

Wappingers Central School District  
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Office of Technology and Data Services

**Wappingers Central School District**  
**Technology Plan**  
**3/1/2014-6/30/2017**

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## Our Mission:

The mission of the Wappingers Central School District is to empower all of our students with the competencies and confidence to challenge themselves, to pursue their passions, and to realize their potential while growing as responsible members of their community.

## About the District:

The Wappingers Central School District is comprised of 15 schools including 2 high schools, 1 alternative high school, 2 junior high schools, and 10 elementary schools. The district takes care of the educational needs of approximately 11,600 students with approximately 820 teachers, 40 administrators and 900 support personnel.

## Supporting the mission through the use of technology:

### Providing resources to assist students, teachers, and staff:

We will provide students with the resources and guidance to:

- Understand how, when, and where to use technology to assist them in reaching their goals.
- Use technology to communicate and work collaboratively with others, both in school and beyond.
- Find, organize, manipulate, synthesize, create, share and present timely information.

- Research answers to their own questions, thereby empowering students with the competencies and confidence to pursue their passions.

We will provide teachers with the resources and guidance to:

- Use technology to communicate and work collaboratively with other teaching professionals to stay current on best practices.
- Use technology as a tool to provide differentiated instruction in their classroom.
- Provide students with new ways to present their work to their peers and to the community.
- Help students develop questions and work toward their own answers allowing the learning to be more student directed.
- Provide interactive experiences to improve student understanding of concepts.
- Use data to make meaningful and effective changes in instruction.

We will provide administrators with the resources and guidance to:

- Use technology to communicate and work collaboratively with other professionals as well as those they supervise.
- Use data to make meaningful and effective instructional and administrative decisions.
- Create appropriate staff development opportunities to help teachers understand the role of technology in instruction.

### **Specific Goals to Be Accomplished With the Plan:**

Goal 1: It is the goal of the WCSD to use technology to support and advance instruction and thereby promote student achievement by:

- 1.1 Developing effective methods of integrating technology into instructional practice.
- 1.2 Continuing to develop and use innovative strategies such as; cloud computing, social media, video conferencing, and online courses to increase access to files, applications, and course work.
- 1.3 Continuing to utilize our technology integration teachers to work with our teachers and students to support our mission.
- 1.4 Continuing to evaluate and purchase hardware and software which are aligned with our instructional needs and goals.

Goal 2: It is the goal of the WCSD to support and advance the district administrative systems to enhance efficiency and effectiveness by:

- 2.1 Continuing to review the technical needs of administrative departments and assist as needed.
- 2.2 Continuing to work with BOCES and the Regional Information Center to plan for changes in technology and the ever changing NYSED data reporting requirements.

Goal 3: It is the goal of the WCSD to maintain a technology framework and infrastructure that sustains the district's technology plan by:

- 3.1 Reviewing and updating [Internet User Agreements](#) for students and staff as needed.
- 3.2 Constantly planning for the purchase of hardware and software to provide equitable access to technology across all buildings in the district.
- 3.3 Continuing to replace computers in ordinary use on a 6-8 year cycle and computers in specialized use on a basis that meets specific program needs.
- 3.4 Monitoring infrastructure needs such as network traffic, and to plan for the adjustments in our infrastructure to stay had of changing demands.
- 3.5 Continuing to maintain an appropriate inventory of regularly used consumable supplies (ie: projector bulbs, toner cartridges, etc.) to minimize downtime for our users.
- 3.6 Including funds in each budget year to purchase new equipment, and to provide support and maintenance on existing equipment that has not yet reached end of life.

Goal 4: It is the goal of the WCSD to provide professional development programs for instructional and non-instructional staff that sustains the district technology plan objectives by:

- 4.1 Continuing to implement the [ISTE standards](#) with students, teachers and administrative staff.
- 4.2 Providing district created on-line resources such as our [Technology Tutorial Videos](#) for staff development.
- 4.3 Continuing to provide in-service training through [MLP](#) to district staff members.

Goal 5: It is the goal of the WCSD to provide regular and timely information to staff, students and the community to encourage collaboration and to support academic success by:

- 5.1 Providing staff with access to data and reports that will inform instruction.
- 5.2 Providing Parents & Guardians with [Parent Portal](#) accounts to our student information system.
- 5.3 Improving communication to Parents & Guardians through the use of [School Messenger](#).

Goal 6: It is the goal of the WCSD to develop and regularly update a long-range plan for efficient and effective incorporation of technologies into district operations by:

- 6.1 Updating the district's technology plan annually by conferring with administrators, teachers, students, parents and support staff and surveying their technology needs.

### Miscellaneous:

#### 3a. Funding:

The Wappingers Central School District will continue to purchase computer and infrastructure equipment, software and on-line resources using a combination of district funds, New York State Instructional Computer Hardware and Technology Equipment Aid, New York State Aid for Computer Software and ongoing participation in a lease/purchase agreement with our local BOCES and the MHRIC. In addition,

funds from Title I and other grant sources (ie: Microsoft Settlement) are used to provide staff development and purchase computer hardware and software.

### 3b. Internet Safety Policy:

The WCSD monitors our students' use of the Internet. We insist that students who wish to use the Internet agree to our terms. There is a [Computer User Agreement](#) form which includes signed parent permission that we keep on file each year. The intent of the district's computer user agreement is to provide students and staff with the general requirements and guidelines for utilizing the district's technology, networks, and Internet services. Because contemporary computer use and Internet use are intertwined, this agreement must be signed by staff and by students (and their parents or guardians) prior to their use of district computers and networks. Students and staff are assigned permission to log-on to our network only after the receipt of a signed Internet user agreement is received by the technology department.

Board policies related to Internet safety can be found on [BoardDocs](#) by using the Policies link that appears at the top of the public side of that web site. The most relevant policies are 4526, Internet Safety Policy and 4526.1, Internet Safety Policy Regulation. All students who attend 7<sup>th</sup> grade in the district will receive internet safety instruction by our Computer Applications teachers.

### 3c. Availability:

The WCSD strives for equity among departments, schools and students. To ensure that all learners have access to technology, the Technology Support Services staff and the Director of Technology, Testing and Assessment work cooperatively with principals, departmental coordinators, special education coordinators and administrators to balance the needs of each area against budgetary constraints.

## **Loan of Instructional Hardware:**

The WCSD will provide for the loan of Instructional Computer hardware and software to students legally attending nonpublic schools pursuant to Education Law. All loaned hardware and software must be used for instructional purposes. Notice shall be provided to all non-public schools within the boundary of the Wappingers Central School District stating that request for loans of computer hardware and software must be received no later than June 2nd of the current school year.

## **Current Infrastructure:**

The following tables detail our current infrastructure as well as planned upgrades / purchases:

### **Lab Environment (Desktops, Laptops, Netbooks, and Tablets):**

[Link to Lab Inventory](#)

### **Classroom and Office Computers:**

[Link to Classroom and Office Inventory](#)

### Building Wireless:

| Building           | Wireless Status |
|--------------------|-----------------|
| Brinckerhoff ES    | Online          |
| Fishkill ES        | Online          |
| Fishkill Plains ES | Online          |
| Gayhead ES         | Online          |
| James S Evans ES   | Online          |
| John Jay HS        | Online          |
| Kinry Road ES      | Online          |
| Myers Corners ES   | Online          |
| Oak Grove ES       | Online          |
| Roy C Ketcham HS   | Online          |
| Sheafe Road ES     | Online          |
| Van Wyck Jr HS     | Online          |
| Vassar Road ES     | Online          |
| Wappingers Jr HS   | Online          |

### Network Gear

Our network switches districtwide are identified below. The 'last day of service' dates do not necessary reflect the dates we absolutely must replace equipment. There are a number of devices that are long past this date, we have a small inventory of replacements on hand that we will use to swap out equipment that completely fails from a hardware perspective. This list will be reviewed annually.

| Building           | Model             | Qty | Last Day of Svc   |
|--------------------|-------------------|-----|-------------------|
| Annex              | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Brinckerhoff ES    | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Brinckerhoff ES    | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Brinckerhoff ES    | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Brinckerhoff ES    | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| District Office    | WS-C3750G-24T-E   | 1   | 1/31/2018         |
| District Office    | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| District Office    | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| District Office    | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Fishkill ES        | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Fishkill ES        | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Fishkill ES        | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Fishkill ES        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Fishkill Plains ES | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Fishkill Plains ES | WS-C3560-24PS-S   | 1   | 7/31/2015         |
| Fishkill Plains ES | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Fishkill Plains ES | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Gayhead ES         | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Gayhead ES         | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Gayhead ES         | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Gayhead ES         | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Gayhead ES         | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| James S Evans ES   | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| James S Evans ES   | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| James S Evans ES   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| John Jay HS        | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| John Jay HS        | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| John Jay HS        | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| John Jay HS        | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| John Jay HS        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| John Jay HS        | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| John Jay HS        | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| John Jay HS        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| John Jay HS        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| John Jay HS        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| John Jay HS        | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| John Jay HS        | WS-C2960-48TT-L   | 1   | 10/31/2019        |
| John Jay HS        | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| John Jay HS        | WS-C2960S-24PS-L  | 1   | Not Yet Announced |

| Building         | Model             | Qty | Last Day of Svc   |
|------------------|-------------------|-----|-------------------|
| John Jay HS      | WS-C3560-24PS-S   | 1   | 7/31/2015         |
| John Jay HS      | WS-C2960-24TC-L   | 1   | 10/31/2019        |
| John Jay HS      | WS-C2970G-24TS-E  | 1   | 10/31/2011        |
| John Jay HS      | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| John Jay HS      | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| John Jay HS      | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Kinry Road ES    | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| Kinry Road ES    | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Kinry Road ES    | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Kinry Road ES    | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Myers Corners ES | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Myers Corners ES | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Myers Corners ES | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Myers Corners ES | WS-C3548-XL-EN    | 1   | 7/27/2007         |
| Oak Grove ES     | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Oak Grove ES     | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Oak Grove ES     | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Oak Grove ES     | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| Oak Grove ES     | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| Roy C Ketcham HS | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Roy C Ketcham HS | WS-C3750X-48U-E   | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C3750X-48U-E   | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Roy C Ketcham HS | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Roy C Ketcham HS | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Roy C Ketcham HS | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2960-48TT-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Roy C Ketcham HS | WS-C2960-48TT-L   | 1   | 10/31/2019        |

| Building         | Model             | Qty | Last Day of Svc   |
|------------------|-------------------|-----|-------------------|
| Sheafe Road ES   | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| Sheafe Road ES   | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Sheafe Road ES   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Sheafe Road ES   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Van Wyck Jr HS   | WS-C3750-48TS-E   | 1   | 7/31/2015         |
| Van Wyck Jr HS   | WS-C2950G-48-EI   | 1   | 12/31/2011        |
| Van Wyck Jr HS   | WS-C3560-24PS-S   | 1   | 7/31/2015         |
| Van Wyck Jr HS   | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Van Wyck Jr HS   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Van Wyck Jr HS   | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Van Wyck Jr HS   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Van Wyck Jr HS   | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Vassar Road ES   | WS-C3560-48TS-E   | 1   | 7/31/2015         |
| Vassar Road ES   | WS-C2960-48TC-L   | 1   | 10/31/2019        |
| Vassar Road ES   | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C3560-24PS-S   | 1   | 7/31/2015         |
| Wappingers Jr HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C2960S-24PS-L  | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C3548-XL-A     | 1   | 5/30/2005         |
| Wappingers Jr HS | WS-C2960-48TT-L   | 1   | 10/31/2019        |
| Wappingers Jr HS | WS-C2960-48TT-L   | 1   | 10/31/2019        |
| Wappingers Jr HS | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C2960S-48LPS-L | 1   | Not Yet Announced |
| Wappingers Jr HS | WS-C2960S-48LPS-L | 1   | Not Yet Announced |

### Servers

The following servers support 99% of our day to day operations. These are the servers we would look to replace on the following schedule:

| Hardware            | Shipped Date | Refresh Date |
|---------------------|--------------|--------------|
| Dell PowerEdge R610 | 2010         | 2015         |
| Dell PowerEdge R610 | 2010         | 2015         |
| Dell PowerEdge R610 | 2011         | 2016         |
| Dell PowerEdge R710 | 2012         | 2017         |
| Dell PowerEdge R710 | 2012         | 2017         |

### Storage

The district currently uses 2 SAN storage arrays to support our day to day operations. This hardware will need to be refreshed on the following schedule:

| Hardware           | Shipped Date | Refresh Date |
|--------------------|--------------|--------------|
| Equallogic PS6000E | 2010         | 2015         |
| Equallogic PS6100  | 2012         | 2017         |

### **Interactive WhiteBoards**

The district currently has about 410 interactive whiteboards installed (as of February 2014) out of a total of 600 classrooms district wide. Each year we continue to add new devices in this category with the end goal of having an interactive device in every classroom. This initiative started nearly 10 years ago, so we must also make arrangements to revisit some of our earlier installations to ensure that the equipment is working properly, and to repair / replace when necessary. This task is ongoing.

For additional information please contact:

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