

## Smart Schools Investment Plan - selmersax4821

## SSIP Overview

Page Last Modified: 06/22/2017

**Group 1**

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

Brian Corey

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

(607) 652-2409

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

bcorey@jeffersoncsd.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of a Smart Schools Investment Plan.

First submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

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

 District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

- Parents  
 Teachers  
 Students  
 Community members

- 4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

- Yes  
 No  
 N/A

5. Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.

- The district developed and the school board approved a preliminary Smart Schools Investment Plan.  
 The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.  
 The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.  
 The district prepared a final plan for school board approval and such plan has been approved by the school board.  
 The final proposed plan that has been submitted has been posted on the district's website.

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SSIP Overview

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- 5a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.

Narative\_4.29.16.docx  
FAQ.docx

- 5b. Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.

<http://www.jeffersoncsd.org/cms/One.aspx?portalId=499315&pageId=10723153>

- 6. Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

300

- 7. An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.

The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

- 8. Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

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

(No Response)

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

\$284,092

- 11. Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.

	Sub-Allocations
School Connectivity	52,252
Connectivity Projects for Communities	0
Classroom Technology	93,243
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	79,787
<b>Totals:</b>	<b>225,282</b>

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School Connectivity

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**Group 1**

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.

We have a Gigabyte connection through our RIC (Broome Tioga BOCES). It's rated 1 Gbps -<10 Gbps with the Internet 1 Gbps - <10 Gbps.

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

**2. Connectivity Speed Calculator (Required)**

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	254	25,400	25	1000	1000	Current

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

We had a network assessment completed from our Regional Information Center (Broome Tioga Boces) in order access our current infrastructure status, determine needs, and make recommendations for upgrades. Based on this assessment, they recommended the following which we are incorporating into this plan:

- Purchase new switching for our MDF and IDF network closets
- MDF–HP Aruba 2929 switch Stack Sys –168X1Gb Copper
- IDF–HP Aruba 29290 Stack Sys – 120x1Gb Copper
- Purchase a DPU device for each data Closet
- APC UPS Management Cards 2 @ \$440
- Purchase an enterprise grade WiFi System
- Aruba 7205 Controller, (20) 802.11 ac Aps & Licenses

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4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

The infrastructure upgrade will create a platform which will allow and support all the other instructional components. The WiFi upgrade will allow us to increase the number of mobile devices available for student research, collaboration and instruction by providing an "always on" access to technology. The switch upgrade will support a robust network supporting the needs for high speed access and connectivity. This will support the present and anticipated future network demands for student and staff access as well as supporting the proposed IP based security camera system.

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

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

We have seen a rapid increase in the use of mobile technology in the district in recent years and we are expecting this to continue to grow. Over the next few years we will be moving toward a "one to one" device model in grades 9 through 12 and we will be increasing the number of mobile devices in grades K-12. We are also anticipating needs for online testing in the future. Our current WiFi architecture will not meet these demands, so we had our RIC perform a network assessment to, among other things, recommend an enterprise grade WiFi system that will meet our demands given the layout of the building and planned upgrades. After considering all these factors they recommended that we install an Aruba 7205 controller and an initial twenty 802.11ac capable access points. This plan incorporates their recommendations.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects. Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
540901040001BA1

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

Was your project deemed eligible for streamlined review?

Yes

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

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

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

Name	License Number
Gregory Klokiw	25863

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9. If you are submitting an allocation for School Connectivity complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub- Allocation
Network/Access Costs	30,521
Outside Plant Costs	(No Response)
School Internal Connections and Components	21,731
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>52,252</b>

10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).  
**NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.**  
 Add rows under each sub-category for additional items, as needed.

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Aruba 5412R z12 Switch - Managed - rack mountable	1	2,299	2,299
Network/Access Costs	Aruba 5406R 44GT PoE+ (No PSU v3 zi12 Switch - managed - 44 x 10/100/1000 (PoE+)/ 10 Gigabit	1	4,549	4,549
Connections/Components	HPE Expansion module - Gigabit Ethernet (PoE+) x20 Gigabit Ethernet/10 Gigabit SFP + x4 for Aruba 5406R z12	1	1,999	1,999
Connections/Components	HPE Expansion module - Gigabit Ethernet (PoE+) x20 +1/2.5/5/5/10GBase T (PoE+)x4	4	2,399	9,596
Connections/Components	HPE SFP+ Transceiver module	2	452	904
Network/Access Costs	HPE Power supply (Plug in module) - 1100 Watt for Aruba 5406R	4	614	2,456
Connections/Components	AddOn 3m LC to SC OM2 & OS1 Mode Conditioning Cable	2	58	116
Network/Access Costs	Aruba 5406R 44 GT PoE+ /4SFP Switch - Managed	1	4,549	4,549
Connections/Components	HPE Expansion module - Gigabit Ethernet (PoE+) x20 Gigabit SFP+ x4 for Aruba 5406 R	1	1,999	1,999
Connections/Components	HPE Expansion module - Gigabit Ethernet (PoE+) x20	2	2,399	4,798
Connections/Components	HPE SFP + Transceiver module = 10 Gigabit Ethernet 10GBase-LRM - LC multimode	2	452	904
Network/Access Costs	HPE Power supply (Plug in module) - 1100 Watt for	2	614	1,228
Connections/Components	AddOn 3m LC to SC OM2 & OS1 Mode Conditioning	2	58	116
Network/Access Costs	Aruba 7205 Controller, Network Management Device	1	6,497	6,497
Network/Access Costs	HPE Foundation Care Next Business Day Exchange Service Agreement	1	1,001	1,001
Network/Access Costs	Aruba AP -305 Wireless Access Point	16	347	5,552
Network/Access Costs	Aruba AP-325 Wireless Access Point	4	697	2,788
Connections/Components	HPE Network cable - SFP+ - 10 ft for Aruba 2930F	1	71	71

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School Connectivity

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	APC UPS Network Management Card	2	415	830

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Community Connectivity (Broadband and Wireless)

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**Group 1**

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

(No Response)

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

(No Response)

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

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

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

(No Response)

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

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

6. If you are submitting an allocation for Community Connectivity, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

7. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).

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



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Community Connectivity (Broadband and Wireless)

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

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Classroom Learning Technology

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**Questions**

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

We have a Gig connection with our RIC (Broome Tioga BOCES)  
The connection is rated at 1 Gbps - <10 Gbps for the connection and internet.

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.

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2. **Connectivity Speed Calculator (Required)**

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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.

We have seen a rapid increase in the use of mobile technology in the district in recent years and we are expecting this to continue to grow. Over the next few years we will be moving toward a “one to one” device model in grades 9 through 12 and we will be increasing the number of mobile devices in grades K-12. We are also anticipating needs for online testing in the future. Our current WiFi architecture will not meet these demands, so we had our RIC perform a network assessment to, among other things, recommend an enterprise grade WiFi system that will meet our demands given the layout of the building and planned upgrades. After considering all these factors they recommended that we install an Aruba 7205 controller and an initial twenty 802.11ac capable access points. This plan incorporates their recommendations.

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## Classroom Learning Technology

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

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

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

5. **Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.**

**Classroom Learning Technology Narrative:**

**Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems.**

**Interactive Projectors:** The district will be purchasing 7 Epson Interactive Projectors to compliment current district classroom technology for multimedia presentations and interactive lessons. Every classroom and instructional space has network/internet access. We will be purchasing 4x6 Markerboards as a display surface separately from this plan.

**Computer Servers:** The district will be purchasing 2 domain controllers. The servers will authenticate logins, maintain an active directory and serve as file repositories. The servers will replace two other servers which served the same functions. They will both be located in the Main Data Facility which has ample space and network infrastructure to support them. The MDF is air conditioned to ensure the proper cooling for the servers and other network equipment.

**Desktop Computers (Staff):** The district will be purchasing desktop computers for staff use in classroom instruction, lesson planning, and student, staff, and parent communication and collaboration. Every classroom and instructional space has network access to facilitate effective use of these devices.

**Desktop Computers (Graphic Arts and Music Room):** The district will be purchasing desktop computers in the media communications, yearbook and music room. Every classroom and instructional space has network access to facilitate effective use of these devices.

**Desktop Computers (Computer Lab):** The district will be purchasing desktop computers to replace aging computers in the computer lab. The computer lab as the necessary space and network ports to support these devices.

**Laptop Computers:** The district will be purchasing for students to use for research, collaboration, and presentation purposes. Every classroom and instructional space has network access and will have sufficient WiFi bandwidth to facilitate effective use of these devices. The laptop computers will be stored in a laptop cart within a classroom.

**Laptop Computers (Chromebooks)** The district will be purchasing 45 Chromebooks for students to use for research, collaboration, and presentation purposes. Every classroom and instructional space will have sufficient WiFi bandwidth to facilitate effective use of these devices. The Chromebooks will be stored in two separate Chromebook charging carts located within classrooms.

**Mobile Devices:** The district will be purchasing iPad tablets for k-6 classrooms and Chromebooks for students in grades 7-12. These devices will be compatible with the proposed WiFi upgrade and will make use of Google Apps for Education which includes: Google Classroom, Gmail, Drive, Calendar, Vault, Docs, Sheets, Slides, and Sites. All students, faculty, and staff have Google Education Accounts. Every classroom and instructional space has network access and will have sufficient WiFi bandwidth to facilitate effective use of these devices.

**Avervision Document Cameras:** The district will be Avervision Document Cameras to use for presentation purposes to be used in conjunction with the classroom desktop computers and projection units. All of the classroom computers and projection equipment is compatible with these document cameras.

**55" LED Display with an ASUS Chromebit:** The district will be purchasing a 55" display with an ASUS Chromebit to be used as a digital display to project announcements and other school related information. The display will be placed in a main entrance corridor of the school. The display will be controlled by the ASUS Chromebit. There is sufficient WiFi bandwidth to facilitate the operation of this unit.

**Yearbook Printer:** The district will be purchasing a high volume printer for use in the publication of the school yearbook. The printer will be located in the Graphic Arts Room with the necessary space and network access for proper use of this printer.

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6. Describe how the proposed technology purchases will:
- > enhance differentiated instruction;
  - > expand student learning inside and outside the classroom;
  - > benefit students with disabilities and English language learners; and
  - > contribute to the reduction of other learning gaps that have been identified within the district.

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?")

The proposed plan will provide students with readily assessable technology. This will place the learning in the hands and responsibility of the student. Through Google Apps such as iSpeech, Speak it and Read Comfortable, students will be able to differentiate the way they read, write and explore the exchange of ideas and information in an online setting. Teachers will be able to create content through online forms, classrooms and instructional sites that will enable them to embed instructional videos and documents to help students with the content. The online content will provide a platform for student learning which will extend beyond the normal classroom setting since the students will have the materials available to them online.

As stated in our Technology Plan, we currently have an elementary, middle school, and high school learning center. They currently use a variety of iPad and Google Apps to address various gaps, particularly in Math and ELA. However, currently the availability of these devices is limited. This plan proposes purchasing devices in each of these areas to increase the level of access the students receive.

The plan will allow us to make several technology purchases aimed at enhancing student learning. Among these include the following:

- Chromebooks: We are moving toward a "One to One" model with Chromebooks in grades 9-12 and to increase the availability of Chromebooks for grades 5-8. This will give the students the computing power on an "always on" environment allowing them to use apps such as Google Docs. With these, teachers will be able to collaborate with their students using Google Classroom. This will also allow them to access to a wide variety of web based resources and research tools.
- Graphics Lab: The students publish the school yearbook in house. This plan will allow us to expand and enhance the graphics lab which is used to create the yearbook. We will be purchasing high performance Dell Desktop computers, and a high volume printer. Separately from the SSIP, we will be purchasing the Adobe Creative Suite. These investments will provide students with industry specific, employable skills in graphic arts and desktop publishing.
- iPads: We will be purchasing additional iPads for elementary use. We currently have 30 iPads in the elementary. With the first phase of this plan, we will be purchasing an additional 20 iPads. These will enhance instruction in the following ways:
  - Elementary students will use them to access the K-6 "Journey's" reading program.
  - Elementary students will reinforce their math skills using the web based "FAST Math" program
  - The students will use a variety of other Math and ELA apps available from the "App Store."
- Interactive Projectors: We currently have Interactive Projectors in elementary classrooms and through this plan, we will be purchasing Interactive Projectors for several high school classrooms. This will allow for more interactive, engaging presentations focusing on allowing the students to be more active in the learning process.

This plan addresses the needs of students with disabilities in a variety of ways. We currently have an elementary, middle school, and high school learning centers. All three use a variety of iPad and/or web based apps to address various gaps, particularly in Math and ELA. Through the SSIP, we will increase student access to Chromebooks in 7-12 and iPads in the elementary. The following are specific programs we will use on these devices to enhance learning:

- FastMath – The program reinforces basic math skills.
- Acellus Computer Learning System – This is a web based learning system we are using for credit recovery.
- Premier Literacy Suite – This program features a multi-sensory approach to literacy – offering auditory features, composition tools and productivity aids as companions to traditional printed and digital materials. This program is beneficial to students with disabilities and also ELL Students. We will address the needs of English Language Learner students with the Premier Literacy Suite and Dragon Dictate as well as apps such as "iSpeech"

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with the iPads, Chromebooks, and/or Laptops that will be purchased through this plan.

**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 technology purchases will help teachers to expand online learning environments through Google Classroom and Google Sites. By embedding curriculum materials and links directly in assignments, students will be able to access resources while at home. With Google Classroom, parents will also be able to access those resources to help their children. Access to this content also keeps parents up to date on what is happening with the curriculum. Learning in the online environment also creates a documented record of student engagement and participation. This information is useful when discussing student growth with parents. Shared resources between teachers also help monitor student behavior and growth thereby improving the quality of information that can be shared between home and school.

We have a partnership with a local college for “college in the classroom” classes where students can take classes for college credit. Through these purchases, we will have more opportunities to expand this partnership through online classes. We are also buying into a coser for distance learning through ONC BOCES beginning in the 2016-2017 school year. These purchases will enable us to provide the students with more online learning and blended learning opportunities through this service.

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8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

**Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."**

The Jefferson Central School District is committed to increase student achievement by providing professional development opportunities for its teachers in integrating technological applications to classroom curriculum and instruction.

Each year, the Technology Committee determines the professional development needs of the district by conducting a needs assessment from the various Professional Learning Communities within the district. These PLC's include but are not limited to the following teams:

- The Technology Committee
- The Comprehensive District Education Plan Committee (CDEP)
- Curriculum Coordinators

The Technology Committee is made up of the technology director, the building principal, a high school teacher, an elementary teacher, a CDEP member, and a school board member. The Technology Committee meets monthly and continually collaborates as needed. The role of the committee is to work in conjunction with the other Professional Learning Communities to determine the technological needs of the district and explore ways that the technology can be integrated into the curriculum to improve learning and achievement.

The CDEP Committee is made of the district superintendent, the building principal, classroom teachers, and a board of education member. The committee meets monthly to review district goals and implement strategies to reach the goals. These strategies often involve professional development for faculty and staff.

The district has two curriculum coordinators for each of the following curriculum areas; Mathematics, ELA, Social Studies and Science. One of the coordinators for each area covers Kindergarten through Fifth Grade and the other Sixth through Twelfth Grade. The role of the curriculum coordinators is to make informed decisions regarding the direction, development, alignment of local and NYS curriculum as well as make recommendations to the technology committee regarding instructional technology needs. The curriculum coordinators reports monthly to the CDEP team. The Technology Committee rep on the CDEP team will then report the findings to the Technology Committee.

The following platforms will be used to conduct professional development sessions:

- **Workshops and Mini-Classes:** We will conduct professional development during our conference days. We typically start the year with two In-Service days and typically we will use one of those days for technology integration. Throughout the year, the Professional Learning Communities will continue to assess data and recommend additional ways to implement and integrate technology.
- **Some Topics Include**
- **Google Apps for Education**
- **Google Classroom**
- **Adobe Creative Suite**
- **iPad Training (Installing and Configuring Apps)**
- **Use of the Interactive Projectors**
- **Smart Notebook Software**
- **Train the Trainer:** We find that professional development is most effective when there are a variety of individuals that can provide "on the spot" professional development. To achieve this, we encourage teachers to become experts at various systems in the district and then provide assistance to staff when needed.
- **New Faculty/Staff Training:** Either the Technology Director or one of the staff "Train the Trainer" experts will provide professional development to the new staff in the use of the E-Mail, Network Basics, Student Management System, etc.
- **Use of webinars, blogs, videoconferences, online media, and other social media:** We will provide resources on our district website for staff to receive specific professional development.
- **Google Apps For Education:** Faculty and staff will be trained in the use of Google Apps for Education for sharing and collaboration. Through this medium, I will be able to share documents with the staff related to IT Professional Development and they will also be able to collaborate with each other with "Best Practices."
- **Outside Conferences and Workshops:** Faculty and staff will be encouraged to participate in content specific professional development related to Technology Integration.

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Classroom Learning Technology

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9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

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

SUNY Oneonta

- 9b. Enter the primary Institution phone number.

(607) 436-2630

- 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.

Dr. Elaine Lawrence

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

- Yes  
 No

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

[http://www.p12.nysed.gov/mgtserv/smart\\_schools/docs/Smart\\_Schools\\_Bond\\_Act\\_Guidance\\_04.27.15\\_Final.pdf](http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf)

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

By checking this box, you certify that the district has a sustainability plan as described above.

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Classroom Learning Technology

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13. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for Classroom Learning Technology complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Interactive Whiteboards	0
Computer Servers	9,000
Desktop Computers	27,394
Laptop Computers	23,100
Tablet Computers	10,000
Other Costs	23,749
<b>Totals:</b>	<b>93,243</b>

15. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov). Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable. NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them. Add rows under each sub-category for additional items, as needed.



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## Classroom Learning Technology

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Other Costs	Epson Bright Link 485i Interactive Projector	7	1,600	11,200
Computer Servers	Dell PowerEdge R430	2	4,500	9,000
Desktop Computers	Dell Optiplex Desktop	20	800	16,000
Desktop Computers	Dell Optiplex Desktop (High Performance)	4	1,200	4,800
Desktop Computers	iMac 21	6	1,099	6,594
Laptop Computers	Dell Latitude	12	800	9,600
Laptop Computers	Dell Chromebook	45	300	13,500
Tablet Computers	iPads/Tablets	20	500	10,000
Other Costs	Chromebook Charging Cart - 30 Unit	1	1,000	1,000
Other Costs	iPad Charging Cart	1	654	654
Other Costs	Chromebook Charging Cart- 6 Unit	1	192	192
Other Costs	AverVision Document Camera	5	500	2,500
Other Costs	Epson PowerLite W29 LCD Projector	2	535	1,070
Other Costs	OkiData C931E High Volume Color LED Printer	1	5,495	5,495
Other Costs	Samsung DB55	1	1,375	1,375
Other Costs	ASUS Chromebit CS10 B013D	1	90	90
Other Costs	FUSION LSM1U - wall mount	1	173	173

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Pre-Kindergarten Classrooms

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**Group 1**

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

(No Response)

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

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

(No Response)

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

(No Response)

4. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

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

Project Number
(No Response)

5. If you have made an allocation for Pre-Kindergarten Classrooms, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

6. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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Pre-Kindergarten Classrooms

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

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Replace Transportable Classrooms

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**Group 1**

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

(No Response)

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

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

Project Number
(No Response)

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

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

(No Response)

4. If you have made an allocation for Replace Transportable Classrooms, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

5. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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

Smart Schools Investment Plan - selmersax4821

High-Tech Security Features

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**Group 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.**

The district will be purchasing a security camera system consisting of IP based security camera surveillance system. Broome Tioga BOCES, our RIC, conducted a network assessment taking into account the demands of this system and recommended the appropriate architecture to support this system. This plan incorporates those recommendations.

- 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
540901040001010

- Was your project deemed eligible for streamlined Review?**

- Yes  
 No

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

Name	License Number
Gregory Klokiw	25863

- If you have made an allocation for High-Tech Security Features, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	79,787
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>79,787</b>

- Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).**

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

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## 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	IPV-Edge-24-RAID 1 24TB Drives	1	15,599	15,599
Electronic Security System	ALU-OS6450-P48 Gigabit Ethernet chassis w/ 48 POE 10/100/1000 BaseT Ports	1	2,190	2,190
Electronic Security System	ALU-OS6450-P24 Gigabit Ethernet chassis w/ 24 POE 10/100/1000 BaseT Ports	1	1,200	1,200
Electronic Security System	MID-03852 110-Type Patch Panel 24-P	3	49	147
Electronic Security System	MID-22676 3ft Cat5e Network Patch Cable	50	3	155
Electronic Security System	MID-22682 5ft Cat5e Network Patch Cable	1	3	3
Electronic Security System	Install-Programmer: Analysis, programming of custom software	8	150	1,200
Electronic Security System	IPV-34W-3E: Indoor/outdoor 3 MP Vandal Dome	27	309	8,343
Electronic Security System	ATS-CMP4: Cat5E Yellow 100 FT Cable	7	224	1,575
Electronic Security System	Install, configure, & integrate security cameras	135	150	20,250
Electronic Security System	IPV-34W-3E: Indoor/outdoor 3 MP Vandal Dome	7	309	2,163
Electronic Security System	ATS-CMP4: Cat5E Yellow 100 FT Cable	2	225	450
Electronic Security System	Install-Video Technician	35	150	5,250
Electronic Security System	AXS-047-001: AXIS 5MP, day/night fixed dome	9	975	8,778
Electronic Security System	IPV-VS-VMS-SW-1: VMS Single Camera License	9	130	1,169
Electronic Security System	ATS-ENH500: 5 GHz Wireless outdoor client bridge	2	110	220
Electronic Security System	ANT-LNP-0500-T: 5-Port Industrial PoE Switch	1	224	224
Electronic Security System	ATS-CMP4: Cat5E Yellow 100 FT Cable	3	225	675
Electronic Security System	ANT-PA-60-48-US: 60W/1.25A Power Adapter	1	47	47

Smart Schools Investment Plan - selmersax4821

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	ATS-NB141207-100: 14x12x7 120VAC Enclosure	1	328	328
Electronic Security System	ATS-HGX-PMT17: Universal Pole Mounting Kit	1	73	73
Electronic Security System	Install - Video Technician	65	150	9,750

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