



BIG SPRING SCHOOL DISTRICT

Office of the Technology Director

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District Technology Plan

District Mission: The Mission of the Big Spring School District is to provide challenging curricular and extracurricular opportunities, within a safe environment, that meet the unique needs of every individual by expanding interests, enhancing abilities, and equipping every student with knowledge, skills, and character essential to become a responsible citizen of our community, our nation, and the world.

District Vision: Shaping the future, one student at a time.

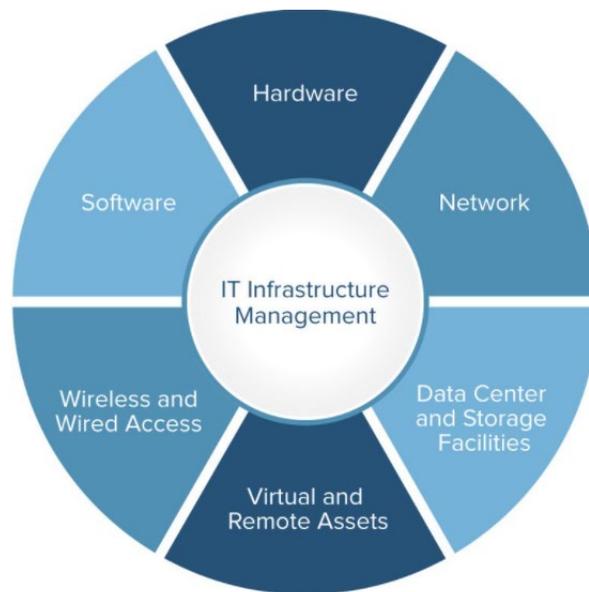
Technology Mission & Vision: The Big Spring School District recognizes that technology is an essential tool that allows our students and staff to communicate and acquire knowledge in a rapidly changing world. The district's Technology Department aims to provide reliable, efficient, current and accessible technology to maximize education opportunities. All students will have access to technology-rich learning experiences so they may become lifelong learners and productive members of the 21st century workforce.

Technology Goals:

- Develop and support resources necessary to promote technology proficiency and high academic standards by all learners.
- Ensure the families and community members have access to technology resources that enable them to be actively engaged in partnerships that encourage high student achievement.
- Provide all stakeholders with access to timely and accurate information to assist in streamlining the delivery of instruction and enhancing the efficiency of business operations.
- To maintain an infrastructure that supports increasing device counts, bandwidth, and software usage.
- Protect the integrity of the district's information and IT assets by strengthening our cybersecurity posture.

Current Assets and Supports

Infrastructure Overview



Big Spring School District has made a substantial commitment to technology in the classroom. We currently have a District wide data network in place with over 3,000 network clients. This investment in infrastructure and equipment is in a constant state of renewal, in that as we purchase new equipment whenever possible our existing equipment is repurposed and reassigned to an appropriate location. This helps us target needs across our district and ensure that we are maximizing the value of our equipment.

The District currently supports 66 network switches accommodating 6 Ethernet ports and a Wi Fi access point in each classroom. The wide-area data network on the campus connects five buildings via self-provisioned point-to-point fiber optic links at 10 Gbps. All IDF wiring closets have a direct 10GB link to the core switch in the District Office MDF. The District Office MDF is connected to the Capital Area Intermediate Unit via a point to point 3 Gbps fiber link for internet access. The District subscribes to 550 Mbps internet bandwidth through the IU Consortium. All central network equipment, Wi Fi APs, and phones are powered through uninterruptible power supplies and diesel generators.

To safeguard this robust technological infrastructure and the sensitive data it handles, the District implements a comprehensive suite of IT security controls. These include, but are not limited to, regular security audits and vulnerability assessments, stringent access control policies based on the principle of least privilege, and multi-factor authentication for critical systems. Network segmentation and firewalls are employed to isolate sensitive areas, while intrusion detection and prevention systems actively monitor for malicious activity. Furthermore, the District maintains robust data backup and recovery procedures, along with an incident response plan to address potential security breaches promptly and effectively, ensuring business continuity and data integrity.

Infrastructure Objectives

- Continue to upgrade network and Wi Fi infrastructure to meet site and district needs.
- Review internet bandwidth usage regularly and determine annually if bandwidth needs to be increased in order to meet site and district needs.
- Install a cellular signal boosting system in the high school

Hardware Overview

Classrooms

Big Spring School District commits to a minimum level of technology access in all district classrooms. This level is currently defined as encompassing the purchase, installation, maintenance, repair of the below resources:

- 1 Teacher Computer
- 1 Projector/Smartboard or 1 Interactive Panel
- 1 VoIP Telephone
- 1 Wi Fi Access Point
- 1 IP Clock/Intercom speaker
- Network Connectivity
- Access to a centralized printer

Student 1:1 Devices

Big Spring School District commits to provide an effective and sustained 1:1 program for all students to have access to the tools and resources necessary to participate in classes whether in-person or remotely. The current 1:1 devices are:

- Kindergarten – iOS devices
- Grades 1 to 8 – Chrome OS devices
- Grades 9 to 12 – Windows devices
- Special Ed – all the above with accommodations where defined

Specialized Devices in Classrooms

The district commits to provide specialized hardware for specific coursework in the curriculum such as Computer Aided Design, STEM, Keyboarding, Advanced Media, Civil 3D, and Art.

Hot Spot Program

The district commits to ensure internet access for all students though internet hotspots that are provided free to families without internet either due to lack of service where they live or due to financial hardship.

Hardware Objectives

- Continually upgrade end-of-life equipment through annual assessments.

Learning Resources

Overview

The district's virtual learning environment is a collection of interoperable web-based platforms that provide access to teaching and learning resources. Available software supported by the District includes:

<ul style="list-style-type: none">• ABC-CLIO Databases• Activate Learning• Adobe• Aimsweb• Amplify• Aspen (SIS)• Behavioral Case Manager• BrainPop / BrainPop Jr• Finalsite (website and connect)• CAOLA (Cyber School)• Clever SSO• Codesters• CommonLit• ConnectEd• Destiny• Discovery Education• DRC Insight• Pass• EdPuzzle• Epic• Flex• Get More Math• Google for Education• Go Guardian• HMH Read180• iepWriter• Illustrative Math• I-Ready	<ul style="list-style-type: none">• Imagine Learning• IXL• Legacy Studios• Lego Education• Office 365• One95 Literacy Platform• Naviance• Navigate 360• Pear Deck• Performance Matters• Prodigy• Read & Write / TextHelp• Read Live• Read Works• Registration Gateway• HMH / SAMS• Scholastic• Seesaw• SMART Technology• Smart Futures• SparkFamily• Splash Learning• Turnitin• Tynker• Typesy• Wilson Learning – Fun Hub/Fundations• Xtra Math
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Learning Resources Objectives

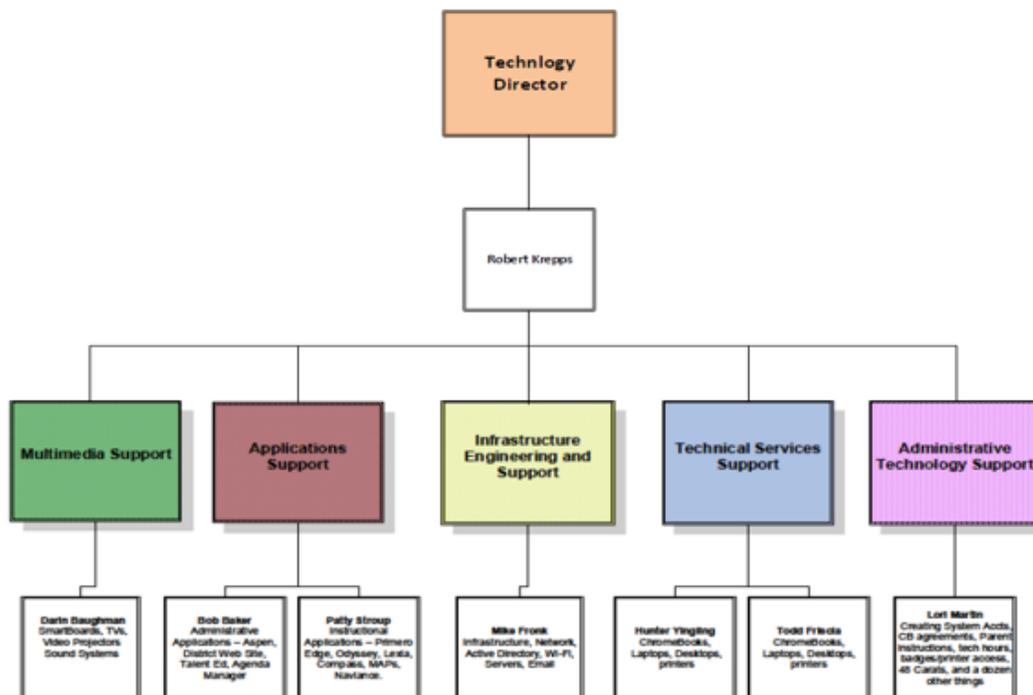
- Continue to establish and or revise policies and procedures involving acceptable use, digital citizenship, content filtering, and passwords.
- Ensure students, educators, and parents have continuous access to digital content and resources aligned to district's curriculum.
- Establish and grow a digital resources portal to share and collaborate tips, strategies, guidelines to professional staff, families, and administrators across the district.

Technical Support

Six full-time service positions are staffed by Questeq, Inc. With corporate offices in Beaver PA, Questeq specializes in outsourcing technology for K-12 districts in PA and has been in business for over 35 years. The district has an ongoing contract with Questeq to provide technical resources on the ground, along with a centralized Help Desk and NOC (Network Operations Center). These positions include a Technology Director, an Infrastructure Engineer, an Applications Manger, two Computer Technicians, and a Multi-Media Specialist.

In addition to Questeq, the District IT staff consists of 1 full-time and 1 part-time staff. These positions include a Business Applications Manager and a part-time Administrative Assistant.

Over the past 12 months, covering the period July 1, 2024 to June 30, 2025, the Information Technology department responded to and resolved over 4,000 help desk tickets.



Technical Support Objectives

- Promote and ensure Customer Satisfaction by incorporating state of the art tools and processes that utilizes IT Service Management best practices.
- Ensure the availability of and access to information that enables stakeholders to make timely, informed decisions by strengthening data and knowledge management approaches.
- Adopt new information technologies to improve business and IT operations.

Curriculum Support

Learning targets guide when and how technology is used. Technology is never invested in solely for its own sake, instead it is leveraged and prioritized to:

- Help students meet learning goals aligned to district and state standards.
- Provide access to up-to-date enhanced resources aligned to district curriculum.
- Support differentiation. Technology tools make it easier for teacher to adapt and modify learning activities and resources to meet the needs of diverse learners.
- Technology tools can be used to give teachers and students timely feedback regarding whether students are learning, allowing teachers to respond more quickly when students are confused and move on more readily when everyone has learned the material.
- Staff professional development in effective use of technology with students is offered as new curriculum is adopted.
- Online safety and cyberbullying prevention lessons are in place at a variety of grade levels.

Assessment of Technology

The Technology Department will conduct a systematic review of the District technology needs and requirements, considering what is needed today, and the expected needs based on the District strategic plan. The goals of the ongoing assessment are:

- Identifying aging and inefficient hardware, software, infrastructure, and connectivity required to support learning.
- Highlight any technology gaps and identify possible solutions through conducting market reviews and cost-benefit analysis.
- Prioritizing needs to enable making decisions about how best to allocate resources.
- Identifying financial planning considerations and recommendations.

Financial Forecast for 2025 – 2030

Access to technology is generating new learning opportunities in the classroom. It enables teachers to evolve educational models to include personalized instruction, new collaboration models and many new innovative and engaging strategies.

Funding technology infrastructure, 1:1 devices, and digital learning resources requires strategic, short-term and long-term financial planning in order to maintain the sustainability of the Technology Plan henceforth.

Technology General Budget	25-26 Forecast	26-27 Forecast	27-28 Forecast	28-29 Forecast	29-30 Forecast
Chromebook/Laptop Repairs (net Accident Plan Rev)	2,000	2,000	2,000	2,000	2,000
Teacher Laptop Lease	130,000	130,000	130,000	130,000	130,000
Classroom Technology Supplies	17,000	17,000	17,000	17,000	17,000
Classroom Software	100,284	103,293	106,391	109,583	112,871
District Software	33,458	34,462	35,496	36,560	37,657
Student Accounting/PIMS	41,716	42,967	44,257	45,584	46,952
Internet Connectivity & Hotspots	84,208	85,000	85,000	85,000	85,000
Non Classroom Technology Supplies	17,000	17,000	17,500	18,000	18,000
Capital Equipment Replacement	77,699	264,000	163,300	12,500	46,900
District Phones	35,088	36,000	36,000	36,000	36,000
CAIU Hosting and Software Contracts	35,575	36,500	36,500	37,000	37,000
Hardware Maintenance Agreements	68,648	70,000	70,000	72,100	74,263
Tech Repairs/Maintenance/Lift Rentals	12,000	15,000	15,000	15,000	15,000
Summer Project Seasonal Hires (Students)	5,313	6,000	6,000	6,000	6,000
Misc Staff & Office Expenses	1,450	1,200	1,200	1,200	1,200
Questeq Contract	805,330	805,000	829,150	854,025	879,645
1:1 Equipment	315,000	315,000	315,000	315,000	315,000
	\$1,781,769	\$1,980,422	\$1,909,793	\$1,792,552	\$1,860,488
Technology Capital Projects	25-26 Forecast	26-27 Forecast	27-28 Forecast	28-29 Forecast	29-30 Forecast
DAO CAT6 Cabling				125,000	
Security Camera Upgrades & Replacements	50,000	60,000	60,000	60,000	60,000
HS Cellular Signal Boosting	106,139				
Intercom Speaker Replacements	28,000	80,000	100,000		
Stadium Pressbox Audio System		30,000			
Oak Flat Commons/Gym Sound System		40,000			
MS Auditorium Light Relays/controls		25,000			
Upgrade DAO Storage Network and Servers				175,000	
Upgrade District WiFi & Switches (eRate)			650,000		
	\$184,139	\$235,000	\$810,000	\$360,000	\$60,000