

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

SSIP Overview

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**Institution ID**

80000034015

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

Thomas Schulte

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

(585) 494-1220 x3137

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

tschulte@bbschools.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

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**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.

**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 Plan4.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.bbschools.org/Downloads/Smart%20Schools%20Investment%20Plan4.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.**

990

**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:**

\$1,060,464

**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	67,770
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	640,744
<b>Totals:</b>	<b>708,514</b>

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School Connectivity

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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.

Byron Bergen Central Schools subscribes to broadband services through Edutech, (Genesee Valley/Wayne-Fingerlakes Regional Information Center). They currently exceed the standard.

- 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	940	94,000	94	200	200	Currently Meets

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

Byron Bergen Central Schools is planning to upgrade their network infrastructure to provide a learning environment that supports the learning environment and the safety and security components. Using NY Smart Schools Funds and Federal Erate Category 2 funds to upgrade all of their switches to POE capacity and 10 gigabyte backbone. Using Erate Category 2 funds, the district will also install Wireless Access Points throughout the district buildings providing saturation coverage in all areas.

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?")

Byron Bergen is planning to establish a one-to-one learning environment to support individual student learning and expand all student opportunities. To accomplish this the district wants to provide a robust network infrastructure in all areas. By installing this equipment, student and teachers can access virtual resources that expand their opportunities. In addition to digital content, students and teachers can reach out to area experts for first person resources.

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- 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.**

Byron Bergen Central Schools formed a team including district instructional leaders, Genesee Valley/Planning Specialists, and Network designers from Cisco and Annese and Associates.  
The team reviewed the student usage of all instructional spaces and public spaces. They have designed a hard wire and a wireless infrastructure to support the instructional goals of all spaces.

- 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
18-07-01-04-7-999-BA1

- 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?**

Yes

- 7a. **Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.**

I certify that I have reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
Brian Trott	25971

- 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	43,948
Outside Plant Costs	0
School Internal Connections and Components	23,822
Professional Services	0
Testing	0
Other Upfront Costs	0

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	Sub-Allocation
Other Costs	0
<b>Totals:</b>	<b>67,770</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
Network/Access Costs	WS-C2960X-48TD-L	6	3,245	19,470
Network/Access Costs	WS-C2960X-48FPD-L	4	4,637	18,548
Connections/Components	C2960X-Stack	9	693	6,237
Connections/Components	CAB-STK-E-1M	2	116	232
Connections/Components	PWR-RFPS2300	4	696	2,784
Connections/Components	C3K-PWR-1150WAC	8	867	6,936
Connections/Components	CAB-FPS2300-E	11	87	957
Connections/Components	ACC-RPS2300	4	145	580
Connections/Components	SFP-10G-LRM	8	577	4,616
Connections/Components	Compu-Link LCCLCC50+D3 2-F Jumper 10 Ft	6	33	198
Network/Access Costs	WS-C2960X-24TD-L	1	2,201	2,201
Network/Access Costs	APC Smart UPS 2200VA LCD	3	1,243	3,729
Connections/Components	Compu-Link LCCL-CCD2 2F Jumper 2 Meter	2	41	82
Connections/Components	Cat 6 Patch Cords Various Lengths	600	2	1,200

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High-Tech Security Features

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**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.**

For students to be successful at school they need to feel safe and secure in their school environment. Byron Bergen proposes to improve school security with two components.

The first component is a robust video security system. Having the capacity to identify problems and observe incidents goes a long ways towards preventing incidents. Byron Bergen is proposing a complete upgrade to their video surveillance system. Working with funding from both the NY Safe Schools Act and from the Smart Schools Bond Act, Byron Bergen is proposing to install cameras in all areas for public and student activity. In addition, they are proposing to upgrade the video security servers to provide the capacity to video and retain recordings for 30 or more days. They will also have the ability to archive incidents for extended periods as required by individual disciplinary or criminal actions.

The second component is a strong classroom communication system. Each classroom will be equipped with a video display that can serve as a clock normally, but also scrolls digital messages as required. Forr example, instead of a public address announcement that "an intruder is in the building, shelter in place." The district could scroll the same message to appropriate

**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
18-07-01-04-7-999-001
18-07-01-04-7-999-BA1

**3. Was your project deemed eligible for streamlined Review?**

- Yes
- No

**3a. Districts with streamlined projects must certify that they have reviewed all installations with their licensed architect or engineer of record, and provide that person’s name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.**

By checking this box, you certify that the district has reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
Brian Trott	25971

**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	640,744
Entry Control System	0
Approved Door Hardening Project	0

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High-Tech Security Features

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	Sub-Allocation
Other Costs	0
<b>Totals:</b>	<b>640,744</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.

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	1.0C-H4A-D1 1.0 Megapixel WDR Lightcatcher Day/Night Indoor Dome	6.00	630	3,780
Electronic Security System	16C-ACC5-ENT ACC 5 Enterprise License for up to 16 Camera channels	3.00	4,055	12,165
Electronic Security System	16C-H4PRO-B 5K(16MP) H 264 HD PRO with Lightcatcher	6.00	6,750	40,500
Electronic Security System	1C-ACC5-ENT ACC 5 Enterprise License for Up to 1 Cameras	4.00	302	1,208
Electronic Security System	24-ACC5-ENT ACC 5 Enterprise License for up to 24 Cameras	2.00	6,025	12,050
Electronic Security System	3.0 H4A-DP1-IR 3.0 Megapixel WDR, Light Catcher Day/Night Outdoor Dome	4.00	878	3,512
Electronic Security System	3.0C-H4A-D1 3.0 Megapixel WDR, LightCatcher Day/Night Indoor Dome	7.00	752	5,264
Electronic Security System	4C ACC5-ENT ACC 5 Enterprise License for up to 4 Cameras	1.00	1,040	1,040
Electronic Security System	5.0 H4A-B01-IR 5.0 Megapixel Lightcatcher 4.3 mm f/1.8 P-iris	11.00	1,040	11,440
Electronic Security System	5.0L H4A-DP1-IR 5.0 MP Lightcatcher with Pendant Dome	6.00	986	5,916
Electronic Security System	5025-281 T8129 PoE Extender	8.00	195	1,560
Electronic Security System	8.0 H4A-B01-IR 4K UHD (8 megapixel) 4.3-88mm	6.00	1,350	8,100
Electronic Security System	8128ABR High Intensity IP SIP LED Storbe Light Amber, Red, Blue Lens	10.00	556	5,560
Electronic Security System	8C-ACC5-ENT ACC 5 Enterprise License for Up to 8 Cameras	4.00	2,061	8,244
Electronic Security System	9W-H3-3MH-B01-IR 3x 3 MP Pendant Multisensor Camera	1.00	1,688	1,688



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## High-Tech Security Features

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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	9W-H3-3MH-D01 3x 3 MP Outdoor Multisensor Camera	3.00	1,688	5,064
Electronic Security System	Baronet 50 Universal Programmable I/O Device server with Web Server	4.00	270	1,080
Electronic Security System	C6-4P-WJBB-01-OR-B 1 ft Cat 6 Patch Cable	16.00	5	80
Electronic Security System	C6-4P-WJBB-03-B-OR 3' CAT 6 COPPER Stranded Patch Cable orange	131.00	5	655
Electronic Security System	DAY-CAMKIT-1 Interior IP Camera Termination Kit	329.00	27	8,883
Electronic Security System	DAY-CAMKIT-2 Exterior IP Camera Termination Kit	43.00	99	4,257
Electronic Security System	ES-HD-HWS-LG Large Format Encloser for HD IP Pro Camera with 12VDC/24 AC Heater	6.00	373	2,238
Electronic Security System	ES-HD-IPM Optional POE+ Power Module	6.00	211	1,266
Electronic Security System	ES-HD-MNT-PLATE Reinforcing wall mount adapter for ES-HD Camera	6.00	36	216
Electronic Security System	G2081-WEB 1*5 x 7.5 Wired Guard	10.00	143	1,430
Electronic Security System	H4 BO JBox1 Junction Box for the H4A-BO-IR HD Bullet Cameras	20.00	81	1,620
Electronic Security System	H4A-MT-Wall1 Wall Mount Bracket for USe with H4A-DP pendant dome cameras	7.00	54	378
Electronic Security System	IPCDS-RWB-IC Double Sided Clock with Flashers 2 way audio, POE/SIP, SS Construction including Wall Bracket	36.00	1,470	52,920
Electronic Security System	IPCSS-RWB-IC IP Clock with Flashers, 2 way audio, POE/SIP 18	179.00	931	166,649
Electronic Security System	IPSIGNL-RWB-IC IP Extra Large Signboard with Flashers, 2 way audioPoE/SIP, 54	10.00	1,568	15,680
Electronic Security System	IPSWS-SM-IC IP Speaker AUdio Only Surface Mount 2 way audio PoE/SIP, includes IP	36.00	441	15,876
Electronic Security System	IPSWS-SM-O-IC IP Outdoor Paging Horn Surface Mount	10.00	598	5,980
Electronic Security System	LEF2414CA Canon 24 mm F/1.4 Auto	2.00	3,186	6,372

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	Iris			
Electronic Security System	LEF3514CA Canon 35 mm F/1.4 Auto Iris	2.00	2,625	5,250
Electronic Security System	M101SMB-B-262 1 port Keystone Jack with Cover	16.00	3	48
Electronic Security System	MNT-AD-CORNER Corner Mount Adaptor for HD Cameras	9.00	81	729
Electronic Security System	MNT-PEND-WALL Compact Wall mount Bracket for DP Pendant	10.00	81	810
Electronic Security System	NK5PP48P 48 Port Patch Panel	7.00	371	2,597
Electronic Security System	NVS-4-A-H 2U NVS HP Chassis 6TB Hard Drives Hot Swap able	8.00	11,064	88,512
Electronic Security System	POE-INJ2-PLUS-NA Single Port Gigabit 802.3at PoE Plus Injector Class 4	68.00	68	4,624
Electronic Security System	UNJ600-WH Cat-6 RJ45 White Keystone Jack	16.00	3	48
Electronic Security System	System configuration and Programming from Primary Vendor	1.00	54,896	54,896
Electronic Security System	Video System installation and Configuration by primary vendor	1.00	70,559	70,559