

Smart Schools Investment Plan - 2016-17 Version (Original) - Smart School Bond Act Network Upgrade

SSIP Overview

Page Last Modified: 03/01/2019

Institution ID

80000051220

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

Jon Benner

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

315-686-5521 x5655

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

bennerj@ticsd.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.**

TI-LAN-Upgrade_Diagram.pdf
 Frontrunner Proposal 2.28.19.pdf
 TICSD_Preliminary_SMART_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.1000islandsschools.org/cms/One.aspx?portalId=417055&pageId=2697810>

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.**

1,032

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:**

\$752,523

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.**

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	Sub-Allocations
School Connectivity	421,603
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	421,603

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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.

Our District currently exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students with 10 Gbps (1,000 Mbps) for a student population of 910.

- 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	91	1000	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.

Thousand Islands CSD has implemented a 1 to 1 Chromebook program in grades five through twelve. Chromebooks are also used extensively at the kindergarten through fourth grades. Through past capital projects and yearly spending the network infrastructure has been upgraded over time to support this. Additional coverage areas such as playgrounds, athletic venues, bus drop off zones, and concession areas will be added to our current coverage which will allow our staff and students greater access. Using funds provided through SMART, our intent is to further expand on the capabilities of our network and wireless infrastructure. Once complete all old access points will be replaced with new, faster units. All classrooms will have dedicated access points, and the supporting infrastructure will have redundancy built in to ensure uptime for students and faculty. Upon completion of this SMART bond project all buildings will have robust wireless access and we will have eliminated as many dead zones in coverage as possible.

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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?")

This infrastructure upgrade will strengthen and expand our wired and wireless networks which will enhance and support all the other instructional components. The WiFi upgrade will allow us to increase the number of mobile devices available for student research, collaboration, and instruction by providing an always on access to technology. This will expand the options our students have for taking online courses and Distant Learning by providing us greater opportunities for learning, preparing them for similar learning experiences post-secondary, and better preparing them for college and career readiness. This will also allow our District to be fully prepared for computer based testing as expected by the New York State Education Department.

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.

With our current 1 to 1 initiative and wireless infrastructure we experience some intermittent connection problems in areas of highest use, mostly in the high school and middle school, consequently the students cannot utilize their Chromebooks for school and homework. The auditorium and lunch rooms have problems as well when utilized for large group instruction and testing. Through this upgrade we will eliminate these congestion problems and minimize dead zones in our coverage District wide. As we extend our 1 to 1 initiative to more grade levels the increased number of devices will place a greater demand on our network therefore upgrading the system is critical to the success of our 21st Century Learners.

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
22-07-01-04-7-999-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
Nick Signorelli	24017

9. If you are submitting an allocation for School Connectivity complete this table.

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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	269,562
Outside Plant Costs	(No Response)
School Internal Connections and Components	146,841
Professional Services	2,400
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	2,800
Totals:	421,603

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	Aruba 5400R 1100W PoE+ z12 PSU	5	645	3,225
Connections/Components	Aruba 10G SFP+ LC LRM 220m MMF Transceiver	33	475	15,675
Connections/Components	Aruba 24p 1000BASE-T PoE+ v3 z12 Mod	4	1,890	7,560
Connections/Components	Aruba 8p 1G/10GbE SFP+ v3 z12 Mod	2	2,520	5,040
Connections/Components	Aruba 10G SFP+ LC LR 10km SMF Transceiver	9	1,465	13,185
Connections/Components	Aruba 10G SFP+ to SFP+ 3m DAC Cable	2	75	150
Connections/Components	Aruba 10G SFP+ to SFP+ 7m DAC Cable	2	102	205
Connections/Components	Aruba X372 54VDC 1050W Power Supply	37	492	18,223
Connections/Components	Aruba 2930 2-port Stacking Module	36	535	19,260
Connections/Components	Aruba 3810M/2930M 4SFP+ MACsec Module	19	662	12,588

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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
Connections/Components	Aruba 2920/2930M 1m Stacking Cable	27	100	2,700
Connections/Components	Aruba 2920/2930M 3m Stacking Cable	8	157	1,260
Connections/Components	Aruba 10G SFP+ to SFP+ 1m DAC Cable	2	52	105
Connections/Components	PC-AC-NA North America AC Power Cord	2	2	5
Connections/Components	Aruba 1G SFP LC LX 10km SMF Transceiver	7	365	2,555
Connections/Components	Aruba X372 54VDC 680W Power Supply	3	335	1,005
Network/Access Costs	AP-ANT-1W 2.4-2.5GHz (4dBi)/4.9-5.875GHz (6dBi) Hi Gain Dual-band Omni-Dir Indoor Antenna	304	17	5,320
Network/Access Costs	Aruba 5406R 44GT PoE+/4SFP+ v3 zl2 Switch	2	4,777	9,555
Network/Access Costs	Aruba 2930M 48G PoE+ 1-slot Switch	37	3,330	123,210
Network/Access Costs	Aruba MM-VA-50 Mobility Master SW E-LTU	3	997	2,993
Network/Access Costs	Aruba 7205-K12-64-US 7205 K-12 (US) Mobility Controller w/64 AP License Bundle (includes 1 Year FC support)	2	10,760	21,520
Network/Access Costs	Aruba LIC-K12-1 1 Addl AP Lic for Policy Enforcement FW and RF Protect for K-12 Bundle E-LTU (Adds one each of LIC-AP, LIC-PEF and LIC-RFP license to any K-12 bundle. Includes 1 Year FC support.)	19	82	1,568
Network/Access Costs	Aruba AP-365 (US) Outdoor AP	14	680	9,520
Network/Access Costs	Aruba AW-K12-1 AirWave K-12 Bundle 1 Device License E-LTU (includes 1 Year FC support)	165	24	4,043
Network/Access Costs	Aruba ClearPass Cx000V VM Appliance E-LTU	1	2,000	2,000
Network/Access Costs	Aruba ClearPass NL AC 500 CE E-LTU	1	6,500	6,500
Network/Access Costs	Aruba AP-514 (US) Unified AP	76	575	43,700
Network/Access Costs	Aruba AP-515 (US) Unified AP	57	575	32,775
Network/Access Costs	Aruba 2930M 24G PoE+ 1-slot Switch	3	1,810	5,430

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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 2930F 24G PoE+ 4SFP Switch	1	1,427	1,428
Other Costs	AP-270-MNT-V2 AP-270 Series Outdoor Pole/Wall Short Mount Kit	14	67	945
Other Costs	Aruba AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type B: suspended ceiling rail, ?at 15/16	6	102	615
Other Costs	Aruba AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box	8	155	1,240
Connections/Components	Physical Installation: Access point installation - Install (74) wall mounted WLAN access points and (55) drop ceiling access points. Assumes that all access point locations have new Cat6 terminated network cable in place with locations clearly marked. Assumes 1000 Islands to install (14) exterior WLAN access points. Data Switches - Stage core and edge data switches (install all modules/power supplies). Rack mount 42 data switches in 14 existing closets and patch into existing patch panels and racks. Assumes that existing data racks are full and will not accomodate both existing and new data switches. Assumes free and clear access to all closet locations in a timely manner. Assumes no arial lift rental.	1	29,700	29,700
Connections/Components	Configuration: WLAN/LAN Configuration - Configure Aruba WLAN controller, Core and Edge LAN based on existing network configurations provided by 1000 Islands CSD. ClearPass & Airwave Configuration - Configure Aruba ClearPass and Airwave based on K-12 best practices.	1	14,400	14,400
Professional Services	Project Management	1	2,400	2,400

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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.

(No Response)

- 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	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

3. 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.

(No Response)

4. All New York State public school districts are required to complete and submit an 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 educational technology purchases 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 are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility’s electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.

(No Response)

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6. Describe how the proposed technology purchases will:
- > enhance differentiated instruction;
 - > expand student learning inside and outside the classroom;
 - > benefit students with disabilities and English language learners; and
 - > contribute to the reduction of other learning gaps that have been identified within the district.

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?")

(No Response)

7. Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.

(No Response)

8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

(No Response)

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

- 9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

(No Response)

- 9b. Enter the primary Institution phone number.

(No Response)

- 9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

(No Response)

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

- Yes
 No

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11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

By checking this box, you certify that the district has a sustainability plan as described above.

13. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for Classroom Learning Technology 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
Interactive Whiteboards	(No Response)
Computer Servers	(No Response)
Desktop Computers	(No Response)
Laptop Computers	(No Response)
Tablet Computers	(No Response)
Other Costs	(No Response)
Totals:	0

15. 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.

Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.

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NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.

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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)