Smart Schools Investment Plan - Revised - Application 1

SSIP Overview

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Institution ID

800000039658

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

Joseph N. Reilly

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

6076543858

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

Reilly.j.n@gmail.com

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

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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.

6B. **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.**

6C. **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.**

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.**

775

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.**

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

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

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

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment				

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			

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	Sub-Allocations	Expenditure Totals	Difference
	0.00	0.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	427,258.00	427,258.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	431,262.00	431,262.00	0.00
Nonpublic Loan	0.00	0.00	0.00
Totals:	**858,520**	**858,520**	**0**

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1. **In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:**

- sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or
- **is a planned use of a portion of Smart Schools Bond Act funds, or**
- **is under development through another funding source.**

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. Specifically codified in a service contract with a provider, and

2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

(No Response)

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

(No Response)

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."**

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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.)

(No Response)

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.

(No Response)

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
(No Response)

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

Was your project deemed eligible for streamlined review?

(No Response)

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

Name	License Number
(No Response)	(No Response)

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
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	**0.00**	**0**

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

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Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	**0.00**	**0**

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	724	0	724.00	0.00

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

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	(No Response)	0.00	0.00
School Internal Connections and Components	(No Response)	0.00	0.00
Other	(No Response)	0.00	0.00
Totals:	**0.00**	**0**	**0**

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

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

14. **School Connectivity Totals**

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	0.00
Totals:	**0**

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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.

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).

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

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 #

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
		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)

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	Sub-Allocation
Totals:	**0.00**

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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.

Berlin Central School subscribes to broadband services through the Capital Region BOCES. They currently exceed this standard.

1B. **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	724	72.40	1000	1000	currently met

3. **If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.**

Please describe how you have quantified this demand and how you plan to meet this demand.

Berlin Central has a technology liason on staff. He works regularly with the planning specialists from BOCES, the district architecture team, and the school adminstration from the district to compare the educational demands of the students with the network support resources. This team then makes recommendations for upgrades and expansion for network services in all locations of the district.

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.

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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.

Berlin Central wants students to participate in learning rather than be passive recipients.

The Interactive whiteboards are a good example. These devices will allow us to support student collaboration by displaying their work for peer review. They will also allow the instructor to integrate external video resources to reinforce their curriculum and support diverse ways of learning. These units will replace current devices and will not impact power or hvac.

The projectors designated for the large group instructional spaces will allow for more flexibility in our programs as well. At the Middle School/High School we are designating the High School Auditorium and the High School Art Room for these projectors. At the Elementary School we are designating the Cafetorium and the Elementary School Gym. Large groups of students will be able to be gathered in locations and participate in presentations. For example, a virtual field trip to NASA. The presenter might not be available for more than one time slot. Having the capacity to present in the large group instruction spaces could allow for all the seventh graders to attend the single event. The senior class might take a college visit or a multi-aged group of elementary students could interview a research scientist in Antarctica. We also regularly use these spaces for Community and Parent presentations. The number of community or parent participants wouldn't fit into a traditional classroom.

One of the goals of Berlin Central Schools has been to expand learning experiences and migrate away from passive learning. The Science Department has proposed the purchase of a number of Go Pro lab simulators. The students are allowed to pursue their curiosity. Students who experience these labs are able to recall more of their experience and make their own conclusions rather than sitting in a seat and hearing a lecture. These Go Pro labs reinforce hypothesis, measuring, data collection, and conclusion. These devices are low voltage and do not impact the electrical or hvac infrastructure.

For example, the Go Direct Motion Detector can be used in a variety of experiments:

- Students can study position, velocity, and acceleration of carts when mounted on a track.
- Using the computers the students can match position or velocity graphs created in Graphical Analysis app.
- Analyze the effects of air resistance on falling objects.
- Investigate simple harmonic motion by monitoring a mass on a spring.

The Go Direct Force and Acceleration sensor can be used in a variety of experiments:

- Investigate Newtons Third Law by connecting the hooks of two force sensors with a rubber band.
- Use the force sensor to pull an object across a surface to measure frictional forces.
- Attach the force sensor to the Centripetal Force Apparatus to measure centripetal force and acceleration simultaneously.

The Go Direct Respiration Device allows students to

- Observe how respiration rate changes after exercise or breath holding.
- Observe how respiration effort (the force exerted by the chest during respiration) changes after exercise or breath holding.
- Measure steps and step rate during a study with the built-in pedometer.

The Chromebooks are for the one-to-one program in the district. Google is platform neutral. Students can use these tools on a Windows

computer, or an Apple device.The students will be assigned a device. The days of learning being limited to 45 minutes is over.A student who needs extra time or skill reinforcement can accomplish this at their convenience using the Chromebook. If their Chromebook isn't convenient, they could use an iPad, a Windows computer, or even an Apple computer. As long as they have a convenient internet browser.

There are also Desktop computers in this request. Certain programs are limited to a desktop. For example, the Industrial Arts or Technology Education department offers classes in Autocad and Computer guided manufacturing. These programs work best on desktop computers in a lab environment. Additionally, the science lab programs won't operate on a Chromebook. These devices will allow students to learn profressional applications that they can use as the move forward.

The Apple laptops and the Apple desktop were requested by the instructors in the Art Department. The graphic programs they use for student instruction work best on these devices.

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.

Please note: If this plan has been identified as a Remote Learning Plan to be submitted and reviewed on an expedited basis, the district should explain how this plan will facilitate remote and hybrid learning, in lieu of responding to the question above.

Berlin Central School District's goal is to educate all students and the technology in this application helps to meet that goal.

The chromebooks for example, are issued directly to the students. A student who might require extended time or the support of a one-to-one aid can use the chromebooks at their convenience rather than only during a specific time or at a specific classroom or computer lab location. Multi Language or English Language Learners, traditionally have limited access to a translator. These students can use the built in translation component in Google Classroom. Any time, any where. Students can use the email component on their Google account to reach out to their instructors outside of limited classroom times.

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.**

The proposed purchases in this application don't directly impact communication with parents or stakeholders. The Berlin Central School District has addressed this in their School Management system. This system has a robust Parent Portal. All parents can review student attendance, student academic progress, and discipline events in real time. Parents should no longer be surprised when a six or ten week progress report comes home that reflects numerous days absent, multiple missed assignments, or failing grades.
Additionally, the use of interactive displays in the classrooms allows ever classroom to be a site for a virtual field trip to help teachers utilize regional partnerships and regional experience such as a planetarium or place like Cooperstown's Farmer's Museum without ever leaving the classroom.

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."

Please note: If this plan has been identified as a Remote Learning Plan to be submitted and reviewed on an expedited basis, the district should provide a statement confirming that the district has provided or will provide professional development on these devices to its staff, in lieu of responding to the question above.

Berlin Central Schools employes a Educational Technology Specialist to facilitate relevant and timely Professional Development for our instructors. The district s Professional Learning Team (Professional Development Committee), will ensure that there is time built into the teacher s workday to properly support all of our technology. This is especially important for new members of the staff who may need one on one time with the Technology Specialist to succeed in integrating this equipment.
Much of the technology included in this application is already supported, or existing, but is being updated or enhanced. Berlin makes a priority of providing turnkey training to our staff, and build internal capacity to support our technology and programs to ensure longevity of our district technology implementation. Existing staff will be provided time to familiarize themselves with the newer equipment and to help new staff in their department with the implementation of the equipment in their instructional areas.
As required, release time will be made available for teachers to visit other districts and regional resources to further expand their working knowledge and classroom integration of technology.

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.

9B. **Please enter the name of the SUNY or CUNY Institution that you contacted.**

SUNY Albany

9C. **Enter the primary Institution phone number.**

518-442-4988

9D. **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.

Dr. Virginia Goatley

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
Desktop Computers	Dell Optiplex Desktop Computers	95	941.00	89,395.00
Other Costs	Dell 24 Display	100	119.00	11,900.00
Interactive Whiteboards	Cleartouch 86 Interactive White Board	1	4,625.00	4,625.00
Interactive Whiteboards	Cleartouch 75 Interactive White Board	6	3,243.00	19,458.00
Interactive Whiteboards	OPS VPro PC Module for Clear Touch Display Board	1	1,531.00	1,531.00
Interactive Whiteboards	Convertible Mobile Stand for Cleartouch Display	1	2,342.00	2,342.00
Laptop Computers	Dell 3110 Chromebook Computers	125	402.00	50,250.00
Other Costs	Google Chromebook licenses Required	125	27.00	3,375.00
Laptop Computers	14 inch MacBook Pro	15	1,859.00	27,885.00
Desktop Computers	24 in iMac Computer	1	2,009.00	2,009.00
Tablet Computers	Apple iPad	20	564.00	11,280.00
Other Costs	4-Year AppleCare+ for Schools - MacBook	15	299.00	4,485.00

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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
Other Costs	4-Year AppleCare+ for Schools - iMac	1	169.00	169.00
Other Costs	4-Year AppleCare+ for Schools - iPad	20	109.00	2,180.00
Other Costs	Cases for iPads	20	51.00	1,020.00
Other Costs	MacBook Pro Cases	15	70.00	1,050.00
Other Costs	Dynamics Cart and Track System	6	728.00	4,368.00
Other Costs	Go Direct Force and Acceleration Sensor	6	119.00	714.00
Other Costs	Go Direct Motion Detector	6	124.00	744.00
Other Costs	Go Direct Current Probe	6	99.00	594.00
Other Costs	Go Direct Voltage Probe	6	89.00	534.00
Other Costs	Go Wireless Heart Rate	6	98.00	588.00
Other Costs	Go Direct Respiration Belt	6	119.00	714.00
Other Costs	Go Direct Centripetal Force System	6	444.00	2,664.00
Other Costs	Sony 9000 lm WUXGA Laser Projector /White	1	11,050.00	11,050.00
Other Costs	Sony 1.3-1.95 Optional Lens for FHZ120/90	1	475.00	475.00
Other Costs	Chief Projector Mount VCM29S INCL CUSTOM HB29S BLK	1	456.00	456.00
Other Costs	Chief OFFSET FIXED CEILING PLATE 1-1/2 NPT	1	57.00	57.00
Other Costs	Chief XXL PROJECTOR CAGE	1	1,199.00	1,199.00
Other Costs	Draper Screen PreXL1891610MWtVB110vL VC	1	3,941.00	3,941.00
Other Costs	DM Lite 4K60 4:4:4 Receiver for HDMI	1	329.00	329.00
Other Costs	Ektron Media ControllerMLC 55 RS	3	494.00	1,482.00
Other Costs	Audio Video system cables for projectors based on length	2	475.00	950.00
Other Costs	High School Auditorium Projection Control System Programming	1	875.00	875.00
Other Costs	Epson EB-PU2116W Laser Projector,	2	1,137.00	2,274.00

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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
	Interchangeable Lens, 16,000 Lumens, WUXGA with 4KE, White			
Other Costs	Epson ELPLM15 Lens - Mid Zoom #2 - Throw Ratios for WUXGA:	1	2,464.00	2,464.00
Other Costs	Crestron 4x1 4K60 4:4:4 HDR Presentation System	1	280.00	280.00
Other Costs	DM Lite 4K60 4:4:4 Receiver for HDMI	2	280.00	560.00
Other Costs	Wall Plate DigitalMedia 8G+ Transmitter 200	1	1,078.00	1,078.00
Other Costs	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver & Room Controller	1	763.00	763.00
Other Costs	Pinnacle KR402 II, Powered stereo system composed of 1 KS3I + 1 KS3PI + 4 KP102I	1	24,689.00	24,689.00
Other Costs	Splitter - Single, 1 in, 1 direct and 1 iso out,	2	120.00	240.00
Other Costs	12 analog inputs, 8 analog outputs, 8 channels configurable	1	2,542.00	2,542.00
Other Costs	Crestron Series T Control System	1	770.00	770.00
Other Costs	7 in. Wall Mount Touch Display and Projector Controller,, Black Smooth	1	1,595.00	1,595.00
Other Costs	Multisurface Mount Kit for TSW-770 and TSW-1070 Series, Angled, Black	1	45.00	45.00
Other Costs	SLIM PWR STRIP,8OUT,15A,W	1	120.00	120.00
Other Costs	CABLES-2 - Miscellaneous Cables Connectors and Hardware	1	2,375.00	2,375.00
Other Costs	Elementary Projector Systems Programming	1	1,750.00	1,750.00
Other Costs	PowerLite L630U Laser Projector with lens shift, WiFi, 6,200 Lumens, WUXGA,	1	2,699.00	2,699.00
Other Costs	Projector CEILING PLATE, 8	1	127.00	127.00
Other Costs	RPA ELITE, KEY A, INCL SLM298, BLK	1	250.00	250.00
Other Costs	Da-Lite Model C W/CSR 110 54 x 96 Screen	1	788.00	788.00

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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
Other Costs	18SP/25D RACK W/RD AND TO	1	634.00	634.00
Other Costs	CASTER BASE FOR Video Rackmount	1	213.00	213.00
Other Costs	DM Lite 4K60 4:4:4 Transmitter for HDMI	3	315.00	945.00
Other Costs	X Series Media Presentation	1	348.00	348.00
Other Costs	6.5 2 Way Surface Mount Media Presentation Speaker	2	116.00	232.00
Other Costs	CABLES-1 - Miscellaneous Cables Connectors and Hardware	1	475.00	475.00
Other Costs	Epson EB-PU1007W Laser Projector, Interchangeable Lens, 7,000 Lumens, WUXGA	1	5,550.00	5,550.00
Other Costs	Chief projector Ceiling mount RPA ELITE, KEY A, INCL SLM351, BLK	2	250.00	500.00
Other Costs	Chief WMA2S WALL MOUNT ACCY, 1 1/2 NPT LAT SHI	1	200.00	200.00
Other Costs	Chief PG-3A X-LARGE PROJECTOR GUARD RPA/RPMA	1	640.00	640.00
Other Costs	Dalite 159.5 screen	2	2,023.00	4,046.00
Other Costs	6 inch Wall Bracket Da-Lite	1	21.00	21.00
Other Costs	XPA U 3502, 2 Ch. Amp	1	1,125.00	1,125.00
Other Costs	UTS 100 Primary Shelf, Gray	2	68.00	136.00
Other Costs	Epson EB-PU2116W Laser Projector, Interchangeable Lens, 16,000 Lumens, WUXGA with 4KE, White	1	17,200.00	17,200.00
Other Costs	AC18/26 in white Speaker	1	900.00	900.00
Other Costs	Ektron MLC 55 RS	1	507.00	507.00
Other Costs	18OUT 15A,RacKMounT 2-STG-SRG	2	189.00	378.00
Other Costs	WALLPLATES-1 - Wallplate Package	1	69.00	69.00
Other Costs	CABLES-2 - Miscellaneous Cables Connectors	1	1,800.00	1,800.00
Other Costs	High School Art Room Projection System Programming	1	875.00	875.00

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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
Other Costs	Installation Setup of multiple projector systems	1	49,875.00	49,875.00
Other Costs	Epson EB-PU1007W Laser Projector, Interchangeable Lens, 7,000 Lumens, WUXGA with 4KE	1	5,550.00	5,550.00
Other Costs	ELPLM15 Lens - Mid Zoom #2 - Throw Ratios for WUXGA	1	1,137.00	1,137.00
Other Costs	WMA2S WALL MOUNT ACCY, 1 1/2 NPT LAT SHI	1	200.00	200.00
Other Costs	PG-3A X-LARGE PROJECTOR GUARD RPA/RPMA	1	640.00	640.00
Other Costs	FLOATING MOUNTING BRKTS L G WH	1	104.00	104.00
Other Costs	XPA U 3502, 2 Ch. Amp	1	1,125.00	1,125.00
Other Costs	AC18/26 in white Speaker	2	900.00	1,800.00
Other Costs	U-Bracket For Models AC18/xx, Blk	4	105.00	420.00
Other Costs	DM Lite 4K60 4:4:4 Receiver for HDMI	1	288.00	288.00
Other Costs	Chief 4SP,20 tilt swivel mount for projector	1	507.00	507.00
Other Costs	Projectors Customer Care First Year Required	4	1,750.00	7,000.00
Interactive Whiteboards	65 Interactive White Board	1	3,963.00	3,963.00
Other Costs	sound, video and control Cables for projectors, based on length	1	1,800.00	1,800.00
Other Costs	7 inch Table Top Touch Screen Projection system controller	1	1,771.00	1,771.00
Other Costs	Wallplate Package	1	75.00	75.00
Other Costs	5 port expansion device	1	1,040.00	1,040.00
Other Costs	Mounting Bracket for Tesira Connect TC-5	1	60.00	60.00
Other Costs	Touch Enabled control Pad with knob	1	470.00	470.00
Other Costs	12 analog inputs, 8 analog outputs, 8 channels configurable USB audio	1	2,542.00	2,542.00
		699	**190,823.00**	**427,258**

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	724	0	724.00	0.00

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	31,919.00	0.00	31,919.00
Computer Servers	0.00	0.00	0.00
Desktop Computers	91,404.00	0.00	91,404.00
Laptop Computers	78,135.00	0.00	78,135.00
Tablet Computers	11,280.00	0.00	11,280.00
Other Costs	214,520.00	0.00	214,520.00
Totals:	**427,258.00**	**0**	**427,258**

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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 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

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
		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	

Pre-Kindergarten Classrooms

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	Sub-Allocation
	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

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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. **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**

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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.

Berlin Central School has made providing a safe learning environment a top priority in the district. The district has developed a comprehensive set of priorities and this plan was written to address two of the components.

The first component is emergency communication to the classrooms. The existing analog phone system is unreliable and has almost no features. In an emergency the ability to contact specific groups of people is critical. Berlin is proposing that Smart School funds be used to install a Voice over internet protocol (Voip) telephone system that they can rely on during an emergency. This system will have features that weren't available 20 years ago. One feature is that the system can be used to make emergency calls to groups of phones or all of the phones at the same time. For example, a preloaded message "intruder in the building, shelter in place" could be pre-recorded, and sent to groups of phones or all phones in the district with the push of a couple of buttons. The system can also be used to support any 911 calls in the building. Speed of response to a 911 call is critical. Currently the system only shows that a call has been made from the buildings.The new system will immediately notify the main office when a 911 call has been made, and which phone made the call. The emergency responders will not be required to wander the building hoping to find the emergency situation.

A second component of the Berlin Smart School application is to upgrade the Emergency Notification system. The existing analog system was installed about 30 years ago. It relies on a single amplifier in the main office. The message goes out over a set of speakers that have been spliced and divided many many times until the signal is barely audible in some locations. At times the message that is generated in the main office doesn't reach all of the teachers and staff. In an emergency situation, students might be dismissed from class into an active intruder crisis putting them in a dangerous situation. The proposed system actually relies on a digital system and speakers placed in ever location in the district. When the students enter the classroom or public space they observe a digital display that shows as a clock. The digital display also houses a 5 amp speaker and amplifier. The messages are distributed to the system via the district IT network. It is then RE-generated at each device. The message is clear and audible. All students and All staff receive critical direction and information during an emergency. Additionally, since these units are devices on the IT network, the IT staff can identify any device that is not operational any day or time. They don't need to wait for an emergency and identify the students who didn't hear the messages and are not following directions.

The correct information at the correct time to insure that all of the students are safe.

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
49-01-01-04-7-999-BA1
49-01-01-04-7-999-002

3. Was your project deemed eligible for streamlined Review?

☑ Yes

☐ No

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3B. Districts with streamlined projects must 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.

☑ By checking this box, you certify that the district has reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
Matt Monaghan	29199

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
Electronic Security System	CP-8841-K9= Cisco IP Phone 8841	150	287.00	43,050.00
Electronic Security System	CP-8800-WMK= Wall Mount Kit for Cisco IP Phone 8800 Series	21	50.00	1,050.00
Electronic Security System	CP-7811-K9= Cisco UC Phone 7811	12	111.00	1,332.00
Electronic Security System	CP-7811-WMK= Spare Wallmount Kit for Cisco UC Phone 7811	6	48.00	288.00
Electronic Security System	CP-8851-K9= Cisco IP Phone 8851	10	343.00	3,430.00
Electronic Security System	CP-8800-A-KEM=8800 Series Audio KEM, 28 Button	3	328.00	984.00
Electronic Security System	Conference Phone CP-8832-K9	2	959.00	1,918.00
Electronic Security System	Conference Phone CP-8832-POE= (Spare)	2	67.00	134.00
Electronic Security System	C8200L-1N-4T Cisco Catalyst 8200L with 1-NIM slot and 4x1G WAN ports	1	1,136.00	1,136.00
Electronic Security System	CON-L1NBD-C8200TL1 CX LEVEL 1 8X5XNBD Cisco Catalyst 8200L with 1-NIM slot	1	855.00	855.00
Electronic Security System	DNA-P-T0-A-3Y Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	1	844.00	844.00
Electronic Security System	SVS-PSTL1-T0-A3Y Success Track L1 - DNA Advantage OnPrem Lic, T0, 3Y	1	383.00	383.00
Electronic Security System	VG400-2FXS/2FXO Cisco VG400 Analog Voice Gateway	1	1,499.00	1,499.00

High-Tech Security Features

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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
Electronic Security System	CON-SNT-VG4002FO SNTC-8X5XNBD Cisco VG400 Analog Voice Gateway	1	183.00	183.00
Electronic Security System	ACS-4220-RM-19 19 inch rack mount kit for Cisco ISR 4220 & VG400	1	66.00	66.00
Electronic Security System	C8200L-1N-4T Cisco Catalyst 8200L with 1-NIM slot and 4x1G WAN ports	1	1,136.00	1,136.00
Electronic Security System	CON-L1NBD-C8200TL1 CX LEVEL 1 8X5XNBD Cisco Catalyst 8200L with 1-NIM slot and	1	855.00	855.00
Electronic Security System	NIM-2FXS/4FXOP 2-Port FXS/FXS-E/DID and 4-Port FXO Network Interface Module	1	844.00	844.00
Electronic Security System	SVS-PSTL1-T0-A3Y Success Track L1 - DNA Advantage OnPrem Lic, T0, 3Y	1	383.00	383.00
Electronic Security System	C8200L-1N-4T Cisco Catalyst 8200L with 1-NIM slot and 4x1G WAN ports	1	1,136.00	1,136.00
Electronic Security System	CON-L1NBD-C8200TL1 CX LEVEL 1 8X5XNBD Cisco Catalyst 8200L with 1-NIM slot and	1	855.00	855.00
Electronic Security System	NIM-1MFT-T1/E1 1 port Multiflex Trunk Voice/Clear-channel Data T1/E1 Module	1	846.00	846.00
Electronic Security System	PVDM4-32 32-channel DSP module	1	966.00	966.00
Electronic Security System	DNA-P-T0-A-3Y Cisco DNA Advantage On-Prem Lic 3Y - upto 25M (Aggr, 50M)	1	1,632.00	1,632.00
Electronic Security System	SVS-PSTL1-T0-A3Y Success Track L1 - DNA Advantage OnPrem Lic, T0, 3Y	1	383.00	383.00
Electronic Security System	BE6K-M6-K9 Cisco Business Edition 6000 (M6) Appliance, Export Restr SW	2	6,513.00	13,026.00
Electronic Security System	CON-SNT-BE6K6KHW SNTC-8X5XNBD Cisco Business Edition 6000 (M6) Applian	2	388.00	776.00
Electronic Security System	10241500 BARIONET 400 SYN-APPS & INFORMACAST	2	267.00	534.00
Electronic Security System	SSF-SPF-BLD Singlewire:INFORMACAST FUSION BUILDING SOFTWARE	1	900.00	900.00

High-Tech Security Features

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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
	PROVISIONING FEE			
Electronic Security System	SSF-3YR-BLD-1 Singlewire:INFORMACAST FUSION BUILDING UP TO 3 BUILDINGS	1	10,738.00	10,738.00
Electronic Security System	IPTA-IFS Singlewire:InformaCast Fusion Hardware Appliance	2	956.00	1,912.00
Electronic Security System	PS-SNY-ADV Installation and Configuration	1	53,350.00	53,350.00
Electronic Security System	WL-IPD-SPKR-510-INF-F Wahsega Small IP Display with InformaCast and Flashers	85	73.00	6,205.00
Electronic Security System	WL-IPD-SPKR-510D-INF-F-TM Wahsega Top Mount Double Sided IP Display with InformaCast and Flashers	11	1,449.00	15,939.00
Electronic Security System	WL-IPD-SPKR-520-INF-F Wahsega Large IP Display with InformaCast and Flashers	8	969.00	7,752.00
Electronic Security System	WL-IPD-SPKR-540-INF-F Wahsega Extra Large IP Signboard with InformaCast and Flashers	3	1,616.00	4,848.00
Electronic Security System	WL-IPD-SPKR-540-CG Wahsega Extra Large Protection Cage	2	553.00	1,106.00
Electronic Security System	WL-SPKR-22-INF Wahsega 2x2 IP Ceiling Speaker with InformaCast	17	45.00	765.00
Electronic Security System	WL-SPKR-SMT-INF Wahsega Wall Mount IP Speaker with InformaCast	4	45.00	180.00
Electronic Security System	WL-SPKR-SMT-A Wahsega Wall Mount Extension Speaker	2	215.00	430.00
Electronic Security System	WL-SPKR-22-A Wahsega 2x2 Ceiling Extension Speaker	5	215.00	1,075.00
Electronic Security System	660406 ADV NETDEV IPSWS-SM-O IP SPEAKER OUTDOOR	4	736.00	2,944.00
Electronic Security System	10178584 ALGO COMM 8186-IC ALGO 8186-IC	25	518.00	12,950.00
Electronic Security System	10186185 ALGO COMM 8138-IC THE ALGO 8138-IC IP MULTI-COLOR STROBE LIGHT IS AN INFORMACAST	22	613.00	13,486.00
Electronic Security System	STI CP-SS43-EN STOPPER	2	152.00	304.00

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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
	STATION 3 PACK BLUE			
Other Costs	PS-SNY-ADV Professional Services as per SOW - Principal Architect	1	15,280.00	15,280.00
Electronic Security System	PS-SNY-CRC Cabling Professional Services	1	157,074.00	157,074.00
Other Costs	Architect Fees	1	43,500.00	43,500.00
		427	**312,360.00**	**431,262**

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)	0.00
Electronic Security System	372,482.00
Entry Control System	0.00
Approved Door Hardening Project	0.00
Other Costs	58,780.00
Totals:	**431,262.00**