



PARADIGM HIGH SCHOOL

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Technology Security Plan

Paradigm High School has established this plan in order to support the maintenance and protection of student data and other education-related data or information that Paradigm High School stores, transmits, or otherwise manages by technology.

This plan is part of Paradigm High School's overall Data Governance Plan and follows the guidelines and requirements set forth in *Utah's Student Data Protection Act (SDPA)*, U.C.A. §53A-1-1401 *et seq.* In addition, Paradigm High School conforms with all federal and state privacy and governance laws including the Family Educational Rights and privacy Act, 20 U.S. Code §1232g and 34 CFR Part 99 (hereinafter "FERPA"), the Government Records and Management Act U.C.A. §62G-2 (hereinafter "GRAMA"), U.C.A. §53A-1-1401 *et seq.* and Utah Administrative Code R277-487.

Purpose

The purpose of this plan is to identify the procedures for all individuals accessing and using Paradigm High School's Information Technology assets and resources and to ensure that all users abide by the prescriptions regarding the security of data stored digitally within the boundaries over which Paradigm High School has direct authority or contractual authority.

Technology Security

Paradigm High School supports a secure network system, including security for all personally identifiable information that is stored on paper or stored digitally on Paradigm High School-maintained computers and networks. This plan supports efforts to mitigate threats that may cause harm to Paradigm High School, its students, or its employees.

- Paradigm High School will ensure reasonable efforts to maintain network security.
- Paradigm High School acknowledges that data loss can be caused by human error, hardware malfunction, natural disaster, security breach, etc. and may not be preventable.
- All persons granted access to Paradigm High School's network and other technology resources are expected to be careful and aware of suspicious communications and unauthorized use of Paradigm High School devices and the network.
- When an employee or other user becomes aware of suspicious activity, he/she must immediately contact the Executive Director or Director of Educational Technology with the relevant information.

- Paradigm High School requires all third-party vendors/contractors that have access to critically sensitive data to sign a *Memorandum of Understanding Between Paradigm High School and Third-Party Vendors* before these vendors/contractors have access to Paradigm High School's systems or information.

Procedures

Definitions

Access: To directly or indirectly use, to attempt to use, to instruct, to communicate with, to cause input to, to cause output from, or otherwise to make use of any resources of a computer, computer system, computer network, or to use any means of communication with a computer, computer system, or computer network.

Authorization: Having the express or implied consent or permission of the owner, or of the person authorized by the owner, to give consent or permission to access a computer, computer system, or computer network in a manner not exceeding the consent or permission.

Computer: Any electronic device or communication facility that stores, retrieves, processes, or transmits data.

Computer System: A set of related, connected or unconnected, devices, software, or other related computer equipment.

Computer Network: The interconnection of communication or telecommunication lines between computers or computers and remote terminals; or the interconnection by wireless technology between computers or computers and remote terminals.

Computer Property: Electronic impulses, electronically produced data, information, financial instruments, software, or programs, in either machine or human readable form, and any other tangible or intangible item relating to a computer, computer system, computer network, and copies of any of the above.

Confidential Information: Data, text, or computer property that is protected by a security system that clearly evidences that the owner or custodian intends that it not be available to others without the owner's or custodian's permission.

Encryption or Encrypted Data: The translation of data into another form or code so that only people with access to a decryption key or password can access the data.

Personally Identifiable Information: Any data that may potentially identify a specific individual. Any information that can be used to distinguish one person from another and can be used for de-anonymizing anonymous data.

Security System: A computer, computer system, network, or computer property that has some form of access control technology, such as encryption, password protection, other forced authentication, or access control designed to keep out unauthorized persons.

Sensitive Data: Data that contains personally identifiable information.

System Level: Access to the system that is considered full administrative access, including operating system access and hosted application access.

Security Responsibility: Paradigm High School has appointed the Executive Director and the Director of Educational Technology as IT Security Officers responsible for overseeing Paradigm High School-wide IT security, to include the development of Paradigm High School's policies and adherence to the standards defined in this plan and related policies.

Training

- Paradigm High School shall ensure that all Paradigm High School employees who have access to sensitive information receive annual IT security training that emphasizes their personal responsibility for protecting student and employee information.
- Paradigm High School shall ensure that all students are informed of Cyber Security Awareness.

Physical Security

Computer Security

Paradigm High School shall ensure that any user's computer will not be left unattended and unlocked, especially when logged into sensitive systems or data, including student or employee information. Automatic log off, locks and password screen savers will be used to enforce this requirement. Paradigm High School shall also ensure that all equipment that contains sensitive information will be secured in order to deter theft.

Server/Network Room Security

Paradigm High School shall ensure that server rooms and telecommunication rooms/closets are protected by appropriate access control which segregates and restricts access from general school or office areas. Access control shall be enforced using either keys, electronic card readers, or a similar method so that only those IT or other staff members having access necessary to perform their job functions are allowed unescorted access.

Telecommunication rooms/closets may only remain unlocked or unsecured when because of building design it is impossible to do otherwise or due to environmental problems that require the door to be opened.

Contractor Access

Before any contractor is allowed access to any computer system, server room, or telecommunication room, the contractor will need to present a company issued identification

card, and his/her access will need to be confirmed directly by the authorized employee who issued the service request or by Paradigm High School's Executive Director or Director of Educational Technology.

Network Security

Network perimeter controls will be implemented to regulate traffic moving between trusted internal (Paradigm High School) resources and external, untrusted (Internet) entities. All network transmission of sensitive data will include encryption where technologically feasible.

Network Segmentation

Paradigm High School shall ensure that all untrusted and public access computer networks are separated from its main computer network and will utilize security policies to ensure the integrity of those computer networks. Paradigm High School will also utilize industry standards and current best practices to segment internal computer networks based on the data they contain. This action will be taken to prevent unauthorized users from accessing services unrelated to their job duties and to minimize potential damage from other compromised systems.

Wireless Networks

No wireless access point shall be installed on Paradigm High School's computer network that does not conform with current network standards as determined by the Director of Educational Technology. Any exceptions to this must be approved directly in writing by the Executive Director. Paradigm High School shall scan for and remove or disable any rogue wireless devices on a regular basis. All wireless access networks shall conform to current best practices and shall utilize at minimal WPA encryption for any connections. Open access networks are not permitted, except on a temporary basis when deemed necessary.

Remote Access

Paradigm High School shall ensure that any remote access with connectivity to Paradigm High School's internal network is achieved using the Paradigm High School's centralized VPN service that is protected by multiple factor authentication systems. Any exception to this plan must be due to a service provider's technical requirements and must be approved by the Director of Educational Technology.

Access Control

System and application access will be granted based upon the least amount of access to data and programs required by the user in accordance with a business "need-to-have" requirement.

Authentication

Paradigm High School shall enforce strong password management for employees, students, and contractors.

- Password Creation: All server system-level passwords must conform to the password construction guidelines determined by the Director of Educational Technology as per the Data Governance Plan.
- Password Protection: Passwords must not be shared with anyone. All passwords are to be treated as sensitive, confidential information.
- 2-Step Verification is required for all Paradigm High School staff accounts.
- Passwords must not be inserted into email messages or other forms of electronic communication.
- Passwords must not be revealed over the phone to anyone.
- Passwords may not be revealed on questionnaires or security forms.
- The content or format of passwords may not be disclosed in an insecure communication or as a hint.
- Any user suspecting that his/her password may have been compromised must report the incident and change all passwords.

Authorization

Paradigm High School shall ensure that user access shall be limited to only those specific access requirements necessary for employees to perform their jobs. Where possible, segregation of duties will be utilized to control authorization access. Paradigm High School shall ensure that user access will be granted and/or terminated upon timely receipt, and the Administration's approval, of a documented access request/termination.

Accounting

Paradigm High School shall ensure that audit and log files are maintained for at least ninety days for all critical security-relevant events such as invalid logon attempts, changes to the security plan/ configuration, and failed attempts to access objects by unauthorized users, etc.

Administrative Access Controls

Paradigm High School shall limit IT Administrator privileges (operating system, database, and applications) to the minimum number of staff required to perform these sensitive duties.

Incident Management

Paradigm High School will design its monitoring and response to IT related incidents to provide early notification of events and rapid response and recovery from internal or external network or system attacks.

Business Continuity

To ensure continuous critical IT services, Paradigm High School will develop a business continuity/disaster recovery plan appropriate for the size and complexity of Paradigm High School IT operations. Paradigm High School shall also develop and deploy a district-wide business continuity plan which should include as a minimum:

- Backup Data: Procedures for performing routine daily/weekly/monthly backups and storing backup media at a secured location other than the server room or adjacent facilities. As a minimum, backup media must be stored off-site a reasonably safe distance from the primary server room.
- Secondary Locations: Identify a backup processing location.
- Emergency Procedures: Document a calling tree with emergency actions to include recovery of backup data, restoration of processing at the secondary location, and generation of student and employee listings for ensuring a full head count of all students.

Malicious Software

Server and workstation protection software will be deployed to identify and eradicate malicious software attacks such as viruses, spyware, and malware.

- Paradigm High School shall install, distribute, and maintain spyware and virus protection software on all district-owned equipment, i.e. servers, workstations, and laptops.
- Paradigm High School shall ensure that malicious software protection will include frequent update downloads (minimum weekly), frequent scanning (minimum weekly), and that malicious software protection is in active state (real time) on all operating servers/workstations.
- Paradigm High School shall ensure that all security-relevant software patches (workstations and servers) are applied within thirty days and critical patches shall be applied as soon as possible.
- Paradigm High School will ensure that all computers use Paradigm High School's approved anti-virus solution.
- Any exceptions this section must be approved by the Director of Educational Technology or Executive Director.

Internet Content Filtering

In accordance with Federal and State Law, Paradigm High School shall filter internet traffic for content defined in law that is deemed harmful to minors.

- Paradigm High School acknowledges that technology-based filters are not always effective at eliminating harmful content and, therefore, Paradigm High School uses a combination of technological means and supervisory means to protect students from harmful online content.
- Paradigm High School provides a technology based filtering solution for Paradigm High School devices that students in assigned grades take home.
- Paradigm High School personnel supervise students when they access the internet using Paradigm High School-owned devices on school property.
- Paradigm High School relies on parents to provide the physical supervision necessary to protect students from accessing harmful online content at home.

Data Privacy

Paradigm High School considers the protection of the data it collects on students, employees and their families to be of the utmost importance.

- Paradigm High School protects student data in compliance with the Family Educational Rights and privacy Act, 20 U.S. Code §1232g and 34 CFR Part 99 (“FERPA”), the Government Records and Management Act U.C.A. §62G-2 (“GRAMA”), U.C.A. §53A-1-1401 et seq., 15 U.S. Code §§ 6501–6506 (“COPPA”), and Utah Administrative Code R277-487 (“Student Data Protection Act”).
- Paradigm High School shall ensure that access to employee records shall be limited to only those individuals who have specific access requirements necessary to perform their jobs. Where possible, segregation of duties will be utilized to control authorization access.

Security Audit and Remediation

Paradigm High School shall perform routine security and privacy audits in congruence with the Paradigm High School Data Governance Plan. Paradigm High School personnel shall develop remediation plans to address identified lapses in accordance with Paradigm High School Information Security Remediation Plan.

Employee Disciplinary Actions

Employee Disciplinary Actions shall be in accordance with applicable laws, regulations and Paradigm High School policies. Any employee found to be in violation of this plan or related policies may be subject to disciplinary action up to and including termination of employment with Paradigm High School.