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

SSIP Overview

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

   Lorraine Childs

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

      518-856-9421

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

      lchilds@stregiscsd.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.**

   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

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.

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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.**

St. Regis Falls - Smart Schools Investment Plan.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.stregisfallscsd.org/docs/docs.htm

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.**

352

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:**

$444,145

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	86,879
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	**86,879**

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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.

    The district currently possess sufficient connectivity infrastructure but will seek to update and expand to ensure that our connectivity is more efficient and will better accommodate the increase in technology being used by staff and students.

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	269	26,900	26.9	40	100	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.

    The District plans to move to a 1:1 student device ratio in the future. A strong internal server with appropriate switches is necessary to ensure the current devices and added devices can connect to the network without delay.

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 has adopted the International Society for Technology in Education (ISTE) standards for students. Those standards are organized into six categories: 1)Creativity and Innovation, 2)Communication and Collaboration, 3)Research and Information Fluency, 4)Critical Thinking, Problem Solving, and Decision Making, 5)Digital Citizenship, and 6)Technology Operations and Concepts. Looking at these categories, these are not skills that we want our students practicing once a month when we can get them into a computer lab. These are skills that are crucial for college and career readiness. For that reason, teachers and students need to be able to use technology much more frequently, flexibly, and organically, as a natural part of the teaching and learning taking place. The school connectivity project will help to ensure that our coverage is sufficient in its capabilities to support the current instructional computers and to support the 1:1 computing environment we are moving toward.

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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.

   The District has a current, strong internal wireless infrastructure necessary to ensure the current and added devices can connect wirelessly to the network without delay by updating the server core switches.

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
16-18-01-04-0-002-004

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
Matthew Monaghan	29199

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	79,025
Outside Plant Costs	0
School Internal Connections and Components	5,854
Professional Services	2,000
Testing	0
Other Upfront Costs	0
Other Costs	0
Totals:	86,879

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
Network/Access Costs	Aruba 5406R 44GT PoE+/4SFP+ v3 zl2 Swch	1	4,550	4,550
Network/Access Costs	HPE 1Y FC NBD Exch Aruba 5406R zl2 S $459.36 $459.36 SVC,Aruba 5406R zl2 Switch,9x5 HW support with next business day HW exchange. 9x5 SW phone support and SW Updates for eligible SW.	1	459	459
Network/Access Costs	Aruba 5400R 1100W PoE+ zl2 PSU	2	615	1,230
Network/Access Costs	Aruba 5400R zl2 Management Module	1	1,250	1,250
Network/Access Costs	Aruba 24p 1000BASE-T PoE+ v3 zl2 Mod	3	1,800	5,400
Network/Access Costs	Aruba 20p PoE+ / 4p SFP+ v3 zl2 Mod	1	2,000	2,000
Network/Access Costs	Aruba 2930M 48G PoE+ 1-slot Switch	6	2,662	15,972
Network/Access Costs	Aruba X372 54VDC 1050W PS	6	394	2,364
Connections/Components	Aruba 2930 2-port Stacking Module	6	510	3,060
Connections/Components	Aruba 3810M/2930M 4SFP+ MACsec Module	4	529	2,116
Connections/Components	Aruba 2920/2930M 1m Stacking Cable	4	95	378
Connections/Components	Aruba 2920/2930M 3m Stacking Cable	2	150	300
Network/Access Costs	Aruba 7030-K12-32 (US) K12 32 AP Bundle	1	5,498	5,498
Network/Access Costs	Aruba 7030 (US) 64 AP Branch Cntlr	1	3,498	3,498
Network/Access Costs	Aruba 1Y FC NBD Exch ED/R 7030 Cntrl SVC,7030 Controller,9x5 HW support with next business day HW exchange. 9x5 SW phone support and SW Updates for eligible SW.	1	553	553
Network/Access Costs	Aruba AP-314 Dual 2x2/4x4 802.11ac AP	6	498	2,988
Network/Access Costs	AP-ANT-1W 2.4/5G 4/6dBi Omni	24	15	360
Network/Access Costs	Aruba AP-315 Dual 2x2/4x4 802.11ac AP	24	498	11,952
Network/Access Costs	Aruba AirWave 1 Dev License Bundle E-LTU	35	25	875

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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	Aruba ClearPass 500 Virtual App E-LTU	1	3,250	3,250
Network/Access Costs	Aruba 1Y FC 24X7 ED/R500VrtlAppE-LTUSVC,ClearPass 500 Virtual App	1	464	464
Network/Access Costs	SMART-UPS 2000VARACK/TOWERLCD 100-127V	3	1,432	4,296
Network/Access Costs	SMART-UPS External Battery Pack Rack	3	775	2,325
Network/Access Costs	APC SMART-UPS RT Two Post Rail Kit	6	161	966
Network/Access Costs	Aruba Airwave Installation	2	1,200	2,400
Network/Access Costs	Aruba ClearpPass Installation	2	1,200	2,400
Network/Access Costs	Core/Edge Switch and Controller Configuration	3	1,200	3,600
Network/Access Costs	UPS Installation	3	125	375
Professional Services	Aruba Airwave and ClearPass Training	2	1,000	2,000