

## Smart Schools Investment Plan - 2016-17 Version (Original) - SCSD1

## SSIP Overview

Page Last Modified: 03/14/2018

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

Jeffrey Lisanto

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

315-483-5211

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

jlisanto@soduscscsd.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

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.

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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.

Sodus\_CSD\_SSID\_Web\_doc.1\_3\_18.doc

- 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.

[https://www.soduscsd.org/site/handlers/filedownload.ashx?moduleinstanceid=8&dataid=4&FileName=Sodus\\_CSD\\_SSID\\_Web\\_doc.1\\_3\\_18.pdf](https://www.soduscsd.org/site/handlers/filedownload.ashx?moduleinstanceid=8&dataid=4&FileName=Sodus_CSD_SSID_Web_doc.1_3_18.pdf)

- 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.

1,422

- 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:

\$1,407,936

- 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	763,800
Connectivity Projects for Communities	0
Classroom Technology	262,752
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
<b>Totals:</b>	<b>1,026,552</b>

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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.

The Wayne Finger Lakes RIC provides Sodus CSD with a minimum capacity of 200 MB for internet connectivity. Based on the Federal Communications Commission’s minimum standard per 1,000 students, Sodus needs 126 MB, well below our actual speed of 200 MB now available.

- 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	1,100	110,000	110 Mb	200 Mb	250	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.

Our current wireless network is over 12 years old with multiple protocol standards and various models of unmanageable access points. Many locations within our District have weak or no wireless access as a result. We are planning to upgrade our wireless network to current manageable 802.11ac standard access points in every classroom and all other workable rooms district wide. This upgrade also includes pulling new cat6 cable to every wireless access point.

In order to accomplish this high speed wireless connectivity upgrade, the District needs to also upgrade to a virtual server environment network. The following are also included, new visualized servers, new PoE switches, new access points in every classroom, a new wireless network controller, a new tape library backup system, new SAN (storage area network) and to make it all work together, a new network core switch.

This newly upgraded wireless network will greatly enhance our ability to successfully move to Computer Based State Testing and one-on-one learning.

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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?")

With the District's goal for moving to a one-on-one instructional curriculum using wireless devices, including BYOD, a robust wireless network is imperative for meeting this goal. A goal for the district is to use integrated technology in classrooms to support individualized/ personalized learning needs, especially in the areas of literacy and math. This initiative requires a network that supports connectivity in every classroom.

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 currently have over 400 wireless devices on our wireless network. We plan on increasing that number by at least 1,000 over the next few years while moving to CBT and one-on-one curriculum. By upgrading our wireless network, we will be in a much better place for accomplishing these goals by being able to handle the increased wireless load.

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
65-12-01-06-7-999-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
Gian Paul Piane	25315

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	367,753
Outside Plant Costs	

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	Sub-Allocation
	0
School Internal Connections and Components	396,047
Professional Services	0
Testing	0
Other Upfront Costs	0
Other Costs	0
<b>Totals:</b>	<b>763,800</b>

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](mailto: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	HP X130 10G SFP+ LC LR Transceiver	58	1,731	100,398
Network/Access Costs	HPE 5130 48G PoE+ 4SFP+ 1-slot HI Switch	55	3,004	165,220
Connections/Components	HP X362 1110W AC PoE Power Supply \$	110	520	57,200
Network/Access Costs	HPE 5130 24G PoE+ 4SFP+ 1-slot HI Switch	2	1,946	3,892
Connections/Components	HP X362 720W AC PoE Power Supply	2	447	894
Connections/Components	APC 120 V 10 Outlet 12' Cord Power Distribution Unit	13	97	1,261
Network/Access Costs	APC Smart-UPS 1500VA LCD RM 2U UPS	12	726	8,712
Connections/Components	Install 57 Switches	57	50	2,850
Connections/Components	Installation - 57 Drops - Elementary School	1	24,422	24,422
Connections/Components	Installation - 105 Drops - High School	1	36,634	36,634
Connections/Components	Installation - 61 Drops Intermediate School	1	28,917	28,917
Connections/Components	23-4P UTP-CMP SOL BC CAT6 2413 FEP/LSPVC WHITE	55	275	15,125

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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 AP-315 Wireless Access Point, 802.11n/ac, 4x4:4 MUMIMO, dual radio, integrated antennas 2413 FEP/LSPVC WHITE	228	548	124,944
Network/Access Costs	Aruba AP0325 Dual Radio 802.11 n/ac 4x4 MU-MIMO AP, integrated antennas	10	768	7,680
Connections/Components	Aruba PSU-350W AC Power Supply	1	273	273
Network/Access Costs	OBERON COMPACT NON-METALLIC ENCLOSURE FOR WIRELESS ACCESS POINTS	10	83	830
Connections/Components	1-PORT MOD JACK 110 8W8P UTP T568A/B CAT6 HXJSERIES OFFICE WHITE 25/PK	20	140	2,800
Connections/Components	2-PORT SURFACE MT BOX UNLOADED ACCEPTS UTPJACKS/AV KEY CONNS OFFICE WHITE	250	3	750
Connections/Components	24 PORT PATCH PANEL UNLOADED USE W/XCELERATORJACKS & SNAP FIT CONNS BLACK 1U	12	59	708
Connections/Components	CABLE HOOK 3/4	500	3	1,500
Connections/Components	VELCRO(R) BRAND FASTENER TIE 3/4 BLACK 25YD/ROLLROHS	2	22	44
Connections/Components	CABLE TIE 7.5	1	37	37
Connections/Components	CAT 6 PATCH CORD, BLUE,5FT	225	2	450
Network/Access Costs	HP DL380 Gen9 8SFF CTO Server	2	1,363	2,726
Connections/Components	HP DL380 Gen9 E5-2650v3 FIO Kit	2	1,167	2,334
Connections/Components	HP DL380 Gen9 E5-2650v3 Kit	2	1,138	2,276
Connections/Components	HP 16GB 2Rx4 PC4-2133P-R Kit	32	373	11,936
Connections/Components	HP DL380 Gen9 Universal Media Bay Kit	2	89	178
Connections/Components	HPE RI Solid State Drive - 150 GB - hot-swap - 2.5 SFF SATA	4	199	796
Connections/Components	HP 9.5mm SATA DVD-RW Jb Gen9 Kit	2	90	180
Connections/Components	HPQ FLEXFABRIC 10GB 2P 556FLR-SFP+ ADPTR	2	436	872
Connections/Components	HP 1.83m 10A C13-UL US Pwr Cord	4	7	28

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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	HPQ 2U SMALL FORM FACTOR EASY INSTALL RAIL KIT	2	78	156
Connections/Components	HP 82E 8Gb Dual-port PCI-e FC HBA	4	1,160	4,640
Connections/Components	HP 500W FS Plat Ht Plg Pwr Supply Kit	4	208	832
Connections/Components	UNITY SYSPACK 6X600GB 10K SAS 25X2.5	1	1,801	1,801
Connections/Components	UNITY 2U 25X2.5 DRIVE DAE EMC RCK	1	1,119	1,119
Connections/Components	DOOR 40U RACK W/DOOR	1	619	619
Connections/Components	UNITY 200GB FAST CACHE 25X2.5 DRIVE	3	612	1,836
Connections/Components	UNITY 1.2TB 10K SAS 25X2.5 DRIVE	21	514	10,794
Connections/Components	CAB POWER CORD US TWISTLOCK	2	170	340
Connections/Components	UNITY 2X4 PORT 1GB ISCSI/ETH IO	1	621	621
Connections/Components	UNITY 300 2U DPE 25X2.5 DRIVE EMC RCK	1	4,521	4,521
Connections/Components	Install SAN (Storage Area Network) for file storage	1	1,928	1,928
Connections/Components	Install, configure, program VMWare ESX Host Servers to act as redundant hosts for the virtual environment	2	2,178	4,356
Connections/Components	Tape Library install	1	500	500
Connections/Components	Backup device install	1	500	500
Connections/Components	Install 2nd cat6 drop per classroom	1	24,422	24,422
Connections/Components	Install 238 Access Points	238	50	11,900
Network/Access Costs	HPE 5940 48p 10G/6p 100G 2F 2PS Bundle	2	11,507	23,014
Connections/Components	HPE X240 100G QSFP28 1m DAC C-Cable	2	260	520
Connections/Components	HP X240 10G SFP+ to SFP+ 3m Direct Attach	40	140	5,600
Connections/Components	HPE 3Y FC 4H Exch 5940 48p 100G 2FPS SVC	2	4,790	9,580
Connections/Components	DUPLEX MM LC/LC 3M cable	8	10	80
Connections/Components	1FT BLUE CAT 6 PATCH CABLE NO BOOTS	2,160	1	2,160

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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	1FT WHITE CAT 6 PATCH CABLE NO BOOTS	250	1	250
Connections/Components	1FT RED CAT 6 PATCH CABLE NO BOOTS	200	1	200
Connections/Components	1FT ORANGE CAT 6 PATCH CABLE NO BOOTS	10	1	10
Connections/Components	1FT BLACK CAT 6 PATCH CABLE NO BOOTS	10	1	10
Connections/Components	1FT GREEN CAT 6 PATCH CABLE NO BOOTS	25	1	25
Connections/Components	CAT6 25FT PINK NON BOOTED	6	4	24
Connections/Components	CAT6 25FT BLUE NON BOOTED	6	4	24
Connections/Components	THREADED BRIDLE RING 2	500	2	1,000
Connections/Components	BEAM CLAMP FITS 1/2	5	89	445
Connections/Components	SSP SERIES INTUMESCENT PUTTY 36 CUBIC IN TUBE .6	4	30	120
Connections/Components	Data Tapes HP 20 x LTO Ultrium 6 - 2.5 TB / 6.25 TB - bar code labeled	2	599	1,198
Connections/Components	HP Ultrium Universal Cleaning Cartridge	1	63	63
Connections/Components	HP Serial Attached SCSI (SAS) external cable	1	47	47
Connections/Components	HP StorageWorks MSL2024 Tape library HP StorageWorks MSL2024 Tape library	1	2,312	2,312
Connections/Components	HP Ultrium 6250 Drive Upgrade Kit	1	3,910	3,910
Connections/Components	HP Smart Array P421/1GB with FBWC	1	600	600
Connections/Components	HP Mini SAS 1 Meter Cable	1	62	62
Network/Access Costs	EX-23TB-DB ExaGrid 10000E backup	1	20,256	20,256
Connections/Components	DUPLEX SM LC/SC 3M cable	48	11	528
Connections/Components	DUPLEX SM LC/LC 3M cable	30	12	360
Connections/Components	Hewlett Packard Enterprise - HP Ethernet 10Gb 2P 557SFP+ adptr.	2	535	1,070
Connections/Components	HPE SFP (mini-GBIC) transceiver module - 8Gb Fibre Channel	8	136	1,088
Network/Access Costs	KVM Switch HPE Server Console G2 Switch with Virtual Media and CAC	1	1,178	1,178



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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	HPE LCD8500 KVM console - USB - 18.51	1	1,038	1,038
Connections/Components	HPE USB 2.0 Virtual Media CAC Interface Adapter Video/USB	8	102	816
Connections/Components	PC-AC-NA North American AC Power Cord	2	3	6
Connections/Components	HP FIO Enable B140i Setting	2	1	2
Network/Access Costs	Aruba 7210 (US) 4p 10GBase-X (SFP+) 2p Dual Pers (10/100/1000BASE-T or SFP) Controller	1	3,399	3,399
Connections/Components	Aruba PSU-350-AC 7200 Series S3500-24T S3500-48T and S3500-24F 350W AC Power Supply	1	179	179
Connections/Components	PC-AC-NA North America AC Power Cord	2	5	10
Network/Access Costs	Aruba LIC-AP Controller per AP Capacity License E-LTU	256	19	4,864

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Community Connectivity (Broadband and Wireless)

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

(No Response)

2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.

(No Response)

3. Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).

I certify that we will comply with all the necessary local building codes and regulations.

4. Please describe the physical location of the proposed investment.

(No Response)

5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.

Project Partners	Federal ID #
(No Response)	(No Response)

6. If you are submitting an allocation for **Community 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	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

7. 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](mailto:smartschools@nysed.gov).

Add rows under each sub-category for additional items, as needed.

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Community Connectivity (Broadband and Wireless)

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

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Classroom Learning Technology

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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.

Sodus CSD has 1,100 students which equates to 110 MB internet connectivity needed. Our current connectivity speed is 200 MB which meets the Federal Communication Commission’s standard. We plan on increasing to 250-300 MB within the next 12 months far exceeding the recommended standard.

- 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	1,100	110,000	110	200	250	currently met

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.

As part of our wireless upgrade, a full site survey was completed by our local RIC. As a result, all network equipment was planned for scalability. This includes: 802.11ac access points in every classroom and public space, endpoint management will be utilized, new POE switches in each wiring closet, VLAN configurations, new Cat6 cabling to every access point and guest wireless access. Our District currently has in place a 10 GB fiber backbone connecting all buildings. Our wireless network will be monitored by our RIC making speed adjustments as needed.

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.

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## Classroom Learning Technology

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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.**

We intend to purchase the following instructional equipment: classroom interactive boards, classroom sets of Chromebooks with charging carts and classroom sets of iPads. All of which will fit nicely with the District's move to a one-on-one curriculum, Google Apps for Education and increases for student accessibility via the use of these technologies. All of these classroom devices will be purchased with the latest Wi-Fi protocol standard at the time of purchase.

We currently have a 10gig fiber backbone District wide to support these devices.

A new WiFi classroom infrastructure is also planned in the Smart Schools connectivity section of the project.

Our current data center and classrooms have adequate electrical, HVAC, closet space and racks.

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?")**

The Sodus CSD has continued to move towards to use of technology as tools and resources to change our teaching and learning environments across the District. The District believes that technology can be a powerful vehicle for actively engaging all students in learning, and that active engagement is predominantly important for students who are struggling. By using technology as tools and resources, teachers are able to personalize learning, differentiating both the content and the instructional methods depending on the needs of students. Teachers can extend learning beyond the hours of the day and the confines of the classroom. They can also create authentic learning experiences and connect students to resources that will greatly enhance their learning. These resources can include content, study tools, collaborative tools and tools for assessment. Access to these resources benefits all students over every curriculum. Technology is a wonderful tool for students with disabilities, allowing them to participate and interact and work independently using a wide range of assistive technologies. These assistive technologies allow disabled students to learn via new multimedia applications such as on the iPad or Chromebook. The District's Special Education Department works hard to insure that assistive technologies are available for all students who require their use, and collaborates with the IT department to make sure that the technology requirements of each student's IEP are met. The District continues to focus its technology implementation in areas where significant learning gaps are identified. Additionally, the district's ELL population will benefit from the use of this technology through daily access to programs that support and accelerate English Language Learning (i.e. Imagine Learning). Research strongly supports the use of technology to support ELL students in their English language acquisition due to the differentiation and personalized learning that technology provides ( Erben, Ban, Castaneda, 2008)

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.**

Many Sodus CSD teachers take advantage of Google Classroom which makes sharing and collaborating with students easy. Staff development using Chromebooks and Google Classroom is an on-going option for teachers at Sodus. Parents can access assignments and grades directly through our student management system along with the use of direct email to each teacher. Google Apps for Education makes it much easier for students to access their work at home on any device. This give parents an opportunity to see exactly what their child is working on and assist if needed.

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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."**

Professional development promotes technological literacy and facilitates the effective use of all appropriate technology.

Sodus Central School District will continue with the following practices:

- Continue to provide professional development addressing a wide variety of software and hardware, i.e. Chromebook management, Google Apps for Education, Ipad instruction, SMARTboard training, eDoctrina, School Tool.
- Offer a series of technology-based professional development opportunities that will scaffold staff understanding throughout the course of the school year, i.e. four sessions on Google Apps for Education that begin with basic implementation and ends with a deeper understanding of the advanced features provided by GAFE.

Target professional development to meet the needs of specific departments or grade levels.

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.

SUNY Geneseo, SUNY Oswego, SUNY Brockport

- 9b. Enter the primary Institution phone number.

585-245-5211, 315-312-2500, 585-395-2211

- 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.

Anjoo Sikka, Ella Cline; Marcia Burrell; Thomas Hernandez

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

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

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	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	16,038
Computer Servers	0
Desktop Computers	0
Laptop Computers	167,650
Tablet Computers	63,920
Other Costs	15,144
<b>Totals:</b>	<b>262,752</b>

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](mailto: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.

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.

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Classroom Learning Technology

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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
Interactive Whiteboards	Interactive SMART Board	6	2,673	16,038
Laptop Computers	HP Chromebook x360 11 G1 EE	479	350	167,650
Tablet Computers	iPad Pro 10.5 inch	80	799	63,920
Other Costs	Chromebook Charging carts (30 units)	12	1,262	15,144



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Pre-Kindergarten Classrooms

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1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

(No Response)

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

(No Response)

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

(No Response)

4. 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
(No Response)

5. If you have made an allocation for **Pre-Kindergarten Classrooms**, 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
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

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](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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Pre-Kindergarten Classrooms

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

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Replace Transportable Classrooms

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1. Describe the district’s plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No 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
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. If you have made an allocation for **Replace Transportable Classrooms**, 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
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

5. 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](mailto: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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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High-Tech Security Features

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- Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.

(No Response)

- 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
(No Response)

- Was your project deemed eligible for streamlined Review?

- Yes  
 No

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

Name	License Number
(No Response)	(No Response)

- 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	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

- 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](mailto: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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

