Smart Schools Investment Plan - 2016-17 Version (Original) - DP SSBA School Connectivity Phase II

SSIP Overview

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

   Eva J. Demyen

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

   631-274-4010

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

   demyen.e@deerparkschools.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.**

revised_smartschools.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.**

deerparkschools.org

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.**

5,209

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:**

$2,636,151

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	868,454
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	**868,454**

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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 district currently meets the FCC minimum speed standard of 100 Mbps per 1,000 students. We have already upgraded to 500 Mbps per 1,000 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	3,992	399,200	399	500	500	currently meet requirement

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

This project includes a plan to provide a comprehensive wireless solution to support a 1 to 1 device-learning environment. The backbone of such a large project is the network, ISP and Data Center uptime. Our project looks to provide the foundation for this growth where all students have devices and can use them freely within the district's buildings.

The major items, which we have addressed with this upgrade, are as follows:

- Wireless issues or the inability of a large number of users to connect to the network in any given area.
- We have proposed to put a Wireless Access Point ("AP") in each classroom and multiple AP's in common areas.
- We are proposing a higher level AP than models currently in use at the district. This AP has the "capacity" to provide 3 times the wireless bandwidth throughput of your current APs.

A full Network upgrades to address overall performance issues at the base Network layer.

- The current network design is a mixture of different manufacturers, protocols, and aged equipment. This makes any uninformed changes, upgrades or improvements complex, if not impossible.
- We are presenting a full replacement of this network with a Cisco Networking solution. We have implemented Cisco in the District over the last few years at key sites and will continue with that design by protecting your existing investment (those products will be reused). Currently, there are a number of aged Cisco networking devices (over 12 years) in production at sites along with "other" manufacturers which we are proposing to replace in full.
- Routing and design services are also included in the proposal. We have designed the needed routing to allow traffic to route from the MDF of each building.
- Wiring, cabling and access points (AP) services include:
- Remove approximately 186 AP's that are currently in production
- Deploy 433 AP's (both those removed and new AP's be purchased)Include cages, wall hangs, patch cables and brackets were needed.
- APC battery upgrades and installations have been included in this plan. As we increase the switches to provide PoE (Power of Ethernet) which is required for the AP's, the power consumption needs have grown for the district.

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 Deer Park School District Smart Schools Investment Plan goals align with the District's Technology Plan that includes:

- Embedding technology into the delivery of instruction and continuing to provide equitable access to technology tools to prepare all learners to be college and career ready.
- Continuing to provide technical support, infrastructure upgrades, and network maintenance for all users of the network.
- Continuing the District's Universal Design initiative to empower all students, teachers, and administrators with equity of access to technology.
- Continuing to develop and integrate K-12 students' technical competencies and learning strategies that seamlessly integrate International Society for Technology in Education (ISTE) Technology Strategies, National Common Core Standards for K-12 and College and Career Readiness.
- Maximizing college and career readiness skills through multimedia tools and online learning environments.
- Systemically support on-going technology and assistive technology training and development for teachers, staff, administrators, and parents to encourage consistency, collaboration, and innovation throughout the District to support teaching and learning.
- Continuing to implement ISTE Administrator and Teacher Technology Standards practices to ensure that curriculum, instructional strategies, and the learning environments integrate appropriate technologies.

Specifically, the District's Smart Schools Bond Act allocation will focus on:

- Expanding Deer Park School District network Infrastructure to upgrade connectivity and speeds (Bandwidth) between Deer Park School District schools out to the Internet.
- Expand current Wi-Fi infrastructure for Wi-Fi access points for all classrooms in grades PK-12.

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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 currently has the mandated internet speed of 500 MB and has cables for Wireless Access Points (WAPs) in all instructional and non-instructional areas in the school district. The SSB plan will upgrade the coverage of WAPs and ensure the needs of all users will be met.

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
58-01-07-03-7-999-BA2

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

   Was your project deemed eligible for streamlined review?

   Yes

   7a. **Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.**

   ☑ I certify that I have reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
John A. Grillo	27360

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	540,295
Outside Plant Costs	(No Response)
School Internal Connections and Components	328,159
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	**868,454**

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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	Cisco Network and Access Points Installation/Upgrade	1	108,650	108,650
Connections/Components	JQA - 350 W AC Config Power Supply	1	263	263
Connections/Components	JQA - 10GBASE LR SFP Module	2	1,080	2,160
Connections/Components	JQA - 10GBASE Active Optical SFP+Cable 3M	2	114	228
Network/Access Costs	JQA - Catalyst 2960-X 48 GigE 2x10G SFP+LAN Base	2	2,500	5,000
Connections/Components	JQA- Catalyst 2960-X FlexStack Plus Stacking Module	4	694	2,776
Connections/Components	JQA - Cisco FlexStack 1m stacking cable	4	54	216
Network/Access Costs	JQA - Catalyst 2960 -X GigE PoE 740W 2x10G SFP+LAN base	2	3,456	6,911
Network/Access Costs	JQA - Cisco Catalyst 3850 48 Port Data IP Services	2	9,250	18,500
Connections/Components	JQA - IM Type 1 Stacking Cable	2	107	214
Connections/Components	JQA - Catalyst 3750X and 3850 Stack Powre Cable 150 CM - Upgrade	2	54	107
Connections/Components	JQA - Cisco Catalyst 3850 4x 10GE Network Module	2	2,050	4,100
Network/Access Costs	JQA - 802 11ac CAP w/CleanAir; 3x4:3SS; Int Ant; A Reg Domain	21	526	11,046
Network/Access Costs	JQA - 802.11ac CAP w/CleanAir; 3x4:3SS;Ext Ant; A Reg Domain	6	575	3,450
Network/Access Costs	JQA - 2.4 GHz 2dBi/5 GHz 4 dBi Dipole Ant, Gray, RP-TNC	24	21	503
Connections/Components	MM - 350W AC Config Power Supply	1	263	263
Connections/Components	MM - Cisco Catalyst 3850 4 x 10GE Network Module	2	2,050	4,100
Connections/Components	MM - 10GBASE-LR SFP Module	2	1,080	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	MM - 10GBASE Active Optical SFP+ Cable 3M	2	114	228
Connections/Components	MM - 10GBASE -SR SFP Module	4	368	1,472
Network/Access Costs	MM Catalyst 2960-X 48 GigE 2x10G SFP + LAN Base	2	2,500	5,000
Connections/Components	MM - Catalyst 2960-X FlexStack Plus Stacking Module	7	694	4,858
Connections/Components	MM - Cisco FlexStack 1m stacking cable	7	54	375
Network/Access Costs	MM - Catalyst 2960-X GigE PoE 740W 2x10G SFP+ LAN Base	5	3,456	17,278
Network/Access Costs	MM - Cisco Catalyst 3850 48 Port Data IP Services	2	9,250	18,500
Connections/Components	MM - 1M Type 1 Stacking Cable	2	107	214
Connections/Components	MM - Catalyst 3750X and 3850 Stack Power Cable 150 CM	2	54	107
Network/Access Costs	MM - 802.11ac CAP w/CleanAir; 3x4:3SS; Int Ant; AReg Domain	24	526	12,624
Network/Access Costs	MM - 802.11ac CAP w/CleanAir; 3x4:3SS; Ext Ant; A Reg Domain	4	575	2,300
Network/Access Costs	MM - 2.4 GHz 2 dBi/5 GHz 4 dBi Dipole Ant, Gray, RP-TNC	16	21	335
Connections/Components	RF - 350W AC Config 1 Power Supply	1	263	263
Connections/Components	RF- Cisco Catalyst 3850 4x10GE Network Module	3	2,050	6,150
Connections/Components	RF- 10GBASE-LR SFP Module	2	1,080	2,160
Connections/Components	RF - 10GBASE Active Optical SFP + Cable 3M	2	114	228
Connections/Components	RF - 10GBASE SR SFP Module	16	368	5,888
Network/Access Costs	RF- Catalyst 2960-X 48 GigE 2x10G SFP+ LAN Base	6	2,500	15,000
Connections/Components	RF - Catalyst 2960-X FlexStack Plus Stacking Module	18	694	12,493
Connections/Components	RF - Cisco FlexStack 1m stacking cable	18	54	963
Network/Access Costs	RF - Catalyst 2960-X 48GigE PoE 740W 2x10G SFP+ LAN Base	12	3,456	41,466
Network/Access Costs	RF - Cisco Catalyst 3850 48 Port Data	3	9,250	27,750

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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
	IP Services			
Connections/Components	RF - 1M Type 1 Stacking Cable	3	107	321
Connections/Components	RF - Catalyst 3750X and 3850 Stack Power Cable 150CM	3	54	161
Network/Access Costs	RF - 802.11ac CAP w/CleanAir; 3x4:3SS; Int Ant; A Reg Domain	73	526	38,398
Network/Access Costs	RF- 802.11ac CAP w/CleanAir;3x4:3SS; Ext Ant; A Reg Domain	8	575	4,600
Network/Access Costs	RF - 2.4 GHz dBi/5 GHz 4dBi Dipole Ant, Gray RP-TNC	32	21	670
Connections/Components	JFK - 350W AC Config 1 Power Supply	1	263	263
Connections/Components	JFK - Cisco Catalyst 3850 4x10GE Network Module	2	2,050	4,100
Connections/Components	JFK - 10 GBASE-LR SFP Module	2	1,080	2,160
Connections/Components	JFK - 10GBASE Active Optical SFP+ Cable 3M	2	114	228
Connections/Components	JFK - 10GBASE-SR SFP Module	10	368	3,680
Network/Access Costs	JFK - Catalyst 2960-X 48 GigE 2x 10G SFP+LAN Base	6	2,500	15,000
Connections/Components	JFK - Catalyst 2960-X FlexStack Plus Stacking Module	15	694	10,411
Connections/Components	JFK - Cisco FlexStack 1m stacking cable	15	54	803
Network/Access Costs	JFK - Catalyst 2960-X 48 GigE PoE 740W 2x 10G SFP+ LAN Base	9	3,456	31,100
Connections/Components	JFK - 1000BASE-SX SFP transceiver module MMF 850nm DOM	1	288	288
Network/Access Costs	JFK - Catalyst 2960-X24 GigE PoE 370W 2x10G SFP-LAN Base	1	2,683	2,683
Network/Access Costs	JFK - Cisco Catalyst 3850 48 Port Data IP Services	2	9,250	18,500
Connections/Components	JFK - 1M Type 1 Stacking Cable	2	107	214
Connections/Components	JFK - Catalyst 3750X and 3850 Stack Power Cable 150 CM	2	54	107
Network/Access Costs	JFK - 802.11ac CAP w/CleanAir; 3x4:3SS;Int Ant; A reg Domain	57	526	29,982

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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	802.11ac CAP w/ CleanAir; 3x4:3SS; Ext Ant; A Reg Domain	6	575	3,450
Network/Access Costs	JFK - 2.4 GHz 2dBi/5 GHz 4dBi Dipole Ant, Gray, RP-TNC	24	21	503
Connections/Components	Mem - 10 GBASE-LR SFP Module	10	1,080	10,800
Connections/Components	Mem - 10GBASE Active Optical SFP+ Cable 3M	2	114	228
Network/Access Costs	Mem - Catalyst 2960-X 48 GigE 2x10G SFP + LAN Base	3	2,500	7,500
Connections/Components	Mem - Catalyst 2960-X Flexstack Plus Stacking Module	5	694	3,470
Connections/Components	Mem - Cisco FlexStack 1 m stacking cable	5	54	268
Network/Access Costs	Mem - Catalyst 2960-X 48 Gig E PoE 740W 2x10G SFP+LAN Base	2	3,456	6,911
Connections/Components	Mem - 10 GBASE Active Optical SFP+ Cable 1m	2	118	236
Network/Access Costs	Mem - Catalyst 4500-X 16 Port 10G IP Base Front to Back NoP/S	1	9,000	9,000
Connections/Components	Mem - Catalyst 4500X 750X AC Front to back cooling supply	1	1,400	1,400
Connections/Components	Mem - Catalyst 4500X 750W AC front to back cooling 2nd Pwr Supply	1	1,400	1,400
Network/Access Costs	Mem - 802.11ac CAP w CleanAir; 3x4:3SS; Int Ant; A Reg Domain	18	526	9,462
Connections/Components	HS - 10GBASE-LR SFP Module	6	1,080	6,480
Connections/Components	HS - 10GBASE-SR SFP Module	24	368	8,832
Network/Access Costs	HS - Catalyst 2960-X 48 GigE 2X10G SFP+ LAN Base	10	2,500	25,000
Connections/Components	HS - Catalyst 2960-X Flexstack Plus Stacking Module	20	694	13,881
Connections/Components	HS - Cisco FlexStack 1m Stacking Cable	20	54	1,070
Network/Access Costs	HS - Catalyst 2960-X 48 GigE PoE 740W 2x 10G SFP+LAN Base	11	3,456	38,010
Network/Access Costs	HS - Catalyst 2960-X48 GigE PoE 370W 2x10G SFP+ Lan Base	1	2,683	2,683
Network/Access Costs	HS - Catalyst 4500E 10 Slot chassis	1	6,500	6,500

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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
	for 48 Gbps/slot fan no ps			
Connections/Components	HS - Catalyst 4500 E-Series Supervisor 8-E	1	10,200	10,200
Connections/Components	HS - Catalyst 4500 E-Series 48-Port 10/100/1000 Non-Blocking	2	4,500	9,000
Connections/Components	HS - Catalyst 4500-E Series 12 Port 10GbE (SFP+)	4	13,800	55,200
Connections/Components	HS - Catalyst 4500 6000W AC dual input Power Supply (Data+PoE)	2	2,050	4,100
Network/Access Costs	HS - 802.11ac CAP w/CleanAir; 3x4:3SS;IntAnt; A reg Domain	37	526	19,462
Connections/Components	HS - (Cables.com) Fiber Optic Cable LC/LC Single Mode Duplex - 2 Meter (9/125 Type)	20	36	728
Connections/Components	HS = 10 ft Cat6 Snagless Unshielded (UTP) Ethernet Network Patch Cable - Green	30	4	134
Connections/Components	HS - OM3 3M Duplex Multimode Fiber Optic Cable	54	15	810
Connections/Components	HS - 7ft Cat6 Snagless Unshielded (UTP) Ethernex Network Patch Cable - Green	269	4	952
Connections/Components	HS - 3ft Cat6 Snagless Unshielded (UTP) Ethernet Network Patch Cable - Green	269	3	734
Network/Access Costs	Cisco 5520 Wireless Controller w/rack mounting kit	1	10,792	10,792
Connections/Components	770WAC Hot-plug Power Supply for 552- Controller	1	388	388
Network/Access Costs	Cisco 5520 Wireless Controller 1 AP Adder License	500	108	53,960
Connections/Components	10GBASE -SR SFP Module	4	368	1,472
Connections/Components	1000BASE-T-SFP	2	213	426
Network/Access Costs	SMARTUPS 3000VA LINEINT RM 2U LCD 120V	2	1,148	2,296
Connections/Components	RM PDU BASIC 1U 15A 120V 10-5-15	25	83	2,065
Connections/Components	SMARTSLOT UPS NTWK MGMT CARD 2	25	237	5,937
Network/Access Costs	APC Smart-UPS x 1500 Rack/Tower	25	697	17,427

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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
	LCD UPS			
Connections/Components	10ft Cat6 Snagless Unshielded (UTP) Ethernet Network Patch Cable - Green	29	4	129
Connections/Components	Active Optical Cable assembly	20	165	3,297
Connections/Components	7ft Cat6 Snagless Unshielded (UTP) Ethernet Network Patch Cable - Green	14	4	50
Connections/Components	1 ft Whit Cat6 Patch Cables (booted)	500	2	1,100
Network/Access Costs	Cisco Catalyst 3560-CX 8 port Data IP Base	1	743	743

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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)
Totals:	**0**

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.**

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)

Classroom Learning Technology

Page Last Modified: 11/18/2016

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.

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.

Classroom Learning Technology

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

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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)
Totals:	**0**

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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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)

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)
Totals:	**0**

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.**
   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)

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.**

   (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. **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
(No Response)	(No Response)

5. If you have made an allocation for **High-Tech Security Features**, complete this table.

   Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	**0**

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.

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)