Smart Schools Investment Plan - Revised - Port Washington UFSD_ First Submission_#1

SSIP Overview

Institution ID
800000049106

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

Ryan Meloni

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

516-767-5455

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

rmeloni@portnet.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.

☑ Parents
☑ Teachers
☑ Students
☑ Community members

5. Did your district contain nonpublic schools in 2014-15?

☑ Yes
☐ Yes, but they have all since closed, moved out of district or are declining use of SSBA funds
☐ No

6. Certify that the following required steps have taken place by checking the boxes below:

☑ 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.

6a. 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.

Final Plan.pdf

6b. 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.portnet.org/site/handlers/filedownload.ashx?moduleinstanceid=17278&dataid=25240&FileName=Final%20Plan.pdf

7. 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.

6,500

8. 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.

9. 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)

10. Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.

(No Response)

11. Your district's Smart Schools Bond Act Allocation is:

$704,973

12. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,176	248	5,424.00	4.57

13. This table compares each category budget total, as entered in that category's page, to the total expenditures listed in the category's expenditure table. Any discrepancies between the two must be resolved before submission.

	Sub-Allocations	Expenditure Totals	Difference
School Connectivity	533,038.00	533,038.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	0.00	0.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	0.00	0.00	0.00
Nonpublic Loan	18,111.57	18,111.57	0.00
Totals:			

	Sub-Allocations	Expenditure Totals	Difference
	551,150	**551,150**	**0**

School Connectivity

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 Port Washington UFSD has a robust Internet connectivity that currently provides 3.100 Mbps to our 5,422 students PreK - 12. This Internet Connectivity is provided over three Internet Service Providers (Lightpath, Nassau BOCES BoTIE, and Verizon Fiber) over two diverse redundant routes.

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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	5,422	542.20	3100	3100	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.

1. Network Infrastructure

The district network infrastructure is the backbone of the computer network. With the advancements in Internet technology such as cloud services and streaming services coupled with the proliferation of devices, like smartphones and mobile devices, and automation and district wide management systems, the network infrastructure was never so important. The demands made on these humble devices that live in closets most will never visit is profound and their reliability and capacity is crucial.

The section of the scope of work looks at key aspects of the district's driving and developing needs for the next five years. The solutions outlined here articulate the intersection between price and capacity. For the Technology Department, this proposal strikes this delicate balance between these two, often opposing, choices.

1. The Wide Area Network

The Wide Area Network (WAN) is made up of two incredibly important pillars of the District's Network Infrastructure. These two District Server Rooms (DSR) act independently and in collaboration making them vital to the rigidity of the network and the uptime reliability the district has come to expect. The focus of this refresh is the replacement and upgrade of the core network switches that are relied upon for everything that a system performs or user requests.

1. The Local Area Network

The Local Area Network is defined here as the network supporting each physical building location. The local Area Network (LAN) is the infrastructure that support the data communication of all devices and systems within the building. They may include Wi-Fi access points, Building Management Systems, Security Camera and Door Access Systems, and the Telecommunication System. This LAN then, reaches out to the DSRs and WAN for long haul transport, Internet Access and/or district wide systems such as email, network storage or filtered Internet content. The focus of this network refresh is the headend LAN Network Switches in each of the Building locations' wire closet. The replacement and upgrade of the headend switches is part of a design to provide reliable, scalable, high speed access for the services necessary for today's school building demands and to support the anticipated growth for the next five years.

C. Network Security

The security of our network and its users is paramount. A solid network security system helps reduce the risk of data loss, theft and sabotage. Data security is a major issue for school district and municipalities today. Insuring that the district's network and data is secure is becoming more important every day and vital to business operations. Hackers are constantly looking for chinks in the defenses put up as protection. The Port Washington Technology Department will implement redundant firewalls to take bold and direct action to sure up our defenses and provide a high level of security to protect financial, personnel and student data from ever being exposed.

1. Wired Networking

The Wired Network is the authenticated network that supplies services to the desktop computers in classrooms, computer labs and offices. The Port Washington School District Technology Department continuously improve and remediate the physical network to provide reliable network services that support edge devices such as desktop computers, printers, wireless access points, and door access systems to name a few. The wired network could be viewed as the overall fabric that is made up of the Wide Area Network (WAN), Local Area Network (LAN) and connectivity to offices and instructional spaces.

1. Fiber Concentrators

The Port Washington School District invested in fiber as the wire media to many instructional spaces. The hardware needed to "light up" these individual fiber pairs that supplies networking to the spaces has aged out, providing only 10/100 port speeds. The focus of this network refresh is the replacement and upgrade of the building fiber concentrators to provide gigabit speeds to the desktop computers in the instructional spaces.

1. Fiber Upgrades

The Port Washington School District invested in fiber as the wired media for the long haul networking that makes up the star topology of the WAN, as well as interconnects between LAN wiring closets in several of the school buildings. As with most technology, advancements in fiber technology provides for longer distances and faster speeds. The focus of this network refresh is the replacement and upgrade of the aged and damaged fiber that support segments of the WAN and LAN topologies to improve speeds, throughput and reliability.

1. Wi-Fi Networking

The Port Washington School District Wi-Fi network has an extensive reach, providing wireless networking in almost all office and instructional spaces across the district. As with most technology, advancements in wireless technology are able to provide greater speeds, faster connections and more simultaneous connections.

1. Replace Wi-Fi AP in Elementary Schools

These benefits are required to keep pace with the greater number of mobile devices packed into each instructional space. In addition, the benefits of more advanced Wi-Fi technology will better support the Port Washington School District's Bring Your Own Device (BYOD) initiative.

Vi. Power Redundancy

Many valuable lessons were learned through Super Storm Sandy, other weather related outages, as well as heightened awareness of potential security concerns that modern times has reported. Communication systems such as telephone and email rely on the network to be up to work. Electrical power is the way these systems stay up and remain viable during weather or other events.

1. Battery Back ups

The Port Washington School District knows communication is an invaluable tool and a priority must place on the district's ability to endure through electrical outages. This SmartBOND proposal makes allowances to replace all the battery backups in each network technology wiring closet with a solution that will provide a longer product lifespan, power district network devices and systems for a greater duration while consuming less electricity to maintain their readiness.

4. Describe the linkage between the district's District Instructional Technology Plan and how the proposed projects will improve teaching and learning. (There should be a link between your response to this question and your responses to Question 1 in Section IV - NYSED Initiatives Alignment: "Explain how the district use of instructional technology will serve as a part of a comprehensive and sustained effort to support rigorous academic standards attainment and performance improvement for students."

Your answer should also align with your answers to the questions in Section II - Strategic Technology Planning and the associated Action Steps in Section III - Action Plan.)

In March of 2015, the Port Washington SD detailed a plan to address *"…digital connectivity and technology to improve teaching and learning by providing hardware, software, a high performance network (wired and wireless) that supports BYOD, high speed access to the Internet, high speed volume storage, cloud access to user files, instructional tools such as interactive whiteboards, document cameras, and 3D printers to enhance teaching and learning."*

With this plan as guidance, the Port Washington UFSD began on a path to update and modernize the district network infrastructure. At that time the infrastructure was between 9 and 12 years old supporting only 1200 desktop computers. This work provided the opportunity for the growth of the network and the services it could provide. For example the District network infrastructure now supports 2500 Chromebooks, 885 iPad, 1800 desktop computers, hundreds of wireless access points, the District phones, hundreds of network printers, hundreds of security cameras, gas and heat pumps, Building Management Systems controlling the temperature in classrooms as well as a District wide "BYOD" model that support approximately 3500 additional devices every day. This massive expansion is really just the tip of the iceberg as growth in software, automation, and district systems for business, personnel and school management have all expanded.

This trend is likely to continue as our world continues to leverage the power of information and computer technology. Now, as we approach our sixth year of the network providing such amazing growth opportunities, it is time to plan again for the next five years. It is so important that the momentum created is not lost or that the district does not lose ground as the district competes to provide our students and community with the best opportunities. To that end the District has taken great care to leverage the funding available to us. This winter the Technology Department has submitted an application to Smart Schools Bond for the network update needed to stay competitive and support the continuous growth of our network and the services it provides.

The District Technology Department worked from September through December to identify and review weaknesses in the district network infrastructure as well as critical areas where the network infrastructure needs to be upgraded to support this districts growth in hardware, cloud services, automation, and increasing new devices provided to support education such as STEM, Tech Ed and Creative Arts.

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 wireless in all meeting and instructional spaces. This plan calls for the upgrade of the existing wireless access points in all 5 elementary school buildings to support anticipated increase in the number of wireless devices in the coming years

6. Smart Schools plans with any expenditures in the School Connectivity category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.

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

Project Number
28-04-04-03-7-999-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
JAG Architect P.C.	27360

9. Public Expenditures – Loanable (Counts toward the nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
Network/Access Costs	1000BASE-SX, SFP OPTIC, MMF, LC CONN, OP	18	69.00	1,242.00
Network/Access Costs	770W AC power supply, Front-to-Back airflow	20	215.00	4,300.00
Network/Access Costs	40Gb LM4, 140m OM3 MMF, 1Km SMF, QSFP+, LC	2	855.00	1,710.00
Network/Access Costs	QSFP+ (4X10GBASE) breakout optical module, MPO connector, 10km SMF link length	6	921.00	5,526.00
Network/Access Costs	10 Gigabit Ethernet SFP+ passive cable assembly, 5m length.	4	72.00	288.00
Network/Access Costs	Cloud-ready, Dual band, Dual Radio 802.11ac/abgn, 2x2:2 MIMO Indoor Wave 2 access point with four internal antenna array and integrated BTLE/802.15.4 radio.	120	179.00	21,480.00
Network/Access Costs	Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow	14	107.00	1,498.00
Network/Access Costs	10GBASE-LR,SFP+ OPTIC (LC),10KM SMF	26	361.00	9,386.00

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
Network/Access Costs	CBL ASSY, LC TO SC DPLX, SM FBR, 3M	44	20.00	880.00
Network/Access Costs	1100 Watt AC PoE Power Supply module for Summit X460-G2 and X450-G2 series switches with Front-to-Back airflow	14	396.00	5,544.00
Network/Access Costs	X870 Fan Module, Front-to-Back airflow	60	91.00	5,460.00
Network/Access Costs	1000BASE-LX, SFP OPTIC, SMF, LC CONN, OP	2	145.00	290.00
Network/Access Costs	40GB, 40GBASE-LR4 SMF QSFP+	18	2,105.00	37,890.00
Network/Access Costs	Corning LANscape 1U Rackmount	14	144.00	2,016.00
Network/Access Costs	CBL ASSY, LC TO LC DPLX, 10GB MM FBR, 3M	42	20.00	840.00
Network/Access Costs	10GBASE-SR,SFP+ OPTIC (LC),300M MMF	34	130.00	4,420.00
Network/Access Costs	Virtual Interface Module for the rear of the X460-G2 providing 2 ports of Extreme's SummitStack	7	215.00	1,505.00
Internal Components and Connections	Corning CCH Panel LC Adapter Duplex	1	78.00	78.00
Network/Access Costs	UniCam LC 50 multimode connectors	216	10.00	2,160.00
Network/Access Costs	Barracuda CloudGen Firewall F-Series F600 model C20 w/ ATP, MAL, & Advanced Remote Access	1	26,528.00	26,528.00
Network/Access Costs	16 AP CAPACITY (C25, V2110)	7	1,327.00	9,289.00
Network/Access Costs	10Gb SFP+, 10GBASE-T RJ45, 30m with Cat6a	2	197.00	394.00
Network/Access Costs	X690 base unit with 48 1Gb/10GBASE-T ports, 2 10Gb/40Gb QSFP+ ports, 4 10Gb/25Gb/40Gb/50Gb/100Gb capable QSFP28 ports, 2 unpopulated power supplies slots, 6 unpopulated fan module slots, ExtremeXOS Advanced Edge License	10	8,685.00	86,850.00

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
Network/Access Costs	Summit X460-G2 48 100/1000BASE-X unpop'd SFP, 4 1000/10GBaseX unpop'd SFP+ ports, Rear VIM Slot (unpop'd), Rear Timing Slot (unpop'd), 2 unpop'd PSU slots, fan module slot (unpop'd), ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater	3	3,873.00	11,619.00
Network/Access Costs	CBL ASSY, LC TO LC DPLX, 62.5 MM FBR, 3M	6	20.00	120.00
Network/Access Costs	48V external battery pack (expandable) Smart UPS 48V Tower/RM 3U External Battery Pack	56	684.00	38,304.00
Network/Access Costs	Summit X450-G2 48 10/100/1000BASE-T POE+, 4 10GBASE-X unpopulated SFP+, two 21Gb stacking ports, 2 unpopulated power supply slots, fan module slot (unpopulated),	1	3,881.00	3,881.00
Network/Access Costs	MPO to 4 x LC breakout patch cable, Single-Mode 10m	8	250.00	2,000.00
Network/Access Costs	Summit X460-G2 48 10/100/1000BASE-T PoE+, 4 1000/10GBaseX unpop'd SFP+ ports, Rear VIM Slot (unpop'd), Rear Timing Slot (unpop'd), 2 unpop'd PSU slots, fan module slot (unpop'd), ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater	2	2,932.00	5,864.00
Network/Access Costs	NBD AHR Summit X450-G2-48p-10GE4-Base	5	215.00	1,075.00
Network/Access Costs	100G QSFP28 TO QSFP28 DAC 3M (Passive Copper)	12	215.00	2,580.00
Network/Access Costs	Summit X460-G2 48 10/100/1000BASE-T PoE+, 4 1GBASE-X unpop'd SFP, Rear VIM Slot (unpop'd), Rear Timing Slot (unpop'd), 2 unpop'd PSU slots, fan module slot (unpop'd), ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater	2	2,391.00	4,782.00

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
Network/Access Costs	40GB, QSFP COPPER CABLE 3M	2	179.00	358.00
Network/Access Costs	Tripp Lite Isobar Surge Protector Rackmount 15/20A 12 Outlet 15ft Cord 1URM	28	89.00	2,492.00
Internal Components and Connections	AFL LC Singlemode Fast Connect Fiber Connector	12	9.00	108.00
Internal Components and Connections	Corning LANscape 1U Rackmount	2	194.00	388.00
Network/Access Costs	40GB, QSFP COPPER CABLE 1M	2	206.00	412.00
Network/Access Costs	Power Cord, 15A, USA, NEMA 5-15, IEC320-C15	40	9.00	360.00
Internal Components and Connections	Corning CCH Panel LC Adapter Duplex	18	58.00	1,044.00
Network/Access Costs	10Gb SFP+, 10GBASE-T RJ45, 30m with Cat6a	2	543.00	1,086.00
Network/Access Costs	Summit X450-G2 48 10/100/1000BASE-T POE+, 4 1000BASE-X unpopulated SFP, two 21Gb stacking ports, 2 unpopulated power supply slots, fan module slot (unpopulated),	3	1,844.00	5,532.00
Network/Access Costs	40 Gigabit Ethernet QSFP+ SR4 optical module, MPO connector, 100m link length.	8	263.00	2,104.00
Network/Access Costs	X440-G2 24 fixed 100BASE-FX LC connectors, 4 1GBASE-X unpopulated SFP, 1 Fixed AC PSU, 1 RPS port, ExtremeXOS Edge, 0?C to 60?C operation	2	1,917.00	3,834.00
Internal Components and Connections	AFL SC Singlemode Fast Connect Fiber Connector	60	8.00	480.00
Network/Access Costs	2200VA 1800W UPS Smart Online Rackmount LCD 100V-120V USB 2URM	31	962.00	29,822.00
Internal Components and Connections	Corning CCH Panel SC Adapter Duplex	5	61.00	305.00
Network/Access Costs	40GB, QSFP COPPER CABLE 1M	15	127.00	1,905.00
Network/Access Costs	10 Gigabit Ethernet SFP+ passive cable assembly, 3m	6	60.00	360.00

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
	length.			
Network/Access Costs	Dual band Dual Radio 802.11ac/abgn, 4x4:4 MIMO Indoor wave2 access point with eight internal antenna array and active/active E/N data ports. Restricted Regulatory Domain: FCC (For following countries: US, Puerto Rico, Colombia)	18	433.00	7,794.00
Network/Access Costs	X440-G2 12 10/100/1000BASE-T POE+, 4 1GbE unpopulated SFP upgradable to 10GbE SFP+, 1 Fixed AC PSU, 1 RPS port, ExtremeXOS Edge license	4	795.00	3,180.00
Network/Access Costs	UPS Web Management Accessory Card SNMP Remote Monitoring HTML5	31	185.00	5,735.00
Network/Access Costs	Summit X450-G2 48 10/100/1000BASE-T POE+, 4 10GBASE-X unpopulated SFP+, two 21Gb stacking ports, 2 unpopulated power supply slots, fan module slot (unpopulated),	4	2,387.00	9,548.00
Network/Access Costs	MPO to 4xLC breakout patch cable, OM4 MMF, 5m	8	170.00	1,360.00
		1,078	**67,830.00**	**378,006**

10. Public Expenditures – Non-Loanable (Does not count toward nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	12 Strand OS2 SC-SC Fiber Run from MDF to DSR per foot	550	6.00	3,300.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Music IDF to MDF Closet per foot	350	4.00	1,400.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	3	846.00	2,538.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from m 126a IDF to MDF Closet per foot	325	4.00	1,300.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	30	846.00	25,380.00

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Music IDF to MDF Closet per foot	325	4.00	1,300.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	23	846.00	19,458.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Rm 8 IDF to MDF Closet per foot	650	4.00	2,600.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from 109b IDF to MDF Closet per foot	90	9.00	810.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Nurse IDF to MDF Closet	350	5.00	1,750.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	17	846.00	14,382.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	20	846.00	16,920.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Library IDF to MDF Closet	160	7.00	1,120.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from Tech IDF to MDF Closet per foot	440	4.00	1,760.00
Network/Access Costs	Environmental Sensor w/ Temp & Humidity Monitor & Digital Inputs	22	75.00	1,650.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	24	846.00	20,304.00
Connections/Components	12 Strand OM4 LC-LC Fiber Run from m 14a IDF to MDF Closet per foot	525	4.00	2,100.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	2	875.00	1,750.00
Professional Services	Professional Services EXTREME SERVICE UNITS, SINGLE	35	846.00	29,610.00
Connections/Components	12 Strand OS2 SC-SC Fiber Run from HS MDF to DSR per foot	800	6.00	4,800.00
Connections/Components	12 Strand OS2 LC-SC Fiber Run from Annex A22 IDF to A26 MDF per foot	80	10.00	800.00
		4,821	**6,939.00**	**155,032**

11. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,176	248	5,424.00	4.57

12. Total Public Budget - Loanable (Counts toward the nonpublic loan calculation)

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	375,603.00	17,996.43	393,599.43
School Internal Connections and Components	2,403.00	115.14	2,518.14
Other	0.00	0.00	0.00
Totals:	**378,006.00**	**18,112**	**396,118**

13. Total Public Budget – Non-Loanable (Does not count toward the nonpublic loan calculation)

	Sub-Allocation
Network/Access Costs	1,650.00
Outside Plant Costs	0.00
School Internal Connections and Components	23,040.00
Professional Services	130,342.00
Testing	0.00
Other Upfront Costs	0.00
Other Costs	0.00
Totals:	**155,032.00**

14. School Connectivity Totals

	Total Sub-Allocations
Total Loanable Items	396,117.57
Total Non-loanable Items	155,032.00
Totals:	**551,150**

Community Connectivity (Broadband and Wireless)

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. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	**0.00**	**0**

7. 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:	**0.00**

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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	(No Response)	0.00	(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)

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?")
In addition, describe how the district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language Learners/Multilingual Learners (ELL/MLL) students.

(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 one of the SUNY/CUNY teacher preparation programs listed on the document on the left side of the page 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. 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.

11. 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.

12. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	**0.00**	**0**

13. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,176	248	5,424.00	4.57

14. If you are submitting an allocation for Classroom Learning Technology complete this table.

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	(No Response)	0.00	0.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	(No Response)	0.00	0.00
Laptop Computers	(No Response)	0.00	0.00
Tablet Computers	(No Response)	0.00	0.00
Other Costs	(No Response)	0.00	0.00
Totals:	**0.00**	**0**	**0**

Pre-Kindergarten Classrooms

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 new 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. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	**0.00**	**0**

6. 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:	**0.00**

Replace Transportable Classrooms

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. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	**0.00**	**0**

5. 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:	**0.00**

High-Tech Security Features

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. Smart Schools plans with any expenditures in the High-Tech Security category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.
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. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	**0.00**	**0**

6. If you have made an allocation for High-Tech Security Features, complete this table.
Enter each Sub-category Public Allocation based on the the expenditures listed in Table #5.

	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:	**0.00**

1. Describe your plan to utilize SSBA funds to purchase devices and loan to the nonpublic schools within your district. Please specify what devices have been requested by the nonpublic schools. If the nonpublic schools have not finalized requests, the district should provide the date nonpublic schools will submit the request by.

The SmartBond provides amazing opportunities to non public school district in the Port Washington Community. This opportunity provides these schools with access to technology resources that supports the instruction in their schools. The Port Washington SD's work with non-public schools is an annual opportunity provided to the local non-public schools . The devices requested by the non public schools are as follows:
headphone hubs
Headphones
Chromebooks
and other Undetermined Nonpublic Expenditures

2. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.

☑ By checking this box, you certify that you have such a plan and associated regulations in place that have been made public.

2a. Please enter the date each year nonpublic schools must request loanable items from the school district. This date cannot be earlier than June 1 of the previous school year.

December 15

3. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,176	248	5,424.00	4.57

4. Nonpublic Loan Calculator

	Loanable School Connectivity	Loanable Classroom Technology	Additional Nonpublic Loan (Optional)	Estimated Per Pupil Amount - This Plan	Previously Approved Per Pupil Amount(s)	Cumulative Per Pupil Loan Amount	Final Per Pupil Loan Amount - This Plan	Final Total Loan Amount - This Plan
Required Nonpublic Loan	396,117.57	0.00		73.03	0.00	73.03	73.03	18,111.57
Final Adjusted Loan - (If additional loan funds)	396,117.57	0.00	(No Response)	73.03	0.00	73.03	73.03	18,111.57

5. Nonpublic Share

	Final Per Pupil Amount	Final Nonpublic Loan Amount
Pending and Previously Approved Plans	0.00	0.00
This Plan	73.03	18,111.57
Total	73.03	18,111.57

6. Distribution of Nonpublic Loan Amount by School

Nonpublic School Name	2018-19 K-12 Enrollment	Special Ed School? If Yes, not eligible
HAPPY MONTESSORI SCHOOL OF PORT WASH	13	No
ST PETER OF ALCANTARA SCHOOL	111	No

Nonpublic School Name	2018-19 K-12 Enrollment	Special Ed School? If Yes, not eligible
VINCENT SMITH SCHOOL	51	No

7. Please detail the type, quantity and per unit cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Items to be purchased	Quantity	Cost Per Item	Total Cost
Laptop Computers	Chromebook	51	307.00	15,657.00
Other Costs	Headphone hub	3	25.03	75.09
Other Costs	Headphones	15	17.86	267.90
Other Costs	Undetermined Nonpublic Expenditures	1	2,111.58	2,111.58
		70	**2,461.47**	**18,112**