, the district cannot move as rapidly as it would like to supply all schools with instructional technology equipment and infrastructure. Therefore, the district plans to prioritize the upgrade connectivity, aging security network and cameras with SSBA allocations. SSBA allocations are described below in Table 1 by allowable expenditure Budget Category areas, and in conjunction with District funding and the E-Rate rebates.

TABLE 1: SSBA Allowable Expenditure Summary of \$1,646,123 by Budget Category

SSBA Budget Category	Allocations
<p style="text-align: center;"><u>School Connectivity</u></p> <ul style="list-style-type: none"> ● Upgrade Network Infrastructure <ul style="list-style-type: none"> ○ Upgrade/Replace Server Closet Cabling ○ Upgrade/Replace Wireless Cabling 	\$620,850
<p style="text-align: center;"><u>High-Tech Security Features</u></p> <p>Upgrade/Extend/Replace Security Network & Cameras</p>	\$250,519
Unallocated Funds	\$774,754
Totals	\$871,369

The following information below summarizes the SSBA Budget Category in Table 1. for School Connectivity.

Upgrade Network Infrastructure

Using district funds and the eRate discount program, the Ramapo CSD will upgrade and optimize network Infrastructure connectivity at all Ramapo CSD schools to 10 Gigabit switches, 10 Gigabit Cores, and install 460 Wireless Access Points in all classrooms and instructional areas. **SSBA funds will be utilized to upgrade cabling to wireless access points in classrooms** to increase bandwidth and connectivity, and cabling/switching in server closets will be upgraded to support the increased network traffic using SSBA funds.

With District funds and the eRate discount, Ramapo CSD will be expanding our wireless at all schools including classrooms and instructional areas. Numbers of access points per building are as follows:

- Suffern High School-116 Access Points
- Suffern Middle School-100 Access Points

- Cherry Lane Elementary School-53 Access Points
- Montebello Elementary School-42 Access Points
- Richard P Connor Elementary School-47 Access Points
- Sloatsburg Elementary School-34 Access Points
- Viola Elementary School-50 Access Points

Total Access Points:460

The following information below summarizes the SSBA Budget Category in Table 1. for **High-Tech Security Features**.

The District currently has an aged security network infrastructure and cameras that needs to be upgraded. Ages of cameras range from 5-12 years old. We intend to use our SSBA allocation in the High-Tech Security Features category as to:

- Replace security cameras with High-Resolution Digital Cameras.
- Upgrade/Replace Security Cameras Server infrastructure.

The camera counts are as follows:

- High School (24)
- Middle School (26)
- Viola (8)
- Sloatsburg (11)
- Montebello (13)
- RP Connor Elementary (15)
- Cherry Lane (8)
- Hillburn Administrative Building (4)

PROFESSIONAL DEVELOPMENT

While the Smart Schools Bond Act does not provide allocations for Professional Development, the Ramapo Central School District will continue providing resources and funding based on its approved budgets and The District Technology Plan to support and promote activities for technology professional development for staff, teachers and administrators.

Technology related student/program goals include:

- Increase student's quality and use of technology as a tool to improve learning, interact successfully in a 21st century skill environment and to achieve their personal, education, and workplace goals.
- Continue to incorporate and employ technology-related strategies to empower their academic success and understanding as related to:
 - Creativity and Innovation
 - Communication and Collaboration
 - Research and Information Fluency
 - Critical thinking, Problem Solving, and Decision Making
 - Digital Citizenship
 - Technology Operations and Concepts

- Expose students to an increased amount and quality of technology integration with the intention of improving student achievement/learning.
- Increase educators' competencies to effectively use technology tools to support the curriculum and empower students with 21st century technology skills.

SUSTAINABILITY

The District is committed to ongoing growth, expansion, and evaluation of technology and technology resources and services. While SSBA funds are not being used to purchase instructional devices, the District recognizes the need to continually maintain and evaluate district-owned equipment.

The district currently purchases the majority of its instructional hardware through the LHRIC. By participating in the 6360 CoSer and utilizing the 510.850 Hardware Repair Service, the District is able to use the LHRIC as a repair and maintenance resource. District technicians also provide break/fix support of district hardware as needed.

District equipment will be evaluated each year for its long term compatibility, sustainability and current location in its product lifecycle to plan for future upgrades, repairs and replacements. Major hardware upgrades/replacements will adhere to the five-year capital assets preservation plan as provided for in Education Law, section 3602(6) and section 155.1(a)(4).

PROVISIONS AND DISTRIBUTION TIMELINE

Once the Ramapo CSD Smart Schools Bond Act Investment Plan is approved by the state, The District will commence procurement for its projects in the following order:

1. Upgrade the Ramapo CSD network infrastructure
2. Upgrade the Ramapo CSD wireless connectivity
3. Upgrade the Ramapo CSD security network and cameras

The district will incorporate this new equipment into its existing inventory and network databases, and ensure proper monitoring of equipment, infrastructure configurations, and network traffic.