Technology Plan
Logan County Schools
Russellville, Kentucky

http:\www.logan.kyschools.us

Prepared Date: December 03, 2012

Revised: November 02, 2014

Plan Start Date: July 1, 2013

Plan Expiration Date: June 30, 2016

Approved Date: Pending

Acknowledgments

The following members contributed to the District Technology plan. Without their knowledge, wisdom, dedication, and continued effort this plan would not be possible.

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Executive Summary

It is the mission of the Logan County School District is, “To enable all students to acquire the knowledge and skills necessary to become successful, contributing citizens.”

The Logan County Schools technology plan is a 3 year, district wide plan. Because of the constant changes in technology the planning for technology in education is an ongoing process. The District technology plan is reviewed and updated annually. The district has established a district technology committee that meets on a regular basis to review and determine the technology needs of the district. School Technology Plans are approved by individual school site based councils as well as being reviewed by the district technology committee.

This 2013-2016 Logan County Schools Technology Plan describes how technology will be used in the Logan County School District to improve learning for all students. The plan works with a starting premise that technology is a driving force to enhance and improve the educational development of students, yet still recognizing that EDUCATION and the hunger for knowledge is equally the driving force in the development of technology. It is the role of technology to provide support in the education of students in the K-12 arena. Technology provides support in many ways, including, but not limited to efficiency, a means to research and process information, allow for students to display, and present the ability to understand concepts and more. The goal of Logan County Schools is to provide a technological environment that accommodates these approaches and more.

We intend to create the capacity for an environment where teachers can collect information, collaborate with their peers, present that information in a meaningful way to students and then students research these concepts, create content to display mastery and present their findings. We are seeking new ways in which we can accommodate a better overall learning environment that also conforms to the Children’s Internet Protection Act (CIPA)

(1) Provide an environment that cultivates and encourages high-level student achievement.

- Cultivate an environment that encourages research, discovery and comprehension.
- Target student-to-computer ratio that meets instructional needs and limits idle capacity.
- Build network capacity that ensures adequate access with more devices while also looking to Open Source and freeware resources to help offset costs of increased network capacity.

(2) Provide professional development and resources to teachers to promote effective integration and high-levels of student learning.

- Provide training and resources for the effective technology integration that models technology best practices to serve as models for all teachers.
- Provide follow-up and ongoing support to teachers to ensure effectiveness of training and resources.
- Provide training, development and guidance that encourage use of Web2.0, Open Source and freeware resources while also providing training to promote cyber safety and sound digital citizenship practices.

(3) Encourage and support parent and community involvement in the educational process of our students.

- Provide real-time grade, attendance, behavioral, and health information along with supportive resources to the parents of our students.
- Provide access to discounts for purchasing resources to students, teachers and staff to promote effective access to technology at home.
- Support state initiatives to help lower the cost of technology access to every home in our district.
- Welcome community members into the schools to teach, support, share and learn.
- Provide Adult education courses to teach technology skills to our community members to improve the community-wide proficiency of technology.

A number of initiatives are contained in the section entitled “Technology Vision and Goals.” In addition, the following section, “Staff Training / Professional Development Goals” describes four initiatives designed to ensure that all staff have the necessary skills to fully implement technology in the district.

In lieu of writing a description in the “Current Technology and Resources” section of the plan, interested parties are directed to the information found in the two appendices, which go into great detail about the current technology in the district.
Finally, the plan ends with a description of the methodology for evaluating the success of the district technology plan, as well as a summary of the budget for each piece of the technology plan.

Hopefully this document will provide interested parties insight as to how the district’s technology plan for 2013-2016 will unfold.

Planning Process and Methodology

This current revision of our Technology Plan was developed by District Technology Coordinator Thomas Sandlin in collaboration with the District Technology Committee which met in 2013. For the duration of this plan's time frame it has become a living document, which relies on the input of the committee in determining the technology needs for the future. The committee reviewed the current technology plan, examined its impact and suggested changes. Those changes were incorporated into the final draft of the technology plan.

Past technology plans have been implemented by the entire technology staff, including the School Technology Assistants. The District Technology Coordinator typically is the point person who receives bids and makes purchases. The DTC and district technician, typically, install any new technologies, with assistance from the School Technology Assistants and the high school and middle school Student Technology Leadership Program (STLP). On rare occasions outside vendors are also involved in installation of new technologies.

The technology plan is evaluated continually by the technology staff and any necessary changes are discussed and implemented during District Technology Meetings.

Current Technology and Resources

Staff

The technology staff for Logan County Schools currently consists of the Chief Information Officer, Network Administrator, Desktop Specialist and five School Technology Assistants. This staff has one or more of the following: Microsoft Certified Professionals, A+ certified technicians, certified Fiber Optics technician and .

Infrastructure

Currently Logan County Schools provides 10 GB speed point to point Dark Fiber to each Elementary school in our district from the KEN location at Logan County High School. We have recently completed the increased bandwidth to all facilities to accommodate increasing demand. We have also completed a high density coverage of Wireless access to all classrooms within the district providing hotspots outside the school buildings and other public areas to provide student access as funding provides.

Resources

Software used by our schools to help students achieve state goals and academic standards, include: Renaissance Learning Software- Star Reader, Accelerated Reader, Accelerated Math, Follett Software for the library systems throughout the county. Scholastic Software provides the Read 180, iRead and System 44 programs which address the student needs to improve their reading grade levels. Carnegie Learning provides Mathia and Cognitive Tutor to help students improve math skills. The Schools also employ many other cloud-based applications including Study Island, Thinklink, and Lexia.

Hardware, software, and materials throughout the district will be maintained, upgraded, or replaced to provide up-to-date resources for students and staff as funding provides.

Evaluation

The Logan County Schools technology team constantly monitors the use of technology and makes adjustments as needed to create a better educational environment.

- School Principals provide individual evaluation of teachers and staff as to the proficiency of each member.
- District Administrators conduct learning walks to monitor instructional practices including the effective use of technology by instructors and students.
- School Technology Coordinators and Curriculum Specialist provide constant feedback on who is using technology and how. They are also extremely valuable in not only sharing technology knowledge with those in their schools but also providing feedback to the district staff on the acceptance on projects and the need for new direction and priorities.
- The district staff will use this feedback along with that of other teachers to determine the need for additional or even the possible reduction in technology.

The technology plan will be under constant review for minor revisions. Major revisions will be conducted yearly and will include a three-year window for planning purposes.

Performance Goal 1

Student achievement, including technology literacy, of all students is improved through the use of technology.

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Insure that the percentage of students by the end of grade 8 continue to meet or exceed state standards for student literacy in technology.	The percentage of students by end of grade 8 that meet or exceed state standards for student literacy in technology will continue increase from current levels near 84%	Free online Technology learning assessment tools may be used to measure the students' improvement. Evaluation is also done by observation of the classrooms and students.	Continuing with current available methods or until KDE develops a standard assessment method.	District Technology Committee, School Administrators	No Cost

Performance Goal 2

Teachers effectively use technology and research-based instructional practices to support student learning.

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
By Providing Instructional Technology Resources to allow inactive and challenged learning.	Provide resources and trainings for teachers to use technology, such as Smart pens and SmartBoards, effectively in their classrooms to increase student engagement. Support teachers by providing trainings and resources as they utilize on-line resources, such as ePrep and Discovery Education.	- Monitor teachers' implementation of these resources through observations and program fidelity checks.	Training dates are established in the PD timeline	Instructional Supervisor and Curriculum Coordinators	Local Funds,

Curriculum and Instructional Integration Goals

For students to become technology literate, it is essential that they have access to technology during the school day. We want to put the tools where they will do the most good and move them frequently as needs in student learning change. Therefore, we propose 'expanding the walls of the traditional classroom' and promoting global learning into the curriculum by implementing 21st-century classrooms in our schools via Web 2.0 tools and distance learning.

Kentucky's Program of Studies defines technology literacy as the ability of students to responsibly use appropriate technology to communicate, solve problems, and access, manage, integrate, evaluate, and create information to improve learning in all subject areas and to acquire lifelong knowledge and skills in the 21st century. In addition, it provides a framework for integrating technology into all content areas.

Authentic, engaging activities must be included within these technology-rich, project-based units. Students will engage in activities that are real and relevant to their lives, inquiry-based, long-term, and interdisciplinary. They will manage and direct their own tasks and time, cooperate as part of a team, and communicate results with adults and experts.

Logan County Schools will provide its teachers and students with access to Internet resources necessary for making real-world connections, for research and data gathering, and for solving complex problems (e.g., mobile computer Labs, document cameras, interactive whiteboards, LCD projectors, digital cameras – video and still). These resources will also aid in the creation and development of projects crucial to acquiring lifelong knowledge and 21st-century skills.

Using information and communication technology (ICT), such as the online collaborative tool of videoconferencing, to connect students to their peers throughout the district, across the country, or around the world is one way we will actively engage our students.

After extensive 'practice' using others' programs, Logan County Schools will transition into its own introductory production of instructional videos. Logan County Schools has an intentional plan for building instructional capacity through on-going, job-embedded, research-based professional development. The focus of the development will be based on student and teacher needs in four areas and is detailed in the table below. In addition to using the videoconferencing equipment to connect with existing programs, we have begun to utilize it within our district. Many classrooms are actually videoconferencing with each other, allowing students to share their learning in various ways. For example, two classes read the same text and conduct Socratic Seminars via videoconference.

In the Professional Growth Academy, we continue to train teachers new to the district in existing technology initiatives. Each year, the district curriculum consultants demonstrate the videoconferencing equipment and discuss its possibilities for the classroom. Expert teachers also provide training in other instructional uses of existing technology (e. g., SMART boards, student response systems, Smartpens, graphing calculators, iPads, Kindles).

Technology is also proven to be a suitable tool for learning, as well as completing tasks/projects. Jonassen calls it a "mindtool – a computer-based tool and learning environment that functions as an intellectual partner with the learner in order to engage and facilitate critical thinking and higher-order learning" to tasks/projects. In addition, research shows growth in assessment performance in students who use technology as a learning partner, as well as in their problem-solving abilities.

Goal 1

To use Project- and inquiry-based learning to allow for alternative approaches that address students' individual differences, variations in learning styles, intelligences, and abilities and disabilities.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Project- and inquiry-based learning allowing alternative approaches that address students' individual differences, variations in learning styles, intelligences, and abilities and disabilities.	Students must be able to purposefully access information from a variety of sources, analyze and evaluate the information, and then make useful connections between what they learn in each content area and the real world in order to make intelligent decisions.	Examine success of assignments and teaching strategies used to match technology use to the curriculum, as well as to students' needs and interests.	Ongoing	District Curriculum Specialist, School Principals	Local Funds

Goal 2

Train teachers on the utilization and implementation of various Web 2.0 tools

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Train teachers on the utilization and implementation of various Web 2.0 tools (e.g., blogs, podcasts, digital storytelling, United Streaming, Web Quests). These tools are essential to project- and inquiry-based learning in the classroom. Web 2.0 tools will enable students to develop creative projects through higher-level thinking and communication while accessing information and content relevant to the real world.	Provide teachers and students with access to Internet resources necessary for making real-world connections, for research and data gathering, and for solving complex problems	Compare the use of Web 2.0 tools ability to enable students to develop creative projects through higher-level thinking and communication while accessing information and content relevant to the real world as opposed to other methods.	Ongoing	District technology coordinator and District Curriculum Specialists	Local Funds, Ed Tech funds

Student Technology Literacy Goals

Students are given the opportunity to gain the technology competencies by providing access to technology during the school day in all grade levels. With given instructional opportunities for students to gain and demonstrate technology skills that build from primary through grade 12.

The technology content standards are integrated into each curricular discipline. The purpose of integrating technology is to help students make useful connections between what they learn in each content area and the real world. Technology knowledge, concepts and skills are interwoven into lessons or units and taught in partnership with other content areas.

The technology content standards are organized by National Educational Technology Standards (NETS•S) and Performance Indicators for Students.

Technology standards are directly aligned with Kentucky's **Academic Expectations** organized around three Big Ideas that are important to the discipline of technology, **1) Information, Communication and Productivity; 2) Safety and Ethical/Social Issues;** and **3) Research, Inquiry/Problem-Solving and Innovation**. The Big Ideas are conceptual organizers for technology. Each grade level span ensures students have multiple opportunities throughout their school careers to develop skills and concepts linked to the Big Ideas.

Goal 1

To establish proficiency with Student Technology Skills based upon the ISTE National Educational Technology Standards (NETS•S) and Performance Indicators for Students

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
To assess progress using interactive technology testing based upon ISTE student standards	To benchmark students in grades 7, 8, 11, 12 in technology standards, adjusting instruction in technology skills according to the results.	Comparing each year the benchmarks as the tested grades advance through school.	Ongoing	District Technology Coordinator School Principal Library Media Specialist	No Cost

Goal 2

To Provide for development of Digital Citizenship and instruction on the use of digital tools for Research and Information Fluency.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
To have sessions and information made available addressing areas of Digital Citizenship. Explain the District Acceptable Use Policy (AUP)	To improve the practice of Digital Citizenship in a grade appropriate manner. Requiring all students to sign the AUP before granting privileges to electronic resources.	Measure the Progress of students about Digital Citizenship by their use of appropriate materials, digital habits and using digital tools for Research and Information Fluency each year by using available electronic resources.	Ongoing	District Technology Coordinator School Principal Library Media Specialist	Local Funds, KETS
To provide a public session dealing with Digital Citizenship and Internet Safety for Parents and Guardians. Explain the District Acceptable Use Policy (AUP)	To instruct parents about Digital Citizenship and encourage their support and assistance.	The involvement of Parents in developing the Digital habits within their homes will be measured standard of evaluation.	Ongoing	District Technology Coordinator School Principal Library Media Specialist	Local Funds, KETS

Staff Training/Professional Development Goals

Professional Development is offered each time we purchase a new program in our district and we take advantage of that. We offer trainings to our staff during the summer on various programs and use trainings offered by GREEC. Several staff members in our district get training each year at the KYSTE Conference. Individuals often get individual trainings as needed.

Beginning with the 2008-2009 school year, six curriculum professionals were employed by the Central Office, with the goal being the advancement of technology integration into the classroom.

During the school year, these curriculum specialists have presented technology workshops to the faculties of each of the Elementary schools and several workshops for the teachers at Logan County High School.

This model has worked very well for us this year, and we plan to continue to support teachers and students in using new technology that addresses state content and student academic achievement standards.

Our Title 1 coordinator spends funds to assist in technology for all the elementary schools in the programs applicable to Title 1. She also supervises and purchases technology for adult education services for Logan County.

The adult education facilities in Logan County are located on sites that are rented for them. None of these are on school sites. We have a portion of our budget that is dedicated to keeping current technology available to them.

Goal 1

To establish proficiency aligning with the ISTE National Educational Technology Standards (NETS•T) and Performance Indicators for Teachers.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Provide opportunities for curriculum professionals, CIO, and other technology leaders in the district to attend professional conferences, such as the KySTE Conference.	Technology leaders will learn about new technologies and new uses for current technologies and will bring that information back to the district to share with other staff members.	Supervisors will evaluate skills and performance levels by observations and successful feedback	Ongoing	District Administration, School Administration	Local Funds, District Technology, KETS, District Professional Development funds
All teachers participate in the Logan County Schools Opening Day, a day-long conference-like professional development day, held at the beginning of each school year, as well as training opportunities presented throughout the school year.	All staff members will have the opportunity to learn more about areas of technology that will directly impact their classroom	District Leaders evaluate skills outlined during the PD	Ongoing	District Administration, School Administration	District Professional Development funds

Goal 2

To equip school technical staff to properly use, troubleshoot and install instructional devices and related components.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Provide opportunities for technology staff throughout the district to obtain update training concerning the technical aspects of technology changes taking place within the District. Such as KySTE, Regional Technology Events and District Training Events.	Technology staff will learn about new technologies and new uses for current technologies with advanced troubleshooting skills and will bring those skills back to the schools to enhance that	Principals will evaluate their school technical staff performance along with District Technology Coordinator to identify strengths and weaknesses for continued training	Ongoing	District Technology Coordinator	Local Funds, District Technology

Technology Goals

A wise proverb states that “Where there is no vision the people perish.” At Logan County Schools it is our belief that technology should be viewed as a tool to achieve higher learning, and not as the avenue to accomplish that goal. While recognizing there will be future careers in the Information Technology field, the truth is the vast majority of people will not work in the field of technology but will, instead, work WITH technology in other fields. With that vision, rather than technology as a subject unto itself, we believe that technology should be used as a TOOL to help meet the educational objectives of the district and state.
With this vision in mind, the following are four essential technology goals, all of which are focused on helping students to learn and helping teachers to help those students to learn.

Goal 1

Maintain and upgrade an educational network which will allow teachers and students to fully utilize the district’s technology resources.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Provide connectivity to the Internet via the Kentucky Department of Education network	1) Increased communication between staff/students and outside entities, 2) Increased efficiency of research for staff/students, 3) Availability of outside resources, such as Renaissance Learning, KYVL, Odysseyware, Carnegie Learning , and the Student Information System, Office 365 4) ACT, COMPASS and EoC testing completed using online testing.	By using the KDE System Monitor we are able to measure the level of use of internet/cloud based resources.	Ongoing	District Technology Coordinator	Supplied by KDE

Provide connectivity to the elementary schools via managed or dark fiber optic lines with planned expansion of Bandwidth	1) Quicker, more efficient usage of the Wide Area Network, 2) Ability to centralize district housed web-based applications, such as United Streaming, Scholastic software and having the ability to implement cloud based services. This centralization will save money, which will allow for more such applications in the future	The Dark Fiber network is tested using various network monitoring tools to measure the amount of bandwidth available on each segment of the network. Checking to see that it meets the needs of each campus.	Completed October 2014	District Technology Coordinator	E-Rate, Local General Funds
Provide and maintain existing telephone service, including local and long distance service. With the added bandwidth we will begin to look at the possibilities of VoIP structure.	Better communication between schools and community/homes, more efficient communication between staff within buildings	To survey and make an inspection to insure that schools maintain ratio of classroom phones to out-going telephone trunk lines is 12 to 1	Ongoing	Director of Building and Grounds District Technology Coordinator	E-Rate, Local General Funds
Comply with and enforce all security initiatives involving the network, workstations, and data—including the current WSUS and EPO initiatives	A secure network and workstations mean less downtime for instruction involving technology, secure data ensures the reliability of the data we use for making data-driven decisions, as well as public confidence in our ability to protect private information, which will make parties more likely to share information with us in the future	Perform spot checks to insure workstations are receiving updates.	Ongoing	District and School Administration, Technology Department.	No Cost

Goal 2

Replace aging hardware and circuitry with current hardware and wiring, which includes additional data circuits according to Kentucky Department of Education guidelines for new construction, which allow for more advanced instructional applications.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Replace workstations at District Office that fail to meet standards of the KETS unmet need.	Newer workstations will provide faster response time in dealing with the administrative concerns that effect the classroom	Workstations that fail to meet KETS standards will be replaced.	Ongoing	District Technology Coordinator	KETS, Local Funds,
Replace student Workstations in each school that fail to meet the standards of the KETS unmet need. Possibly using desktop virtualization as a solution to shrinking budgets	These workstations will allow students to more efficiently use programs that require a great deal of resources to operate with less problems causing less frustration.	District Technology Committee will develop a schedule to replace workstations that fail to meet KETS standards.	Ongoing	District Technology Staff	KETS, Local Funds, Title I, Carpenter Grant
Upgrade Data wiring to CAT 6 and add additional classroom data drops at Auburn, Lewisburg and Logan County High School.	Wiring Upgrades to CAT 6 standards with adequate classroom drops will insure that our infrastructure can provide the needed transfer of information on student instructional devices.	Network testing will analyze the improved performance of the new wiring system.	Timing is Contingent upon 2015 E-Rate Funding	District Technology	E-Rate, KETS, Local Funds, Carpenter Grant

Goal 3

To provide faculty and staff members with new technology needed to help students achieve in a safe environment.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Mobile devices at Elementary Schools	To grant classrooms the ability to have research based and interactive collaboration within the classroom setting	Observe how classrooms respond with the ability to use mobile devices in the learning environment.	Ongoing as funding is available	School Technology Committees	Local Funds, KETS, Title 1
Maintaining current levels of performance within the Interactive Classroom	Provide hands on learning and presentation skills using the appropriate technology available to enhance 21st Century learning.	Observe how students become engaged using higher order thinking skills.	Ongoing as funding is available	School Technology Committees	Local Funds, KETS, Title 1
Upgrade of wireless access throughout Logan County High School to a High Density Coverage	Wireless access throughout the school will allow teachers/students to utilize laptops for instruction without setting up the mobile access point on the mobile cart, a barrier to those without the time or technical expertise. With Access Points throughout the building, laptops can be separated from the mobile carts and still connect to the wireless network.	Test Wi-Fi signal strength throughout the building and verify verbally from users that the accessibility has improved	High Density Coverage was completed October 2014.	District Technology Staff	KETS, Local Funds, Carpenter Grant, E-Rate

Continuation of Web Hosting Service For District and School Websites with staff manageability.	A Hosted web service with support, which allows the staff at each school to develop a webpage for each class. This will give them the ability to interact with students and parents in a safe and non-threating venue for instruction, information and collaboration.	By checking usage statistics we are able to determine the level of participation by the teachers, students and parents.	Service began in October 2011 and continues as long as funding is available.	District Technology Coordinator	KETS, Local Funds
Continuation of the Microsoft EES Agreement	Program allows the schools to have the latest versions on the Microsoft Windows operating system and the latest version of Microsoft Office on classroom computers while also allowing students to install Microsoft Office on their personally owned devices.	Monitoring the use of the programs to ensure that the program is still providing benefits to students at school and at home.	The EES Agreement began in October 2014 and continues as long as funding remains available.	District Technology Coordinator	KETS, Local Funds

Goal 4

To Introduce Advancing Technology to provide an efficient avenue of support for the vision of continued expansion of educational opportunity.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Continued growth of Centralized Virtual Servers to provide for future and current growth	Effective use of resources to accommodate a fast changing learning environment with an ability to add server resources as needed	Using system benchmarks testing the performance of all virtual servers and developing a system for an optimal more productive environment.	Ongoing	District Technology Staff	Local Funding, KETS
Continued growth of Centralized Storage	A Faster and effective means of accessing data and providing it to the end user with minimum delay.	Comparison of previous methods of data storage has proved the centralized solution to be the most effective.	Ongoing	District Technology Staff	Local Funding, KETS
Maintaining the Large-scale backup solution	Secure storage environment for student and instructional data.	Internal data verification gives daily reports of the backup data integrity.	Ongoing	District Technology Staff	Local Funding, KETS

Budget Summary

The Proposed Budget includes a summary of the financial means to achieve the Logan County School District's goals and objectives. The proposed budget highlights the resources needed to accomplish the significant upgrades, provide new technologies, and to support the technology curriculum initiatives of the District as outlined in this technology plan. The Current Proposed Budget for the 2015-2016 Funding Year is $1,049,615.83, which is based upon and is dependent upon E-Rate funding as well as grants that may be applied for during this funding year.

Expenses include E-rate discounted and non-discounted services, hardware, software, salaries, professional development, and other miscellaneous costs associated with each goal. The careful combination of board-allocated funds, along with E-Rate and KETS funding have been the key to maintaining and improving our level of technology services and coordination of activities between funding sources are continuous and ongoing.

A funding source for the Logan County School District for many years has been the E. Rhodes and Leona B. Carpenter Foundation, providing the financial resources directly responsible for the improvement of our information technology. The Foundation was formed in 1975 as the E. Rhodes Carpenter Foundation by E. Rhodes Carpenter, founder of the Richmond, Virginia based company now known as Carpenter Company, which has a large factory located in Logan County. In 1982, the name of the Foundation was changed to the E. Rhodes and Leona B. Carpenter Foundation.

A grant for Technology Funding will be applied for to the E. Rhodes and Leona B. Carpenter Foundation for the Logan County School District which will provide significant financial support toward the strengthening of our Technologies structural components and improvements for all data access at High School campus and board office of our school district.

The Proposed Budget is a reflection of the total cost of the completed projects outlined in this proposed technology plan and is dependent upon E-Rate, KETS and local funding. It is our aim to efficiently and effectively use funding from all sources available while seeking all other obtainable means of funding toward the progress and improvement of educational technology resources. This budget provides visual goals for planning purposes to attain the technology goals of the Logan County School District during year 3 of the 3 year planning period.

School Year: 2015-2016
Annual Budget Summary

Acquired Technologies and Professional Development	E-Rate	KETS	Other (Specify)
Dark Fiber Data Lines serving 5 Schools @ 10Gb	$226,560.00		Local Funds $56,640.00
Local and Long distance Telephone Service	$32,040.00		Local Funds $21,360.00
Web Hosting Service		$5,610.00	
Basic Maintenance Contracts on Core Router, Switches, Wireless Controllers and Access Points		$12,401.48	
Microsoft EES Licensing Renewal		$14,112.95	
Replace data cabling at Logan County High School, Lewisburg and Auburn Elementary Schools.	$276,720.00	$27,171.40	Local Tech Funds Carpenter Grant $25,000.00
Server and Virtual Machine Upgrades and Maintenance		$40,000	
Assessment and Development Tools for Students/Staff			Determined at School Level
Technology Professional Development Allocations		$2000.00	Other Amounts Determined at School with available funds (Title 1, Local)
Technology Staff Salaries and Benefits			Local $235,000
Student and Staff Workstation Upgrades		$25,000.00	$50,000.00
TOTAL	$535,320.00	$ 126,295.83	$ 388,000.00
GRAND TOTAL			**$ 1,049,615.83**
Budget allocated to resources not eligible for E-rate funding.			$ 539,295.83

Attachments/Appendices

The attached illustrations represent the current and proposed networking changes planned for improving the infrastructure of the supporting backbone in the district in preparation for future technologies. High density wireless connectivity along with 10Gb Fiber connectivity to each school campus will fortify the learning experience by allowing mobile communications with many possibilities for future expansion.

Diagram 1 (Page 23)**……Current network configuration**

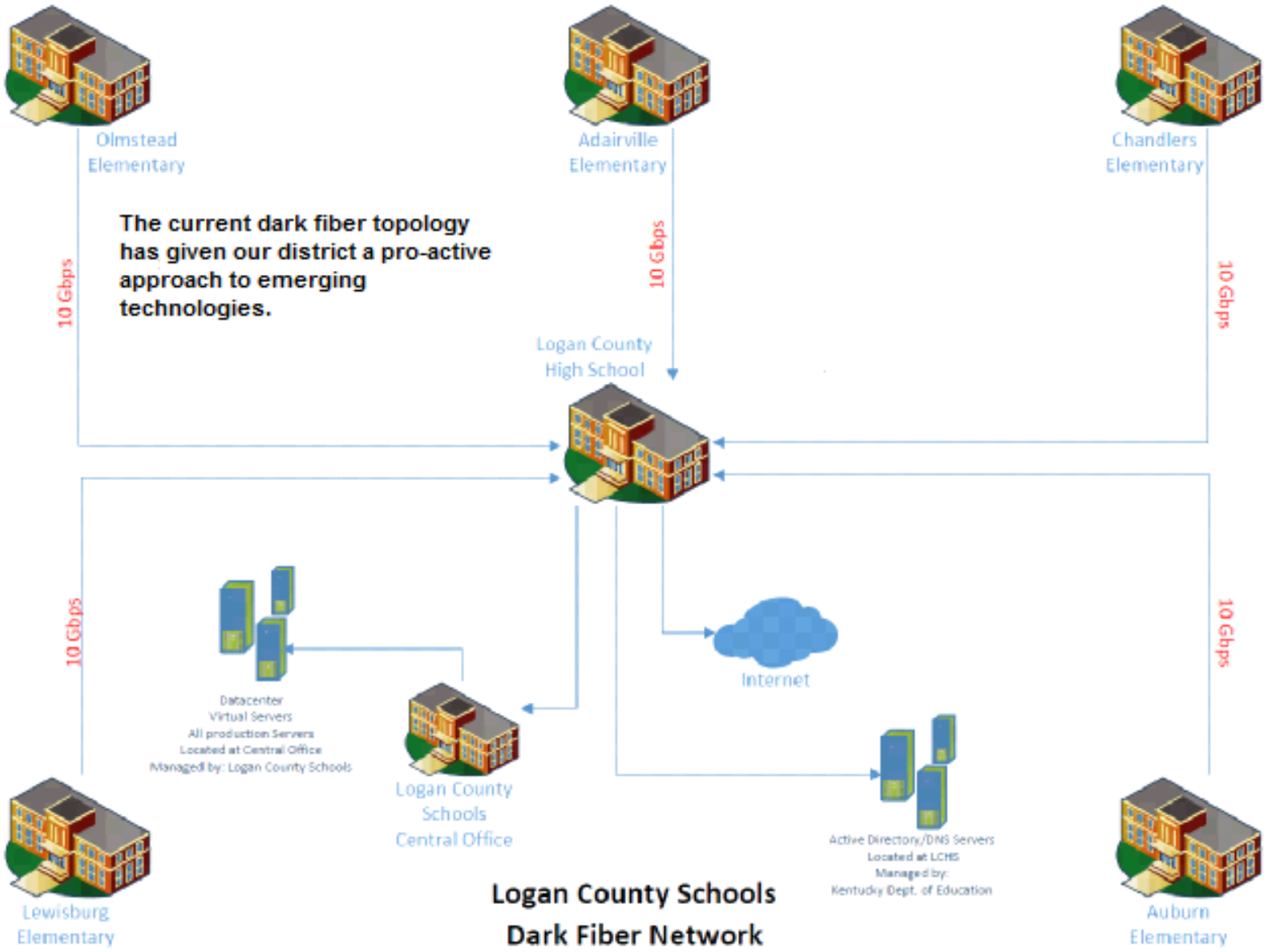
A diagram displaying current line speeds and configuration of the Leased Dark Fiber.

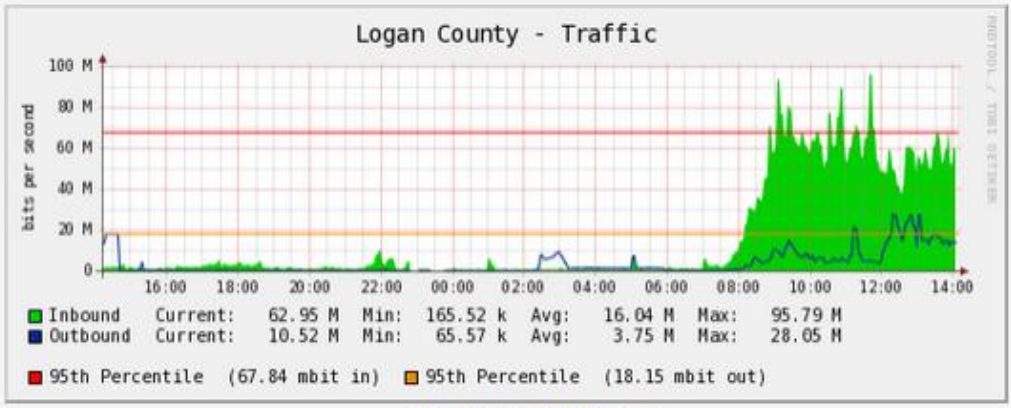
Diagram 2 (Page 24) **…… Current network utilization**

A diagram displaying the current utilization as graphed by the Kentucky Department of Education System Monitor.

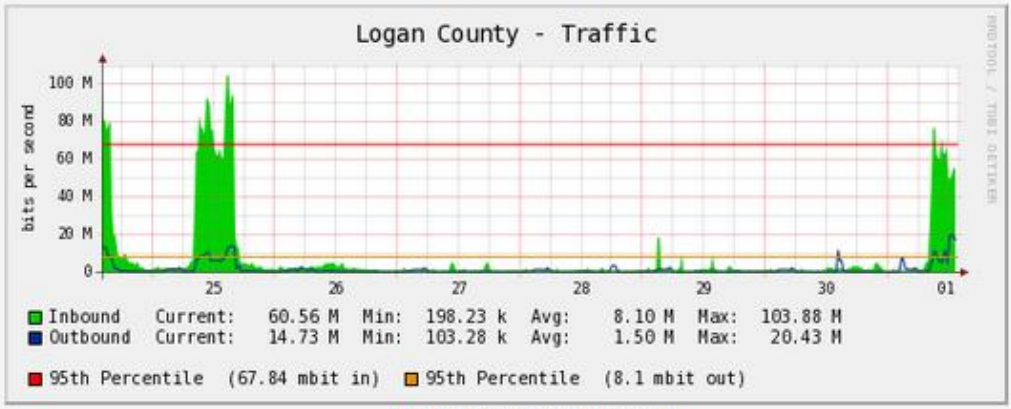
Diagram 3 (Page 25)**……Projected network utilization**

A diagram displaying the projected utilization as graphed by the Kentucky Department of Education System Monitor.

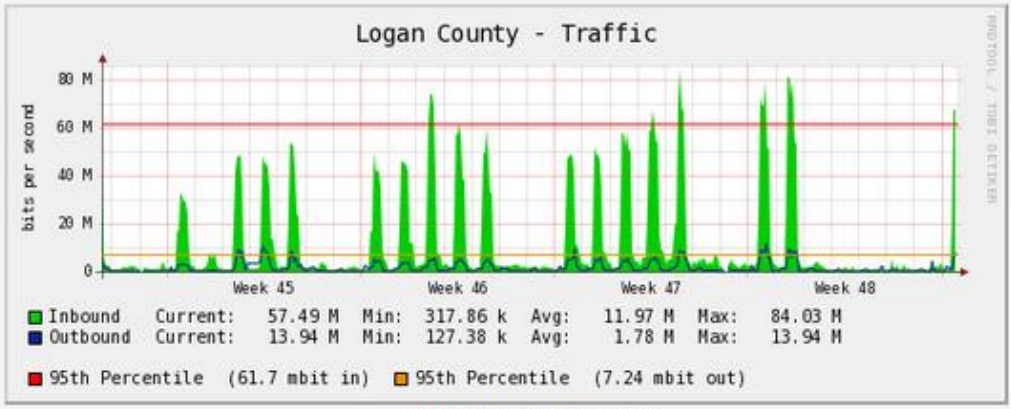

Olmstead Elementary
Adairville Elementary
Chandlers Elementary
The current dark fiber topology has given our district a pro-active approach to emerging technologies.
10 Gbps
10 Gbps
10 Gbps
Logan County High School
10 Gbps
10 Gbps
Datacenter
Virtual Servers
All production Servers
Located at Central Office
Managed by: Logan County Schools
Internet
Logan County Schools Central Office
Active Directory/DNS Servers
Located at LCHS
Managed by:
Kentucky Dept. of Education
Lewisburg Elementary
Auburn Elementary
Logan County Schools
Dark Fiber Network



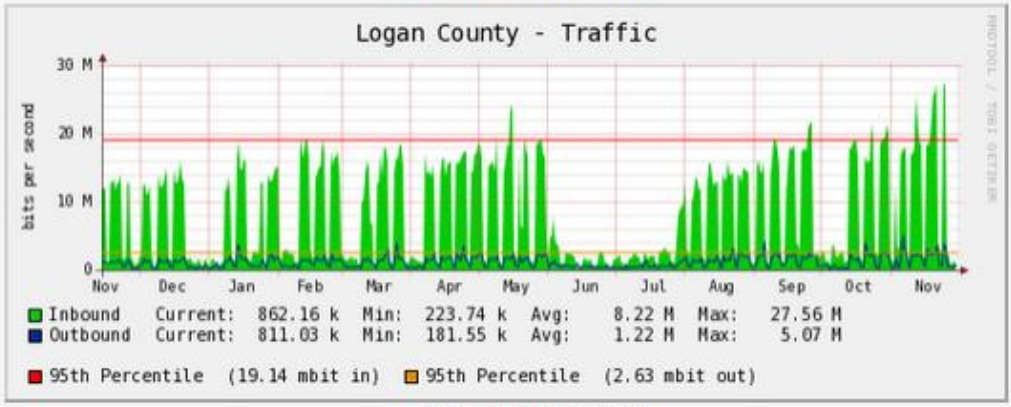
Daily (5 Minute Average)



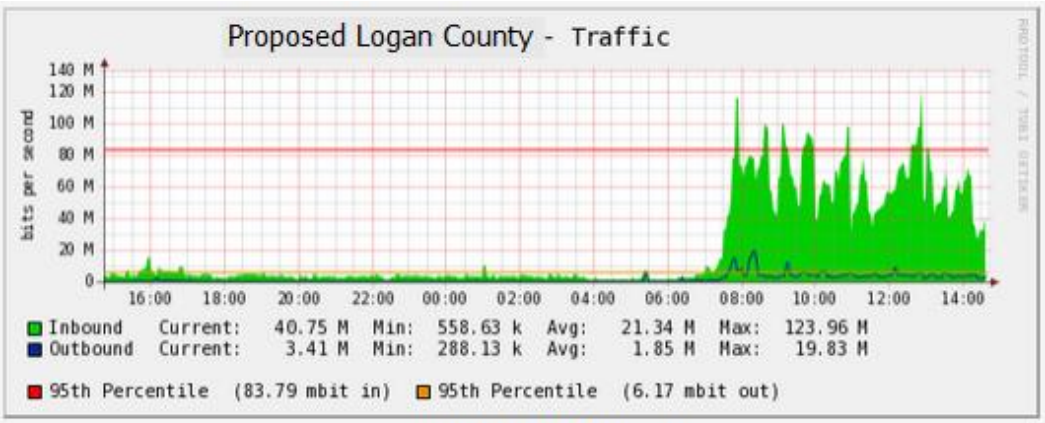
Weekly (30 Minute Average)



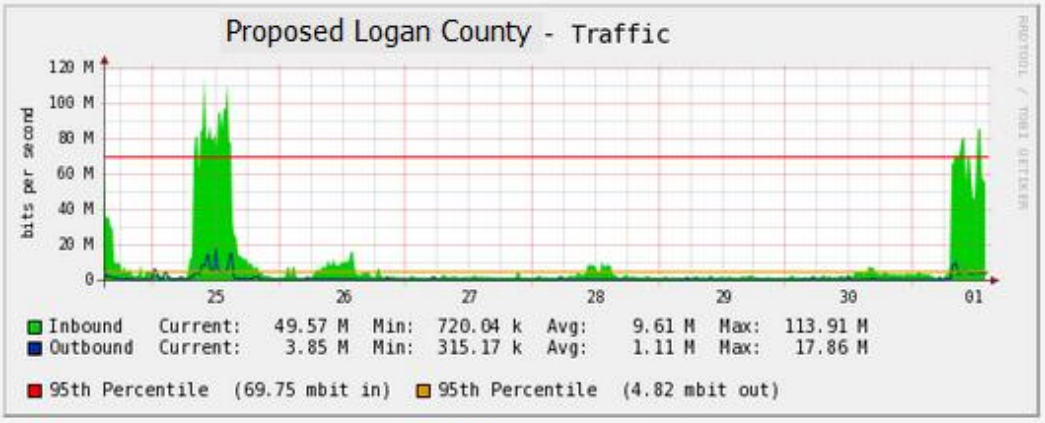
Monthly (2 Hour Average)



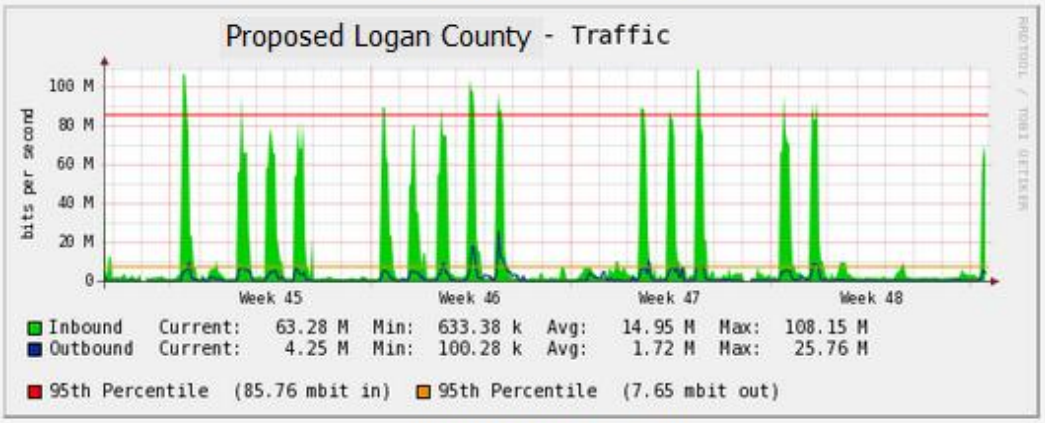
Yearly (1 Day Average)



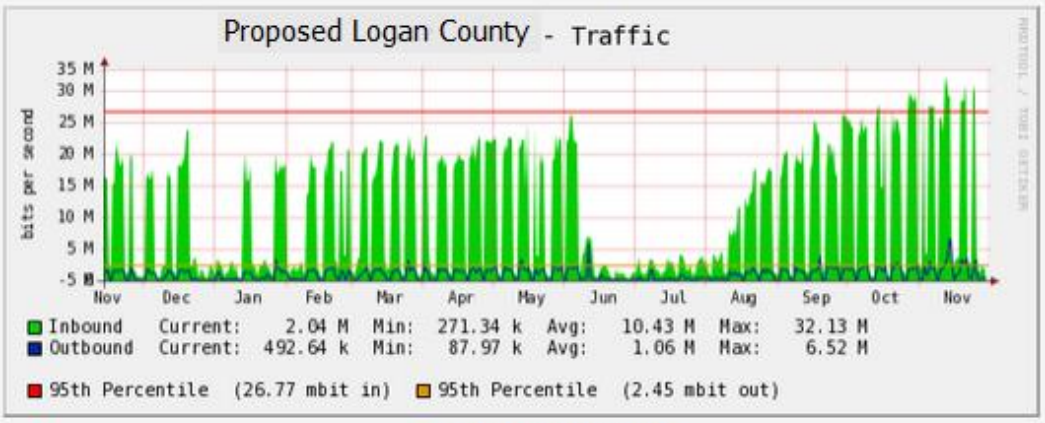
Daily (5 Minute Average)



Weekly (30 Minute Average)



Monthly (2 Hour Average)



Yearly (1 Day Average)