

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

## SSIP Overview

Page Last Modified: 11/09/2017

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

Jo Ann Kraus

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

8454538388

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

jkraus@acsosny.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) - ACSDSSIP#1

SSIP Overview

Page Last Modified: 11/09/2017

- 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.

ACSD Preliminary Smart Schools Investment Plan.pdf  
 May 24 BOE Presentation.pdf  
 Finalized ACSDSSIP#1.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.arlingtonschools.org/pages/arlington\\_schools/Departments/Technology/News/Smart\\_Schools\\_Bond\\_Act](http://www.arlingtonschools.org/pages/arlington_schools/Departments/Technology/News/Smart_Schools_Bond_Act)

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.

8,459

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:

\$5,218,541

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	1,513,899
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	2,983,287
<b>Totals:</b>	<b>4,497,186</b>

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

School Connectivity

Page Last Modified: 11/09/2017

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 District's fiber connectivity links between buildings and Dutchess County BOCES is 1 Gbps. The District's Internet connectivity is managed via Dutchess County BOCES with total available bandwidth of 1Gbps available to the Arlington. Both of these service limits exceed the current FCC and SSBA recommendations and requirements.

- 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	8,455	845,500	845	1000	1000	We have met our requirement.

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

The Arlington Central School District intends to use the Smart Schools Bond Act funds to expand wireless access and update the network infrastructure. The technology plan includes the following goals for improving infrastructure and wireless connectivity for all students and staff throughout the District:

- Goal 1: Update wireless coverage for six elementary schools to include all instructional and extra curricula spaces.
- Goal 2: Upgrade network infrastructure switching at 11 school buildings to support 10 gigabit closet uplinks and redundant 10 gigabit aggregation cores.

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

School Connectivity

Page Last Modified: 11/09/2017

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?")

The district subscribes to several services through BOCES to provide digital connectivity (network and internet access) to all school buildings. Students, teachers and staff use several resources for connecting to online learning opportunities. As part of the Technology Plan, the district will continue to foster student learning via digital and collaborative learning environments by expanding wireless access. Edline and Google Apps for Education will continue to serve as primary tools for communication, creativity, collaboration and critical thinking. These tools also provide a home-to-school connection for students and teachers.

Over the next two years, the goal is to expand the mobile learning environment to all elementary classrooms by installing an access point in every elementary classroom. During the 2015-16 school year, 22 elementary teachers were selected to participate in a mobile learning pilot using Chromebooks and tablets. Teachers helped design and develop curricula activities and projects using Chromebooks and tablets. Each class was outfitted with 6 mobile devices. As part of the computer replacement cycle, each classroom will be provided with six mobile devices. In order to implement this new model, it is necessary to update the elementary schools from basic to full wireless access.

At the high school and middle school, students use their own devices (Bring Your Own Device) for inquiry, communication, creation and to demonstrate learning. Additionally, Virtual Desktop Interface (VDI) is the District's new initiative that provides a private cloud based computing experience. The District will implement this strategy over three years. This interface provides full access to a virtual Windows computer from any type of device. This technology promotes efficiency, productivity and provides remote access.

As part of the technology plan, all libraries will be equipped with mobile learning device carts to provide students with access to tools to aid in research, inquiry and student exploration spaces.

The SmartSchools funds in the School Connectivity category will enable the district to meet the goals of the technology plan by using the funds to purchase infrastructure components, including cabling, access points, switches, and engineering services. Thereby, providing all students and staff with fast and reliable network and internet access. In order to provide adequate bandwidth for wireless services in all school buildings, the district will increase internet provisioning from 600 Mbps to 850 Mbps through the annual technology budget.

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.**

In order to maintain a robust wireless network, the district has determined that it is necessary to install wireless access points in all classrooms to ensure that wireless signals are available. During the 2015-16 school year, 22 elementary classrooms have participated in a mobile learning pilot and it was determined that signal strength needs to be increased. The district is monitoring bandwidth use and has determined that bandwidth will need to be increased and managed when the elementary school access points are expanded to the classrooms. Additional bandwidth will be purchased each year as part of the technology plan budgeting. The district also has an iBoss appliance that will be used to manage streaming and shape bandwidth use.

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
13-16-01-06-7-999-BA1
13-16-01-06-7-999-002

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

School Connectivity

Page Last Modified: 11/09/2017

- 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
Tetra Tech	30484

- 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.**

	Sub-Allocation
Network/Access Costs	818,889
Outside Plant Costs	0
School Internal Connections and Components	535,010
Professional Services	150,000
Testing	0
Other Upfront Costs	0
Other Costs	10,000
<b>Totals:</b>	<b>1,513,899</b>

- 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](mailto: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
Connections/Components	Cabling for WIFI and closets -Cat 6 Plenum Rated Cable / Installation	1	127,177	127,177
Connections/Components	2 Port Faceplates	426	2	852
Connections/Components	Cat 6 Jacks/Blank inserts	426	8	3,408
Connections/Components	24 port cat 6 patch panel	21	170	3,570
Connections/Components	2 J-Hook	100	5	500

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

School Connectivity

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	700 series wiremold	123	1	123
Connections/Components	wiremold back box	23	14	322
Connections/Components	Velcro Roll	30	26	780
Connections/Components	Fire stop seal	15	20	300
Connections/Components	Catalyst 2960-X FlexStack Plus Stacking Module	95	562	53,337
Connections/Components	Cisco Catalyst 3650 Stack Module Spare	1	776	776
Connections/Components	Cisco Catalyst 3850 2 x 10GE Network Module	12	1,175	14,100
Connections/Components	Cisco Catalyst 3850 4 x 10GE Network Module	3	1,880	5,640
Network/Access Costs	Catalyst 4500X 750W AC front to back cooling power supply	2	940	1,880
Network/Access Costs	Catalyst 4500X 750W AC front to back cooling 2nd PWR supply	2	940	1,880
Network/Access Costs	Power Supply AC-1100W	2	1,175	2,350
Network/Access Costs	Cisco Catalyst 6840-X-Chassis and 2 x 40G (Standard Tables)	2	25,850	51,700
Connections/Components	Mode Conditioning Patch cable; LC connector	158	235	37,130
Connections/Components	Cisco FlexStack 1m stacking cable	24	47	1,128
Connections/Components	Cisco FlexStack 3m stacking cable	31	94	2,914
Connections/Components	QSFP to SFP10G adapter	1	165	165
Network/Access Costs	Nexus 9300 with 48p 1/10G-T and 6p 40G QSFP+	2	10,575	21,150
Connections/Components	40GBASE-CR4 Passive Copper Cable, 1m	2	118	235
Connections/Components	10GBASE-LRM SFP Module	158	468	73,889
Connections/Components	10GBASE-SR SFP Module	4	468	1,871
Connections/Components	10GBASE-CU SFP+ Cable 1 Meter	39	47	1,833
Connections/Components	10GBASE-CU SFP+ Cable 3 Meter	2	47	94
Connections/Components	STACK-T1-1M 1M Type 1 Stacking Cable	4	94	376
Network/Access Costs	Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base	16	3,758	60,123

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

School Connectivity

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Catalyst 2960-X 48 GigE, 2 x 10G SFP+, LAN Base	67	2,630	176,187
Network/Access Costs	Cisco Catalyst 3650 48 Port Data 4x10G Uplink IP Services	1	8,178	8,178
Network/Access Costs	Cisco Catalyst 3850 48 Port (12 mGig+36 Gig) UPoE LAN Base	1	5,875	5,875
Network/Access Costs	WS-C3850-24XU-L Cisco Catalyst 3850 24 mGig Port UPoE LAN Base	12	5,875	70,500
Network/Access Costs	Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	2	7,520	15,040
Network/Access Costs	Catalyst 4500 E-Series 12-Port 10GbE (SFP+)	1	12,688	12,688
Network/Access Costs	Meraki MR42 Cloud Managed Access Points	310	604	187,380
Connections/Components	Network Connectivity Infrastructure Implementation, includes installation, configuration, setup and programming	1	125,350	125,350
Professional Services	Architectural Services	1	150,000	150,000
Network/Access Costs	APC Smart-UPS X 120V External Battery Pack Rack/Tower	22	789	17,358
Network/Access Costs	APC Smart-UPS X 2000VA Rack/Tower LCD 100-127V with Network Card	13	1,550	20,150
Network/Access Costs	APC Smart-UPS X 3000VA Rack/Tower LCD 100-127V with Network Card	9	1,850	16,650
Network/Access Costs	APC Smart-UPS SRT 192V 5kVA and 6kVA Battery Pack	2	1,050	2,100
Network/Access Costs	APC Smart-UPS SRT 192V 5kVA and 6kVA RM Battery Pack	1	1,175	1,175
Network/Access Costs	APC Smart-UPS SRT 5000VA RM 208V to 120V 2U Step-Down Transformer	3	4,750	14,250
Network/Access Costs	APC Smart-UPS SRT 5000VA with 208/240V to 120V Step-Down Transformer	3	4,700	14,100
Network/Access Costs	APC Smart-UPS SRT 6000VA with 208/240V to 120V Step-Down Transformer	1	5,325	5,325
Network/Access Costs	APC Smart-UPS RT 192V Battery	2	1,025	2,050

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

School Connectivity

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	Pack			
Network/Access Costs	APC SMART-UPS RT 3000VA 120V	2	2,250	4,500
Connections/Components	UPS Implementation, includes installation, configuration, setup and programming	31	640	19,840
Network/Access Costs	Wiring Closet Cooling Units/Tripp Lite SR Cool12K	5	1,260	6,300
Connections/Components	Vertical Wire Management Panels for data closets	12	317	3,800
Connections/Components	4 Post Rack	6	694	4,164
Connections/Components	4 Foot Wall Mount Rack	1	171	171
Connections/Components	Rack Implementation, includes installation, configuration, setup and programming	1	6,465	6,465
Network/Access Costs	Propane fired 125 kW standby generator located on the exterior of the of the building, with feeders to a 200 amp 277/480 volt 3 phase 4 wire automatic transfer switch. From the transfer switch new feeders will be installed to a 225 amp 277/480 volt. 3 phase, 4 wire HV Standby panel. From this panel a circuit will be run to a new 75 kVA transformer then to a 225 amp, 120/208 volt, 3 phase, 4 wire LV Standby panel. From this LV Standby panel feeders will be run to each of (4) network wiring closets in the buildings to feed new UPS's which will serve network switches, CCTV equipment and server equipment at redundant data closet at middle school.	1	100,000	100,000
Connections/Components	Rack PD, Basic, IU, 20A, 12V, (10)-5-20;5-20P	2	150	300
Connections/Components	UPS Network Management Card 2 with Environmental Monitoring	9	500	4,500
Other Costs	Contingency Costs for Cabling Project	1	10,000	10,000
Connections/Components	Data Rack Power Electrical Supply components and connections, including conduits, coupling, connectors, receptacles, screws, bolts, etc.	1	7,138	7,138

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

School Connectivity

---

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Data Rack Power Implementation, includes installation and configuration	1	32,762	32,762

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

Community Connectivity (Broadband and Wireless)

Page Last Modified: 11/09/2017

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)
<b>Totals:</b>	<b>0</b>

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](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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

Community Connectivity (Broadband and Wireless)

---

Page Last Modified: 11/09/2017

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) - ACSDSSIP#1

Classroom Learning Technology

Page Last Modified: 11/09/2017

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)	(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.

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

## Classroom Learning Technology

Page Last Modified: 11/09/2017

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)

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)

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

Classroom Learning Technology

Page Last Modified: 11/09/2017

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

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](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)

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

Classroom Learning Technology

Page Last Modified: 11/09/2017

	Sub-Allocation
Laptop Computers	(No Response)
Tablet Computers	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

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](mailto: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.**

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) - ACSDSSIP#1

Pre-Kindergarten Classrooms

Page Last Modified: 11/09/2017

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)
<b>Totals:</b>	<b>0</b>

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](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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

Pre-Kindergarten Classrooms

---

Page Last Modified: 11/09/2017

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) - ACSDSSIP#1

Replace Transportable Classrooms

Page Last Modified: 11/09/2017

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)
<b>Totals:</b>	<b>0</b>

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](mailto: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) - ACSOSSIP#1

High-Tech Security Features

Page Last Modified: 11/09/2017

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

High-tech security systems will be installed in each of our eleven schools. This technology will include interior and exterior surveillance cameras and a highly reliable emergency communication system. Most importantly, this security technology will enable a school to lockdown and secure students and staff within seconds of identifying imminent danger. A lockdown can be initiated by anyone witnessing a safety threat by pressing a panic alarm mounted in the hallway, entering a code on the classroom phone, or utilizing a cell phone application. Once initiated, a prerecorded message will be disseminated throughout the school via an IP speaker system, swipe card access to the school will be disabled, and exterior strobe lights will be activated to indicate that the building is in lockdown. Law enforcement will automatically be notified and a message will be sent to parents indicating that there is a lockdown at their child's school.

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
13-16-01-06-7-999-002
13-16-01-06-7-999-BA1

3. Was your project deemed eligible for streamlined Review?

- Yes  
 No

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

Name	License Number
Tetra Tech	30484

5. 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)	0
Electronic Security System	2,642,117
Entry Control System	97,530
Approved Door Hardening Project	0
Other Costs	243,640
<b>Totals:</b>	<b>2,983,287</b>

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](mailto:smartschools@nysed.gov).

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

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

High-Tech Security Features

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	2 Port Faceplate	1973	2	3,946
Electronic Security System	Cat 6 Jack and blank inserts	1973	8	15,784
Electronic Security System	24 Port Cat 6 Patch Panel	90	170	15,300
Electronic Security System	2 inch J hook	700	5	3,500
Electronic Security System	700 Series Wiremold	1	1,600	1,600
Electronic Security System	Wiremold Black Box	322	14	4,508
Electronic Security System	Velcro Roll	80	26	2,080
Electronic Security System	Firestop Seal	40	20	800
Electronic Security System	18AWG 2 ConductorPlenum Rated Cable	1	3,780	3,780
Electronic Security System	Cisco UC VoIP Phone Model 7821 for classroom safe zones	435	128	55,463
Electronic Security System	Wallmount Kits for Cisco UC VoiP Phone 7800 Series	400	38	15,000
Electronic Security System	InformaCast - 250 End Point Licenses	2	5,400	10,800
Electronic Security System	InformaCast Resiliency - Per End Point	400	5	1,920
Electronic Security System	UC Manager-10.x Basic Single User-Per 400	400	63	25,000
Electronic Security System	VoIP Integration and Implementation	1	122,876	122,876
Electronic Security System	Indoor IP Speaker with Display Atlas 18SC	917	685	627,687
Electronic Security System	Outdoor IP Speaker Atlas Sest-IH Straight	67	135	9,012
Electronic Security System	Outdoor IP Vandal Atlas IHVP	67	720	48,207
Electronic Security System	Ceiling Tile IP Atlas I128SYS	204	695	141,678
Electronic Security System	Horn Loudspeaker POE + IP with LED Display	37	720	26,622
Electronic Security System	ATLAS SEA-I8SC STRAIGHT INDOOR	938	65	60,501
Electronic Security System	Informacast -1250 endpoint licenses for IP Speakers for mass notification/emergency system	1250	19	23,750
Electronic Security System	InformaCast Resiliency	1	6,000	6,000
Electronic Security System	Speaker Implementation	1	7,553	7,553
Other Costs	Tetra Tech Architectural Services	1	150,000	150,000

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

High-Tech Security Features

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	Catalyst 2960-X FlexStack Plus Stacking Module	57	562	32,034
Electronic Security System	Cisco Catalyst 3650 Stack Module Spare	11	776	8,531
Electronic Security System	Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base	32	3,758	120,245
Electronic Security System	Cisco Catalyst 3650 48 Port PoE 4x10G Uplink IP Services	5	8,883	44,415
Electronic Security System	Cisco Catalyst 3850 48 Port (12 mGig+36 Gig) UPoE LAN Base	2	5,875	11,750
Electronic Security System	Cisco Catalyst 3850 48 Port Full PoE IP Services	4	10,340	41,360
Electronic Security System	Video Surveillance Hybrid DVR/NVR Server	17	999	16,983
Electronic Security System	Video Surveillance Rack Mount Case	17	170	2,890
Electronic Security System	Video Surveillance Digital Interface 16 Port Board	34	999	33,966
Electronic Security System	Video Surveillance Digital Interface - Installation and configuration of 16 Port Channel boards	34	449	15,266
Electronic Security System	Video Surveillance DVR 32 Channel Support Installation/configuration of 32 channel NVR)	17	499	8,483
Electronic Security System	Video Surveillance Pan Tilt Zoom Controller Card	17	299	5,083
Electronic Security System	Video Surveillance 1TB Hard Drive	680	144	97,920
Electronic Security System	Video Surveillance Video Viewing software	68	99	6,732
Electronic Security System	Video Surveillance set up and configuration	1	10,394	10,394
Electronic Security System	Video Surveillance Exterior 3MP Vandal Dome Camera	126	799	100,674
Electronic Security System	Video Surveillance Interior 3MP Dome Camera	216	699	150,984
Electronic Security System	Video Surveillance Indoor and Outdoor Camera Mounting and focusing	342	36	12,264
Electronic Security System	Video Surveillance NEMA Enclosure	5	419	2,100
Electronic Security System	Video Surveillance Installation	1	2,865	2,865

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

High-Tech Security Features

Page Last Modified: 11/09/2017

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	Video Surveillance Wireless Bridge Point	10	425	4,250
Electronic Security System	Video Surveillance 4 Port PoE Switch	5	142	711
Electronic Security System	Panic Button Panic Stopper Station w/ Cover	106	179	18,974
Electronic Security System	Panic Button Wiremold	117	49	5,733
Electronic Security System	Panic Button Alarm Controls - Popit	106	40	4,240
Electronic Security System	Panic Button 16 Channel I/O Controller	12	299	3,588
Electronic Security System	Panic Button BOSCH 246 Point Intrusion Panel	11	749	8,239
Electronic Security System	Panic Button Keypad	11	349	3,839
Electronic Security System	Panic Button Wire Run	11	150	1,650
Electronic Security System	Panic Button Software Installation	1	22,675	22,675
Entry Control System	Lockdown Strobe Light	56	159	8,904
Entry Control System	Lockdown 8 Channel Power Supply 12V DC	11	245	2,695
Entry Control System	Lockdown Installation	56	175	9,800
Entry Control System	Lockdown 16 Channel I/O Controller	11	299	3,289
Entry Control System	Lockdown ILS Card Disable Feature	11	1,425	15,675
Entry Control System	Lockdown Programming and Configuration	1	18,975	18,975
Entry Control System	Lockdown Cell Phone, voIP Phone, and PA Intregation Modules	1	38,192	38,192
Other Costs	Lockdown Project Management Labor	1	13,640	13,640
Electronic Security System	Cisco Switch Implementation	1	50,600	50,600
Other Costs	Contingency Costs	1	80,000	80,000
Electronic Security System	Cabling for Security Cameras, IP Phones, IP Speakers, Strobes, and panic alarms -Cat 6 Plenum Rated Cable (100 ft unit)	3960	37	146,520
Electronic Security System	Installation and labor costs for Cabling for Security Cameras, IP Phones, IP Speakers, Strobes, and panic alarms - Cat 6 Plenum Rated Cable	1	412,792	412,792