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

SSIP Overview

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Institution ID

800000051329

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.

6076543858

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.

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 occured 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.

Dolgeville Smart Schools.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.dolgeville.org/post/smartbond/

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.

975

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:

$1,078,019

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	45,796
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	171,288
Totals:	**217,084**

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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.

Dolgeville Central currently subscribes with the Madison Oneida Regional Information Center for internet access.
As shown below, the district currently exceeds this requirement.

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	910	91,000	91	1000	(No Response)	Current

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

Dolgeville currently has a robust wireless network with adequate access to support student access. They are requesting a small number of access points to support large group areas such as the auditorium, the gym, and the cafeteria. These areas serve for unstructured, indipendent work as well as testing centers for state level tests.

The district is also proposing upgrading their existing POE switch capacity to Cisco 2960X-48 POE switches. This will accomplish three goals. The first will allow the district to upgrade their port access to 1 gig per port. This will allow the existing wireless access points to perform at a higher speed. The second goal that this will accomplish is to expand the number of POE ports. The district is proposing the addition of POE dependent safety devices in a later component of this plan. These switches will support those POE devices. Finally, this upgrade will expand the capacity of the network backbone by increasing the switch to switch capacity up to 10 Gig. This will allow the network to support both student usage and security devices.

Finally, Dolgeville has two lengths of fiber cable that needs to be replaced totaling 600 feet. This cable is out dated and limits the capacity of the district to serve areas with the 10 gig capacity of the switches.

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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?)

Dolgeville Central's plan calls for a one-to-one environment with all students have access to the resources and tools provided by the internet and a personal device. This plan completes the required infrastructure to support those goals. The switches and the wireless access points will provide saturation coverage in the districts buildings allowing EVERY student to learn and work in any learning space in the building.

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.

The district currently has a robust wireless network for student access to the Internet from wireless devices. Working with the Madison Oneida Regional Information Center planning staff and Annese and Associates, the district first identified any under served areas for possible wireless access point expansion. Those requirements are reflected below. They also determined that upgrading the edge switches would provide a significant increase in performance and capacity for their users. This upgrade will primarily support security devices in the immediate future and in the long term, these switches will provide support for any future network expansion that is required as well as improved capacity to the core switch for ALL usages.

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
21-10-03-04-7-999-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
James Graham	23879

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.

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	Sub-Allocation
Network/Access Costs	25,312
Outside Plant Costs	0
School Internal Connections and Components	15,899
Professional Services	0
Testing	985
Other Upfront Costs	3,600
Other Costs	0
Totals:	**45,796**

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
Network/Access Costs	WS-C2960X-48FPD-L Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base 80% Erate Discount	16	832	13,312
Connections/Components	SFP-10G-LRM 10GBASE-LRM SFP Module 80% Erate Discount	16	104	1,664
Connections/Components	C2960X-Stack Catalyst 2960 Stacking Module 80% Erate Discount	16	125	2,000
Network/Access Costs	AIR-AP2802I-B-K9 wireless access points	20	600	12,000
Other Upfront Costs	Wireless access point licenses	20	180	3,600
Connections/Components	Installation and configuration of Switches and Wireless access points	1	6,235	6,235
Connections/Components	Installation and termination of 600 feet of OM3 Fiber to replace existing Fiber	600	10	6,000
Testing	termination and Testing of 24 strands of OM3 Fiber	1	985	985

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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.

Communication with all locations in the district are critical in the event of an emergency. Currently, Dolgeville has a dated classroom communication system, with limited capacity, and some locations of the district that are not serviced. The district proposes installing a Voice over IP classroom communication system with their Smart School funds. This will allow all locations in the district to have reliable communication both audible and digitally. These telephones have a digital display that allows the district to send digital messages to the phone. This system also allows the district to send emergency messages to specific phones, groups of phones and even one building or another. This managed communication would be extremely valuable in the event of an emergency.

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
21-10-03-04-7-999-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
James Graham	23879

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	171,288
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	0
Totals:	**171,288**

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

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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
Electronic Security System	BE6M-Mr-K9 Cisco Business Edition 6000M Svr	2.00	4,888	9,776
Electronic Security System	UCSC -PSU1-770W+ 770W AC hot plug Power Supply for server	2.00	364	728
Electronic Security System	CAB-9K12A-NA Power Cord VAC	2.00	13	26
Electronic Security System	NIM-4FXO 4 port Network Interface Module	4.00	428	1,712
Electronic Security System	SM-X-NIM-ADPTR SM-X Adapter for one NIM Module	1.00	260	260
Electronic Security System	CP-8841-K9 Cisco IP Phone 8841	39.00	268	10,452
Electronic Security System	ATA 190 UC 2 Port Analog Telephone adapter	7.00	156	1,092
Electronic Security System	CP-8851-K9 Cisco IP Phone 8851	6.00	320	1,920
Electronic Security System	CP-BEKEM Cisco IP Phone Expansion Module	6.00	255	1,530
Electronic Security System	CP 7841 K9 Cisco 7841 classroom phone	125.00	190	23,750
Electronic Security System	CP-8831-K9 Cisco 8831 Base/Control Panel	10.00	777	7,770
Electronic Security System	QL-CSCO-Record QL Add On Recording Module for BIB Recording Services 5 channel	1.00	6,295	6,295
Electronic Security System	ZONE-2-IC AND Zone Controller Singlewire	1.00	600	600
Electronic Security System	CAB-ETH-S-RJ45 2 Ft Blue Ethernet Cable	161.00	2	322
Electronic Security System	ISR4351-V/k9 Cisco ISR 4351 Bundle License	1.00	5,720	5,720
Electronic Security System	FL-CME-SRST-25 Communication Manager Express 25 Seat License	1.00	338	338
Electronic Security System	SRW 12U SmartRack 12 U Low Profile Switch Depth Wall Mount Enclosure	2.00	287	574
Electronic Security System	BE6K Start-UCL35 Essential User License	1.00	260	260
Electronic Security System	BE6K-UCL-ESS Server Essential	12.00	21	252

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
	Business Connect License			
Electronic Security System	BE6K-UCL-VM Cisco Voice/Unified Messaging License	135.00	109	14,715
Electronic Security System	BE6K-UCL-ENH Cisco Server Enhanced User Connect Lic	125.00	39	4,875
Electronic Security System	QL-Record-CHN License for 5 concurrent recording channels	4.00	1,575	6,300
Electronic Security System	SP-Infmcst-1-250 Informa Cast 250 End User Licenses	1.00	3,274	3,274
Electronic Security System	PS-SNY Routing and Switching Installation	1.00	7,135	7,135
Electronic Security System	PS-SNY Unified Calling Configuration	1.00	29,629	29,629
Electronic Security System	PS-SNY Project configuration	1.00	13,423	13,423
Electronic Security System	Quicklert Phone Backup	1.00	2,800	2,800
Electronic Security System	SP-ATLAS-18S Large group speakers	20.00	788	15,760