Smart Schools Investment Plan - 2016-17 Version (Original) - SSIP #2

SSIP Overview

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Institution ID

800000036121

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

Lawrence Mautone

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

845-247-6503

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

lmautone@saugerties.k12.ny.us

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

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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.

SMARTSCHOOLS BOND ACT SSIP 2.pdf
Proposal Number 2 - January 10, 2017 .docx

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.saugerties.k12.ny.us/Page/10073

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.

3,100

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:

$1,966,367

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	525,339

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	Sub-Allocations
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	300,448
Totals:	**825,787**

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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.

We are currently at 265 MBs.

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	2,550	255,000	255	265	265	Currently Met

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

By upgrading our Network switches and backbone/infrastructure in all buildings/locations will be up to a minimum of 10 gigabytes in each of our buildings. There will be a 200 megabyte interconnect between buildings. After our wired Network is installed Wifi will be installed in each of our buildings.

Each classroom will have their own access point as well as our common areas such as: cafeteria, gymnasium, auditorium, main offices, and media centers. The switches we will be using are Cisco catylist switches and there will be multiple switches per building.

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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?)

Students in grades K-6 have a minimum of one computer lab session scheduled every six day cycle. In these grade levels the teachers will be introducing and preparing students to use various types of technology that will be integrated in their current as well as future classes. In addition to their computer lab time, teachers have access to wireless device carts that can be brought into the classroom.

Students in grade 7 -12 have technology integrated into their curriculum through projects and assignments. Teachers have the ability to use the school computer labs and also bring in wireless device carts into the classroom.

The Saugerties Central School District will adapt the “Common Core State Standards K-12: Technology Skills Scope and Sequence”. This scope and sequence was created by the Long Beach Unified School District in California and is aligned to the Common Core State Standards requirements for Mathematics and English Language Arts & Literacy in Social Studies and Science. This scope and sequence incorporates strategies that will ensure the integration of technology into the K-12 curriculum in a specified period of time. Strategies include the integration and implementation through specialized course work aligned with Common Core Standards including distance learning. As you will see the scope and sequence (attached) sets understandings and skills to be achieved by students at different grade levels.

The timeline for implementing this is as follows:

- K-6 understandings and skills to be integrated in 2018-2020
- 7-8 understandings and skills to be integrated in 2018-2020
- 9-12 understandings and skills to be integrated in 2018-2020

The District is also continuing to purchase resources that are available to students, parents, and staff electronically. When possible textbooks and resources are purchased for online use.

The District is encouraging teachers that are using blended learning and flipped classrooms. The District is also using online credit recovery classes for some students.

With the increased integration of technology it is important that the District provide opportunities and times for students to be able to work with technology.

The purchases in School Connectivity will allow us to purchase and connect more wireless devices. This will help our teachers of students with Disabilities, 504 plans, and our ELL students significantly. They will be able to pull students out of the classroom for small instruction and be able to have access to the same technology that regular education students have in the classrooms.
It will also allow students to use district devices in our common areas when libraries, computer labs, etc. are being used by classes. This will enable them to complete homework and other assignments during their study halls and free periods, which will be a big help for those students without technology at home.
Teachers will be able to always have access to district devices and our district network to maximize their prep periods and duties. They will now be able to work while on duties or supervising in locations that were not hard wired in the past.

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.

Our plan is to install 139 access points between three school buildings. This along with a one gigabyte up-link from each access point to the Network will be sufficient for all student and staff use now and into the future.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review

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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
62-16-01-06-7-999-001
62-16-01-06-7-999-BA2

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
John Jojo	25849

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	55,806
Outside Plant Costs	(No Response)
School Internal Connections and Components	230,648
Professional Services	13,438
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	225,447
Totals:	**525,339**

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.

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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	PBT/Polycarbonate NEMA 4 enclosure for WAP, with hinged, solid door	4	250	1,000
Network/Access Costs	2.4 GHz 2 dBi/5 GHz 4 dBi Dipole Ant., White, RP-TNC	16	20	320
Network/Access Costs	802.11ac W2 AP w/CA; 4x4:3; Ext Ant; 2xGbE, B Domain	4	698	2,792
Network/Access Costs	802.11ac CAP w/CleanAir; 3x4:3SS; Int Ant; B Reg Domain	8	548	4,384
Network/Access Costs	Rack PDU, Basic, 1U, 15A, 120V, (10)5-15	4	85	340
Network/Access Costs	APC SmartUPS/SmartUPS RT Two Post Rail Kit	8	149	1,192
Connections/Components	Cisco Catalyst 3850 8 x 10GE Network Module	4	3,000	12,000
Connections/Components	Fiber Optic Cable, LC/SC, Single Mode, Duplex - 5 meter (9/125 Type)	8	38	304
Connections/Components	10GBASE-LRM SFP Module	8	498	3,984
Connections/Components	10GBASE-CU SFP+ Cable 1 Meter	4	50	200
Connections/Components	Environmental: Rack mounting battery backups for network stacks	1	2,056	2,056
Connections/Components	Routing & Switching: Mounting switches and loading configurations, building out vlans. Providing internet connectivity through catalyst switching	1	4,602	4,602
Connections/Components	Wireless: Installing and configuring wireless access point to provide wireless access in classrooms and on campus	1	941	941
Connections/Components	Authentication / Network Management: Configuring wireless management system for users and guests	1	6,140	6,140
Professional Services	Project Completion: Project organization and management during planning, implication and completion of project	1	13,438	13,438
Other Costs	Asbestos Abatement	1	225,447	225,447
Connections/Components	Cat 6A Cabling	1	199,421	199,421

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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
Network/Access Costs	Cisco Catalyst 3850 48 Port (12 mGig+36 Gig) UPoE IP Base	4	7,650	30,600
Network/Access Costs	SNTC-8X5X4 Cisco Catalyst 3850 48 Port (12 mGig+36	4	1,118	4,472
Network/Access Costs	APC Smart-UPS X 3000VA Rack/Tower LCD 100-127V with Network Card	2	1,778	3,556
Network/Access Costs	APC Smart-UPS X 2000VA Rack/Tower LCD 100-127V with Network Card	2	1,505	3,010
Network/Access Costs	APC Smart-UPS X 120V External Battery Pack Rack/Tower	4	753	3,012
Network/Access Costs	Service Pack - 3 Year Warranty Extension (for above UPS Units)	4	183	732
Network/Access Costs	Service Pack - 3 Year Warranty Extension (for above UPS Units)	4	349	1,396

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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.

We will be installing Access Control Entry systems in two of our school buildings. We will be installing a new VOIP system. This system Includes a Phone System and the Ability for Emergency 911 Monitoring, Public Announcements, Emergency Paging from Any Phone, Single Button Emergency Services, Call Recording, Controlling Door Access to Buildings, and Video Images of Outside of Building Doors. Will will be installing Surveillance Cameras to include monitoring inside and outside of buildings, the ability to set retention time periods, and infrared lights on outside cameras.

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
62-16-01-06-7-999-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
John Jojo	25849

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)	(No Response)
Electronic Security System	227,696
Entry Control System	72,752
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	**300,448**

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.

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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	Wallmount Kit for Cisco UC Phone 7800 Series	135.00	38	5,130
Electronic Security System	Cisco UC Phone 7821	139.00	128	17,792
Electronic Security System	Cisco IP Phone 8845	5.00	288	1,440
Electronic Security System	Cisco UC Phone 8851	4.00	298	1,192
Electronic Security System	Cisco IP Phone 8865	5.00	398	1,990
Electronic Security System	Cisco IP Phone Expansion Module	3.00	235	705
Electronic Security System	Indoor Surface Mount with smoked dome for CIVS-IPC-6020	43.00	25	1,075
Electronic Security System	Smoked Vandal Resistant Dome for 35xx, 6k, 7k IP Domes	10.00	38	380
Electronic Security System	Cisco Dome IP Camera, Indoor, 1080p DN, WDR IO	43.00	900	38,700
Electronic Security System	Cisco Dome IP Camera, Outdoor, 1080p DN, WDR IO	10.00	1,050	10,500
Electronic Security System	Cisco 5MP 360 Degreee Dome Camera	8.00	950	7,600
Electronic Security System	VSphere Standard for 1 CPU; ANNUAL List 1-YR Reqd	4.00	336	1,344
Entry Control System	Helios IP License, Enhanced	2.00	90	180
Entry Control System	Helios IP Force 1 Button Camera 10w Speaker	2.00	990	1,980
Entry Control System	Identiv ICPAM EM-100 Controller	8.00	900	7,200
Entry Control System	Wall Bundle Option - Controller and Wall Mount Reader	2.00	1,100	2,200
Entry Control System	EDelivery License for 1 camera connection with VSM7	50.00	163	8,150
Entry Control System	EDelivery License for one Media Server on C Series	4.00	1,000	4,000
Entry Control System	Cisco 12G SAS Modular Raid Controller	2.00	328	656
Entry Control System	Cisco 12Gbps SAS 2GB FBWC Cache module (Raid 0/1/5/6)	2.00	703	1,406
Entry Control System	650W V2 AC Power Supply for 2U C-Series Servers	4.00	316	1,264

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
Entry Control System	2.60 GHz E5-2660 v3/105W 10C/25MB Cache/DDR4 2133MHz	4.00	2,073	8,292
Entry Control System	Ball Bearing Rail Kit for C220 M4 and C240 M4 rack servers	2.00	110	220
Entry Control System	6 TB 12G SAS 7.2K RPM LFF HDD (4K)	24.00	1,050	25,200
Entry Control System	32GB DDR4-2133-MHz LRDIMM/PC4-17000/quad rank/x4/1.2v	4.00	825	3,300
Entry Control System	32GB SD Card for UCS servers	4.00	81	324
Entry Control System	VMware vSphere 6 Standard (1 CPU), 1-yr, Support Required	4.00	912	3,648
Electronic Security System	5 MP P3367-VE	10.00	1,199	11,990
Electronic Security System	Pendent mount for the P3367-VE	10.00	48	480
Electronic Security System	20MP multi lens camera	8.00	1,739	13,912
Electronic Security System	Corner Mount Adaptor for 20MP cameras	8.00	54	432
Electronic Security System	Camera mounting cap	8.00	42	336
Electronic Security System	Wall Mount bracket	8.00	78	624
Entry Control System	Request to exit motion	4.00	116	464
Entry Control System	Electric Strikes	5.00	347	1,735
Entry Control System	Door Contact	30.00	6	180
Entry Control System	Equipment cans, locks, wiremold, fasteners	1.00	2,353	2,353
Electronic Security System	Lift rental and 4 moves for 2 months	1.00	3,059	3,059
Electronic Security System	CAT 6A Cabling	1.00	73,371	73,371
Electronic Security System	UCS C240 M4 LFF 12 HD w/o CPU,mem,HD,PCIe,PS,railkt w/expdr	2.00	1,713	3,426
Electronic Security System	SNTC-8X5XNBD UCS C240 M4 LFF 12 HD (Support on above UCS Server)	2.00	339	678
Electronic Security System	Unified Communications: Providing a new VoIP communication and integrating that into security and lock down procedures	1.00	24,710	24,710
Electronic Security System	Four-port Voice Interface Card - FXO (Universal)	2.00	440	880
Electronic Security System	Two-Port Voice Interface Card- FXS and DID	2.00	220	440

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	8831 UNIFIED IP CONFERENCE for CUWL User	2.00	698	1,396
Electronic Security System	Extended service agreement - replacement - 8x5 - response time: NBD (for 8831)	2.00	45	90
Electronic Security System	2901 Voice Bundle w/PVDM3-16,FL-CME-SRST-25,UC Lic,FL-CUBE10	2.00	1,696	3,396
Electronic Security System	SNTC-8X5XNBDOS 2901 Voice Bundle w/ UC (Service for 2901)	2.00	314	628