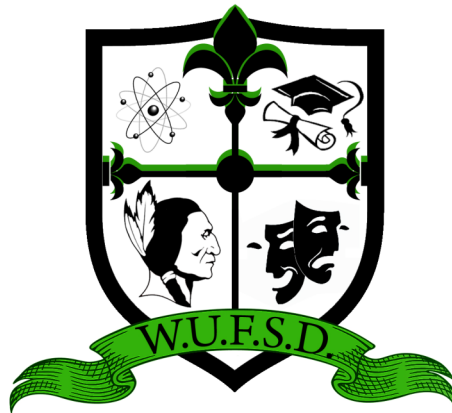


# DISTRICT TECHNOLOGY PLAN

## JULY 2010- JUNE 2013



## *Wyandanch Union Free School District*

### **Technology Vision Statement**

By systematically infusing technology throughout the curriculum, our students will acquire the necessary knowledge and 21<sup>st</sup> century skills to be successful in the present and the future. The WUFSD learning environment will embrace technology by teaching technology, teaching with technology and encouraging students to apply learned technology through everyday life.

# WYANDANCH UNION FREE SCHOOL DISTRICT

## 2010-2013

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## **WUFSD Vision Statement**

*When the children of Wyandanch depart the halls of each level of our institutions, they will be scholarly, imaginative, confident, competent and empowered change agents for the 21<sup>st</sup> century and beyond. They will possess a profound sense and command of their history, an expert proficiency in oral and written communication, the essential skills in mathematics and computer sciences, a comprehensive understanding of morals and ethics, a passion and love for literature and the arts and a fervent desire to be of service to mankind.*

*Our schools will have met their physical, emotional, social and academic needs so that they will want to attend the most prestigious colleges and universities in America. They will become builders and titans, revolutionaries, artists, scientists, entertainers, politicians, and entrepreneurs. They will not just exist in the world. They will forever change it!*

*Wyandanch UFSD Vision Statement,  
Adopted by the Board of Education, January 17, 2005*

## **Executive Summary**

### **WUFSD Plans:**

- Implement annual technology plan review process.
- Provide opportunities for an ongoing evaluation of the plan objectives by a cross-functional team of community, school, and central office staff.
- Launch the implementation phase of the plan with an Technology Fair in the fall of 2011
- Develop implementation plans in all areas of operations by allocating the appropriate resources, both human and financial.
- Develop the Library Media Advisory Committee to review and revise the strategic plan for the WUFSD Library Media Centers.

The WUFSD Plan is the third comprehensive strategic technology plan created by the WUFSD Schools since 1996 that addresses the technology infrastructure, service, and instructional needs of our schools and district. The first technology plan focused on building the district's technology infrastructure, from upgrading electrical systems to installing network connections in each school. The second technology plan, focused on the use of technology to support student learning and to improve communication, collaboration, and access to data for teachers, administrators, and families.

WUFSD is excited to begin the next phase of technology planning which documents the district's current technology projects and processes and provides a blueprint of the strategic plans from

2010-2013, leveraging the community's resources, technical, and human resources to support the district in achieving its goals to Improve student learning and close the achievement gap. The WUFSD learning environment will embrace technology by teaching technology, teaching with technology and encouraging students to apply learned technology through everyday life. The plan provides the framework for the technology foundation, vision, leadership, and support needed for the district to use technology as a tool to bridge the digital divide. The initiatives serve as a roadmap for WUFSD to provide all students, teachers, and staff with equitable, robust technology access and relevant, real-time information and resources to foster unique learning opportunities and spark educational innovation in every school, for every teacher and student.

The development of the WUFSD technology plan is the culmination of a comprehensive and inclusive strategic planning process that began in the Fall of 2009. Over 50 members of the WUFSD community, including students, teachers, staff, administration, families, and community partners, have participated in central stakeholder meetings, workshops and online surveys designed to gather information about the district's technology needs and goals for the WUFSD Technology Plan. The feedback received through these activities helps to identify the areas of greatest technology needs in our schools and central offices.

The district-wide technology needs assessment occurs in concert with WUFSD organizational planning process. The information gathered during the district-wide needs assessment informed the departmental strategic planning of the Office of Media, Information & Technology, as it worked toward identifying its strengths, weaknesses, opportunities for improvement, and upcoming challenges. Moreover the Technology WUFSD Survey – a customer satisfaction survey administered to all school principals, and teachers – and the District's Strategic Planning initiative taking place across all departments both inform WUFSD's own planning processes and will lead to significant changes and improvements in the way OMIT does business in the WUFSD.

The final WUFSD Technology Plan document is a result of a year-long process of on-going, thoughtful examination around the use of technology to improve teaching, learning, and operations in the district. The plan itself is a blueprint that aligns our internal resources and programs to make the most effective use of our limited resources in supporting the district's ultimate goal of improving student learning.

A core planning team consisting of district and professional staff developed the focus and framework for the WUFSD Plan based on feedback gathered during stakeholder meetings and focus groups and from research conducted on trends and best practices in educational technology in districts around the county.

To ensure that the planning process would be informed and supported by the Wyandanch community, local education and business leaders were invited to serve on a WUFSD advisory committee for a meeting to learn about the district's technology planning process and to offer their support for the plan's development. The committee continues to be informed about the progress of the plan.

As a living document, the WUFSD will continue to be continually revised and updated, to better serve as a roadmap for the district's technology infrastructure, support, and instructional projects through 2013. WUFSD's plan is a strategic roadmap, defining the district's technology needs while outlining strategies to achieve the district's technology goals.

The Office of Media Information and Technology provides many types of support to schools and central offices. The following table outlines the areas of support currently provided to schools and central offices with asterisk\* placed by new areas of support.

### **Support provided to schools and central offices**

#### **SCHOOL TECHNOLOGY INTEGRATION SUPPORT**

Support for the use and integration of technology across the school and in the classroom. Support the technology needs and goals of the school. Support/administer school-based technology programs including: Library/Media, Student Management Systems, Financial System, Special Education System, Software, After-school Programs

#### **CURRICULUM INTEGRATION SUPPORT**

Coordinate technology integration with curriculum department initiatives, including professional development, selection of curriculum and technology-related resources to enhance the curriculum, provide access to curriculum for diverse learners, including assistive tools and design strategies.

#### **PROFESSIONAL DEVELOPMENT**

Offer classic and advanced professional development opportunities centrally and at school sites. Collaborate with curriculum to incorporate standards into technology PD including technology training in both areas.

#### **NETWORK ADMINISTRATION MAINTENANCE**

Maintain the WUFSD infrastructure (WAN/LAN), including telecommunications, and installation of hardware and software.

#### **SECURITY SUPPORT**

Ensure the safety and security of all network resources and access for all teachers, students and staff in the district. Maintain security systems for email, Internet filtering, and network security. Ensure that all network and computer use is in compliance with state and federal law and the district's Acceptable Use Policy.

## HELP DESK SUPPORT

Support and monitor by phone, email hardware and software issues.

## \*EMERGING TECHNOLOGY SUPPORT

Research new and innovative trends in educational technology and support the design and implementation of emerging technology projects. Evaluate and determine applicability of requested projects.

### \*Libraries & Media Center

An area of support that is currently being provided to schools, but in need of greater attention is our Media Center. LaFrancis Hardiman Elementary school is currently without a Librarian. Support of school and library media centers through funding resources and materials centralized policies & procedures, information literacy curriculum, professional development, external partnerships. Support all libraries in ordering and purchasing of print and electronic resources, professional development. Library staffing at the elementary level is in critical need of resources.

## ACCESS TECHNOLOGY SUPPORT

Support the integration of assistive technology tools into the curriculum for diverse learners.

## \*COMMUNITY PARTNERSHIPS

Foster strategic partnerships with community and business organizations and higher education institutions to support design and implementation of technology initiatives in the district.

## FAMILY SUPPORT

Support the engagement of families into the learning experience of students through the application of technology and communication resources. Continue to work with departments to use technology as a way to share information and resources with families.

\* Recommended new area of technology support for WUFSD

## Technology Planning Committee

*Revised in January of 2009 The WUFSD Technology Planning Committee now consists of teachers, administrators, industry professionals parents, community members and board members. The committee was convened to review and update the 2010-2013 Technology Plan. Since that time, regular meetings have been held on a monthly basis. The following individuals have participated on the Technology Planning Committee on a regular basis:*

<u>NAME</u>	<u>TITLE</u>	<u>LOCATION</u>
Bruce Penn	Media & Comm. Coordinator	District Office
Annette Scheidler	ESL Consultant	Consultant
Sharin Wilson	IT Project Coordinator	District Office
Kevin Thornton	Computer Teacher	Memorial High School
Vinny Mangogna	Sr. Staff Consultant	District Office
Jay Marcucci	Director Of Technology	Westbury Schools
James Crawford	WUFSD BOE, Vice-President	Wyandanch UFSD
Annette Hicks	Teaching Assistant	Wyandanch UFSD
Tomeka Horton	Guidance Officer	High School
Erica Wall	Library Media Specialist	High School
Fred Zappola	Vice-President Core, CSDNET	Industry Professional
Denise Baines	WUFSD BOE, President	Community Member
Denise Gibbs	Asst. Superintendent WUFSD	Pupil Personnel
Aaron Holmes	Tech. Assistant	Community Member
Vincent Brown	Network Engineer	District Office
Russell Burnett	Sr. Vice-President for Technology	Industry Professional
BOCES Support Personnel	Eastern/Suffolk BOCES	BOCES

Through end of the year audits and surveys the technology committee will assess the progress of its specific goals and the frequency of its assessments.

## **About this Plan**

*Since 2003, the Wyandanch UFSD Board of Education has adopted a comprehensive technology plan. The plan includes goals and strategies for using telecommunications and information technology; educational technology goals; professional development; goals assessment, hardware, software as well as future technological endeavors, budget resources and plan evaluation. The plan meets the requirements of New York State's enhancing education through technology ( Title II D). We hope to further enhance our academic and social learning success by applying the following technology practices:*

- To provide a range of technologically enhanced learning environments.
- To support and further develop a technologically aware and creative faculty.
- To support and further develop a technologically aware and effective student.
- To integrate technology as a communication tool throughout the Wyandanch School District Community.
- To evaluate periodically the effectiveness and appropriateness of the Technology Plan.
- To foster an environment that provides opportunities for active, cooperative individualized and inter-disciplinary learning.
- To integrate technology into curriculum, instruction and assessment.
- To enhance both teacher and student communication skills and marketability.
- To provide the entire community with opportunities to become technologically literate.

*To further the vision and help achieve the mission, the Wyandanch School District designed a one year instructional technology integration plan to meet specific goals and objectives. Our goal is to further our district-wide K-12 curriculum objectives, the New York State Learning Standards and the International Education Technology Standards. The following goals and objectives were identified and are being continued and improved upon in the district's 2010-2013 Technology Plan. A number of these are currently in progress.*

1. **Extend and expand learning materials beyond the resources available within the school building** – We will continue to use the Internet to provide students with more up-to-date resource materials and a more interactive experience. Verified Internet sites will be provided to our students in order to monitor the accuracy of information.
2. **Provide a learning environment that will engage the students in realistic world events and problems** – Students will engage in online current events as they happen. Through technology we will bring the world into the classroom
3. **Provide a learning environment that supports the strengths and needs of individual learners** – Technology enables teachers to provide students with resources to meet their individual learning styles. This includes particular focus on students with special needs. Using learning experiences that engage critical thinking skills with various learning styles, the once uninvolved student shall become more engaged and interested with the encouragement and expertise of his teachers and peers.
4. **Prepare students for their future which has become a technological world** – Our vision is to prepare and set the foundations of our students for their adult lives by engaging them in a technologically induced learning environment. It is essential that students are proficient in 21<sup>st</sup> century technology skills as technology is a part of the work, academic and home environment
5. **Enable parents and other community members to become more active in their child's education** – We will cultivate a home /school partnership. Through the use of a web-based parent portal, parents and guardians will be able to build a more effective home/ school communication. Through email and the WUFSD website, parents will be more readily notified of school events and activities.
6. **Expand and extend technological professional staff development for teachers and staff** - Professional development in the area of technology and the integration of such within the curricula will be provided to teachers and staff on a monthly basis to ensure our students and the community, receive continued support for enriched project-based learning activities.
7. **Implement student management system district-wide** – Through the continued use of Infinite Campus report cards and progress reports will be maintained on a district-

wide system. Individual Educational Plans will be implemented through a new student management system (I.E.P. Direct).

8. **Implement Email addresses for teachers, students, staff and parents**– Email addresses will now be provided for parents as well to enhance communications with parents and community.
9. **Develop a district technology budget** – The technology budget will allow the district to provide the technological expertise to maintain all computers in proper working order and regularly upgrade hardware and software. It will assist in offsetting expenditures relating to workshops, equipment, software and provide the district the opportunity to become a model technological integrated school district.
10. **Create and implement a technology club within each building** – Our vision is to provide our students with the best available resources to become leaders in a technological world. Students will have the opportunity to extend and expand their technology training beyond the classroom through the implementation of a technology club. Each building will provide appropriate skills and activities that will provide interested students the opportunity to broaden their technological education to a higher level.
11. **Coordinate an Annual Technology Fair**- Our vision is to provide students, teachers, parents and community the opportunity to meet with industry technology professionals, colleges and business leaders. This will afford the opportunity for students to explore the vast career opportunities in the field of technology as well as bridge school-to-work partnerships.

### **INTERNET CONTROL FILTERING** (see Appendix G for details)

In accordance with the provisions of the Children’s Internet Protection Act (“CIPA”), the District requires that all District computers with Internet access be equipped with filtering or blocking technology which will, at a minimum, block or filter Internet access for both minors and adults, to visual depictions that are obscene; child pornography; and for computers used by minors with Internet access, harmful to minors. The district currently utilizes the Baracuda Filter System.

URL for acceptable Use Policy:

**[http://www.wyandanch.k12.ny.us/docs/tech\\_plan.doc.pdf](http://www.wyandanch.k12.ny.us/docs/tech_plan.doc.pdf)**

## **GOALS**

Technology is one of the essential tools used to allow children the ability to acquire necessary knowledge and 21<sup>st</sup> century skills to be utilized in the present and future. Incorporated technology across the curriculum will enhance student learning by providing an instrument in problem solving, communication and creativity. The WUFSD learning environment will embrace technology by teaching technology, teaching with technology and encouraging students to apply learned technology through everyday life.

We believe our district has made tremendous strides in technology as it relates to student achievement. With much of the infrastructure in place, our primary focus is on the ISTE's NETS. (see Appendix A)

The WUFSD vision statements include integration, staff development, telecommunications, infrastructure, co-curricular activities and administrative considerations. Below is a description of the technology visions included in the 2003-2006 Technology Plan and further instituted in the 2010-2013.

### **Goal One (1) – Integration of Technology**

#### **Goal 1A: Use project-based learning incorporating student publications:**

- Use creativity and productivity software
- Identify and select software equitably and with on-going re-evaluation
- Implement collaborative teacher-teacher, teacher-student planning, mentoring and technical assistance
- Develop research and writing skills

#### **Goal 1B: Research-based learning through data collection:**

- Search and explore the Internet
- The IT Project Coordinator will maintain a directory of sites
- Establish collaborative tools for communications (i.e. email, video conferencing and wireless technology)

**Goal 1C: Simulations and enhanced lab investigation:**

- Select and re-evaluate software
- Select and re-evaluate hardware accessories
- Integrate web-based simulations in curriculum

**Goal 1D: Use technology to develop higher order thinking skills:**

- Select and re-evaluate productivity software
- Search and explore the Internet

**Goal 1E: Coordination of Interdisciplinary Learning:**

- Integrate and align computer curriculum resource guides

**Goal 1F: Use digital portfolios and assessments in High School:**

- Select and acquire appropriate hardware and network software
- Improve electronic communications among servers in district
- High School principal will examine quality of students' work especially in PBL as an assessment and to evaluate teaching to make adjustments or changes. Attendance will be maintained by the TMI Center as teachers are required to sign in each session. An electronic attendance file is then created and stored in the District's database.

**Goal 1G: Create libraries that function as "digital gateways":**

- Provide access to word processing programs, electronic database and the Internet
- Digitize library circulation procedures

## **Goal Two (2) - Staff Development**

### **Goal 2A: Integration of technology to enhance instruction:**

- Share tools
- Share via grade/department level
- Develop school-college-community partnership

### **Goal 2B: Project-Based Learning:**

- Train all teachers in the development and implementation of project-based learning through the Technology Office and Institute of Student Achievement partners.
- Maximize regional, state and national resources (e.g. universities, and museum projects)

### **Goal 2C: Expansion of repertoire of technology skills:**

- Through the technology office, Media Coordinator, Project Coordinator and technicians will jointly train teachers in use of hardware, software and the Internet
- Train teachers in effective management of networked computer classroom (e.g. centers, variety of teaching strategies)
- Provide continuous training throughout the year to address teacher turnover
- Encourage teachers to read current literature on use of technology in the classrooms and experiment with those strategies
- TroubleTrakker on-line system will provide basic self-help skills for troubleshooting on an ongoing basis.

### **Goal 2D: Ability to use skills and content software:**

- IT Project Coordinator will train teachers on software through webinars on an as-needed basis.

**Goal 2E: Screening and selection of most appropriate software:**

- This is headed by the Media & Communications Coordinator and IT Project Coordinator

**Goal 2F: Adaptability to technological improvements:**

- Encourage regular use of email and research on the Internet
- Encourage the use of wireless telecommunications (e.g. ipod for podcasting)

**Goal 2G: Student management systems:**

- Provide training to implement student management systems (e.g. progress reports, report cards, web-based reports)

**Goal Three (3) – Telecommunications****Goal 3A: Familiarity and comfort with telecommunications:**

The Library Media Specialist in Jr / Sr High School will:

- Provide venues for learning basic and advanced skills
- Provide instructions in locating and using primary electronic resources
- Provide instructions in citing electronic resources

**Goal 3C: Incorporate a variety of distance learning resources including linking to current events through satellite technology and educational television.**

- Using the V-Brick system and teleconferencing mobile carts

### **Goal Four (4) – Infrastructure/Hardware**

#### **Goal 4A: Network computers and appropriate support in every classroom:**

- Maintain all computers in proper working order and regularly upgrade hardware and software
- Expand reliable and accessible technical support (e.g. web designer)
- Allocate additional systems operators time as necessary
- Maintain electronic archival system to provide tech support, email retrieval and data restoration

#### **Goal 4B: Provide every classroom with a bank of five (5) computers and provide large display monitors on an as-needed basis.**

#### **Goal 4C: Maximize the placement of computers in every student's home:**

- Survey our school community to determine who has access to computers and email at home
- Seek corporate donations and grants by District grant writer
- Provide parent training and Internet Safety Awareness in collaboration with community library and Suffolk County Police Department.
- Encourage the use of computer facilities at the public library

#### **Goal 4D: Create digital studio for specific instructional needs.**

### **Goal Five (5) – Co-Curricular Activities Infrastructure/Hardware**

#### **Goal 5A: Open access to students on a daily basis:**

- Provide school monitors network computers and appropriate support in every classroom
- Maintain all classroom computers in proper working order and regularly

**Goal 5B: Provide every classroom with a bank of five (5) computers and provide large display monitors on an as-needed basis.**

**Goal 5C: Summer Projects:**

- Create activities and projects for current students and/or recent HS graduates looking to gain technology field experience, build their resume or earn college credit. This will be overseen by Pupil Personnel Services Administrator. Time frame is June-August.
- Appoint instructors

**Goal 5D: Student Centered Technology Initiatives:**

*Goal: Develop a comprehensive menu of student-centered technology initiatives that foster unique learning opportunities for students and help prepare them for success in the 21st century*

- Forge business partnerships (e.g. Ford Pass Partnership, internships )

It is the goal of WUFSD to partner with local business to hire talented technology students to work on web design and computer support technology projects for clients under the supervision of experienced professionals. Participating students obtain real-world experience while developing their technology skills and additional “employability skills” such as developing project plans, interpersonal and communication skills.

- Technician Apprentice Program (TAP)

Implement a Tech Apprentice Program that places high school juniors with advanced tech skills in high-level IT industry summer internships, beginning with 3 students in Year 1 and progressing up to 10 students by Year 3. Place high school students in technology-related jobs during the summer and after school, beginning with 10 students in Year 1 and progressing up to 50 students by Year 3.

- Macintosh Across Campus (MAC) Program

Continue to support Wyandanch High School graduates now entering college who display a need for a desktop computer. This loaner program is aimed primarily at students living on campus who are in good academic standing.

## **After School & Technology**

WUFSD looks to bring together technology staff and after school program staff to expand opportunities to infuse technology into the WUFSD after-school programs. The OMIT will survey existing after-school programs to identify points of intersection and work with after-school partners, such as GEAR UP, SNAP, CARR to explore models and best practices for infusing technology projects into WUFSD's after-school programs.

Empower-Tech Project- This Microsoft Certification Program will provide professional development and training for teachers that will lead students to Microsoft Certified Specialist (MCSE). Future plans are to implement numerous advanced technology areas, such as:

- Advanced Placement Computer Science
- Web Development
- Cisco Networking
- Cisco IT Essentials
- Microsoft Office Specialist
- Robotics

- (This program is accessible to staff, students and community)

### **Goal 5E: Continuing outreach to the parent and adult community:**

- Provide computer access to the community

### **Goal Six (6) – Administrative Considerations**

#### **Goal 6A: Personnel, staff development, materials and supplies to support computer technology:**

- Plan annually to ensure equal access for all students
- Develop a well-planned annual technology budget
- Prioritize repair and replacement of hardware and software on an as-needed basis and subject to budget availability
- Expedite troubleshooting to ensure great reliability (e.g. Trouble Trakker online help system)

**Goal 6B: Student Management System:**

- Provide access to students and parents to student progress reports
- Implement a network student portfolio database
- Research and develop computerized report cards and progress reports through Infinite Campus System.
- Scholarchip
- ConnectEd
- IEP Direct
- Infinite Campus
- WinSnap
- Transfinder

**Goal 6C: Communication among all members of the school community:**

- Web Developer will create and maintain web pages for each school and district website. Teachers will submit content subject to Media & Communications Coordinator approval
- Provide comprehensive information for smooth school to career transition
- Provide comprehensive college admissions information through Guidance Dept

**Goal Seven (7) – Security**

***Goal: Provide a secure and safe learning environment for students and staff through education and protected access to network resources.***

Over the past five years, staff and students in the district have drastically increased their use of Internet resources to support their teaching, learning, and operational needs. They are taking advantage of Internet resources like e-mail, external websites, and network drives, to access and share information. On any given day, approximately 5,000 emails are processed across the network and more than 3,000 users access the district’s website to inform the day-to-day work of the district.

Staff and students' increased use of network resources provides more opportunity for exposure to potentially harmful and inappropriate material online: SPAM, viruses, "phishing" scams, hackers, worms, and a plethora of other malicious devices are being unleashed on Internet users on a daily basis via email, websites, and unauthorized network and local access to technology resources. Though many online resources provide invaluable content to users, many others pose great threat to the security and safety of our students and staff. While impossible to easily distinguish between all valuable and all inappropriate websites and e-mails, E-Rate guidelines and the Children's Internet Protection Act (CIPA) provide regulations on what material must be prohibited in schools to protect staff and students. In compliance with these regulations, the Office of Media and Technology employs website filtering and e-mail monitoring software for the whole district. On a daily basis, approximately half of the e-mails sent to WUFSD accounts are filtered out because of potential security risks, one of many activities that occurs behind-the-scenes at OMIT to help protect the district's staff and students.

The OMIT, will be employing the following strategies to help protect our students, our staff, and their data and information:

**Strategy 1:** Strengthen network security for all users and implement industry-level security standards.

**Strategy 2:** Provide high-level security and encryption for all files and data on the network.

**Strategy 3:** Update security processes and the district's Acceptable Use Policy.

**Strategy 4:** Implement standards for password security measures for staff and students.

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## **Strategy 1: Strengthen network security for all users and Implement Industry-level security standards.**

### **Current State 2009-2010:**

The Office of Media, Information & Technology uses a suite of "best-of-breed" tools and services to protect the district's staff, students, and information from internal and external security threats. These services ensure that the district is in compliance with the CIPA and E-Rate funding guidelines and they help the district monitor, prevent, and respond to malicious activities on the network.

The services currently in place are:

Service	Description
WebSense Filtering Software	Allows for the central management of website access by computers on the WUFSD network to ensure the safety and security of all of our teachers, students, and central office staff. Ensures compliance with E-Rate guidelines and the Child Internet Protection Act (CIPA) concerning Internet safety and technology protection.
E-mail Filtering for Spam and Viruses	Identifies potentially harmful or fraudulent e-mails being sent and to WUFSD e-mail accounts and prevents the mail from being delivered until screened for content.
Central Virus Monitoring and Definition Updates	Detects viruses on any computer connected to the WUFSD network and assists in locating and removing the threat to others in the district. Maintains up-to-date virus definitions for all WUFSD computers connected to the network. Allows for the central management of virus updates, improving the district's ability to protect its' computers from harm and reducing the load placed on network bandwidth from distributed virus updates.
Data Storage and Backup	Provides the district with secure, central storage of all confidential employee and student data. Ensure redundancy and backup of all essential information.

These services have improved the district's ability to prevent and respond to security threats to our users and our data and information. Additional services are being explored and adopted to respond to the growing need for stronger security against attacks on our systems and upon our students and staff.

### **WUFSD Plans:**

- Conduct a security audit of current systems to identify gaps and areas for improvement.
- Continue to monitor inappropriate websites with WebSense Filtering Software.
- Continue to provide protection against Viruses, spam, and other security threats for all computers on the WUFSD network.
- Remove the generic student account in phases, beginning with high schools and middle schools, and provide students with unique usernames and passwords.
- Provide additional training for teachers on the use of their network H drives, to encourage greater usage of secure network storage solutions.
- Strengthen the Storage Area Network (SAN) to ensure secure and redundant storage of staff and student information.
- Develop plan for a disaster recovery system.

- Collaborate with WUFSD Legal team to explore the development of a formal incident reporting process and system that involves tracking, monitoring, response to, and documentation of all network security incidents.

### **Strategy 2: Provide high-level security and encryption for all files and data on the network.**

#### **Current State 2009-2010:**

To be developed ...

Each year, staff and students increasingly use the district's secure network drives to store critical work and confidential employee and student information.

#### **WUFSD Plans:**

- Ensure compliance with all state and federal regulatory guidelines concerning storage of confidential employee and student data.
- Provide backup and redundancy plan for all network servers.

### **Strategy 3: Update security processes and the district's Acceptable Use Policy (AUP)**

#### **Current State 2009-2010:**

Each September, at the start of the school year, all staff and students sign the district's Acceptable Use Policy. All WUFSD network users sign this document before being able to access the Internet from within the district. The Acceptable Use Policy was first created by the district's technology offices with input from teachers, staff, and the district's legal office and is designed to ensure compliance with CIPA and federal guidelines concerning with appropriate use of Internet resources within our public schools.

In addition to the Acceptable Use Policy, the district will begin working with I-SAFE America Inc. to provide standards-based, globally-recognized Internet Safety education to all of our staff, students, and families with i-SAFE's free Internet safety lessons. WUFSD Office of MIT conducts in-house Internet safety workshops for parents in conjunction with our local Child Abuse Protection Service Agency.

The program is composed of six online education video modules, which address personal safety, cyber-community issues, cyber-predator identification, cyber-security, intellectual property and community outreach. Each module is designed to educate the user to effectively combat cyber-crime.

### **WUFSD PLANS:**

- Include staff, teachers, students, and families in the creation and regular revision of the district's Acceptable Use Policy.
- Certify interested teachers in i-Safe curriculum.
- Appoint a WUFSD high school student to the national netsafe student advisory board.
- Hold a district-wide internet safety campaign & poster contest.

### **Strategy 4: Implement standards for password security measures for staff and students.**

#### **Current State 2009-2010:**

Currently, all WUFSD employees have their own user accounts, with which they can access district network resources such as e-mail, and network drives. In addition, there have been over 500 student network accounts created, which allow students to access the network using their secure usernames and passwords, instead of relying on a generic account to log on to the district's network.

Allowing users to set their own passwords, establishing password case-sensitivity, and ensuring strict periodic password expiration provide greater network security for all staff and students in the district. Passwords that may be inadvertently compromised can be changed quickly and easily by users, preventing unauthorized access to the network. Currently, students have the ability to change their passwords, making them easier to remember and more secure than assigned passwords that can be misplaced or stolen. OIIT staffs are currently in the process of designing a system that will allow teachers and staff the ability to change their own passwords through Microsoft Active Directory. Once this is in place, employees will be able to change their passwords as needed, which ensures greater security of their personal network resources and of the entire network as a whole.

## **WUFSD Plans:**

- Implement Active Directory.
- Provide teachers and staff with the ability to securely change their WUFSD passwords through Active Directory.
- Implement periodic password expiration to oblige users to change their passwords and to limit the risk of compromised passwords.

### **Goal Eight (8) – Online Communication and Engagement**

Online learning opportunities provide another means for students to learn advanced technology literacy skills. Online learning is pervasive in the post-secondary education experience. WUFSD plans to pilot Odysseyware an online learning environment to increase student achievement as well as integrate technology into the classroom. Improving access to online learning opportunities will boost students' technology literacy skills

***Goal: Facilitate online communication and collaboration across the district and with families by enhancing available technology tools and resources.***

WUFSD is committed to using technology to communicate, collaborate, and share resources. In 2003, WUFSD began providing access to a secure, web-based email system for staff, and later, for students, to communicate and share information throughout the district. The Webmail interface allows staff and students to access their email from any computer – anywhere, anytime. Each year, more staff and students take advantage of the system to communicate and collaborate. As a result, demand throughout the district is continually rising for access to more advanced technology tools to communicate and share information.

WUFSD district learned a great deal about collaborative online workspaces, and how they can improve education and operations throughout the district, when appropriately supported. The WUFSD technology plan will break new ground by outlining a vision for a web-based, Intranet portal, called MyWUFSD, designed to become the vehicle that unifies all WUFSD constituents in the improvement of student achievement by using technology to deliver educational tasks.

With the creation of the MYWUFSD Community outlines a 3-year strategic implementation plan to include the following results:

- Moving towards a Paperless Environment
- T.O.T.E. -Technology on the Edge Program to engage families

- Expand access to educational and curriculum resources via web-based tools (Odysseyware)
- Assembling Student Portfolios
- Enhanced new features on parent portal (on-line scheduling, web-calendars, discussion forums)
- Create MYWUFSD Community (self-service technology)

Online courses provide teachers with the flexibility to participate in professional development from any location, at any time during the day, with face-to-face support available in the district to help them in their coursework.

A blended model of online and face-to-face support also enhances the ability to further partnerships between the technology and curriculum departments within the district.

Before being able to provide widespread access to online courses to teachers, the district must first adopt an online course management system, Odysseyware that provides an easy-to-use, secure, and reliable environment in which courses can be developed, managed, and delivered to teachers throughout the district.

**WUFSD Plans:**

- Expand online course offerings through partnerships between all content area curriculum departments, and through partnerships with external organizations like local colleges.
- Expand training opportunities through online and face-to-face courses to more teachers in the district.
- Build capacity through the online tools for teachers and staff to design, deliver, and facilitate their own online courses.
- Evaluate and adopt an online course management system Odysseyware to meet the online learning needs of our teachers and students.
- Collaborate with the Office of Media, Information and Technology or local Boces for Professional Development to develop and implement an online professional development catalog and course registration system.

## **Technology Inventory Status**

The 2003-2006 Wyandanch Technology Plan included a survey of existing technology equipment within the district along with a description of technology needs and assumptions for the future acquisition of hardware and software. At the time the technology inventory was conducted in 2003, the inventory of existing equipment in the classrooms was deemed to be obsolete and “unfixable” based on BOCES microcomputer repair standards.

In January 2005, the district retained the services of an outside provider to update the district’s computer equipment inventory for fixed asset management purposes. The findings of this review indicated that with the exception of three new Gateway computer labs that were just recently installed during the 2004-2005 school year, and two mobile labs at Milton Oliver, the inventory of existing computer equipment within the district is considered to be “functionally obsolete” as it exceeds the five year life expectancy used for depreciation and fixed asset management calculations.

The most recent audit was conducted January 2009 by the TMI Center and independent auditor. The results of this survey validate and support the findings of the fixed asset inventory study that was conducted in January.

### **Appendix B**

provides an updated inventory of equipment currently in the district as of April 1, 2009.

### **Appendix C**

provides an updated inventory of software currently in the district as of April 1, 2009.

## **Technology Implementation Status as of April 2, 2010**

Since the February 2009 Technology Dept's restructuring into the Office of Media, Information & Technology several activities have been initiated, are in progress or completed. These initiatives have been completed:

- V-Brick System
- Video Conferencing Smart Carts
- Fiber Optic Telecommunication System (LIFE)
- Cisco Phone System

### **Initiation of Comprehensive Project Tracking System:**

On April 15<sup>th</sup> 2009 a project tracking system was implemented by The Technology, Media and Information Center to track progress and provide accountability with respect to requests for technology support and new work requests. The more user-friendly system is Trouble Trakker- a web based system replacing the outdated help desk email method.

### **Creation of District-Wide Website:**

In March, a website developer designed a new, user friendly, interactive and creative district website which was launched October 6<sup>th</sup> 2009. Several innovative features included a parent portal, student showcase page, and special events calendar with live weather and RSS feed. This replaced the outdated, unattractive and bland website which previously existed.

### **Re-establishment of Business, Community and Political Relationships:**

As an ongoing mission we hope to continue to build strong relationships with the surrounding communities to aid in our campaign of providing cutting edge technology to the Wyandanch community. By attending technology seminars, conferences and other local and regional events, we are in touch with those leaders concerned with the future of educational technology.

### **Annual Technology Fair:**

In February 2010 WUFSD held its first technology fair. This exposed teachers, students, parents and community to the benefits, importance and availability of 21<sup>st</sup> century technology skills. The Technology, Media and Information Center met with several technology educators and leaders where they were met with an enthusiastic response, support and commitment. Several hundred students from each school participated in digital gaming competition, robotics and student work and presentations.

### **Teacher/Administrative Technology Use Survey:**

Designed by the OMIT Center this survey was designed to assist the district in setting immediate and long-range goals in the areas of technology integration into the curriculum, staff

development, and technology acquisition. Results are currently under review. (see Appendix E) Student/ household surveys are also being conducted.

### **Administrative Applications**

The district will increase the use of electronic communication in an effort to reduce costs and conserve resources. Specific administrative applications that also support the educational process projects are listed below.

1. Improve district website navigation and content.
2. Implement parent portal at the secondary levels.
3. Implement IEP Direct student management system.
4. Implement ScholarChip security and building attendance notification system.
5. Support BOCES shared data expert & data teams in use of Infinite Campus and Data Mentor data and reports.
6. Document new practices for a Disaster Recovery plan and procedure.
7. Monitor WAN/LAN network bandwidth and capacity. Increase to accommodate new installations.
8. Monitor data storage and backup capacity. Plan/Increase accordingly.
9. Investigate more efficient email archiving solutions. At present WUFSD utilizes a rotating tape carriage system.

In addition to the specific projects above, the district utilizes two core administrative applications for daily operations. Infinite Campus is the primary Student Information System and WinCap is the Finance & Human Resources system.

**Infinite Campus** is used as the primary data source for the following areas:

Central Registration  
 Attendance (daily & secondary period by period)  
 Student Scheduling  
 Grade Reporting

Transcripts  
State Data Reporting  
Parent Portal Communication

**WinCap** is used as the primary data source for the following areas:

Budget Development  
Accounting  
Purchasing  
Payroll  
Personnel

### **Applications via Staff Development**

In April 2009 meetings and discussions with building principals and leadership committees were held to identify specific technology integration initiatives, software requirements, and staff development needs in all of the buildings. IT Project Coordinator will provide training. Some of the current staff development topics include the following:

- Proven software programs including; Jamestown, BrainPop, Read 180, Eduware
- Learning To Use Computers On The Network
- Using Email As An Effective Communications Tool
- Microsoft Office 2003 applications – Word, Excel, PowerPoint, Publisher
- Gradebook set-up
- Developing a program for life skills
- District licensing protocol
- Using Video On Demand (e.g. V-Brick system)

## **Assessment of Wyandanch Technology Environment**

In July 2009 the OMIT staff convened to discuss possible upgrades, renovations and methods of implementation with regard to the technology environment of the WUFSD. Staffing assumptions, support and professional development for district faculty was also discussed. A report was created and reviewed by the Assistant Superintendent for PPS. The 2010-2013 Technology Plan outlines the results of these meetings and goals and plans for the district.

During the period of November and December 2008, information on the technology environment was collected and reviewed by the Media and Communications Mgr. and Independent Technology Auditor and an assessment of the current technology environment, including network and hardware infrastructure, software, staff development and technical support practices and adequacy was conducted. Prepared 12/17/08, the WUFSD Tech Report was submitted to the BOE and Interim Superintendent, Dr. Mary Jones. The following represents a more extensive summary of findings from this assessment.

The Wyandanch IT infrastructure, originated in 1997 has evolved over a period of years. The district has utilized several different vendors throughout the years to provide day-to-day technology maintenance and support. The district has been in maintenance mode for the past several years and has been operating without the benefit of a long range strategic plan and maintenance schedule to support network infrastructure, upgrades and growth. The network is in need of ongoing redesign to correct existing flaws in DNS, active directory and other conditions which hinder the district's capacity to make use of technology to facilitate the deployment of workstations through imaging. There are no automated daily tape back-up capacity to support instructional and administrative users with respect to data storage, management and recovery. However, there is some DAT back-up. User profiles, drive/directory mappings have been reset to better provide appropriate access rights and restrictions. Some file storage occurs at the desktop rather than server level making it difficult to service workstations through routine imaging. Data backup, recovery, off site storage and disaster recovery provisions are not yet fully in place.

The Wyandanch UFSD has two main campuses, one consisting of two elementary schools, grades K-2 and grades 3-5 respectively and district office. The second campus consists of the middle school and high school. To resolve the bandwidth dilemma, and in preparation for the 2005-2006 E-Rate submission, alternative fiber-based wide area network solutions from three separate companies were investigated and installed in December 2008.

The network is broken down into four domains. Each of the sixteen servers within the district is also configured as a domain controller. There are known replication problems between the district's sixteen domain controllers and DNS servers which contribute to users having difficulty when logging on to authenticate. The condition also contributes to demonstrated problems in imaging computers in that servers cannot be found by name. Also, several other concerns required attention such as:

- Open network-subject to security breaches

*Solution: In September 2009 several network security companies have visited, assessed and made recommendations to WUFSD with regard to cost efficient safeguards. These are currently under review.*

- Under-utilization of technology (e.g. smartboards, Vision system)

*Solution: In November 2009 additional smartboard training was offered to the district teachers. This is ongoing professional development for technology. The Vision system has been upgraded to run more efficiently.*

- Repurposing and reuse of older technology

*Solution: In September 2009 The MAC (Macintosh Across Campus) Program was launched to assist qualifying recent graduates now entering college and living on campus. The loaner program has assisted these freshman remain competitive on campus through the use of these desktop computers.*

- Lack of innovative technology (e.g. podcasting, digital studio, web programming)

*Solution: In October 2009 Digital Studio 45 was launched to introduce digital broadcasting education to the MLO middle school. The program has been successful as ten students have created innovative projects including; commercials, PSAs, and programming. In addition, a team of High School teachers have assembled to create Core Curriculum Podcasts.*

- Lack of Disaster Recovery Plan

*Solution: In October 2009 several companies performed an on-site assessment of DRP and offered several viable recommendations.*

- Separate server for Mac labs for peak performance

*Solution: In September 2009 a new Mac X-serve was installed and has increased the Mac Lab's performance and storage capacities.*

It is anticipated that further review and approval will be completed by July 2010. Following a careful analysis of each of the proposals and a review of projected cost assumptions, recommendations with respect to the implementation of these new initiatives to support the district's technology goals will be made to the TMI Committee, the Superintendent of Schools and the Board of Education.

## **Technology Equipment Assumptions**

A comprehensive proposed Technology Budget for the period of 2010-2013 has been developed based on the updated assumptions from the District OMIT Planning Committee. The proposed technology budget (included in the appendix) represents a consolidated, comprehensive set of requirements and funding assumptions for implementing and supporting technology on a district-wide basis.

### **Assumptions**

#### **Equipment:**

- Every classroom has a teacher workstation.
- Classroom computer ratios are one computer for every five students.
- Special Education computer ratios one computer for every three students.
  - In a 15-1-1 class, there will be five classroom computers
  - In a 12-1-1 class, there will be four classroom computers
  - In an 8-1-1 class, there will be three classroom computers
- Resource room computer ratios will be one computer for every five students. Typically Resource Rooms have approximately five students in a class. Therefore the average resource room will have one computer to accommodate five students. Math rooms can have as many as eight students. In these classes, there will be a maximum of two computers.
- Labs and libraries should be configured to accommodate a full class size to a maximum of twenty-seven to thirty computers.
- Mobile carts consisting of eighteen to twenty laptops should be used to provide opportunities for whole group instruction and as a substitute for fixed labs. Initial configurations are based on one cart per floor in each building and will be increased over time as teacher technology proficiency levels and demand for use increases.
- Color laser printers will be networked in all classrooms to support instruction.
- High speed color laser printers will be networked and located in the labs and libraries and accessed by classrooms. Initially, there will be a minimum of two high speed printers for each lab and library. The district will investigate the use and cost of key-coded,

networked, high speed color laser copier/printers distributed in centralized locations in the future.

- Teacher presentation monitors will be located in each classroom to provide presentation capabilities and make use of the new video-on-demand equipment most recently installed in the district. \*
- Scanners will be distributed throughout the buildings initially at the same ratios as the high-speed color laser printers. As teachers become proficient in the use of technology and demand increases, scanners will be located in individual classrooms.
- Smart boards will be available at the ratio of two per grade level for a total of 26. As teachers become proficient in the use of technology and demand for use increases, additional Smart boards will be acquired on an annualized basis. \*
- LCD Projectors will be available at the ratio of two per grade level for a total of 26 to complement each of the Smart boards. As teachers become proficient in the use of technology and demand for use increases, additional LCD projectors will be acquired on an annualized basis. \*
- Digital cameras and digital video cameras will be available at the ratio of two per grade level for a total of 26 each. As teachers become proficient in the use of technology and demand for use increases, additional digital cameras and digital video cameras will be acquired on an annualized basis.
- Video conferencing capabilities will be provided to each of the buildings at a rate of one video conferencing cart per building. The district will investigate the costs and benefits of expanding the existing video on demand system that was just recently installed in the district to provide video conferencing capabilities in the classroom.
- Digital Broadcasting Studio 45 will continue to operate within a district school (currently housed at the MLO school- room 45). This studio has been the base station for student creation and production of PSA's, commercials, district news delivery and other creative projects.

*\*The proposed budget contains cost assumptions for monitors, LCD projectors and Smart boards. An integrated solution which provides television capabilities to the teacher and student workstations and teacher presentation capabilities is also being considered as an alternative to installing monitors in each of the classrooms in order to provide video on demand and teacher presentation capabilities. Under this scenario, each workstation would contain a WIN TV PCI board to provide video and cable TV capabilities. Each classroom would have an LCD projector for presentation purposes instead of a full monitor. Smart boards would be phased-in to the classrooms as teacher proficiency levels increase.*

Projected equipment counts that are included in the 2009-2010 proposed budget are based on the following information provided by each of the buildings:

**TABLE A: Classroom Count Assumptions:**

<b>Classroom Counts:</b>										
<b>Bldg</b>	<b>Library</b>	<b>Labs</b>	<b>Spec. Lab</b>	<b>Classrooms</b>	<b>Teacher WS</b>	<b>RR Teachers</b>	<b>15-1-1</b>	<b>12-1-1</b>	<b>8-1-1</b>	<b>Office Computers</b>
LFH	1	1	1	25	0	16	2	1	1	2
MLK	0	1	1	28	28	16	3	0	2	3
MLO	1	1		46	46	3	3	1	2	17
MHS	1	0		42	42		6	2	2	5

Comments:

LFH already has a new Gateway lab.

MLK already has a new Dell GX280 lab

MLO already has a new Gateway lab.

MHS already has a new Gateway lab.

The following projected equipment counts are based Table A and the Technology Planning Committee assumptions. It is assumed that additional scanners, smart boards, cameras etc. will be acquired and introduced over time as teachers become proficient in utilizing the technology. The district will also pilot and experiment with other technology initiatives including the use of palm pilots, tablet PC's, and one-on-one computing. Based on the results of these pilots, additional equipment will be recommended by the Technology Committee for further consideration.

**Table B: Projected Computer Requirements:**

<b>Projected Computer:</b>											
<b>Bldg</b>	<b>Library</b>	<b>Labs</b>	<b>Spec. Lab</b>	<b>Classrooms</b>	<b>Teacher WS</b>	<b>RR Teachers</b>	<b>15-1-1</b>	<b>12-1-1</b>	<b>8-1-1</b>	<b>Office Computers</b>	<b>Total</b>
LFH	22	0	12	125	0	16	10	4	2	2	193
MLK	0	0	18	140	28	16	15	0	4	3	224
MLO	27	27		138	46	3	15	4	4	16	280
MHS	27	0		126	42	0	30	8	4	5	242
<b>Total</b>	<b>76</b>	<b>27</b>		<b>529</b>	<b>116</b>	<b>35</b>	<b>70</b>	<b>16</b>	<b>14</b>	<b>26</b>	<b>939</b>

**Table C: Projected Monitor Requirements: \***

<b>Projected Monitors:</b>											
<b>Bldg</b>	<b>Library</b>	<b>Labs</b>	<b>Spec. Lab</b>	<b>Classrooms</b>	<b>Teacher WS</b>	<b>RR Teachers</b>	<b>15-1-1</b>	<b>12-1-1</b>	<b>8-1-1</b>	<b>Office Computers</b>	<b>Total</b>
LFH	1	1	1	25	0	0	2	1	1	0	32
MLK	0	1	1	28	0	0	3	0	2	0	35
MLO	1	2		46	0	0	3	1	2	0	55
MHS	1	2		42	0	0	6	2	2	0	55
<b>Total</b>	<b>3</b>	<b>6</b>		<b>141</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>177</b>

**Table D: Projected Classroom Printers:**

Projected Classroom Printers:											
Bldg	Library	Labs	Spec. Lab	Classrooms	Teacher WS	RR Teachers	15-1-1	12-1-1	8-1-1	Office Computers	Total
LFH	0	0		25	0	16	2	1	1	1	46
MLK	0	0		28	0	16	3	0	2	3	52
MLO	0	0		46	0	3	3	1	2	17	72
MHS	0	0		42	0	?	6	2	2	5	57
<b>Total</b>	<b>0</b>	<b>0</b>		<b>141</b>	<b>0</b>	<b>35</b>	<b>14</b>	<b>4</b>	<b>7</b>	<b>26</b>	<b>227</b>

**Table E: Projected High Speed Color Laser Printers:**

Projected High Speed Color Printers:											
Bldg	Library	Labs	Spec. Lab	Classrooms	Teacher WS	RR Teachers	15-1-1	12-1-1	8-1-1	Office Computers	Total
LFH	2	2	1	0	0	0	0	0	0	0	5
MLK	0	2	2	0	0	0	0	0	0	0	4
MLO	2	4		0	0	0	0	0	0	0	6
MHS	2	2		0	0	0	0	0	0	0	4
<b>Total</b>	<b>6</b>	<b>10</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>

**Table F: Projected Scanners :**

Projected Scanners:											
Bldg	Library	Labs	Spec. Lab	Classrooms	Teacher WS	RR Teachers	15-1-1	12-1-1	8-1-1	Office Computers	Total
LFH	2	2	1	0	0	0	0	0	0	0	5
MLK	0	2	1	0	0	0	0	0	0	0	3
MLO	2	4		0	0	0	0	0	0	0	6
MHS	2	2		0	0	0	0	0	0	0	4
<b>Total</b>	<b>6</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>

**Table G: Projected Smart boards :**

Projected Smart boards	
LFH	6
MLK	6
MLO	6
MHS	8
<b>Total</b>	<b>26</b>

**Table H: Projected Digital Cameras:**

<b>Projected Digital Cameras:</b>	
LFH	6
MLK	6
MLO	6
MHS	8
<b>Total</b>	<b>26</b>

**Table I: Projected Digital Video Cameras:**

<b>Projected Digital Video Cameras:</b>	
LFH	6
MLK	6
MLO	6
MHS	8
<b>Total</b>	<b>26</b>

**Table J: Projected LCD Projectors:**

<b>Projected Projectors:</b>	
LFH	6
MLK	6
MLO	6
MHS	8
<b>Total</b>	<b>26</b>

**Table K: Projected Video Conferencing Units:**

<b>Projected Video Conferencing carts:</b>	
LFH/MLK	1
MLO	1
MHS	1
<b>Total</b>	<b>3</b>

**Table L: Projected Mobiles Carts:**

<b>Projected Mobile carts:</b>	
LFH	1
MLK	2
MLO	2
HS	2
<b>Total</b>	<b>7</b>

\* *The proposed budget contains cost assumptions for monitors, LCD projectors and Smart boards. An integrated solution which provides television capabilities to the teacher and student workstations and teacher presentation capabilities is also being considered as an alternative to installing monitors in each of the classrooms in order to provide video on demand and teacher presentation capabilities. Under this scenario, each workstation would contain a WIN TV PCI board to provide video and cable TV capabilities. Each classroom would have an LCD projector for presentation purposes instead of a full monitor. Smart boards would be phased-in to the classrooms as teacher proficiency levels increase.*

**Staffing Assumptions:**

The Technology Planning Committee recommends the following staff to support the effective integration and support of technology within the Wyandanch UFSD:

- One full-time Media & Communications Coordinator (district employee)
- One full-time Information Technology Project Coordinator (district employee)
- One full-time Secretary/Technology Trouble Trakker (district employee)
- One part-time Web Developer/Technology Aide (outsourced from BOCES)
- One full-time Library Media Specialist (district employee)
- 2 full-time Network Technicians (outsourced from BOCES)

## **Staff Development**

### **Professional Development**

After administrative and staff meetings and consideration of the results from the Teacher/Administrative Technology Use Survey, which was administered in March of 2009, the committee recommends that the following areas require further professional development. The Office of Media, Information & Technology will provide semi-annual training to all teachers during CPT time, PD sessions and District PD sessions as required by district policy.

#### **1. Communication Tools:**

- Provide instruction on the utilization capabilities and creation of blogging communities, teacher websites, wikis, podcasts, and RSS in order to increase the use of these technologies to enhance classroom instruction and communication with students and all members of the school community.
- Continue to provide relevant instruction on interactive whiteboard technology to enhance instruction capabilities in order to better implement best practices and meet district curriculum goals.  
Provide instruction on the variety of digital media resources available so that teachers and faculty can create multi-modal presentations and learning experiences for students.
- Support and promote the use of and training for virtual field trips and video conferencing to extend learning experiences beyond the classroom walls.

#### **2. Software Usage:**

- Provide advanced technical training on the following available software: MS Excel, SMART Notebook, MS Word, MS Access, MS PowerPoint, Adobe Photoshop, Video Streaming/Integration, Library Databases, and Data Mentor to inform and improve instruction.
- Provide professional development workshops to improve faculty knowledge of: appropriate internet usage, copyright laws, electronic access SUP, professional liability as it relates to technology usage. This training will allow our faculty to better serve as teachers and role models of responsible digital citizenship.

### ***Professional Development Plans***

For the 2010-2013 years, the Wyandanch Union Free School District plans to provide the following staff development to support the technology plan:

#### **Superintendent's Conference Days:**

Technology will be one of the key areas of focus for the September Conference Day. All teachers will hear a keynote speaker talk about integrating technology and other 21<sup>st</sup> Century literacies. Additionally, workshops will be offered on the following topics: blogging, using technology for collegial sharing, podcasting, MS Excel, digital literacy, SMART Boards, classroom response systems, the Illuminations website, and enVision Math technology applications. The other conference day in November will provide more content-specific applications of technology integration through department-provided workshops.

#### **Faculty Meetings, Department Meetings, and Preparation Time:**

Throughout the year, presentations are scheduled for administrators and teachers on integrating technology into the classroom. Additionally, teachers have time scheduled in their day to facilitate and participate in staff development activities related to new technologies.

#### **Professional Development Fund:**

Historically WUFSD has committed approximately \$130,000 per year to support teacher professional development activities selected by the teachers themselves.

#### **Teacher Center:**

The OWL Teacher Center offers workshops and collegial circles to support teacher use of technology in the classroom. However, due to financial hardship, BOCES has agreed to assist in many areas of technology support and training. Both beginner and advanced sessions are available throughout the school year to support teachers in their development of SMART Board technology proficiency and effective integration. Many courses on software applications are available.

#### **Eastern Suffolk BOCES:**

The Software Training Center at Eastern Suffolk BOCES offers courses for professional development in Office 2009 and other applications. Both beginner and advanced classes are provided to support district staff training needs.

### ***Evaluation Methods for Professional Development:***

The committee suggests the district uses the following methods to determine if technology goals and improvement expectations are being met at the end of the year.

- District-Wide Professional Development Survey
- Technology Proficiency Survey
- Administrator Observations

### **Proposed Implementation Schedule & Timeline**

Historically, a significant amount of funding has been provided to the district through the federal government's ERATE program. These funds were initially utilized in the late 1990's to provide the district with a base network infrastructure, consisting of data drops, servers and network switches to support the district's local area network.

In recent years, E-Rate has funded video-on-demand equipment and wireless solutions to support anticipated mobile technology. Funding for telephone and T1 access and INTERNET has been provided to the district for the past seven years. However E-Rate funds cannot be utilized for to provide equipment in the classrooms. Therefore the implementation of the Wyandanch UFSD Technology Plan is subject to the availability of required funding to support the network upgrade initiatives and classroom equipment requirements provided in Tables A-L above.

Currently, there are six essential network initiatives that must be completed in order to support anticipated instructional technology growth in the classrooms. These initiatives have already been discussed in an earlier section of this report and include the following:

1. The need to stabilize the existing network infrastructure
2. The need to upgrade and maintain the network servers
3. The need to create the infrastructure for a Disaster Recovery System possibly virtualization.
4. The need to replace and upgrade the network switches and port capacity
5. The need to monitor the buildings with a high-speed, high-bandwidth, fiber-based GIG-E solution and increase as needed.
6. The need to maintain a centralized Network Operations Center (NOC) to support existing and future growth in instructional and administrative technology

The implementation timeline is totally aligned to and dependent upon funding. The following represents a tentative timeline for implementing the Wyandanch Technology Plan in each of the buildings:

1. Complete district-wide technology assessment, prepare district-wide technology budget and 2010 E-Rate submission.
2. Request and evaluate vendor service proposals for new security system.
3. Continue OMIT Committee Meetings to evaluate technology product alternatives and software - involve teachers, administrators, board trustees and community members. This is an ongoing activity.
4. Continue Professional Development to prepare teachers to use network computing, email, video-on-demand equipment and Office 2009 project-based integration. This is an ongoing activity provided by the OMIT and Teacher Team Leaders.
5. Begin to review instructional software; develop procedures for the evaluation and acquisition of software in preparation for software acquisition in September 2010; software evaluation is ongoing to support instruction and is tied into the curriculum development and budget planning cycles (contingent on funding)
6. Continue to evaluate the adequacy of existing student support systems to determine if existing system can provide required data, data access and reporting to meet district needs. Explore possibilities of expanding systems capabilities where system redundancy may exist.
7. Upgrade electrical and prepare NOC/Technology support staff space.
8. Continue to utilize a website developer to update and maintain website for the upcoming school year.
9. Continue to evaluate advances in technology, successful applications in instructional technology, grant opportunities – Ongoing activity overseen by the OMIT and Media & Communications Coordinator.
10. The Asst. Superintendent for Pupil Personnel and the OMIT will semi-annually evaluate the efficacy of the Wyandanch UFSD Technology Plan, including adequacy of infrastructure, equipment, instructional software and support systems, technical support, professional staff development and curriculum integration. Continue to evaluate emerging technologies – equipment evaluation and acquisition is ongoing to support instruction and is tied into the curriculum development and budget planning cycles.

# APPENDIX A

## Curriculum Mapping

Currently, our district technology benchmarks do not fully support the ISTE, NETS, and NY State Learning Standards for Technology. We continue to be diligent in these areas. The committee revised the current curriculum and organized the new curriculum based on the ISTE standards. Technology standards reflect the goal of integrating technology into learning in the following areas:

Operations and Concepts  
 Social, Ethical and Human Issues  
 Productivity  
 Communication  
 Research  
 Problem Solving  
 Decision Making

Standard	Grades K-5	Grade 6-8	Grades 9-12
Operations & Concepts	<ul style="list-style-type: none"> <li>➤ Keyboarding/Mouse</li> <li>➤ Software Programs</li> <li>➤ Input Devices</li> <li>➤ Computer Parts/Functions</li> <li>➤ How to Save Files</li> <li>➤ Storage and Retrieval</li> <li>➤ Printing in networked environment</li> <li>➤ Internet and online resources for research with adult direction</li> </ul>	<ul style="list-style-type: none"> <li>➤ Software programs to create and present projects</li> <li>➤ Research with internet and online resources</li> <li>➤ Input Devices</li> <li>➤ Solving hardware and software problems</li> <li>➤ Shared commonly programs, files, storage devices</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use Internet for research</li> <li>➤ Technology systems, resources and services</li> <li>➤ Strategies for identifying and solving hardware and problems</li> <li>➤ Software applications and networks, network resources</li> </ul>

<b>Standard</b>	<b>Grades K-5</b>	<b>Grade 6-8</b>	<b>Grades 9-12</b>
Social Ethical and Human Issues	<ul style="list-style-type: none"> <li>➤ Students and their parents will understand and abide by the Internet Use Policy</li> <li>➤ System care computer system and hardware</li> <li>➤ Work collaboratively</li> <li>➤ Citations and plagiarism rules</li> <li>➤ District Policies</li> <li>➤ Copyright Laws</li> </ul>	<ul style="list-style-type: none"> <li>➤ Changes in technology and their effect in the workplace</li> <li>➤ Ethical behaviors and consequences of misuse</li> <li>➤ User privacy</li> <li>➤ Software application and security</li> <li>➤ District Policies</li> <li>➤ Copyright Laws</li> </ul>	<ul style="list-style-type: none"> <li>➤ Identify new technologies and their effectiveness toward personal and workplace needs</li> <li>➤ Choosing technology systems</li> <li>➤ Discuss pros and cons of technology use for home and workplace</li> <li>➤ Technology trends</li> <li>➤ Discuss ethical behaviors amongst peers regarding technology</li> <li>➤ Internet Use Policy</li> <li>➤ Copyright Laws</li> </ul>
<b>Standard</b>	<b>K-5</b>	<b>6-8</b>	<b>9-12</b>
Productivity Research Problem Solving Making Decisions	<ul style="list-style-type: none"> <li>• Use a variety of media and technology resources for directed and independent learning activities</li> <li>• Create developmentally appropriate multimedia products with support from teachers, teaching assistants, family members or student partners</li> <li>• Make use of technology for presentations</li> <li>• Create a personal portfolio</li> <li>• Store work in electronic portfolios</li> </ul>	<ul style="list-style-type: none"> <li>• Use content specific tools, software and simulations (e.g. environmental probes, graphing calculators, Web tools, to support learning and research</li> <li>• Store work presentations in electronic portfolios</li> </ul>	<ul style="list-style-type: none"> <li>• Store work/presentations in sharable electronic portfolios</li> <li>• Make use of technology for presentations, including video editing and image processing</li> <li>• Investigate and apply software to real world situations</li> </ul>
<b>Standard</b>	<b>K-5</b>	<b>6-8</b>	<b>9-12</b>
Technology Communication Tools	<ul style="list-style-type: none"> <li>• Gather information and communicate with others using telecommunications</li> </ul>	<ul style="list-style-type: none"> <li>• Design, develop, publish, present products (e.g. video tapes, digital</li> </ul>	<ul style="list-style-type: none"> <li>• Routinely and efficiently use online information resources to meet needs for</li> </ul>

<p>Technology Research Tools</p>	<p>with support from family members and teachers</p> <ul style="list-style-type: none"> <li>• Use telecommunications effectively to access remote information in support of direct and independent learning</li>   <li>• Use technology resources (e.g. puzzles, logical thinking programs, writing tools, drawing tools, digital cameras) for problem solving, communication and illustration of thoughts, ideas and stories</li> </ul>	<p>photography) using technology resources that demonstrate and communicate curriculum concepts to audiences in and outside the classroom</p> <ul style="list-style-type: none"> <li>• Use telecommunications and on-line resources to participate in collaborative problem solving activities for the purpose of developing solutions or products for audiences inside and outside the classroom</li>   <li>• Select and use appropriate tools to accomplish a variety of tasks and problems</li> <li>• Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources concerning real world problems</li> </ul>	<p>collaboration, research, publications, communications and productivity</p> <ul style="list-style-type: none"> <li>• Select and apply technology tools for research, information and analysis, problem-solving and decision-making in content learning</li> <li>• Collaborate with peers, experts and others to contribute to a content related knowledge by using technology to compile, synthesize, produce and disseminate information, models and other creative work</li> <li>• Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications and productivity</li> <li>• Validate websites for authenticity</li> <li>• Recognize the quality, timeliness, accuracy and relevancy of electronic information sources</li> </ul>
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## APPENDIX B

### Hardware Inventory (as of 04-04-10)

<b>Wyandanch UFSD Summary of Computer Equipment</b>			
<b>Location</b>	<b>Type</b>	<b>Model</b>	<b>Quantity</b>
<b>Memorial High School</b>	Computer	Dell GX 620	290
	Computer	Dell GX 755	50
	Computer	Gateway 2100	6
	Computer	Apple iMac G5	46
	Laptop	Dell Latitude 510	20
	Printer	Dell 3100cn	50
	Printer	Dell 5100cn	4
	Printer	Dell 1710n	2
	Smartboard		12
	Digital Camera		12
	Digital CamCorder		12
	HP Proliant Servers		4
	<b>MLO Middle School</b>	Computer	Dell GX 620
Computer		Gateway 2100	30
Computer		Apple iMac G5	4
Laptop		Dell Latitude 510	15
Printer		Dell 3100cn	59
Printer		Dell 5100cn	6
Printer		Dell 1710n	1
Smartboard			9
Digital Camera			9
Digital CamCorder			9
<b>MLK Elementary School</b>	Computer	Dell GX 620	225
	Computer	Dell GX 280	46
	Laptop	Dell Latitude 510	30
	Printer	Dell 3100cn	32
	Printer	Dell 5100cn	2
	Printer	Dell 1710n	1
	Smartboard		9
	Digital Camera		9
	Digital CamCorder		9
<b>LFH Elementary School</b>	Computer	Dell GX 620	280

	Computer	Gateway 2100	30
	Printer	Dell 3100cn	35
	Printer	Dell 5100cn	3
	Printer	Dell 1710n	1
	Smartboard		9
	Digital Camera		9
	Digital CamCorder		9
Central Administration	Computer	Dell GX 620	25
	Computer	Gateway 2100	4
	Computer	Dell GX 260	4
	Printer	Dell 3100cn	3
	Printer	Dell 5100cn	2
	HP Proliant Servers		13

## APPENDIX C

### Software Inventory (as of 04-04-10)

#### DISTRICT WIDE:

Microsoft Office Professional 2003  
 "Vision 6, Surf Lock, Print Limit"  
 Symantec EndPoint  
 Symantec Ghost  
 Inspiration  
 Kidspiration  
 Texthelp  
 Microsoft Frontpage 2003  
 Follett  
 Altiris Client Management Suite by Symantec

#### LFH:

Fast For Word Suite (Licensing part of MLK)  
 "I Spy (Treasure Hunt, Spooky Mansion & School Days)"  
 Kidspiration  
 Magic School Bus  
 Jumpstart Kindergarten  
 Jumpstart First Grade  
 Jumpstart 2nd Grade  
 Jumpstart 3rd Grade  
 Jumpstart 4th Grade  
 Jumpstart Typing  
 Coincritters  
 Phonics Express  
 Brainpop  
 Harcourt Electronic Test System  
 Harcourt Writing Express (Network)  
 Houghton Mifflin Math  
 Harcourt Instant Readers Grades 1 and 2  
 Sticky Bear Typing  
 Reading Blaster  
 Math Blaster  
 Mighty Math Carnival  
 Mighty Math Zoo  
 Bailey's Bookhouse  
 Frippletown

**MLK:**

Fast For Word Suite  
 Phonics Express  
 Harcourt Electronic Test System  
 Harcourt Writing Express (Network)  
 Houghton Mifflin Math  
 Amazing Writing Machine  
 Adventures in Writing  
 Sammies Science House  
 Jumpstart 1st Grade  
 Stiicky Bear Numbers Delux  
 Stiicky Bear Phonics Volume 1  
 Ready For School  
 Spongebob Typing  
 Read 180 Enterprise

**MLO:**

Print Shop Deluxe (Network Version)  
 Mavis Beacon Deluxe (Network Version)  
 Skills Detective (Network Version)  
 Student Writing Center (Network Version)  
 Kaplan Reading and Math (Autoskill)  
 Read 180 Enterprise  
 Math Blaster Ages 9-12 Algebra  
 Math Blaster Ages 9-12 School  
 Reading Blaster Ages 9-12 School  
 Reading Blaster Ages 9-12 Vocabulary  
 Invention Studio  
 Eduware  
 Stories & More Time & Place  
 "Jumpstart 3, 4, 5"  
 Sim City 3000  
 Word Munchers Delux  
 Microsoft Encharta 2002  
 Microsoft Encarta African Edition  
 Hot Dog Stand  
 Liberty Kids  
 Where in the World is Carmen Sandiago  
 Zoobinis  
 Auto CAD Light  
 Resp & Circ Sys

Reading Blaster 9-12  
Soccer Math  
No Glamour Suite  
Essay Express  
Writer's Companion  
Essentials  
It's a Safari  
Phonology I & II  
CELF 4  
Thinking Things 3  
Earobics 1  
Skills Tudor

**WMHS:**

Adobe Creative Suite (PC)  
Adobe Creative Suite (MAC)  
Examgen  
Eduware  
Texas Instruments Navigator  
Geometers Sketchpad  
iLife 08  
Final Cut Express HD  
Mac OS X 10.5  
NovaNet

## APPENDIX D

### 2010-2011 Projected Operating Budget *SLD/IC Technology Plan Core Criteria 4*

This section of the Wyandanch Technology Plan meets criteria 4 of the SLD/RIC Technology Plan Core Elements Criteria and provides evidence of a sufficient budget to acquire and maintain hardware, software, professional development and other services that will be needed to implement the strategy.

**Wyandanch UFSD  
2010-2011 Technology Budget  
(Projected – Pending Budget  
Approval)**

**A. E-Rate Eligible Services - (Telecommunications)**

<b>Service</b>	<b>Amount</b>	<b>Budget Code</b>	<b>Detail</b>
AT & T Corp.	7,500.00	A1620.490	Annually
Arch Wireless	1,000.00	A1620.490	Annually
One Communications	15,000.00	A1620.490	Annually
Verizon Wireless	5,000.00	A1620.490	Annually
Long Island Fiber Exchange	50,000.00	A1680.490	Annually
<b>Sub Total</b>	<b>78,500.00</b>		

**B. Budget Year 2010-2011**

Software & Software Support	150,000.00	A2630.490.15	Budget/BOCES Aide
Hardware*	100,000.00	A2630.490.15	Budget/BOCES Aide
Computer Supplies	175,000.00	A2630.450.15	Budget/BOCES Aide
Infinite Campus Support	25,000.00	A2630.490.15	Budget/BOCES Aide
Professional Development (WSB)	150,000.00	A2630.490.15	Budget/BOCES Aide
WINCAP Financial System	25,000.00	A1680.490.15	Budget/BOCES Aide
Technical Support - 3 technicians	340,000.00	A2630.490.15	Budget/BOCES Aide
IEP & AIMS Direct	155,000.00		
<b>Total</b>	<b>1,130,000.00</b>		
<b>Total A &amp; B:</b>	<b>1,208,500.00</b>		

\* Multi year financing payment

## **2011-2012 Projected Operating Budget**

### ***SLD/IC Technology Plan Core Criteria 4***

This section of the Wyandanch Technology Plan meets criteria 4 of the SLD/RIC Technology Plan Core Elements Criteria and provides evidence of a sufficient budget to acquire and maintain hardware, software, professional development and other services that will be needed to implement the strategy. (see 2009-2010 Budget)

We anticipate a 2% inflation increase from previous year. Total= \$1,740,240

## **2012-2013 Projected Operating Budget**

### ***SLD/IC Technology Plan Core Criteria 4***

This section of the Wyandanch Technology Plan meets criteria 4 of the SLD/RIC Technology Plan Core Elements Criteria and provides evidence of a sufficient budget to acquire and maintain hardware, software, professional development and other services that will be needed to implement the strategy. (see 2009-2010 Budget)

We anticipate a 2% inflation increase from previous year. Total= \$2,088,288

## APPENDIX E

### Teacher/Administrative Technology Use Survey 04/19/10 Wyandanch Union Free Survey Response Summary Report

**My Students use e-mail to communicate with experts or others. Total Responses Percent of Total**

**My students use technology for self-directed learning, problem-solving, or extended learning activities. Total Responses Percent of Total**

**My students use equipment such as digital cameras, probes (to collect data), and/or scanners to enhance learning . Total Responses Percent of Total**

**My students use technology for simulations or virtual tours. Total Responses Percent of Total**

**My students use technology for computer-assisted learning (assistive or adaptive technology for special needs students). Total Responses Percent of Total**

**My students use word processing programs (Word), spreadsheets (Excel), and/or databases (Access). Total Responses Percent of Total**

**My students create multi-media productions using applications such as PowerPoint, Kidspiration, Inspiration, TimeLiner, GraphMaster, GraphClub. Total Responses Percent of Total**

**My students conduct online research. Total Responses Percent of Total**

**I use technology to provide technology-rich learning experiences for my students (includes online research, online collaborative projects, etc.). Total Responses Percent of Total**

**I use technology to provide non-traditional forms of student assessment (includes multimedia presentations, website creation, electronic portfolios, etc.). Total Responses Percent of Total**

**I use technology to collaborate with other educators online (includes electronic bulletin boards, email, online groups, etc.). Total Responses Percent of Total**

**I participate in online courses. Total Responses Percent of Total**

**I maintain a professional electronic portfolio. Total Responses Percent of Total**

**I use technology to enhance productivity (such as lesson-plan creation, gradebook use, parental communication, assessment/worksheet creation, etc.). Total Responses Percent of Total**

**I use technology tools and applications to enhance assessment practices. Total Responses Percent of Total**

**Reading Total Responses Percent of Total**

**Writing Total Responses Percent of Total**

**Math Total Responses Percent of Total**

**Science Total Responses Percent of Total**

**Social Studies Total Responses Percent of Total**

**Fine Arts Total Responses Percent of Total**

**P.E. and Health Total Responses Percent of Total**

**Foreign Language Total Responses Percent of Total**

**Which, if any, of the following Web resources do you use for instructional support and educational activities? Total Responses Percent of Total**

**Which, if any, of the following devices do you routinely use to support classroom instruction? Total Responses Percent of Total**

**Do you routinely use e-mail for professional correspondence? Total Responses Percent of Total**

**Do you have Internet access at home? Total Responses Percent of Total**

**Please estimate the percentage of students that you teach that have internet access at home. Total Responses Percent of Total**

**How many hours per month do you spend on a "District" computer for activities such as backups, loading software, organizing files, or basic computer maintenance? Total Responses Percent of Total**

**How many hours per month do you spend on a "Non District" computer for activities such as backups, loading software, organizing files, or basic computer maintenance? Total Responses Percent of Total**

**How many hrs per month do you spend updating your own classroom-related Web page?**

**How many hours per month do you spend assisting students, teachers, administrators, or other staff volunteers to solve computer problems? Total Responses Percent of Total**

**Are you a school-based Technology Lead Teacher or Webmaster? Total Responses Prct of Total**

**How many hours per month do you spend attempting to resolve your own computer problems with no assistance? Total Responses Percent of Total**

**How many hours per month do you spend on casual learning activities, such as reading technology-related manuals or using online help? Total Responses Percent of Total**

**When you must report a technology-related problem, how long does it usually take to be resolved? Estimate the time between reporting the problem and having it resolved. (Include Help Desk requests, time waiting for problems to be resolved, etc.) Total Responses Percent of Total**

**Approximately how many hours of formal (classroom) and informal (video- or computer-based) training on computer applications have you received in the past twelve months? (include in-service hours if applicable) (Top 10 results only) Total Responses Percent of Total**

**Which of the following professional development opportunities do you need? (Check ALL that apply) Total Responses Percent of Total**

**Did you complete or will you have successfully completed any of the following trainings during this school year Total Responses Percent of Total**

**Digital Video Camera Total Responses Percent of Total**

**Personal Digital Assistant (PDA) Total Responses Percent of Total  
Interactive White Board (e.g., SmartBoard) Total Responses Percent of Total**

**Digital Still Camera Total Responses Percent of Total**

**LCD Projector Total Responses Percent of Total**

**Laser Printer Total Responses Percent of Total**

**TV Production Studio Total Responses Percent of Total**

**Scanner Total Responses Percent of Total**

**GPS Units Total Responses Percent of Total**

**Digital Probes Total Responses Percent of Total**

**Video Conferencing Total Responses Percent of Total**

**i-Pods Total Responses Percent of Total**

**Plagiarism Identification Software (e.g., TurnItIn) Total Responses Percent of Total**

**Online Learning Environment (e.g., Blackboard) Total Responses Percent of Total**

**Student E-Mail (e.g., Gaggie) Total Responses Percent of Total**

**Online Grading Total Responses Percent of Total**

**Teacher Web Pages Total Responses Percent of Total**

**Other Total Responses Percent of Total**

**Bailey's Bookhouse? Total Responses Percent of Total**

**Brainpop? Total Responses Percent of Total**

**Coincritters? Total Responses Percent of Total**

**Fast for Word Suite? Total Responses Percent of Total**

**Fripletown? Total Responses Percent of Total**

**Harcourt Electronic Test System? Total Responses Percent of Total**

**Harcourt Instant Readers (Grades 1 and 2) ? Total Responses Percent of Total**

**Harcourt Mifflin Math? Total Responses Percent of Total**

**Harcourt Writing Express? Total Responses Percent of Total**

**I Spy: Treasure Hunt, Spooky Mansion, & School Days Total Responses Percent of Total**

**Jumpstart Grade K? Total Responses Percent of Total**

**Jumpstart Grade 1? Total Responses Percent of Total**

**Jumpstart Grade 2? Total Responses Percent of Total**

**Jumpstart Grade 3? Total Responses Percent of Total**

**Jumpstart Grade 4? Total Responses Percent of Total**

**Jumpstart Typing? Total Responses Percent of Total**

**Kidspiration? Total Responses Percent of Total**

**Magic School Bus? Total Responses Percent of Total**

**Math Blaster? Total Responses Percent of Total**

**Mighty Math Carnival? Total Responses Percent of Total**

**Mighty Math Zoo? Total Responses Percent of Total**

**Phonics Express? Total Responses Percent of Total**

**Reading Blaster? Total Responses Percent of Total**

**Sticky Bear Typing? Total Responses Percent of Total**

**Adventures In Writing? Total Responses Percent of Total**

**Amazing Writing Machine? Total Responses Percent of Total**

**Brainpop? Total Responses Percent of Total**

**Fast for Word Suite? Total Responses Percent of Total**

**Harcourt Electronic Test System? Total Responses Percent of Total**

**Harcourt Writing Express? Total Responses Percent of Total**

**Houghton Mifflin Math? Total Responses Percent of Total**

**Jumpstart Grade 1? Total Responses Percent of Total**

**Phonics Express? Total Responses Percent of Total**

**Ready For School? Total Responses Percent of Total**

**Sammie's Science House? Total Responses Percent of Total**

**Spongebob Typing? Total Responses Percent of Total**

**Sticky Bear Numbers Deluxe? Total Responses Percent of Total**

**Sticky Bear Phonics Volume 1? Total Responses Percent of Total**

**Auto CAD Light? Total Responses Percent of Total**

**CELF4? Total Responses Percent of Total**

**Earobics 1? Total Responses Percent of Total**

**Essay Express? Total Responses Percent of Total**

**Essentials? Total Responses Percent of Total**

**Hot Dog Stand? Total Responses Percent of Total**

**Invention Studio? Total Responses Percent of Total**

**It's a Safari? Total Responses Percent of Total**

**Jumpstart 3,4,5? Total Responses Percent of Total**

**Kaplan Reading and Math (Autoskill)? Total Responses Percent of Total**

**Liberty Kids? Total Responses Percent of Total**

**Math Blaster Ages 9-12 Algebra? Total Responses Percent of Total**

**Math Blaster Ages 9-12 School? Total Responses Percent of Total**

**Mavis Beacon Deluxe? Total Responses Percent of Total**

**Microsoft Encarta African Edition? Total Responses Percent of Total**

**Microsoft Encarta 2002? Total Responses Percent of Total**

**No Glamour Suite? Total Responses Percent of Total**

**Phonology I & II ? Total Responses Percent of Total**

**Print Shop Deluxe? Total Responses Percent of Total**

**Read 180 Enterprise? Total Responses Percent of Total**

**Reading Blaster Ages 9-12 School? Total Responses Percent of Total**

**Reading Blaster Ages 9-12 Vocabulary? Total Responses Percent of Total**

**Resp & Circ Sys? Total Responses Percent of Total**

**Sim City 3000? Total Responses Percent of Total**

**Skills Detective? Total Responses Percent of Total**

**Skills Tutor? Total Responses Percent of Total**

**Soccer Math? Total Responses Percent of Total**

**Stories & More, Time & Place? Total Responses Percent of Total**

**Student Writing Center? Total Responses Percent of Total**

**Thinking Things 3? Total Responses Percent of Total**

**Where In The World Is Carmen Sandiego? Total Responses Percent of Total**

**Word Munchers Deluxe? Total Responses Percent of Total**

**Writer's Companion? Total Responses Percent of Total**

**Zoobinis? Total Responses Percent of Total**

**Adobe Creative Suite (MAC) ? Total Responses Percent of Total**

**Adobe Creative Suite (PC) ? Total Responses Percent of Total**

**Examgen? Total Responses Percent of Total**

**Final Cut Express HD? Total Responses Percent of Total**

**Geometers Sketchpad? Total Responses Percent of Total**

**iLife 08? Total Responses Percent of Total**

**Jamestown Learning? Total Responses Percent of Total**

**Texas Instruments Navigator? Total Responses Percent of Total**

# APPENDIX G



## Wyandanch Union Free School District Policy #

### **WYANDANCH UFSD NETWORK ACCEPTABLE USE AND SAFETY POLICY**

#### **MISSION STATEMENT**

The Wyandanch Union Free School District network is a service provided to improve learning and teaching through research, collaboration and dissemination of successful educational practices, methods, and materials.

The Wyandanch Union Free School District is a Wide Area Network (WAN) connected to the Internet. The Internet links computer networks around the world, giving the Wyandanch Union Free School District access to a wide variety of computer and information resources.

The Wyandanch Union Free School District provides limited access to these local, national and international sources of information and collaboration vital to intellectual inquiry in a democracy.

In return every Wyandanch Union Free School District user has the responsibility to respect and protect the rights of every user in our community and on the Internet. Wyandanch Union Free School District users are expected to act in a responsible, ethical and legal manner, in accordance with the Wyandanch Union Free School District Code of Conduct, the missions and purposes of the other networks they use on the Internet and the laws of the states and the United States.

#### **ACCESS**

Access to the Wyandanch Union Free School District is a privilege offered each academic year to all Wyandanch Union Free School District students and educators.

#### **CODE OF CONDUCT**

The Wyandanch Union Free School District user is held responsible for his/her actions and activity within his/her user account. Unacceptable uses of the network will result in the suspension or revoking of these privileges. Some examples of such unacceptable use are:

1. Using the network for any unauthorized access including but not limited to hacking and/or illegal activity and violation of copyright or other contracts.
2. Using the network for financial or commercial gain.
3. Degrading or disrupting equipment or system performance.
4. Vandalizing the data of another user.
5. Wastefully using finite resources.
6. Gaining unauthorized access to resources or entities.
7. Invading the privacy of individuals.
8. Using an account owned by another user.
9. Posting personal communications without the author's consent.
10. Posting anonymous messages.
11. Using the Network to access material which is obscene, pornographic and/or harmful to minors.
12. Transmitting personal information about any student by that student or others, including pictures, addresses, phone numbers, pager numbers and email addresses.

### **INTERNET CONTROL FILTERING**

In accordance with the provisions of the Children's Internet Protection Act ("CIPA"), the District requires that all District computers with Internet access be equipped with filtering or blocking technology which will, at a minimum, block or filter Internet access for both minors and adults, to visual depictions that are obscene; child pornography; and for computers used by minors with Internet access, harmful to minors.

No filtering technology can guarantee that students will be prevented from accessing all inappropriate locations. However, the District shall institute measures to monitor the online activities of minors and assist students in the appropriate use of the Internet.

Under certain supervised circumstances, authorized personnel may override the filtering/blocking technology for a limited, prescribed period of time, to assist staff members engaged in bonafide research or other lawful purposes.

The District shall provide employee training for proper use of the Network, including training to foster the safety and security of minors when using electronic mail, chat rooms, and other forums of direct electronic communications; as well as training to prevent unauthorized disclosure, use and dissemination of personal identification information regarding minors.

All users of the Wyandanch Union Free School District, including students and staff, must abide by the District's restrictions on Network use.

Further, the user and, where applicable, his/her parent(s) or guardian(s) are warned that The Wyandanch Union Free School District does not have control of the information on the Internet. Even though the Wyandanch Union Free School District uses Internet filtering software, it is possible that the requester might access unacceptable sites. These sites may contain material that is illegal, defamatory, inaccurate or potentially offensive to some people. Therefore, users shall discharge and hold harmless the Wyandanch Union Free School District, its board of education trustees and employees from any and all claims, liabilities, demands, causes of action, costs, expenses or obligations of any kind, known or unknown, arising out of or in any way relating to his/her own or his/her child's use of or access to the

Wyandanch Union Free School District or other independent networks. While the Wyandanch Union Free District's intent is to make Internet access available to further its educational goals and objectives, users may access other materials as well.

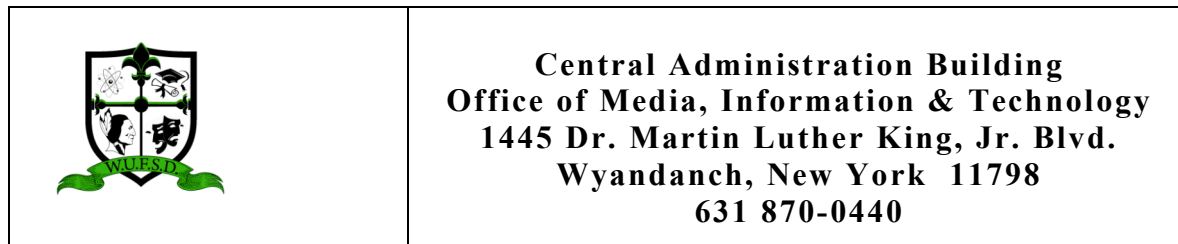
The Wyandanch Union Free School District believes that the benefits to educators and students from access to the Internet, in the form of information resources and opportunities for collaboration, far exceed any disadvantages of access. But ultimately, parent(s) and guardian(s) of minors are responsible for setting and conveying the standards that their child or ward should follow.

The Wyandanch Union Free School District would like to emphasize that the independent networks, accessed through the Wyandanch Union Free School District, are open systems. This means that another individual within or outside the Wyandanch Union Free School District community might access a Wyandanch Union Free School District's user's files without the users prior knowledge or consent. Therefore, the Wyandanch Union Free School District's advice to all users is "Don't put anything in writing that you wouldn't want other people to read." As it is impossible to guarantee complete security, the Wyandanch Union Free School District accepts no responsibility for any consequences of unauthorized entry, even if such entry could have been prevented by procedures known to the Wyandanch Union Free School District but not adopted. Wyandanch Union Free School District will make reasonable efforts to protect the electronic files of every user.

The user and, where applicable, his/her parent(s) or guardian(s) must understand the specific conditions and services being offered will change from time to time. In addition, a user uses Wyandanch Union Free School District at his/her own risk. The Wyandanch Union Free School District makes no warranties with respect to Wyandanch Union Free School District's service, including but not limited to the following:

1. The content of any advice or information received by a user from a source outside Wyandanch Union Free School District or any costs or charges incurred as a result of seeing or accepting such advice.
2. Any costs, liability or damages caused by the way the user chooses to use his/her Wyandanch Union Free School District access.
3. Any consequences of service interruptions or changes, even if these disruptions arise from circumstances under the control of the Wyandanch Union Free School District.
4. While the Wyandanch Union Free School District supports the privacy of electronic mail, account users must assume that this cannot be guaranteed.
5. Network users have **NO EXPECTATION OF PRIVACY** with respect to any data stored or transmitted via the District's Network or used in conjunction with the District's Network. School officials shall monitor the use of the District's Network and can and will search, at any time, the account, e-mail, disks, files, or other data stored on the District's Network.

Users must recognize that the Wyandanch Union Free School District's Code of Conduct applies to the use of the Wyandanch Union Free School District and other independent networks, and that any usage of these networks in violation of this code or the Wyandanch Union Free School District's policy and procedures regarding usage of the networks, and/or any of the Wyandanch Union Free School District's policies and procedures, will be subject to appropriate disciplinary action, including but not limited to loss of Wyandanch Union Free School District privileges.



## COMPUTER NETWORK FOR EDUCATION

Dear Parent/Guardian

The district would like to offer your child access to our educational computer network, including the Internet. With your permission, your child will have access to various software applications, hundred of databases, libraries and computer services from all over the world through the Internet and other electronic information systems.

The Internet is a system which links smaller networks creating a large diverse network. The Internet allows students the opportunity to reach out to many other people to share information, learn concepts, and research subjects by the sending and receiving of messages using a computer, modem, and phone lines.

With this educational opportunity also comes responsibility. It is important that you and your child read the enclosed district Computer Network for Education Policy, regulation and consent and waiver from and discuss these requirements together. You and your child should understand that inappropriate network use will result in the loss of the privilege to use this educational tool and/or additional disciplinary action by the district.

As indicated in the enclosed policy and regulation, the district will attempt to discourage access to objectionable material and communications. However, in spite of our efforts to establish regulations governing use of the district's computer network and student access to the Internet, a variety of in appropriate and offensive materials are available over the Internet and it may be possible for your child to access these materials inadvertently or if he/she chooses to behave irresponsibly. In addition, it is possible for undesirable or ill-intended individuals to communicate with your child over the Internet. There is no practical means for the district to prevent this from happening, and your child must take responsibility to avoid such communications if they are initiated.

I have included the above information to ensure your decision regarding your child's access to the district's computer network and the Internet is an informed one. You must be the one to decide whether the benefits of your child having access to the district's computer network and the Internet outweigh the potential risks. All children in Grade 5 and above will be required to sign the enclosed "User Acknowledgement Form." It is to be returned with your Consent Form.

## COMPUTER NETWORK FOR EDUCATION

If you wish to allow your child access to the district's computer network and the Internet, please return the enclosed consent and waiver form to your child's principal, as soon as possible. Students will not be able to use the Internet unless this consent form is on file.

Sincerely,

Bruce Penn  
Media & Communications Coordinator



Wyandanch Union Free School District

**COMPUTER NETWORK/INTERNET USE FOR EDUCATION  
USER ACKNOWLEDGEMENT**

User Name \_\_\_\_\_

School \_\_\_\_\_

Grade \_\_\_\_\_

I have read and understand the district's Computer Network for Education Policy and regulations and agree to abide by their provisions.

I understand that I have no right to privacy when I use the district's computer network and the Internet, and I consent to district staff monitoring of my communications.

I further understand that any violation of these provisions may result in suspension or revocation of my system access and related privileges, other disciplinary action, as appropriate and possible legal action.

User Signature \_\_\_\_\_

Date \_\_\_\_\_

## Wyandanch Union Free School District

### **COMPUTER NETWORK FOR EDUCATION**

The Board of Education is committed to optimizing student learning and teaching. The Board considers student access to a computer network, including the Internet, to be a powerful and valuable educational and research tool, and encourages the use of computers and computer - related technology in district classrooms solely for the purpose of advancing and promoting learning and teaching.

The computer network can provide a forum for learning various software applications and through online databases, bulletin boards and electronic mail, can significantly enhance educational experiences and provide statewide, national and global communication opportunities for staff and students.

All users of the district's computer network and the Internet must understand that use is a privilege, not a right, and that use entails responsibility.

The Superintendent of Schools shall establish regulations governing the use and security of the district's computer network. All users of the district's computer network and equipment shall comply with this policy and those regulations. Failure to comply may result in disciplinary action, employee suspension, and/or revocation of computer access privileges.

The Superintendent shall be responsible for designating a computer network coordinator to oversee the use of district computer resources. The computer coordinator will prepare in-service programs for the training and development of district staff in computer skills, and for the incorporation of computer use in appropriate subject areas.

The Superintendent, working in-conjunction with the designated purchasing agent for the district, the computer network coordinator and the instructional planning committee, will be responsible for the purchase and distribution of computer software and hardware throughout district schools.

The following rules and regulations govern the use of the district's computer network system and access to the Internet.

## I. Administration

The Superintendent of Schools shall designate a computer network coordinator to oversee the district's computer network.

The computer network coordinator shall monitor and examine all network activities, as appropriate, to ensure proper use of the system.

The computer network coordinator shall be responsible for disseminating and interpreting district policy and regulations governing use of the district's network at the building level with all network users.

The computer network coordinator shall provide employee training for proper use of the network and will ensure that staff supervising students using the district's network provide similar training to their students, including providing copies of district policy and regulations governing use of the district's network.

The computer network coordinator shall ensure that all disks and software loaded onto the computer network have been scanned for computer viruses.

All student and staff agreements to abide by district policy and regulations and parental consent forms shall be kept on file in the district offices, of the computer network coordinator.

## II. Internet Access

Students will be provided access: during class time; during the school day when the students are not in class; before or after school hours, or during instructional time in a controlled environment contingent upon supervision by an approved staff member.

Students will be provided with individual accounts and passwords consistent with their age and their responsibility to provide only, this school with their password. Passwords are not to be shared with other students.

Students may browse the World Wide Web within the parameters established by the District.

Students are not to have access to chat rooms.

Students may read news groups.

Students and staff may not construct their own web pages using district computer resources.

The district will hold the only website with regard to the district.

Students will have a group e-mail address.

Staff will have an individual e-mail address.

Students and staff are not allowed to belong to mailing lists.

A staff member will be required to monitor all of the above student activities

### III. Acceptable Use and Conduct

Access to the district's computer network is provided solely for educational purposes and research consistent with the district's mission and goals.

Use of the district's computer network is a privilege, not a right. Inappropriate use may result in the suspension or revocation of that privilege.

Each individual in whose name an access account is issued is responsible at all times for its proper use.

All network users will be issued a login name and password. Passwords must be changed periodically.

All network users are expected to abide by the generally accepted rules of network etiquette. This includes being polite and using only appropriate language. Abusive language, vulgarities and swear words are all inappropriate.

### III. Acceptable Use and Conduct (continued)

Network users identifying a security problem on the district's network must notify the appropriate teacher, administrator or computer network coordinator. Under no circumstance should the user demonstrate the problem to anyone other than to the district official or employee being notified.

Any network user identified as a security risk or having a history of violations of district computer use guidelines may be denied access to the district's network.

### IV. Prohibited Activity and Uses

The following is a list of prohibited activity concerning use of the district's computer network. Violation of any of the prohibitions may result in discipline or other appropriate penalty, including suspension or revocation of a user's access to the network

1. Using the network for non-approved commercial activity, including advertising.
2. Infringing on any copyrights or other intellectual property rights, including copying, installing, receiving, transmitting, or making available any copyrighted software on the district computer network.
3. Using the network to receive, transmit, or make available to others threatening, obscene, offensive, or sexually explicit material.
4. Using the network to receive, transmit or make available to others messages that are racist, sexist, abusive, or harassing to others.
5. Using another user's account or password.
6. Attempting to read, delete, copy or modify the electronic mail (e-mail) of other system users' and deliberately interfering with the ability of other system users' to send and/or receive e-mail.
7. Forging or attempting to forge e-mail messages.
8. Engaging in vandalism. Vandalism is defined as any malicious attempt to harm or destroy district equipment or materials, data of another user of the district's network or of any of the entities or other networks that are connected to the Internet. This includes, but is not limited to, creating and/or placing a computer virus on the network.
9. Using the network to send anonymous messages or files.
10. Using the network to receive, transmit, plagiarize, or make available to others, a message that is inconsistent with the district's Code of Conduct.
11. Revealing the personal address, telephone number or other personal information and/or personal images of oneself or another person without prior district authorization.
12. Using the network for sending and/or receiving personal messages that are beyond the scope of usage provided by the district.
13. Intentionally disrupting network traffic or crashing the network and connected systems.

14. Installing personal software, or using personal disks on the district's computers and/or network without the permission of the appropriate district official or employee.
15. Using district-computing resources for commercial or financial gain or fraud.
16. Stealing data, equipment, or intellectual property.
17. Gaining or seeking to gain unauthorized access to any files, resources, computer, and telephone systems, or vandalize the data of another user.
18. Wastefully using finite district resources.
19. Changing or exceeding resource quotas as set by the district without the permission of an appropriate district official or employee.
20. Using the network while access privileges are suspended or revoked.
21. Using the network in a fashion inconsistent with directions from teachers and staff, and generally accepted network etiquette.
22. Using the computer network that in any way violates a State or Federal law or regulation, or any school district policy and/or regulation.

#### V. No Privacy Guarantee

Students and staff using the district's computer network should not expect, nor does the district guarantee privacy for electronic mail (e-mail) or any use of the district's computer network. The district reserves the right to access and view any material stored on district equipment or any material used in conjunction with the district's computer network.

#### VI. Sanctions

All users of the district's computer network and equipment are required to comply with the district's policy and regulations governing the district's computer network. Failure to comply with the policy or regulation may result in disciplinary action as well as suspension and/or revocation of computer access privileges.

In addition, illegal activities are strictly prohibited. Any information pertaining to or implicating illegal activity will be reported to the proper authorities. Transmission of any material in

violation of any federal, state and/or local law or regulation is prohibited. This includes, but is not limited to materials protected by copyright, threatening or obscene material or material protected by trade secret. Users must respect all intellectual and property rights and laws.

## VII. Disclaimer

The district makes no warranties of any kind, either expressed or implied, for the access being provided. Further, the district assumes no responsibility for the quality, availability, accuracy, nature or reliability of the service and/or information provided. Users of the district's computer network and the Internet use information at their own risk. Each user is responsible for verifying the integrity and authenticity of the information that is used and provided

The district will not be responsible for any damages suffered by any user, including, but not limited to loss of data resulting from delays, non-deliveries, mis-deliveries, or service interruptions caused by its own negligence or the errors or omissions of any user. The district also will not be responsible for unauthorized financial obligations resulting from the use of or access to the district's computer network or the Internet.

Further, even though the district may use technical or manual means to regulate access and information, these methods do not provide a foolproof means of enforcing the provisions of the district policy and regulation.



## COMPUTER NETWORK/INTERNET USE FOR EDUCATION

### Internet Use Content

#### Parental/Guardian Consent and Waiver Form

I have read the district's Computer Network policy and regulation. By signing this consent and waiver form, I give my permission for my child to be afforded access to the district's Computer Network System and the Internet.

I understand that my child's access to the district's computer network and the Internet is designed solely for educational purposes and that the district will attempt to discourage access to objectionable material and communications.

I also understand that a variety of inappropriate and offensive materials are available over the Internet and that it may be possible for my child to access the materials inadvertently or if he/she chooses to behave irresponsibly. I further understand that it is possible for undesirable or ill-intended individuals to communicate with my child over the Internet, that there is no practical means for the district to prevent this from happening and that my child must take responsibility to avoid such communications if they are initiated. While I authorize district staff to monitor any communications to or from my child on the district's computer network and the Internet, I recognize that it is not possible for the district to monitor all such communications. I have determined that the benefits of my child having access to the district's computer network and the Internet outweigh potential risks, and I will not hold the district responsible for materials acquired or contacts made on the district's network or the Internet.

If and when my child's use of the district's computer network is not in a school setting, I will monitor my child's use of the system and his/her potential access to the worldwide Internet and will accept responsibility for supervision in that regard.

My signature indicates that I have read and explained to my child the rights and responsibilities that my child accepts as a user of the district's computer network and the Internet.

Finally, I recognize that computer assisted instruction is a teaching methodology that I do not need to approve prior to my child's use.

Child Name(s) \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

Date \_\_\_\_\_

## APPENDIX H

### **1. ASSESSMENT OF THE TELECOMMUNICATION SERVICES, HARDWARE, SOFTWARE, AND OTHER SERVICES THAT WILL BE NEEDED TO IMPROVE EDUCATION**

This section is an assessment of the E-Rate eligible telecommunication services, hardware, software, and other services are requested by the WUFSD for funding year 1. The user ID field to be used on the corresponding funding request identifies each of the following sub-sections.

#### **1.1 FIBER OPTIC WAN**

The WUFSD has approximately 3 pairs of Fiber Optic lines for each of its 4 schools and the Administration Building. This is essential for communication between schools, district offices and parents. Fiber Optics is requested for all schools and district offices.

#### **1.2 FIBER OPTICS**

The WUFSD utilizes Fiber Optic services to link each school to its network hub and backup location where Internet content filtering, email services, and other information technology (IT) services are provided. This centralization ensures efficient management and operation of these critical IT services.

Fiber Optics telecommunications services provide for flexible bandwidth allocation and easy redirection to the backup location when needed. The Fiber Optics relay services have been in place for 3.5 years. The WUFSD monitors the utilization of each line and adjusts the capacity of the link to each school appropriately. Fiber Optic service is requested for all schools and district offices.

#### **1.3 ISP**

Access to the Internet is a key infrastructure component to many of the WUFSDS' instructional technology programs. The WUFSD utilizes Internet links to its primary and backup network hubs to provide for high network reliability. The WUFSD monitors Internet access bandwidth utilization on a continuous basis. These measurements are used to define Internet access link capacity requirements and are the basis for an E-Rate funding request. Internet service is requested for all schools and district offices.

## 1.4 LONG DISTANCE

Long distance telephone service is necessary to provide effective communication between the schools and various stakeholders and information and support providers. The WUFSD carefully monitors its long distance service utilization. Funding will be requested based on the results of this monitoring. Long distance telephone service is requested for all schools and district offices.

## 1.5 NETWORK MAINTENANCE

The WUFSD has Fiber Optic lines and network wiring at all its schools. To ensure effective communication and network access for students, funding is requested to maintain the infrastructure that supports these functions. Network maintenance is requested for all schools and district offices.

## 1.6 SERVERS

As schools receive technology upgrades, which include extensive network wiring, LAN equipment and a number of workstations they require network servers for such E-Rate eligible purposes as providing DHCP, DNS services. A funding request is submitted for upgrading servers at schools that have problematic servers and servers that are out of warranty. Servers are requested for the following schools:

Wyandanch Memorial High School	Milton L. Olive Middle School	LaFrancis Hardiman Elem School	Martin Luther King Elementary School
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## 1.7 SERVER MAINTENANCE

The WUFSD maintains a complete inventory of server equipment used in its network and for what purposes they are used. Most such servers are used for E-Rate eligible uses. This inventory is to be used as the basis for the server maintenance funding request to be submitted to the E-Rate. Server maintenance is requested for all schools.

## 1.8 SWITCHES

As schools undergo network upgrades and purchase additional workstations, switches are needed to be able to add these workstations to the network. Switches are requested for the following schools:

Wyandanch Memorial High Sch School	Milton L. Olive Middle School	LaFrancis Hardiman Elementary School	Martin Luther King Elementary School
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## 1.9 WIRELESS LAN

To keep pace with the additional workstations being purchased and facilitate network and internet access, wireless LANs are being added to schools where data wiring isn't available. The WUFSD is requesting funding for the E-Rate eligible access points for the following schools:

Wyandanch Memorial High School	Milton L. Olive Middle School	LaFrancis Hardiman Elementary School	Martin Luther King Elementary School
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## 1.10 WIRELESS PHONES

WUFSD has approximately 20 wireless phones that enhance communication between schools, district office and parents. A continuous assessment is made of usage. Wireless phone service is requested for all schools and district offices.