

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

SSIP Overview

Page Last Modified: 12/22/2017

1. Please enter the name of the person to contact regarding this submission.

Debra B. Eichholtz

- 1a. Please enter their phone number for follow up questions.

315-552-5004

- 1b. Please enter their e-mail address for follow up contact.

deichholtz@ocs.cnyric.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

3. 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.

By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

 District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

-
- Parents
-
-
- Teachers
-
-
- Students
-
-
- Community members

- 4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

-
- Yes
-
-
- No
-
-
- N/A

5. Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.

-
- The district developed and the school board approved a preliminary Smart Schools Investment Plan.
-
-
- The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
-
-
- The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
-
-
- The district prepared a final plan for school board approval and such plan has been approved by the school board.
-
-
- The final proposed plan that has been submitted has been posted on the district's website.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

SSIP Overview

Page Last Modified: 12/22/2017

- 5a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.

smart schools investment plan shell.docx
 OnondagaCSD-SSIP1-Improve Connectivity-Narrative-final2-20160823.pdf
 02 - Onondaga CSD - SSIP1 Final (Improve Connectivity) ExecSummary-20160823.pdf

- 5b. Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.

[http://www.ocs.cnyric.org/files/filesystem/02_-_onondaga_csd_-_SSIP1_final_\(improve_connectivity\)_execsummary-20160823.pdf](http://www.ocs.cnyric.org/files/filesystem/02_-_onondaga_csd_-_SSIP1_final_(improve_connectivity)_execsummary-20160823.pdf)

6. Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

1,000

7. An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.

The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.

(No Response)

10. Your district's Smart Schools Bond Act Allocation is:

\$800,506

11. Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.

	Sub-Allocations
School Connectivity	698,570
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	698,570

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:
 - sufficient infrastructure that meets the Federal Communications Commission’s 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or
 - is a planned use of a portion of Smart Schools Bond Act funds, or
 - is under development through another funding source.

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

 1. Specifically codified in a service contract with a provider, and
 2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The Onondaga Central School District Contracts with OCM BOCES for our network connectivity and we currently have 100Mbps as part of our contract with OCM BOCES. In addition, we currently have 844 students, so our infrastructure currently meets the minimum standards. The update took effect during the summer of 2015 with the renewal of our agreement.

In support of its strategic technology goal to **Improve School Connectivity**, the Onondaga Central School District’s (OCSD) Smart Schools Investment Plan (SSIP) 1 will allocate 87% of its **\$800,506 for a total of \$698,570** from its Smart Schools Bond Act (SSBA) allocation to:

1. Upgrade Technology Infrastructure including establishing industry-standard Technology Rooms and structured backbone cabling (Goal 1.1)
2. Upgrade Network Equipment to provide reliable district-wide services (Goal 1.2)
3. Expand Wireless Coverage to provide reliable, pervasive district-wide wireless services (Goal 1.3) These deployments will occur in a total of (4) instructional facilities: (2) Elementary Schools, (1) Junior/Senior High School and (1) Industrial Arts building.
4. About the proposed technology upgrades In preparation for the deployment of additional student and staff computing devices, the OCSD has identified the need to upgrade select strategic components of the current technology infrastructure.
5. The primary infrastructure components identified for improvement are the establishment of **spaces** including Technology Rooms (TRs) and **pathways** to support new cabling.
6. In some locations, existing office and/or storage spaces will be **repurposed** for the development of TRs that meet current and future needs; in other locations, existing spaces will be **upgraded** to current standards.
7. The establishment of primary **horizontal pathways** that will support backbone and horizontal cabling will be a key component of this initiative. While identifying potential TR locations in each of the (4) district buildings, consideration has been given to minimize the need to replace legacy cabling prior to the planned 2023/2024 capital project.

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	844	84,400	84.40	100	100	currently met

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

3. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.

OCSD Smart Schools Investment Plan 1:

Improving School Connectivity

In the spring of 2016, an independent consulting firm conducted on a Technology Conditions Survey (TCS) of Onondaga Central School District four instructional buildings. The TCS provides an objective, detailed baseline of information about the conditions of each building's technology infrastructure as well as connected networked systems such as Communications, Security and AV.

Based on the findings of the TCS, the OCSD Technology Committee decided to focus the district's SSBA allocation on **Goal 1, Improving School Connectivity**, upon which the successful completion of all other goals are ultimately based.

There are three sub-goals associated with Improving School Connectivity:

1.1. Upgrade Technology Infrastructure

1.2. Upgrade Network Equipment

1.3. Increase Wireless Access

The importance of Technology Infrastructure

A reliable, adequate and upgradeable technology infrastructure platform is the foundation on which all networked and other inter-connected technology initiatives rest. The quality and conditions of the structured cabling, pathways and spaces is critical to making the District's internet access available from edge-of-property to its (4) primary instructional buildings.

While these cabling, pathways and spaces—collectively known as “technology infrastructure”—are literally out of sight behind walls and above ceilings, any comprehensive district technology upgrades or improvements must start here.

The importance of Network Equipment

Network Equipment plays a vital role in connecting devices and systems to each other and the world using the available technology infrastructure. Servers, switches and routers control how digital signals are sent, managed and received within a classroom, floor or building, and throughout the district.

Like the components that comprise technology infrastructure, Network Equipment needs to be reliable, up-to-date and upgradeable, as possible, to meet evolving needs and standards.

The importance of Wireless Access

Cutting the physical cords that connect devices to the network is as pertinent to a school building as it is to your home. The resultant freedom of movement and related applications open up a world of inquiry and discovery for students and educators alike.

Key strategic issues addressed in this SSIP

Key strategic issues that are addressed in this Smart School Investment Plan and the district's technology goals they affect include:

Upgrade Technology Infrastructure key issues

- Establish industry-standard Backbone infrastructure from edge-of-property to and throughout each district building.
- Consolidate, dedicate and secure Technology Rooms (TRs) that meet industry best practices.
- Reduce the number of necessary cables (i.e., lengths and quantity) and terminations in each building based on the TR locations.
- Account for planned technology upgrades during the 2023/24 capital project.

Upgrade Network Equipment key issues

- Establish industry-standard Backbone infrastructure from edge-of-property to and throughout each district building.
- Consolidate, dedicate and secure Technology Rooms (TRs) that meet industry best practices.
- Reduce the number of necessary cables (i.e., lengths and quantity) and terminations in each building based on the TR locations.
- Account for planned technology upgrades during the 2023/24 capital project.

Upgrade Wireless Access key issues

- Establish industry-standard, pervasive Wireless infrastructure throughout each district building.
- Ensure a capacity-based design that will support peak demand locations and provide adequate coverage.
- Establish reliable, secure wireless network access for students and staff so that teaching and learning can depend on the availability of adequate signal and internet access.
- Provide guest and public access for parents and families.

In support of its strategic technology goal to **Improve School Connectivity**, the Onondaga Central School District's (OCSD) Smart Schools Investment Plan (SSIP) 1 will allocate 100% of its **\$800,506** from its Smart Schools Bond Act (SSBA) allocation to:

1. Upgrade Technology Infrastructure including establishing industry-standard Technology Rooms and structured backbone cabling (Goal 1.1)
2. Upgrade Network Equipment to provide reliable district-wide services (Goal 1.2)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

3. Expand Wireless Coverage to provide reliable, pervasive district-wide wireless services (Goal 1.3) These deployments will occur in a total of (4) instructional facilities: (2) Elementary Schools, (1) Junior/Senior High School and (1) Industrial Arts building.
4. About the proposed technology upgrades In preparation for the deployment of additional student and staff computing devices, the OCSD has identified the need to upgrade select strategic components of the current technology infrastructure.
5. The primary infrastructure components identified for improvement are the establishment of **spaces** including Technology Rooms (TRs) and **pathways** to support new cabling.
6. In some locations, existing office and/or storage spaces will be **repurposed** for the development of TRs that meet current and future needs; in other locations, existing spaces will be **upgraded** to current standards.
7. The establishment of primary **horizontal pathways** that will support backbone and horizontal cabling will be a key component of this initiative. While identifying potential TR locations in each of the (4) district buildings, consideration has been given to minimize the need to replace legacy cabling prior to the planned 2023/2024 capital project.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

Technology Vision

The Onondaga Central School District is committed to working collaboratively to provide educational experiences and opportunities that inspire students to reach their individual potential as productive citizens.

We recognize that technology is an essential tool for competing in our global society. In order to succeed in college and career, our students need ethical, digital, visual, information and textual literacy. Therefore, we are committed to providing our students with a high level of proficiency in the use of technology for communication, critical thinking and creative problem solving. In order to achieve this goal, it is a district priority to provide equitable and widespread access to technological tools and resources for all staff and students in the Onondaga Central School District.

Technology Goals 2015-2018

Overall Objective: To support student learning through the use of technology in the classroom. In order for our students to meet 21st Century learning skills, we have identified the following goals:

Goal 1: Effectively Integrate Technology to increase student achievement.

Objectives to reach this goal:

Use of district technology committee, professional development committee, curriculum council, department chairs and team leaders (Ongoing through 2018)

- District technology committee - will assist in determining the priorities of the needed technology resources
- Professional Development Committee - will identify and support teacher and staff professional development in the use of instructional technology
- Curriculum Council - will set the direction for using instructional technology as a tool in learning
- Department Chairs and Team Leaders - will work with teachers to develop pedagogical strategies for integrating technology in alignment with NYS learning standards and ISTE standards.

Goal 2: Provide robust and reliable access to current and emerging technologies for all students and staff.

Objectives to meet this goal:

- Maintain bandwidth and capacity to meet current and future needs.
- Provide modern hardware/software
- Provide reliable high speed wireless network access throughout the district
- Maintain data protection and email archiving solutions
- Provide an up to date anti-virus protection suite
- Expand district 'cloud' services in collaboration with BOCES
- Provide appropriate levels of technology support staff.
- Maximize external funding opportunities to support technology needs.
- Develop a technology replacement schedule and multi-year budget plan.

Goal 3: Establish opportunities for professional development to improve student achievement through the use of technology.

Objectives to meet this goal:

- Provide job-embedded professional development in the use of technology to improve student achievement
- Disseminate available professional development opportunities that meet district goals
- Align Professional Development to financial capacity
- Provide appropriate levels of technology integration support

Goal 4: Develop a system of ongoing evaluation to assess technology applications, implementation and instructional efficacy.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

Objectives to meet this goal:

- Collect and analyze data regarding the use of technology to improve achievement.
- Collect and analyze data regarding professional development offerings
- Evaluate the effectiveness of existing technology

21st Century Learning

21st Century Learning requires organizations to meet the current requirements of our standardized tests while also striving to achieve the 4Cs:

- Communication
- Collaboration
- Creativity, and
- Critical thinking.

The skills needed for success in college and career are becoming increasingly complex, and schools must rise to meet new demands.

New academic standards and accountability measures across the nation have broadened the classroom experiences required for proficiency. As expectations rise, students are struggling to keep up. This trend is evidenced by falling preliminary assessment scores across the nation. Traditional instruction may be to blame. In their recent investigation of 21st Century Learning, *National Academies Press* found that rote learning does not support the educational transfer necessary to tackle the complex problems demanded by intensified academic standards. Students must be exposed to unfamiliar problems and encouraged to design meaningful solutions. Technology is a tool for such problem solving. A national *Walden University* study reports that teachers who use technology frequently place the highest emphasis on problem solving.

In addition to meeting traditional academic standards, students must also be prepared to tackle the demands of a modern world and modern workforce. A research report from *Adobe Education* notes that; "In today's world, a proficient employee needs to be computer literate, visually literate, information literate, media literate, and digitally literate."

According to a report from the *Partnership for 21st Century Skills*: "Many of the fastest-growing jobs and emerging industries rely on workers' creative capacity—the ability to think unconventionally, question the herd, imagine new scenarios, and produce astonishing work."

Technology assists with this type of capability. *Pew* reports that 76% of Advanced Placement and National Writing Project teachers believe that digital tools such as the Internet, social media, and cell phones "encourage student creativity and personal expression."

In addition, the *National Writing Project* reports that the creation and consumption of multimedia increases the likelihood of deeper learning and longer skill retention.

Technology is a key driver towards instruction that impacts student learning outcomes, both on standardized assessments and for 21st Century Learning skills. Students must have regular opportunities to engage in the 4Cs. In addition, they must have access to the instant feedback enabled by digital assessment and customized assistive technology. Being aware of the classroom setting and the typical learning experiences afforded to students in your organization is the first step towards the cultivation of 21st Century Learning.

Finally, the District's Technology Committee has defined the following (4) major **district-wide** technology goals and sub-goals where applicable:

- 1. Improve School Connectivity** 1.1. Upgrade Technology Infrastructure 1.2. Upgrade Network Equipment 1.3. Expand Wireless Coverage
- 2. Upgrade Instructional Technology** 2.1. Additional Student and Staff Computing Devices 2.2. Upgrade Projectors and Interactive Displays
- 3. Integrate IP-based Security System**
- 4. Finish Technology Systems Modernization**

Goal 1, Improve School Connectivity is the technology goal that the District's Technology Committee has selected for Smart Schools Bond Act funding. This is based on the fundamental importance of having a robust, efficient and upgradeable technology infrastructure to which all networked systems can connect; all other district technology goals are incumbent on a reliable data-transport foundation.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

5. **If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.**

Please describe how you have quantified this demand and how you plan to meet this demand.

Key strategic issues that are addressed in this Smart School Investment Plan and the district's technology goals they affect include:

Upgrade Technology Infrastructure key issues

- Establish industry-standard Backbone infrastructure from edge-of-property to and throughout each district building.
- Consolidate, dedicate and secure Technology Rooms (TRs) that meet industry best practices.
- Reduce the number of necessary cables (i.e., lengths and quantity) and terminations in each building based on the TR locations.
- Account for planned technology upgrades during the 2023/24 capital project.

Upgrade Network Equipment key issues

- Establish industry-standard Backbone infrastructure from edge-of-property to and throughout each district building.
- Consolidate, dedicate and secure Technology Rooms (TRs) that meet industry best practices.
- Reduce the number of necessary cables (i.e., lengths and quantity) and terminations in each building based on the TR locations.
- Account for planned technology upgrades during the 2023/24 capital project.

Upgrade Wireless Access key issues

- Establish industry-standard, pervasive Wireless infrastructure throughout each district building.
- Ensure a capacity-based design that will support peak demand locations and provide adequate coverage.
- Establish reliable, secure wireless network access for students and staff so that teaching and learning can depend on the availability of adequate signal and internet access.
- Provide guest and public access for parents and families.

6. **As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.**

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
421201047999001

7. **Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.**

Was your project deemed eligible for streamlined review?

No

8. **Include the name and license number of the architect or engineer of record.**

Name	License Number
James R. King	15925

9. **If you are submitting an allocation for School Connectivity complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

	Sub-Allocation
Network/Access Costs	185,385
Outside Plant Costs	12,000
School Internal Connections and Components	297,784
Professional Services	66,000
Testing	0
Other Upfront Costs	0
Other Costs	137,401
Totals:	698,570

10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through smartschools@nysed.gov.
NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.
Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Other Costs	Technology Room Improvements - General Construction/Build Out (construct walls, install VCT Flooring, Install Doors)	7	5,750	40,250
Connections/Components	Technology Room Improvements - Electrical/Grounding (providing wiring for power, lighting and grounding and bonding infrastructure in each TR)	7	6,400	44,800
Network/Access Costs	Technology Room Improvements - HVAC (Installing adequate cooling and environmental control in each room)	7	5,750	40,250
Professional Services	Technology Room Improvements - Architect/Design Fees for drawings and specifications	1	15,000	15,000
Other Costs	Technology Room Improvement Contingency	1	12,530	12,530
Network/Access Costs	POE Switches	19	3,133	59,527
Network/Access Costs	Data Communications Wireless Access Points	164	522	85,608
Connections/Components	District Wide - Intra-Building Communications Pathways (Cable	1	125,000	125,000

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

School Connectivity

Page Last Modified: 12/21/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	trays, conduits, J-hooks, firestopping)			
Connections/Components	District Wide Structured Cabling for WLAN	162	362	58,644
Connections/Components	District Wide Fiber Optic Backbone Cabling	1,050	19	19,950
Connections/Components	Equipment racks, cabinets, overhead, vertical and horizontal cable management	7	5,020	35,140
Connections/Components	Work required for maintaining network operations during construction, and relocation of service provider fiber optic cabling.	1	6,250	6,250
Connections/Components	Fiber Relocation to new Technology Rooms	1	8,000	8,000
Outside Plant Costs	District Wide (On Premises) - Underground conduits for outside plant cabling on school property, including between Industrial Arts Building and Press Box. Underground conduits to high school for service provider fiber.	1	12,000	12,000
Professional Services	Technology Infrastructure Construction Management Fees (Technology Rooms, Pathways, Cabling, Conduit)	1	15,000	15,000
Other Costs	Technology Pathways, Conduit, and Cabling Contingency	1	29,809	29,809
Professional Services	Technology Pathways, Conduit, and Cabling - Architect/Design fees	1	36,000	36,000
Other Costs	Asbestos Abatement	1	54,812	54,812

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Community Connectivity (Broadband and Wireless)

Page Last Modified: 12/18/2017

1. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in the community.

(No Response)

2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.

(No Response)

3. Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).

I certify that we will comply with all the necessary local building codes and regulations.

4. Please describe the physical location of the proposed investment.

(No Response)

5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.

Project Partners	Federal ID #
(No Response)	(No Response)

6. If you are submitting an allocation for **Community Connectivity**, complete this table. **Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	0

7. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.

Add rows under each sub-category for additional items, as needed.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Community Connectivity (Broadband and Wireless)

Page Last Modified: 12/18/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Classroom Learning Technology

Page Last Modified: 12/18/2017

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission’s 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source. Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:
 1. Specifically codified in a service contract with a provider, and
 2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

(No Response)

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	(No Response)	(No Response)			(No Response)	(No Response)

3. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand. Please describe how you have quantified this demand and how you plan to meet this demand.

(No Response)

4. All New York State public school districts are required to complete and submit an 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 educational technology purchases 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.

By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility’s electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.

(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Classroom Learning Technology

Page Last Modified: 12/18/2017

6. Describe how the proposed technology purchases will:
- > enhance differentiated instruction;
 - > expand student learning inside and outside the classroom;
 - > benefit students with disabilities and English language learners; and
 - > contribute to the reduction of other learning gaps that have been identified within the district.

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?")

(No Response)

7. Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.

(No Response)

8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

(No Response)

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

- 9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

(No Response)

- 9b. Enter the primary Institution phone number.

(No Response)

- 9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

(No Response)

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

- Yes
 No

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Classroom Learning Technology

Page Last Modified: 12/18/2017

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

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

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. **To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.**

By checking this box, you certify that the district has a sustainability plan as described above.

13. **Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.**

By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for **Classroom Learning Technology** complete this table.

Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Interactive Whiteboards	(No Response)
Computer Servers	(No Response)
Desktop Computers	(No Response)
Laptop Computers	(No Response)
Tablet Computers	(No Response)
Other Costs	(No Response)
Totals:	0

15. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.**

Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.

NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Classroom Learning Technology

Page Last Modified: 12/18/2017

Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Pre-Kindergarten Classrooms

Page Last Modified: 12/18/2017

1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

(No Response)

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

(No Response)

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

(No Response)

4. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

5. If you have made an allocation for **Pre-Kindergarten Classrooms**, complete this table. **Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	0

6. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.

Add rows under each sub-category for additional items, as needed.

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Pre-Kindergarten Classrooms

Page Last Modified: 12/18/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

Replace Transportable Classrooms

Page Last Modified: 12/18/2017

1. Describe the district’s plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No Response)

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. If you have made an allocation for **Replace Transportable Classrooms**, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
Totals:	0

5. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov. Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - 421201-1

High-Tech Security Features

Page Last Modified: 12/18/2017

- Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.

(No Response)

- All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

- Was your project deemed eligible for streamlined Review?

- Yes
 No

- Include the name and license number of the architect or engineer of record.

Name	License Number
(No Response)	(No Response)

- If you have made an allocation for **High-Tech Security Features**, complete this table. **Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	0

- Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.

Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

