

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

SSIP Overview

Page Last Modified: 01/24/2019

Institution ID

80000054525

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

Joseph Reilly

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

607-654-3858

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

Reilly.j.n@gmail.com

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.

Supplemental 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

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

SSIP Overview

Page Last Modified: 01/24/2019

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.**

Port Byron SSIP.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.pbcschools.org/SmartSchools/pdfs/PB_SSSIP_Safety_and_Security.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.**

950

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:**

\$1,179,472

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	178,224
Connectivity Projects for Communities	

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

SSIP Overview

Page Last Modified: 01/24/2019

	Sub-Allocations
	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	802,017
Totals:	980,241

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

School Connectivity

Page Last Modified: 01/22/2019

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.

Port Byron subscribes to WAN services through Central New York Regional Information Center (CNYRIC) They currently exceed this 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	950	95,000	95	500	500	DNA

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

Port Byron will install wireless access points on the pole structures that are located on the campus. These areas allow the playing field and campus areas to access filtered wifi allowing classroom teachers to move outdoors when applicable. Imagine a Living Environment Science teacher accessing areas on the campus with students using Chrome books to record data and take pictures of samples. Physical Education teachers could reduce administrative time by reporting attendance during activities instead of spending precious minutes inside before proceeding outside. Elementary teachers could have writing activities outside weather permitting.

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 Port Byron Instructional Technology Plan establishes as a primary goal support of one-to-one learning and facilitating that program by reducing the network limitations in traditional installations.

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

School Connectivity

Page Last Modified: 01/22/2019

- 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.

Port Byron Central School is committed to supporting learning without boundaries. They have moved forward with a one-to-one environment and now wish to remove the boundary that learning can only occur in a traditional classrooms. Port Byron wishes to allow student to use the campus by extending the wireless network to exterior locations on the campus.

- 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
05-11-01-04-0-004-BA2
05-11-01-04-0-004-021

- 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	64,906
Outside Plant Costs	0
School Internal Connections and Components	110,565
Professional Services	2,753
Testing	0
Other Upfront Costs	0

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

School Connectivity

Page Last Modified: 01/22/2019

	Sub-Allocation
Other Costs	0
Totals:	178,224

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
Connections/Components	348800 DIN Rails for 16	8	25	200
Connections/Components	SFP-H10GB-CU3M= 10GBASE-CU SFP+ Cable 3 Meter (To existing 3650)	1	51	51
Connections/Components	AIR-CAB020LL-R 20 ft LOW LOSS CABLE ASSEMBLY W/RP-TNC CONNECTORS	12	66	792
Connections/Components	361429 4 Wifi Enclosure for External Wireless access points	7	69	483
Connections/Components	AIR-ACC245LA-N= 2.4 and 5 GHz Lightning Arrestor, N Connector	47	162	7,614
Connections/Components	AIR-ANT2568VG-N= 2.4 GHz 6dBi/5 GHz 8dBi Dual Band Omni Ant., Gray, N conn.	28	223	6,244
Connections/Components	GLC-TE= 1000BASE-T SFP transceiver module for Category 5 copper wire	1	229	229
Connections/Components	516137 18x16x10 Enclosure. Solid Door/Key Lock.	8	231	1,848
Connections/Components	GLC-SX-MMD= 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM (To Poles)	3	254	762
Connections/Components	GLC-SX-MM-RGD= 1000Mbps Multi-Mode Rugged SFP	18	279	5,022
Connections/Components	PWR-RGD-AC-DC-H IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	1	356	356
Connections/Components	AIR-PWRINJ-60RGD1= Power	3	441	1,323

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

School Connectivity

Page Last Modified: 01/22/2019

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	Injector, 60W, outdoor, North America plug			
Connections/Components	AR100 IT enclosures designed for specific environments and applications	1	452	452
Connections/Components	SFP-10G-SR-X= 10GBASE-SR SFP Module for Extended Temp range	1	800	800
Connections/Components	PWR-IE170W-PC-AC= IE family power supply 170W. AC to DC	8	838	6,704
Network/Access Costs	C1FPAIRK9 Cisco ONE Foundation Perpetual - Wireless	12	178	2,136
Network/Access Costs	AIR-ANT2513P4M-N= 2.4 GHz/5 GHz 13 dBi Patch Antenna.,4 port, N conn.	3	837	2,511
Network/Access Costs	AIR-AP1562E-B-K9 802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom.	12	937	11,244
Network/Access Costs	C3850-NM-2-10G Cisco Catalyst 3850 2 x 10GE Network Module	1	1,295	1,295
Network/Access Costs	IE-4000-4GC4GP4G-E IE 4000 4 x combo 1G with 4 x 1G PoE, 4 x 1G Combo , LAN Bas	8	3,134	25,072
Network/Access Costs	WS-C3850-12S-S Cisco Catalyst 3850 12 Port GE SFP IP Base	1	5,182	5,182
Network/Access Costs	IE-5000-12S12P-10G IE5000 12x1G SFP+12x10/100/1000 + 4 1G/10G LAN BASE	1	11,176	11,176
Network/Access Costs	CON-ECMU-C1FPAIR SWSS UPGRADES C1 Foundation Perpetual - Wireless	12	45	540
Network/Access Costs	CON-SNT-IE40004G SNTC-8X5XNBD IE 4000 4 x combo 1G with 4 x 1G PoE, 4 Year 1	7	420	2,940
Network/Access Costs	CON-SNT-IE40008P SNTC-8X5XNBD IE 4000 8 x RJ45 10/100/1000 with 8 x 1G Year 1	1	582	582
Network/Access Costs	CON-SNT-IES12P50 SNTC-8X5XNBD IE5000 12x1G SFP+12x10/100/1000 + 4 1G/1	1	1,496	1,496
Professional Services	PS-SNY-ADV Project Completion	1	2,753	2,753
Connections/Components	PS-SNY-ADV Phase 1 - Routing & Switching	1	6,074	6,074

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

School Connectivity

Page Last Modified: 01/22/2019

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	PS-SNY-ADV Phase 1 - Wireless	1	6,676	6,676
Connections/Components	PS-SNY-ADV Cabling Subcontractor	1	64,935	64,935
Network/Access Costs	CON-SNT-AIRBAP15 SNTC-8X5XNBD 802.11ac W2 Low-Prof Year 1	12	61	732

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

High-Tech Security Features

Page Last Modified: 01/22/2019

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.

Port Byron Central Schools has developed a comprehensive safety and security plan to provide their students and staff with a safe and secure learning environment.

The first component is a door security system that requires appropriate credentials and identification badges to enter the buildings. All of the main entrances of the building are equipped at this time. Port Byron wishes to use Smart Schools money to expand this system to other doors in the district. By installing these additional door controls, the district will limit unauthorized access both within and from the outside of the buildings.

The second component is a video security system that monitors the campus and buildings of the district. These cameras are kept current through annual purchases using NYSAFE Schools funding. The district wishes to expand the areas covered to include campus areas such as parking lots and play grounds as well as the approaches to the exterior doors. They also wish to extend the retention the retention capacity of the video recorders by installing a new 137 TB server.

The third component is a reliable classroom communication system providing digital communication both audio and display to all classrooms, offices, and public areas of the district.

The Port Byron Central Schools are an evacuation center for the region around the district.

A critical infrastructure addition to the Safety and Security plan is to provide back up power that will support the first three components in the event that the district loses power. The door security, the video security, and the classroom communication all fail in the event of a power outage leaving the buildings un-secure and vulnerable.

Port Byron is proposing that they use their Smart Allocation to install reliable back up power in the event of a power outage that will maintain the door controls, video security, and the digital communication portions of the security plan. In addition, these generators will provide supplemental power to the building infrastructure in the event the buildings are used for an extended emergency resource.

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
05-11-01-04-0-004-021
05-11-01-04-0-004-BA2

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.

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

High-Tech Security Features

Page Last Modified: 01/22/2019

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	455,201
Electronic Security System	244,120
Entry Control System	12,696
Approved Door Hardening Project	0
Other Costs	90,000
Totals:	802,017

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.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Capital-Intensive Security Project	Generac Model 250 Electrical Generators	3.00	71,885	215,655
Capital-Intensive Security Project	Concrete Installation pad for generators	3.00	3,288	9,864
Capital-Intensive Security Project	Steel mounting bollards	3.00	2,067	6,201
Capital-Intensive Security Project	Natural Gas supply line	3.00	10,808	32,424
Capital-Intensive Security Project	Electrical connections including conduit, grounding, power transformer, cables and power fail transfer switch	3.00	62,008	186,024
Capital-Intensive Security Project	System control and communications	1.00	5,033	5,033
Entry Control System	iClass/multiClass SE R40/RP40 Reader, HID Prox, Legacy, Wiegand, Black 920PTNNEK00000	26.00	254	6,604
Entry Control System	1 in. Recessed Door Contact, Wide-Gap, N.C. Loop DAY78G/ST-A	26.00	13	338
Entry Control System	1 in. Recessed Door Contact with 10k Ohm Embedded Resistors, Wide-Gap, N.C. Loop DAY78G/ST-D	26.00	19	494
Entry Control System	PASSIVE INFRARED REX, 12 TO 30VDC, 26MA, SURFACE MOUNT, FORM C CONTACTS DS160	26.00	61	1,586
Entry Control System	RIB Rly, 10 Amp, SPDT, 10-30	26.00	15	390

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

High-Tech Security Features

Page Last Modified: 01/22/2019

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	Vac/dc/120 Vac Coil RIBU1C			
Electronic Security System	ACC 5 Enterprise license for up to 1 camera channels and unlimited viewing clients 1C-ACC5-ENT	9.00	302	2,718
Electronic Security System	7K (30 MP) H.264 HD Pro with LightCatcher Technology 30L-H4PRO-B	7.00	8,950	62,650
Electronic Security System	Exterior IP Camera Termination Kit DAY-CAMKIT-2	7.00	98	686
Electronic Security System	Large Format Enclosure for HD IP Pro Cameras with 12VDC/24VAC Heater, Wall Bracket and Sunshield, Max combined camera and lens length is 12.8" (32.5 cm) ES-HD-HWS-LG	7.00	371	2,597
Electronic Security System	PoE+ power module, Powers full camera enclosure features & camera with a single Ethernet connection ES-HD-IPM	7.00	210	1,470
Electronic Security System	Reinforcing wall mount adapter for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG & ES-HD-CWS-LG ES-HD-MNT-PLATE	7.00	36	252
Electronic Security System	Canon, 85mm, f/1.2, Auto-Iris LEF8512CA	7.00	3,695	25,865
Electronic Security System	Single port Gigabit 802.3at PoE Plus injector, Class 4 - NA power cord POE-INJ2-PLUS-NA	7.00	68	476
Electronic Security System	SAS CP, 12	6.00	405	2,430
Electronic Security System	ACX-5740, 8 Readers, 12 UI, 4 DO, 10/100bT, exp i/o ACX-4-0000000	4.00	2,073	8,292
Electronic Security System	xP Module, 4 UI and 4 DO w/Overrides, USA xPBD4-A	4.00	372	1,488
Electronic Security System	A8004-VE IP Video Door Station, 2-way Communication w/Remote Entry Control 0673-001	2.00	1,224	2,448
Electronic Security System	3.0 Megapixel WDR, LightCatcher, Day/Night, Indoor Dome, 3-9mm f/1.3 P-iris lens, Self-Learning Video Analytics 3.0C-H4A-D1	2.00	752	1,504
Electronic Security System	External IP Relay, 4 Outputs, PoE 9137411E	2.00	215	430

Smart Schools Investment Plan - 2016-17 Version (Original) - Safety and Security

High-Tech Security Features

Page Last Modified: 01/22/2019

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	Interior IP Camera Termination Kit DAY-CAMKIT-1	2.00	28	56
Electronic Security System	2.0 Stereo Computer Speaker System (2-piece), Black NS-PCS20	2.00	22	44
Electronic Security System	ACX-5720, 4 Readers, 6 UI, 2 DO, 10/100bT, exp i/o ACX-2-0000000	1.00	1,508	1,508
Entry Control System	Go Mic Portable USB Microphone with Software SAGOMICHD	2.00	67	134
Electronic Security System	SFP+ 10GbE Transceiver at each end of Twinax Direct Attach Copper Cable, 3m HD-NVR3-SFPPLUS-DA	1.00	116	116
Electronic Security System	Network Card DP 10G-SFP+ HD-NVR3-STD-10GBE	1.00	698	698
Electronic Security System	Network Video Server, 2U Rack Mount, 137 TB, and Academic Licensing, Includes application configuration services. NVS-12-A-A	1.00	29,087	29,087
Electronic Security System	System configuration and programing	1.00	24,056	24,056
Electronic Security System	subcontractor for Hardware installation and cabling	1.00	62,250	62,250
Other Costs	Architect Fees, Submission fees, and legal notices	1.00	90,000	90,000
Electronic Security System	Sigma 35mm f/1.4 auto iris lense	7.00	1,857	12,999
Entry Control System	HgC 10A 24Vdc PS w/battery Back Up 1ACX/2 EMX/8 ACD	3.00	780	2,340
Entry Control System	SAS CP 12x12x6 N1 SC enc Max 1-ADA Door Adjustment Time delays for In & Ext ADA Equipment	2.00	405	810