

Smart Schools Investment Plan - 2016-17 Version (Original) - NV Investment Plan Spring 2017

SSIP Overview

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Institution ID

80000036531

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

Ryan Dougherty

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

607-642-8331

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

rdougherty@nvcs.stier.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.**

01NEWNVCS Smart Bond Presentation 0321161.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.nvcs.stier.org/CommunityMembersandAlumni.aspx>

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.**

1,300

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:**

\$1,372,518

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	559,593
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	432,758
Totals:	992,351

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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.

We already meet this standard in all of our school buildings.

- 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	1,187	118,700	118.7	1000	1000	already 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.

We will be using connectivity allocation to build and expand infrastructure:

- Upgrade fiber backbone to 10GB
- Increase POE switches to support technology and security upgrade.
- Upgrade data closets to support technology

4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

The district plans to use technology to connect students globally. NVCS D also plans to use technology to enhance and differentiate instruction. Our plans also include the expansion of our blended learning classes. In addition, we will use technology to better communication with our school community.

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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.

We purchased an Aruba 7205 robust mobility controller. We currently have 47 access points in our district. This project will allow us to deploy additional access points throughout the district.

- 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
60-04-02-04-7-999-002

- 7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

No

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

Name	License Number
Paul Bedford	21387

- 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	373,703
Outside Plant Costs	0
School Internal Connections and Components	32,000
Professional Services	108,890
Testing	45,000
Other Upfront Costs	0
Other Costs	0
Totals:	559,593

- 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,

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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	DW Fiber Upgrade	8	4,000	32,000
Network/Access Costs	New POE Switches	32	4,295	137,440
Network/Access Costs	Data Closet Upgrades/Equipment	11	9,160	100,760
Network/Access Costs	UPS Power Supplies	12	4,000	48,000
Testing	Point by Point Terminal and Continuity Testing	1	45,000	45,000
Network/Access Costs	Installation/Programming	1	87,503	87,503
Professional Services	Professional Services (Engineers, research, design, submission to NYSED, project administration	1	108,890	108,890

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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.

The current security system is outdated and analog based. There is a high failure/replacement cost of cameras currently, which is very costly. The analog connections of each camera produces a low quality image, increasing difficulty in managing security. We will upgrade cameras, wiring, and recording devices to allow IP based transmissions in a high resolution format. Our floor plans will be reviewed to ensure maximum coverage as well as identify critical areas to heighten security. In addition, our existing phone system is outdated and does not currently tie into our PA system. Adding VoIP will upgrade our phones and will enable the district to also access our PA system. With the new VoIP system we will also have the ability to know when an emergency call is placed out of the district, enhancing securing and emergency response.

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
60-04-02-04-7-999-02

3. Was your project deemed eligible for streamlined Review?

- Yes
 No

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

Name	License Number
Paul Bedford	21387

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	371,507
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	61,251
Totals:	432,758

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.

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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	HS Indoor Camera	40.00	1,133	45,322
Electronic Security System	HS Outdoor Camera	17.00	4,315	73,355
Electronic Security System	DVR's	2.00	11,049	22,098
Electronic Security System	Servers/Processors	1.00	3,000	3,000
Electronic Security System	Cabling	60.00	695	41,700
Electronic Security System	Installation/Programming - Cameras	1.00	66,199	66,199
Other Costs	Professional Services - Engineers, research, design submission to NYESD, project administration	1.00	61,251	61,251
Electronic Security System	VoIP - Voice Switch ST50A	3.00	1,220	3,660
Electronic Security System	VoIP - Voice Switch ST100A	2.00	1,952	3,904
Electronic Security System	VoIP - Voice Switch ST100DA	1.00	3,721	3,721
Electronic Security System	VoIP - Satellite Microphones for IP Phone IP655	4.00	119	476
Electronic Security System	VoIP - IP Phone IP 655	4.00	457	1,828
Electronic Security System	VoIP - IP Phone IP 485g	80.00	262	20,960
Electronic Security System	VoIP - IP Phone IP 420g	152.00	134	20,368
Electronic Security System	VoIP - Emergency Notification Alert Software	1.00	3,355	3,355
Electronic Security System	VoIP - Rack Mount Tray Kit for SG switch	3.00	65	195
Electronic Security System	VoIP - Rack Mount Ears	1.00	100	100
Electronic Security System	VoIP - Connect ONSITE Courtesy License	10.00	61	610
Electronic Security System	VoIP - Connect ONSITE Telephony License	224.00	97	21,728
Electronic Security System	VoIP - Connect ONSITE Essentials License	10.00	122	1,220
Electronic Security System	VoIP - Additional Site License	2.00	302	604
Electronic Security System	VoIP - Installation, configuration, testing and training	1.00	26,614	26,614
Electronic Security System	VoIP - Additional Cabling	15.00	285	4,275
Electronic Security System	VoIP - Partner Support	1.00	6,215	6,215