Smart Schools Investment Plan - Revised - 07.15.20_Submit

SSIP Overview

Institution ID

800000039488

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

Brian Carey

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

518-732-2297

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

bcarey@schodack.k12.ny.us

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.

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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.**

Schodack_CSD_SSIP.pdf

Public_Hearing_for_Schodack_CSD_-_Feb_25_2016_1.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.schodack.k12.ny.us/2020/08/smart-schools-investment-plan/

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.**

1,085

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:**

$673,090

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	889	0	889.00	0.00

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	249,288.00	249,288.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	59,696.00	59,696.00	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	0.00	0.00	0.00

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SSIP Overview

	Sub-Allocations	Expenditure Totals	Difference
Totals:	**308,984**	**308,984**	**0**

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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.

   For our external internet connection, Schodack currently exceeds the recommended speed of the Federal Communications Commission's minimum speed standard of 100 Mbps per 1,000 students. We currently have a connection speed of 135 Mbps which exceeds the recommended speed. However, internal networking equipment falls short of this goal. The plan includes upgrades to internal network switches and wireless access points to more current models that are under service contracts and fit into our existing infrastructure to increase performance and reliability.

   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	900	90.00	135	135	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.**

   During our recently completed capital project, we were able to upgrade all of our internal wiring and fiber connections. Unfortunately, we were only able to upgrade some of our internal networking equipment and continue to use some hardware that is 8+ years old. The mismatch of old vs new networking equipment causes many challenges. Most of the older equipment is no longer supported and out of warranty.

   We will be replacing the remaining outdated and unsupported network switches and wireless access points in both school buildings. Once these replacements are installed we will have a more robust network and will be able to enforce some rules and configurations that are not available until the old equipment is removed.

   All switches and wireless access points are replacements for existing equipment and therefore this does not require any additional network wiring installations.

   A district goal is to expand high-speed broadband / wireless internet connectivity in district that will allow community access within school buildings and on school grounds by upgrading the existing guest availability. The district will provide the community with scheduled times to access the internet outside of the standard school day schedule. The district will also be looking at the potential of opening schools after hours to allow community members access to the internet. Broadcast of school events - athletics, concerts, graduation...

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.)

The Schodack Central School District (SCSD) envisions a program that will foster a culture within the school and community that values and supports the ever-changing nature of the technological competencies as an integral educational and lifelong skill. We will implement technology that will support all learners in reaching their highest potential. We will select and employ technology that promotes collaboration, research, critical thinking, creativity, decision making, problem-solving, reflection, and citizenship for all stakeholders. SCSD will go through the process of selecting and implementing appropriate technology that allows for student, faculty and community collaborations, critical thinking, creation, and reflection based on current best practices. We are committed to providing reliable access to technology and devices in order to support teaching and learning at all levels. It is imperative that SCSD ensures equitable distribution of district funds for state of the art technology, infrastructure, and upkeep at all grade levels. Through targeted professional development, SCSD will provide students and faculty quality instruction in the use and evaluation of technology. SCSD will ensure all students, despite diverse learning needs, will have access to the curriculum at the same level and complexity as their peers; including enrichment opportunities grade-level peers may participate in.

In order for the Schodack School District to be successful in the mission of improving teaching and learning in the classroom and to address the goals of our NYS approved Instructional Technology Plan, we must be successful in developing a culture that expects digital connectivity and technology in our schools. Implementation of technology that will support all learners in reaching their highest potential is the district's top priority. The technology infrastructure (networking hardware and wiring) must be reliable, dependable, high performance, sustainable, and expandable. The school district has demonstrated a commitment to a digital learning environment by transitioning all faculty to mobile devices and has successfully implemented a 1:1 device program for all students grade 7-12. The district has and will continue to analyze the needs of the students, teachers, administrators, and the community. A primary outcome of our Instructional Technology Plan is to address the needs of the stakeholders and provide them with the tools to be successful both within and outside of the classroom. The Schodack Central School District understands and values high-quality professional development for our faculty and staff and, as such, our Professional Development Planning Committee seeks to provide training opportunities that are grounded in research regarding best practices for utilizing technology within the classroom at all levels, Kindergarten through 12th grade.

We believe that our SSIP will help us meet the goals (listed below) of our approved Instructional Technology Plan.

Goal #1 - Students will use technology as a tool in all aspects of the curriculum to build understandings in Grades K-12. The use of technology will support critical thinking, collaboration, creativity, and communication. This will be done by developing a broad, challenging and engaging curriculum that will provide students with the knowledge and skills necessary to meet the challenges of the twenty-first century.

Goal #2 - To continuously improve teachers' technological competencies, offer on-going professional development and to provide opportunities for collaboration. This will enable teachers to utilize technology to create student-centered environments that enhance teaching and learning and to continuously improve ways in which technology can be utilized to meet students' needs.

Goal #3 - Schodack's network infrastructure plays a crucial role in supporting it's learning environment. The infrastructure is essential to supporting district servers, switches, Internet providers, software programs, apps, desktops, iPads, Chromebooks, tablets, laptops as well as staff and student-owned devices. The network must support present and future needs with increased reliability, improved network speed, and enhancing security to support teaching and learning within our schools.

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School Connectivity

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.

   A major goal of School Connectivity is to provide students and staff access from wireless devices within the school building. We are seeing staff and students that often have not just 1 but sometimes 2 or 3 wireless devices that require connectivity.

   Our current wireless technology falls short of being able to provide a robust and reliable wireless experience with sufficient bandwidth to meet ever-increasing wireless demands. Additionally, we are unable to provide a simple to use and protected guest network that the public can use while in District Buildings.

   Upgrades to our wireless system will help us provide a safe, reliable, and robust wireless network to all students, staff, and public guests while protecting district assets from malicious behavior. We currently have a partial deployment of a robust and modern wireless system and this plan includes replacement devices for all older wireless access points. Upon completion of this project, we will have only one centrally managed wireless system.

   A crucial part of providing a robust and safe wireless system includes having the proper back end switches to support the access points. The network switch upgrades compliment the wireless access points to provide these goals.

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
49-15-01-04-7-999-BA1

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

   Was your project deemed eligible for streamlined review?

   No

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

Name	License Number
James Graham	2387901

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
Network/Access Costs	Wireless access point: Meraki MR53 IEEE 802.11ac 2.50 Gbit/s Wireless Access Point - 5 GHz, 2.40 GHz - MIMO Technology - 1 x Network (RJ-45) - Ceiling Mountable, Wall Mountable, Desktop	43	985.00	42,355.00
Network/Access Costs	Wireless access point license: Meraki MR Enterprise Cloud Controller License, 5 Years - Meraki MR Series Access Point - Subscription License - 5 Year License Validation Period	43	261.00	11,223.00
Network/Access Costs	Network switch: Meraki MS250-48FP Ethernet Switch - 48 Ports - Manageable - 3 Layer Supported - Modular - Twisted Pair, Optical Fiber - 1U High - Rackmountable, Desktop - Lifetime Limited Warranty	13	6,044.00	78,572.00
Network/Access Costs	Network switch license: Meraki Enterprise With 5 Years Enterprise Support - Cisco Meraki MS250- 48FP Cloud Managed Switch - 48 Ports - Subscription License 1 Switch - 5 Year License Validation Period	13	1,027.00	13,351.00
Network/Access Costs	Scale Computing HC5250D - NAS server	3	14,170.00	42,510.00
Network/Access Costs	ScaleCare Support - extended service agreement (extension) - 4 years	3	6,753.00	20,259.00
Network/Access Costs	Scale Computing HC1250D - NAS server	1	24,005.00	24,005.00
Network/Access Costs	SCALE 4YR SUP EXTENSION- HW&SW SVCS	1	11,466.00	11,466.00
Network/Access Costs	Scale Computing B12-CSC-10B 12 Port 10GBase-T Switch	2	1,533.00	3,066.00
Network/Access Costs	SCALE PROMO HC3 MOVE Mfg.Part: ADTM-PROMO-20	1	864.00	864.00
Network/Access Costs	ScaleCare Support Premium Installation Service	1	1,617.00	1,617.00
		124	68,725.00	249,288

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	889	0	889.00	0.00

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School Connectivity

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	249,288.00
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:	**249,288.00**

14. **School Connectivity Totals**

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	249,288.00
Totals:	**249,288**

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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**

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Classroom Learning Technology

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.

    Schodack currently exceeds the recommended speedof the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students.

    We currently have a connection speed of 135Mbps through the Northeastern Regional Information Center which is greater than the recommended speed.

    We continuously monitorthis connection in order to maintain speed and reliability.

    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	900	90.00	135	135	current

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.

    The School Connectivity plans will address any necessary upgrades to the Wireless System. From the School Connectivity plan:

    A major goal of School Connectivity is to provide students and staff access from wireless devices within the school building. We are seeing staff and students that often have not just 1 but sometimes 2 or 3 wireless devices that require connectivity.

    Upgrades to our wireless system and infrastructure will help us provide a safe, reliable, and robust wireless network to all students, staff, and public guests while protecting district assets from malicious behavior.

4. **All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations.**

    Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

    ☑   By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

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Classroom Learning Technology

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.**

Interactive whiteboard technology that supports teaching and learning is used on a daily basis throughout the district. All students in grades K-12 have become accosted to this technology to assist with the learning process in the classrooms. Aging SMART boards and projectors will be replaced interactive panels that are more cost-efficient included enhanced features, and last longer providing a greater return on investment. The district has seen first hand the benefits of the proper utilization of this technology and has leveraged the use of such things like interactive whiteboards, interactive flat-panel displays, and video conferencing equipment as a critical component to the learning process for our faculty, staff, and our students..All devices willbe fully compatible with the proposed network upgrades of boththe wired and wireless networks.

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Classroom Learning Technology

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.

The proposed technology purchases will help the Schodack Central School District enhance differentiated instruction and expand student learning inside and outside the in a variety of ways. At Maple Hill Jr./Sr. High School we have committed to a 1:1 environment for all of our students in grades 7-12. Being in a 1:1 environment affords teachers the opportunity to differentiate instruction, provide timely feedback, and extend learning opportunities outside of the walls of the classroom. Students are expected to collaborate on a variety of classwork both in school and for larger team-based projects. Access to technology and having a strong network infrastructure allows us to maximize technology within the classroom and throughout the district. The purchases identified within this application are primarily geared toward improving the quality of our switches, wireless access points, and servers to better support the 1:1 learning environment. The technology also allows our students with disabilities and our English Language Learner population to get access to the support they need. This can be done through the use of web resources or applications that can be downloaded to different devices. In addition, the interactive panels can be utilized as a teaching tool to engage the whole class during instruction or can be utilized by the student to differentiate instruction to meet the individual needs of special education students, English Language Learners, or students needing additional support. The technology identified will also allow students to recover credits needed for graduation. Through different online programs, students may work on classes inside or outside their prescribed schedule.

At the K-6 Castleton Elementary School, teachers often use technology to support the learning happening each day. Devices are used to support center-based instruction, for Academic Intervention Services, and to help guide instructional decisions made within the classroom. For some time, the Castleton Elementary has been using i-Ready Diagnostic and instruction for reading and math. These computer-based assessments are administered three times per year and the data allows us to better understand the strengths and weaknesses of each individual student. The information provided allows teachers to provide targeted support and differentiate instruction to all learners across the spectrum. It is essential that we have a strong network capable of leveraging technology for this purpose. In addition, teachers also utilize technology for a variety of purposes within the classroom setting ranging from using the internet to support the content being taught to collaborative projects from applications to provide practice in basic skills to learning the foundations of coding. With the use of technology, teachers are able to create center-based instruction that allows students, with varying degrees of academic skills, to work on a curriculum that matches their abilities. Our elementary teachers have come to rely on the use of interactive technology within their classrooms. Students often engage with the interactive panels during all aspects of the day from completing the day count and calendar activities, attendance, and enhancing student engagement throughout the curriculum. In addition, our special education teachers and ELL teacher leverage the use of this technology to enhance small group lessons or to provide more targeted individualization through the use of the interactive panels.

In addition to the examples identified above, technology is used in many other ways. We have identified that the teaching of Science, Technology, Engineering, and Math (STEM) instruction is a learning gap at the elementary school. Through a recently created Capital Project enhancements were made at the elementary school to include the creation of a new Innovative Learning Lab. The district has committed to staffing this new space with a teacher who will work and collaborate with all classroom teachers to enhance and improve the teaching of STEM throughout the building. We know that students learn by doing and it is our hope that we will leverage some of our Smart School funding to purchase some technology that can be utilized to support instruction in this space. This could come in the form of interactive displays, robotics, computers, Virtual Reality (VR) kits, or other items to enhance the instructional opportunities for our students.

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 Schodack Central School District takes pride in our communication with all stakeholders. We currently communicate academic information, attendance information, and general announcements through the Parent Portal using our Student Information System. We share announcements, updates, and information about our programs and school events through social media such as Twitter and Facebook. As we continue to improve our 1:1 environment, our teachers are continuously learning how to leverage technology to enhance instruction and communication with students and parents. The use of Google Apps for Education (GAFE) allows students to receive feedback quickly and allows for parents to receive weekly updates regarding student progress. Our extensive PD plan looks to engage parents in providing feedback on ways in which we can improve the sharing of both curricular and logistical information.

The technology infrastructure upgrades allow us to expand and improve our instructional program which positively impacts our students, faculty, and community at large. We currently use our distance learning classroom to the fullest extent of its capability. Not only do we host and receive classes for students during the school day but we have also hosted college classes in the evenings that were received by other communities and look to make it available to other community agencies, such as police and fire, to assist with training efforts as well. Additionally, we serve as the primary hub of our rural community. Our wireless network will be available for community use during events and at times in the evenings. Included in our recent Capital project, we designed and built outdoor seating on areas of our campus that will allow the community access to the robust wireless network we intend to build.

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."

The Schodack Central School District has embarked on an aggressive professional development plan that looks to expand our faculty and staff's skills and comfort level in using technology. We have utilized the TRAx Digital ReadinessSurvey to understand the strength and areas of need across the entire learning community. We have participated in local and global learning communities to discover new and innovative ways to expand the educational experience for our students. We have accomplished this by the use of webinars, blended on-line learning communities both within the school district and collaboratively with other school districts, and through hands-on presentations from outside educational trainers during Professional Development days as well as supported in-service opportunities. We have used district faculty to provide hands-on training and to share best practices that are being implemented in their classrooms. We have accomplished this through "tech slams" and "tech days". "Tech slams" have been designed to give teachers a peek inside their colleague's classrooms and what they are doing with technology to enrich the educational experiences for students. "Tech days"were designed for teachers to get together after school to discuss and share technology ideas. As part of the Professional Development support, the district has created a position called Educational Technology Specialist. This person works in k-12classrooms with teachers to help use and share educational technology practice. To further utilize our faculty in the training process we have created a small group of Super Users at the high school. These are teacher leaders in terms of technology and instructional practice that have the respect of their colleagues. This small group meets with the building administrator and Education Technology Specialist regularly to discuss, plan, and implement professional development during Professional Development days as well as after school. They are instrumental in helping to prepare for a number of advances we will have with future technology purchases. Currently, in conjunction with the building administration, this group deliversprofessional development geared toward ability level during faculty meetings. Additionally, this group has been tasked with offering summer professional development for both staff and students. This summer Professional Development has included Google Camps and additional technology opportunities to share best practices in educational 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.

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

   SUNY Albany

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

518-442-4007

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.**

Jianwei Zhang

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
Interactive Whiteboards	Newline TruTouch Flat Panel w/Touch Monitor TT-6518RS	28	1,789.00	50,092.00
Interactive Whiteboards	Tripp Lite Wall mount for flat panel monitor DWM3770X	28	120.59	3,376.52
Interactive Whiteboards	Samsung sound bar for flat panel monitor HW-MS550/ZA	28	222.41	6,227.48
		84	**2,132.00**	**59,696**

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	889	0	889.00	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	59,696.00	0.00	59,696.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	(No Response)	0.00	0.00
Laptop Computers	(No Response)	0.00	0.00

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Classroom Learning Technology

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Tablet Computers	(No Response)	0.00	0.00
Other Costs	(No Response)	0.00	0.00
Totals:	**59,696.00**	**0**	**59,696**

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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**

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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**

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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**