



Judson Independent School District

District Technology Plan
2013—2016



**Judson Independent School District Technology Plan
2013 - 2016**

Dr. Willis Mackey, Superintendent

DISTRICT PROFILE

ESC Region: 20
City, State Zip: San Antonio, TX 78233
Phone: (210) 945-5100
Fax: (210) 945-6900

Number of Campuses: 28
Total Student Enrollment: 22510
District Size: 10,000 - 24,999
Percent Econ. Disadvantaged: 62%
Number of Campuses with Direct Connection to Internet: 28
Percentage of Campuses with Direct Connection to Internet: 100.00%
Number of Classrooms with Direct Connection to Internet: 1546
Percentage of Classrooms with Direct Connection to Internet: 100.00%
Computer/Student Ratio: 3 student(s) for every computer
Computer/Teacher Ratio: 1 teacher(s) for every computer

PLAN INTRODUCTION

Technology Planning Committee:

Steve Young, Beverly Ahr, John Orona, Christopher Dean, Jesse Cortinas, Barbara Smejkal, Leticia Ornelas, JoAnn Cruz, Patricia Baker, Ric Solis, Soine Fisher, Elsa Barrientos, Melissa Arnell, Sonny Merrell, Jesse Hernandez, Chastity McGee, Gina Lehman, Carolyn Moreno, Kristin Saunders, Kristina Kellogg and Donald Pittman.

In addition to formal committee meetings, senior District technology leaders met with District department leaders to form a unified plan reflective of all District operations. An online survey of both staff and student input was conducted in May of 2012 to gather student input on what students feel is needed instructionally and technologically at Judson ISD.

The draft plan was formed from all of this input was then posted online for employees, students, and members of the public to offer comments and suggestions.

EXECUTIVE SUMMARY

As a District, Judson Independent School District (Judson ISD) must rise to the challenge of preparing students and staff for a tomorrow that is becoming increasingly dependent on technology. Both society and the workplace are continually demanding higher level thinking skills and greater flexibility than in previous generations. We believe all students and staff need to be prepared to meet the technical challenges of the 21st century through learning appropriate computer literacy skills that will provide them a set of skills to expand their ability for lifelong learning. Students will receive instruction on clearly defined technology skills that meet technology proficiency requirements for their grade level or course through a computer literacy program adopted by the state for elementary and middle schools. Judson ISD will take advantage of these resources in the coming years to meet both the TA TEKS and the integration of technology into the core content TEKS.

This challenge must be looked at in light of the economy and funding. While growth at Judson ISD has moderated in recent years, the District's community continues to expand, despite the continuing sluggish economy. Student enrollment has continued to increase year over year and is expected to continue into the foreseeable future. While student populations have been growing, funding for technology is down.

While the 2006 bond provided over \$8 million dedicated to creating a cutting edge technology infrastructure, those funds have been spent and all new expenditures are expected to have to come from local budgets and eRate. In the last two years the state of Texas cut the vital Technology Allotment funding for all districts including Judson ISD. These funds allowed us to keep updating much of our classroom technology and to be able to provide vital instructional technology support to classroom teachers. Being able to replace the outdated network infrastructure that remains at our non-eRate schools is a priority for this plan period. While there are murmurs that eRate funds are drying up, Judson ISD is hopeful that limited priority 2 funds will be available to help keep the network equipment in satisfactory working condition through the span of this plan. A fast high speed wired and wireless network are critical to Judson ISD. Almost all technology initiatives from the back office to the classroom revolve around the network, so its speed and reliability are of paramount importance. Data of all types, student information systems, finance information systems, video, lighting controls, HVAC controls, voice telephone calls, email, instant messaging, web conferencing, online learning and much more now all transverse the Judson ISD network. We do not see this process tapering off, but only increasing over the next three years. As more and more campuses look at adding more student devices for learning, whether they are District purchased tablets, laptops, or e-readers, or whether they are students who are BYOD (bringing your own device), the amounts and variety of classroom devices is growing daily and will mushroom in the three years of this plan.

Judson ISD has already successfully deployed pervasive wireless at all sites across the District. Costs will have to be incurred to support and possibly enhance this, but opportunities to reduce costs will not be ignored. Judson ISD will continue to heavily embrace server virtualization and engage in implementing cloud solutions when they make sense. Increasingly, high quality refurbished network gear and end user computing devices may have to be used, due to limited funding streams for capital replacement. While Judson ISD is extremely well positioned for providing network and cloud based services for 2013-2016, funding challenges for providing a modern up to date infrastructure and end user devices during the plan period will be cause for concern with being able to successfully execute many initiatives.

NEEDS ASSESSMENT

Assessment Process

A comprehensive needs assessment based on the District Strategic Plan is conducted annually to analyze the current status of technology in the district and determine future needs. Items analyzed included: infrastructure, hardware, software, instructional programs, courses, student achievement, technology resources,

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staff development, and technical support. Additionally meetings have been held with all district departments and staff and student surveys have been used to help assess current technology and plan future needs. Findings from this needs analysis are as follows:

Current Conditions

District-Wide Infrastructure

- Direct connection to the Internet at the Educational Resource Center via a 300 Meg uplink.
- Second connection to the Internet at Judson High School via a 100 Meg uplink.
- All campuses and main office locations have direct connection to the Internet via Gigabit links back to the Educational Resource Center or Judson High School.
- District computer training lab available for students, staff, and community members.
- Twenty-four fiber Gigabit backbone to IDFs, mostly 1000 Mbps (with some 100 Mbps) Ethernet-to-the-desktop with Cat5 or Cat6
- A minimum of two networks drops in every classroom. Most classrooms have nine drops.
- All campuses and the central offices are site-wide wireless.
- Ten locations have keyless access entry at the main exterior doors.
- All locations have security cameras at minimum at main exterior entry points. Most campuses and offices have security cameras installed in hallways as per standards.
- Each campus has access to radio services for the campus and a district-wide emergency channel monitored by the Judson ISD Police and Transportation Departments.
- VoIP installations complete at all locations that shared use of District PRIs and voicemail delivery to the email Inbox.
- Centralized backup solution with 5 days on disk, 6 months on tape and offsite storage for disaster recovery.
- Centralized virtual server farm at two data center and a tertiary site implemented to reduce cost, electrical consumption, and footprint.
- Centralized monitoring of network equipment, health, and temperature.
- Deployment and patch management for Windows desktop environment.

District-Wide Administrative Services

- District web servers providing district information and student work.
- Learner Management System to track and manage staff development offerings including e-courses for on demand training modules.
- Student Information System that maintains PEIMS, report cards, transcripts, attendance, and discipline.
- Financial information system that maintains PEIMS, financial, records, payroll, and human resources.
- Food services system that maintains financial records, inventory and free-and-reduced status.
- E-mail server on which every employee has an account.
- Online application software that allows job applicants to apply for positions.
- A document management server for archiving personnel and student records.
- Transportation program that maintains student addresses, bus routes, and is available online to employees and parents.
- Work-Order system for use by facilities and maintenance.
- Help Desk system for use by Technology Services to provide quality customer service and feedback to users.
- Intranet for employees, which houses administrative procedures, instructions, forms, and other internal documentation.
- eForms are used across the District and within campus sites to speed communication, save time, reduce paper waste and allow users to track form status as forms move throughout a workflow.

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- Report writing server that allows SIS users to pull SIS reports.
- Networked printers placed throughout the campuses.
- Employee Portal (myJISD) that offers access inside and outside the district to network file shares, web based applications, resources, and more.

District-Wide Instructional Services

- ParentCenter that allows parents to access student attendance, discipline, library books, transcripts, four year plans, meal pay status and grades.
- Judson ISD Connect! Mobile application for Google Android and Apple iOS that allows parents and students to access news, sports schedules, scores, and ParentCenter data on their mobile devices.
- Student Portal (myJISD) that offers access inside and outside the district to network file shares, web based applications, resources, Live@Edu email, Schoology LMS, ParentCenter and more.
- Live@Edu (Office 365) email services for secondary students.
- Schoology learning management system available to staff and students for learning collaboration in the MyJISD Portal.
- Professional Instructional staff has access to a reporting solution that includes demographic and standardized testing data.
- Majority of teachers and administration completed Proficiency Level 1 training in Word, Outlook and PowerPoint. Some continued on to training in Excel, Publisher and Inspiration 8.
- Four (4) additional student stations installed in elementary and middle school classrooms where teachers completed Proficiency Level 1 training via the implementation of Xtenda units.
- Library system with inter-campus book loaning and Internet access to the card catalog.
- Grade book program that synchronizes with the student information system.
- CAD, desktop publishing, advanced word processing, web mastering, digital graphics and animation, video technology, computerized accounting, computer repair, and Microsoft Academic Authorized Training.
- Data projectors mounted in all standard instructional classrooms.
- Document cameras in all standard instructional classrooms.
- Library Access:
 - High School Libraries contain a minimum of 24 networked computers and 1 networked printer.
 - Middle School Libraries contain a minimum of 20 networked computers and 1 networked printer.
 - Elementary Libraries contain a minimum of 12 networked computers and 1 networked printer.
- Secondary campuses implement Scholastic Read 180 for below grade level readers.
- Secondary campus labs implemented lab management software to monitor students and control instructional time.
- Elementary campuses implement Tech Knowledge for computer literacy at K-5.
- Majority of elementary campuses meet the standard of one computer lab and one integration lab with grade level appropriate software.
- Middle Schools have two computer literacy labs and two integration labs.
- All students grades PK-12 have access to campus-wide shares to download files from teachers.
- All students 2-12 have dedicated home drives on the network to save files. Teachers have full access to those drives to grade paperless.

High School Campus Achieve Texas Opportunities

- One (1) BIMM lab at each high school to support the Career Prep cluster.
- One (1) art, graphics and animation lab at Judson High School to support AV Cluster and one(1) at Wagner HS to support the Information & Visual Technology cluster.
- One (1) digital video editing lab at Judson High School to support AV Cluster.

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- One (1) AG lab equipped with probes and software to support the Agriculture cluster at Judson HS.
- One (1) marketing lab to support the Marketing Business & Finance cluster at Judson HS.
- One (1) computer tech lab equipped with Microsoft servers and Cisco equipment to support the Information & Visual Technology cluster at Wagner HS.
- One (1) marketing lab to support the Business Mgt and Administration cluster at Wagner HS.
- Three (3) Project Lead The Way pre-engineering labs at Wagner HS equipped with AutoCAD software and career modules to support the STEM Cluster.
- Each middle school has two career exploration labs installed: Engineering Exploration and Family & Consumer Sciences Exploration.

Procedures & Policies

Written policies in place for the following:

- Acceptable use of the Internet, World Wide Web content, network management, and equipment donations.
- Information Security
- Security camera placement and video use
- Visitor System
- Parent Notification System
- Software Acquisition Process
- District Technology Standards for classrooms and administration

Identified Needs

District-Wide Infrastructure

- Fund a 6 year replacement cycle for desktop computers.
- Fund a five year replacement cycle for network servers and a five year cycle for file services.
- Utilize eRate funding to ensure all switches are less than 10 years of age.
- Complete the installation of keyless access systems at all district buildings.
- Due to the number of mission critical and emergency services now offered via the network, implement a power backup solution for all district locations to sustain system in the event of power failure.

District-Wide Administrative Services

- Provide application training for district standard software.
- Provide introductory and advanced training in utilization of the network.
- Offer training for file and print services for both administrative and instructional purposes.
- Present training sessions for the deployment and utilization of wireless networking.
- Expand the use of electronic courses for on demand training modules.
- Provide training on Acceptable Use, Information Security and Identity Theft.
- Research and implement district-wide time management solution.
- Increase the use of electronic forms and document scanning for both administrative and student functions.
- Implement a revised Teacher Access Center.

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District-Wide Instructional Services

- Research and purchase a new computer literacy program for elementary.
- Implement Google docs for teachers and students.
- Increased focus on student devices through BYOD and targeted 1:1 initiatives.
- Provide application training for district standard software.
- Continue to develop workshops that teach how to integrate the Technology Application TEKS into the existing curriculum.
- Offer training for file and print services for both administrative and instructional purposes.
- Present training sessions for the deployment and utilization of wireless networking.
- Expansion of campus instructional support to one employee unit per campus minimum.

Procedures & Policies

- Review policies and procedures yearly.
- Full implementation and testing of Disaster Recovery Plan.

Goal 1: Ensure that all students and staff pursue mastery of clearly-defined technology skills as indicated by the TA TEKS and the SBEC standards.

Objective 1.1: All students will meet the technology proficiency requirements for their grade level or course based on the Technology Application TEKS.

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
1.1.1	Provide and maintain district hardware and software standard for all Computer Literacy Labs to support the attainment of the Technology Application TEKS.	Revised In Progress	2013-2016	Instructional Technology Staff Technology Services	All JISD computers are loaded with the standard district software. All JISD hardware meets the established standard.
1.1.2	Modify, provide and implement the technology literacy curriculum by grade level and course to address the Technology Application TEKS.	Revised In Progress	2013-2016	Technology Aides Computer Literacy Teachers Instructional Technology Staff	Lessons completed in Tech Knowledge based on Lab Utilization Plans Lessons complete in Technology Applications I based on District created Scope and Sequence Yearly Curriculum Analysis
1.1.3	Provide training on the utilization of the technology literacy curriculum for Computer Literacy Teachers, Technology Aides and students.	Revised In Progress	2013-2016	Instructional Technology Staff Technology Aides Computer Literacy Teachers	Eduphoria/Workshop records Sign-in sheets Training evaluations
1.1.4	Monitor and assess student attainment of the Technology Application TEKS.	Revised In Progress	2013-2016	Technology Aides Computer Literacy Teachers Instructional Technology Staff	TechKnowledge reports Easy-Tech reports Yearly Technology Assessment at 8 th grade Middle School Benchmark Assessments

1.1.5	Ensure all middle school students complete the Technology Applications I course by 8 th grade	Original In Progress	2013-2016	Middle School Principals Middle School Counselors Computer Literacy Teachers Instructional Technology Staff	ESchool Plus Reports Middle School Course Catalog
Objective 1.2: All instructional staff will meet the requirements for District technology proficiency.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
1.2.1	Require all instructional staff to attain required proficiencies each year.	Revised In Progress	2013-2016	Instructional Technology Staff Campus Principals	Proficiency tracking spreadsheet Practica
1.2.2	Provide online training courses based on the district required standard applications	Revised In Progress	2013-2016	Instructional Technology Staff	Online Expert training courses Proficiency Flyer posted and sent to all new instructional staff Syllabi available online
1.2.3	Monitor and regularly report the proficiency attainment progress to supervisors.	Revised In Progress	2013-2016	Instructional Technology Staff	Proficiency tracking spreadsheets Progress report to Campus Administration

Goal 2: Incorporate technology into teaching and learning in all curriculum areas to enable students to effectively build content knowledge.

Objective 2.1: Prepare and support students to integrate the Technology Application TEKS into all curriculum areas.

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
2.1.1	Implement Bring Your Own Device (BYOD) and investigate funding to increase student devices in the classroom	Original In Progress	2013-2016	Instructional Technology Staff Technology Services Staff	BYOD Policy approved by School Board Communication to stakeholders Study conducted on 1 to 1 initiative
2.1.2	Ensure that students incorporate technology tools into instructional activities.	Original Planned	2013-2016	Teachers	Classroom observations

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2.1.3	Ensure that students generate technology products that support core content knowledge.	Revised In Progress	2013-2016	Teachers Instructional Specialists Technology Aides	Sample student products
2.1.4	Implement annual district and campus technology showcases that highlight student integration projects.	Revised In Progress	2013-2016	Instructional Technology Staff Library Media Specialists Teachers	Artifacts from the annual Technology Showcases
2.1.5	Implement summer student e-Camps for elementary and secondary.	Revised In Progress	2013-2016	Instructional Technology Staff Summer school teachers	Course syllabus Student enrollment Student products
Objective 2.2: Prepare and support teachers and administrators to integrate the Technology Application TEKS into all curriculum areas.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
2.2.1	Collaborate with district curriculum teams to implement technology integration lesson plans that are embedded into the district curriculum for all content areas.	Revised In Progress	2013-2016	Instructional Specialists Instructional Technology Staff	Meeting agendas Sign-in sheets Lesson plans
2.2.2	Provide campus-based and district-wide, quality professional development opportunities focused on producing technology integrated projects for students.	Revised In Progress	2013-2016	Instructional Specialists Instructional Technology Staff	Eduphoria/Workshop records Sign in sheets Agendas Lesson plans Sample student projects Reflection sheets
2.2.3	Fund participation in technology workshops, seminars, and/or conferences for specific technology leaders to learn integration strategies and present to other JISD staff.	Revised In Progress	2013-2016	Instructional Technology Division	Registration Attendance Sharing sessions
2.2.4	Encourage administrators to include technology integration into Campus Improvement Plans.	Revised In Progress	2013-2016	Campus Administration Instructional Technology Staff	Campus Improvement Plan

2.2.5	Investigate, compile and distribute information to teachers regarding the attainment of Master Technology Teacher certification.	Revised In Progress	2013-2016	Instructional Technology Staff	Folder of research Posting to the website
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Goal 3: Enhance learning and student engagement by using technology to deliver instruction.

Objective 3.1: Teachers are able to utilize technology tools to enhance instruction.

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
3.1.1	Provide the resources for teachers to deliver instructional content in the classroom through the use of technology tools such as digital projectors, handheld devices, document cameras, interactive systems and presentation systems.	Revised In Progress	2013-2016	Instructional Technology Staff Technology Services Staff Campus Administration Curriculum & Instruction Department	Technology tools purchased Technology tools deployed to classrooms
3.1.2	Deliver training that demonstrates how to effectively deliver instructional content through the use of technology tools.	Revised In Progress	2013-2016	Instructional Specialists Library Media Specialists Instructional Technology Staff	Eduphoria/Workshop schedule Sign in sheets Evaluation analysis
3.1.3	Implement lessons incorporating best practices using technology tools for the purpose of increasing student engagement.	Revised In Progress	2013-2016	Instructional Specialists Teachers Library Media Specialists Instructional Technology Staff	Lesson plans Observations of increased student engagement

Objective 3.2: Teachers and students are able to utilize online resources to enhance learning.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
3.2.1	Provide the resources for students to access instructional content through the use of online resources such as E2020, iStation, Project Share courses and Read180.	Revised In Progress	2013-2016	Curriculum & Instruction Department Instructional Technology Staff	Technology resources/tools purchased and made available to campuses
3.2.2	Provide training for teachers and students to effectively use and maintain the online resources.	Revised In Progress	2013-2016	Instructional Specialists Trainer of Trainers Model Vendors	Eduphoria/Workshop records Sign in sheets Training materials Observation of student use
3.2.3	Use the online management system of the resource to differentiate instruction for students.	Revised In Progress	2013-2016	Teachers	Disaggregated data Resources programmed and functional
3.2.4	Implement, evaluate and reflect to improve the effectiveness of the online resource.	Revised In Progress	2013-2016	Instructional Specialists Teachers	Software usage reports (if applicable) Student scores Observations
3.2.5	Incorporate Schoology into instruction to support and extend learning	Original Planned	2013-2016	Teachers Instructional Technology Staff	Schoology school/class analytics reports

Goal 4: Develop and support policies, plans, and procedures that standardize and streamline the implementation of current and emerging technologies in order to promote equity and access for all stakeholders.

Objective 4.1: Research and implement funding and acquisition procedures to ensure successful implementation of emerging technologies

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
4.1.1	Investigate funding sources and strategies to strive for increased student access to technology as defined by the curriculum and state testing requirements	Revised In Progress	2013-2016	Chief Technology Officer Director of Instructional Technology & Library Services Grants Writer	Documentation of grants awarded Cost analysis of maintaining a 1:1 ratio
4.1.2	Seek funding for a computer replacement plan that maintains or exceeds current student to computer ratio.	Revised In Progress	2013-2016	Chief Technology Officer Chief Financial Officer	Funds allocated

Objective 4.2: Develop and utilize emerging technologies in order to facilitate communication between stakeholders.

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
4.2.1	Investigate and possibly implement the use of Google docs for staff and students	Original In Progress	2013-2016	Technology Leadership Team	Successful research and evidence of pilots

Objective 4.3: Develop and implement policies and procedures regarding access, security, and validation of data systems in order to facilitate the use of data in instruction and administrative decision making.

Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
4.3.1	Implement the TEA Education Data Warehouse to enhance access to student data for reporting and decision making activities	Original Planned	2013-2016	Director of Data Services PEIMS Coordinator	Documentation of the programming process Reports generated
4.3.2	Design and implement an automated process for the flow of data between disparate systems.	Revised In Progress	2013-2016	Database Administrator Programmer; Director of Data Services Director of Network Services	Documentation of data flow and processes
4.3.3	Research, develop and implement policies and procedures for securing data.	Revised In Progress	2013-2016	Director of Network Services Database Administrator Programmer	Adoption of Policy Documentation of training Communication of procedures

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4.3.4	Implement a web based financial information system	Original Planned	2013-2016	Director of Data Services Director of Network Services Chief Financial Officer	Implemented Web-based Financial System
Objective 4.4: Facilitate effective and efficient use of technology resources through system implementation, quality support, and staff development opportunities.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
4.4.1	Implement cost effective processes and policies to increase recycling and reuse of IT equipment.	Revised In Progress	2013-2016	Technology Services Leadership Team	Documentation of disposal compliancy
4.4.2	Convert from analog to IP based video surveillance system	Original Planned	2013-2016	Director of Desktop Services Director of Network Services	Video streams accessible on internal network;
4.4.3	Increase use of Intranet, document management and eForms in order to streamline administrative processes.	Revised In Progress	2013-2016	Cabinet Members Directors of Departments Technology Services Staff	Reduction in paper copies Files Documentation of online processes
4.4.4	Provide training to administrative and support staff.	Revised In Progress	2013-2016	Director of Desktop Services Director of Instructional Technology & Library Services Director of Network Services Software Applications Trainer	Systems operational Sessions in Eduphoria Workshop Training sign-in sheets
4.4.5	Implement online budget transfers.	Revised In Progress	2013-2016	Director of Accounting Chief Financial Officer Director of Data Services	Reduction in paper flow Documentation of system and processes
4.4.6	Research and implement solution to deliver online state mandated testing.	Revised In Progress	2013-2016	Testing Coordinator Director of Desktop Services Facilities Planning Director Maintenance Director Director of Network Services	Yearly percentage comparison of paper vs. online testing Documentation of the processes and procedures
4.4.7	Implement time and attendance system district wide.	Revised In Progress	2013-2016	Director of Accounting Chief Financial Officer Director of Data Services	Documentation of system and processes

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4.4.8	Replace paper leave and supplemental pay forms with electronic process.	Original In Progress	2013-2016	Director of Accounting Chief Financial Officer Director of Data Services	Documentation of system and processes
4.4.9	Implement position control management system.	Revised In Progress	2013-2016	Executive Director of HR Director of Data Services	Purchase order Documentation of implementation
4.4.10	Automate data transfer from free and reduced lunch forms to SIS.	Revised Planned	2013-2016	Director of Child Nutrition Director of Data Services Director of Network Services	System in place and operational
4.4.11	Leverage Internet/cloud services for those services which can be delivered most efficiently through the web or for which Judson ISD staff does not have time/nor expertise to provide.	Revised In Progress	2013-2016	Technology Leadership Team	Use of Internet services
4.4.12	Implement new web-based HR Applicant System	Original In Progress	2013-2016	Chief Technology Officer Executive Director of HR	Implemented HR Applicant System; Documentation and Process of System
4.4.13	Implement revised Teacher Access Center with better design user interface	Original Planned	2013-2014	Director of Data Services Director of Instructional Technology & Library Services	Implemented revised system
4.4.14	Implement Window 7 District Wide	Original In Progress	2013-2016	Director of Desktop Services Director of Instructional Technology & Library Services	Windows 7 deployed to all computers
4.4.15	Implement a system management server to manage computing devices and servers	Original Planned	2013-2016	Chief Technology Officer Director of Desktop Services Director of Network Services	Documentation of system and processes
4.4.16	Create mobile app for Warehouse and Mailroom Deliveries	Original Planned	2013-2016	CTO Director of Purchasing	Completed working app
4.4.17	Implement a media monitoring service to keep up with media coverage of Judson ISD	Original Planned	2013-2016	Director of Public Information	Service Implemented

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4.4.18	Research and possibly implement Online Discipline Entry for teachers	Original Planned	2013-2016	Director of Data Services PEIMS Coordinator Exec Dir of Student Support Services	Research Complete Implementation Complete
4.4.19	Research and pilot GPS bus tracking	Original Planned	2013-2016	Director of Transportation Exec Dir of Operations	Research and Pilot Complete
4.4.20	Upgrade Child Nutrition system to new version	Original Planned	2013-2016	Director of Child Nutrition Systems Support Specialist Director of Network Services	System fully implemented
4.4.21	Research and possibly Implement construction cost tracking software	Original Planned	2013-2016	Director of Facilities Planning Director of Network Services	Systems Researched System Implemented
4.4.22	Implement less paper intensive HR file management process using intensive document scanning	Original Planned	2013-2016	Exec Dir of Human Resources Director of Data Services	Process Researched Process Implemented
Objective 4.5: Collaborate with JISD Adult and Community Education Department to ensure an effective technology literacy program.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
4.5.1	Collaborate with the JISD Adult and Community Education Department to design, schedule and deliver a series of course to promote technology literacy	Revised In Progress	2013-2016	Instructional Technology Staff	Meeting agendas Schedule of courses
4.5.2	Evaluate participation in the JISD Adult and Community Education technology courses	Revised In Progress	2013-2016	Instructional Technology Staff	Attendance logs Sign in sheets

Goal 5: Provide and support a secure, robust, reliable, and flexible infrastructure.					
Objective 5.1 Provide a robust and updated physical network.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
5.1.1	Replace outdated campus network infrastructure.	Original In Progress	2013-2016	Director of Facilities Planning Director of Network Services Chief Technology Officer	Network Operations Center tested and operational
5.1.2	Expand virtualization technologies when cost effective.	Revised In Progress	2013-2016	Director of Network Services Network Engineer	Yearly comparison of virtual vs. non-virtual environment Cost analysis spreadsheet
5.1.3	Upgrade core switches to improve network throughput and routing capabilities.	Revised Planned	2013-2016	Director of Network Services	Inventory of installed switches and network statistics
5.1.4	Investigate new wireless networking options and implement as needed.	Revised In Progress	2013-2016	Director of Network Services Director of Desktop Services	Wireless project plan Pilot site up and running
5.1.5	Research networking of existing facility controls.	Revised In Progress	2013-2016	Director of Maintenance Executive Director of Operations Director of Network Services	Documentation of needs and cost analysis
5.1.6	Revise and implement a disaster recovery plan that includes hardware, software and data.	Revised In Progress	2013-2016	Technology Services Leadership Team	Adoption of Policy Documentation of training Communication of procedures
5.1.7	Develop a load-balanced, redundant solution for essential web-servers.	Revised In Progress	2013-2016	Director of Network Services, Web Developer District Webmaster Network Engineer	System online Documentation of implementation and procedures
5.1.8	Implement DMZ at JHS	Original In Progress	2013-2016	Director of Network Services Network Manager	DMZ Network Operations Center tested and operational with failover
Objective 5.2 Monitor and maintain systems to ensure security and provide highly available network resources.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence

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5.2.1	Implement storage mirroring techniques in order to maximize availability.	Revised In-Progress	2013-2016	Director of Network Services Network Engineer	Increase in file service uptime and a decrease in recovery time
5.2.2	Improve and expand implementation of an identity management solution to consolidate and automate user provisioning.	Revised In-Progress	2013-2016	Director of Network Services Network Engineer Executive Director of Human Resources Programmer	Every district user has a single network account to access all resources
5.2.3	Expand keyless access systems to all existing campus facilities with credentials managed by Active Directory.	Revised In Progress	2013-2016	Chief Technology Officer Special Systems Administrator Executive Director of Operations Director of Network Services	Systems in place and operational Reduction of exterior door keys
Objective 5.3 Foster and develop highly trained personnel in accordance with TEA recommended staffing ratios.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
5.3.1	Utilize best practices and adjust staffing to maintain an average work order completion time of less than four days.	Revised In Progress	2013-2016	Director of Desktop Services Chief Technology Officer Chief Financial Officer	Documentation of technician to computer ratio
5.3.2	Expand the helpdesk services to accommodate growth, call volume and utilize remote support capabilities.	Revised In Progress	2013-2016	Director of Desktop Services Chief Technology Officer Chief Financial Officer	Documentation through Work Order System on percentage and type of work orders solved by the Helpdesk
5.3.3	Foster and develop a highly trained technical staff to support new technologies.	Revised In Progress	2013-2016	Director of Network Services Director of Desktop Services	Increase in technician certifications Decrease in budget for outside consulting
5.3.4	Investigate expansion of data services system analyst to accommodate data growth and increased state reporting demands	Original Planned	2013-2016	Chief Technology Officer Director of Data Services Executive Director of Human Resources	Job Description written Hiring of data system analyst
Objective 5.4 Develop and maintain internal procedures and documentation.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence

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5.4.1	Develop and implement departmental metrics & KPI's for monitoring the health and effectiveness of technology systems.	Revised In Progress	2013-2016	Technology Services Leadership Team	Creation of metric standards document and periodic measurement against the standard
5.4.2	Expand and update an internal documents and information repository for configuration and process documentation.	Revised In Progress	2013-2016	Director of Network Services Network Engineer Director of Desktop Services	Documentation of procedures Yearly comparison of paper vs. electronic documents

Goal 6: To Develop and Foster a Vision for the Effective Use of Technology					
Objective 6.1: Inspire a shared vision and foster an environment conducive to the effective use technology.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
6.1.1	Facilitate and communicate a vision for technology shared by all stakeholders.	Revised In Progress	2013-2016	Technology Services Leadership Team Instructional Technology Staff	Technology Plan approved by Board of trustees and TEA STaR Chart Yearly evaluation
6.1.2	Administer the STaR chart with 100% participation of the campuses and evaluate results for the purpose of technology planning.	Revised In Progress	2013-2016	Instructional Technology Staff Teachers Principals	Completion and comparison of Texas STaR Chart objectives on a yearly basis
6.1.3	Develop, implement, and monitor a long-range technology plan to achieve the vision.	Revised In Progress	2013-2016	Superintendent Technology Services Leadership Team Instructional Technology Staff	Technology Plan approved by Board of trustees and TEA STaR Chart Yearly evaluation
6.1.4	Advocate on a state level opportunities that support the implementation of technology in learning.	Revised In Progress	2013-2016	Technology Services Leadership Team	Attend state-sponsored technology meetings/trainings Membership to state technology advocacy groups
Objective 6.2: Apply technology to enhance professional practice and promote increased productivity.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
6.2.1	Use current tools and systems for communication, management, assessment, and professional development.	Revised In Progress	2013-2016	Superintendent's Leadership Team Technology Services Leadership Team	Logs from communication systems Increase in professional development offerings and enrollments as evidenced by Workshop reports
6.2.2	Provide access and tools for staff to easily obtain the data they need to conduct business.	Revised In Progress	2013-2016	Coordinator of Professional Development Instructional Technology Leadership Team	Documentation of training plan Sign in sheets Workshop reports Models use and understanding for staff

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6.2.3	Use a variety of media and formats to communicate and interact with employees and community.	Revised In Progress	2013-2016	Chief Technology Officer Associate Superintendent of Curriculum & Instruction/Elementary Assistant Superintendent of Curriculum/Secondary Executive Director of Student Support Services Director of Public Information	Yearly evaluation of communication process
Objective 6.3: Communicate social, legal, and ethical issues related to technology and model responsible decision-making related to these issues.					
Strategies		State/Status	Timeline	Person(s) Responsible	Evidence
6.3.1	Develop and communicate procedures and practices that clearly define and enforce copyright laws and fair use guidelines.	Revised In Progress	2013-2016	Instructional Technology Leadership Team Library Services	Documentation of: Board Approved Policy Administrative Regulations Training process Yearly evaluation of communication process
6.3.2	Develop and communicate procedures to educate and enforce privacy, security, and online safety for employees and students.	Revised In Progress	2013-2016	Director of Instructional Technology & Library Services Director of Network Services	Documentation of: Board Approved Policy Administrative Regulations Training process Yearly evaluation of communication process

PLAN EVALUATION

Evaluation Process

The effectiveness of the Judson Technology Plan will be a systematic ongoing process. All aspects of the Plan will be formally evaluated annually to ensure that the use of technology is indeed improving the academic performance of all students in Judson ISD. The Technology Services and Instructional Technology Departments will be responsible for the ongoing review and evaluation of this plan. The purpose of the evaluation will be to make decisions on the impact that technology has on the learning process for all students and to stimulate widespread reforms in teaching practices. The Texas STaR Chart results as well as technology and curriculum goals for each campus will be used to help assess progress made toward meeting the objectives of the Long Range Plan for Technology in Judson ISD. Periodic meetings between the Chief Technology Officer and the Superintendent will determine progress and possible revisions to the implementation of the plan. In addition, Technology Services will maintain a document detailing the plan's progress that will be updated at least yearly.

Evaluation Methods

- Annual formal survey/needs assessment of the staff in regards to their use of technology in the classroom.
- Semi-annual informal evaluations conducted by the Technology Committee representatives on campus.
- Formal summative evaluations of campus technology plan strategies as they are completed.
- Number of students using technology as a learning tool in the classroom monitored by teachers.
- Use of benchmarks to assess student computer literacy proficiency.
- Records of staff member participation in technology training monitored by data reports from the learner management system.
- Integration of technology into the classroom as measured by lesson plans and number/type of student technology products.
- Monitoring and documentation of community access to technology resources and information on the campus web site.
- Yearly inventory of hardware and software.