## Clayton State University

# Clayton State System Security Plan CSU SSP

### Overview

This Standard System Security Plan (SSP) has been developed and will be used to protect all systems storing and processing CUI.

### **Purpose**

This document outlines the management, operational, and technical safeguards or countermeasures approved by the university for meeting the requirements for an information system or storage location/device involved with CUI. Deviations will be documented and will require the approval of the ISO and CIO or its designee.

### **SSP Controls**

For all deviations, or items where there is no approved central solution, marked "To be determined as appropriate per project" an approved mitigation should be entered.

NIST 800-171 Control Number	Control Family	Control Text	Standard Solution	Mitigation
3.1.1	Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Technology Infrastructure team	
3.1.2	Access Control	Limit information system access to the types of transactions and functions that authorized users are permitted to execute.	Technology Infrastructure team	
3.1.3	Access Control	Control the flow of CUI in accordance with approved authorizations.	Technology Infrastructure team	
3.1.4	Access Control	Separate the duties of individuals to reduce the risk of malevolent activity without collusion.	_	
3.1.5	Access Control	Employ the principle of least privilege, including for specific security functions and privileged accounts.	Technology Infrastructure team	
3.1.6	Access Control	Use non-privileged accounts or roles when accessing nonsecurity functions.  Infrast team		
3.1.7	Access Control	Prevent non-privileged users from executing privileged functions and audit the execution of such functions.		
3.1.8	Access Control	Limit unsuccessful logon attempts.  Techno Infrastr team		
3.1.9	Access Control	rol Provide privacy and security notices Techn consistent with applicable CUI rules. Infrasteam		
3.1.10	Access Control	Use session lock with pattern-hiding displays to prevent access/viewing of data after period of inactivity.	Technology Infrastructure team	

3.1.	.11	Access Control	Terminate (automatically) a user session	Technology	
			after a defined condition.	Infrastructure	
				team	

3.1.12 Access Control Monitor and control remote access sessions. CSU VPN 3.1.13 Access Control Employ cryptographic mechanisms to protect CSU VPN the confidentiality of remote access sessions. 3.1.14 **Access Control** Route remote access via managed access **CSU VPN** control points. 3.1.15 Access Control Authorize remote execution of privileged Technology Infrastructure commands and remote access to securityrelevant information. team 3.1.16 Access Control Authorize wireless access prior to allowing such **CSU Secure** connections. Wireless 3.1.17 **Access Control** Protect wireless access using authentication CSU Secure and encryption. Wireless Control connection of mobile devices. 3.1.18 Access Control To be determined appropriate per project 3.1.19 Encrypt CUI on mobile devices. Technology Access Control Infrastructure team Palo Alto NGFW<sup>1</sup> 3.1.20 Verify and control/limit connections to and use Access Control of external information systems. **Access Control** 3.1.21 Limit use of organizational portable storage To be determined devices on external information systems. appropriate per project 3.1.22 Access Control Control information posted or processed on To be determined publicly accessible information systems. as appropriate per project

<sup>&</sup>lt;sup>1</sup>Clayton State firewalls are Palo Alto firewalls offering Next Generation Firewall (NGFW) capabilities.

3.2.1	Awareness and Training	Ensure that managers, systems administrators, and users of organizational information systems are made aware of the security risks associated with their activities and of the applicable policies, standards, and procedures related to the security of organizational information systems.	IT Security
3.2.2	Awareness and Training	Ensure that organizational personnel are adequately trained to carry out their assigned information security-related duties and responsibilities.	IT Security
3.2.3	Awareness and Training	Provide security awareness training on recognizing and reporting potential indicators of insider threat.	IT Security
3.3.1	Audit and Accountability	Create, protect, and retain information system audit records to the extent needed to enable the monitoring, analysis, investigation, and reporting of unlawful, unauthorized, or inappropriate information system activity.	CSU AD/Local GPO
3.3.2	Audit and Accountability	Ensure that the actions of individual information system users can be uniquely traced to those users so they can be held accountable for their actions.	CSU AD/Local GPO
3.3.3	Audit and Accountability	Review and update audited events.	CSU AD/Local GPO
3.3.4	Audit and Accountability	Alert in the event of an audit process failure.	CSU AD/Local
3.3.5	Audit and Accountability	Use automated mechanisms to integrate and correlate audit review, analysis, and reporting processes for investigation and response to indications of inappropriate, suspicious, or unusual activity.	CSU AD/Local GPO
3.3.6	Audit and Accountability	Provide audit reduction and report generation to support on-demand analysis and reporting.	CSU AD/Local GPO

3.3.7	Audit and Accountability	Provide an information system capability that compares and synchronizes internal system clocks with an authoritative source to generate time stamps for audit records.	CSU AD/Local GPO	
3.3.8	Audit and Accountability	Protect audit information and audit tools from unauthorized access, modification, and deletion.	CSU AD/Local GPO	

3.3.9 Audit and Limit management of audit functionality to a CSU AD/Local Accountability subset of privileged users. GPO Technology 3.4.1 Configuration Establish and maintain baseline configurations Infrastructure team Management and inventories of organizational information systems (including hardware, software, firmware, and documentation) throughout the respective system development life cycles. 3.4.2 Establish and enforce security configuration Technology Configuration Infrastructure Management settings for information technology products team employed in organizational information systems. 3.4.3 Configuration Track, review, approve/disapprove, and audit Change Control changes to information systems. Management Form in Support **Ticketing** ServiceNow 3.4.4 Configuration Analyze the security impact of changes prior to Change Control implementation. Management Form in Support **Ticketing** ServiceNow 3.4.5 Configuration Define, document, approve, and enforce Change Control Management physical and logical access restrictions Form in Support associated with changes to the information Ticketing system. ServiceNow 3.4.6 Configuration Employ the principle of least functionality by Technology Infrastructure team Management configuring the information system to provide only essential capabilities. 3.4.7 Restrict, disable, and prevent the use of Technology Configuration Infrastructure team Management nonessential programs, functions, ports, protocols, and services.

3.4.8	Configuration Management	Apply deny-by-exception (blacklist) policy to prevent the use of unauthorized software or deny-all, permit-by-exception (whitelisting) policy to allow the execution of authorized software.	Technology Infrastructure team	
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Configuration Control and monitor user-installed software. 3.4.9 Technology Management Infrastructure team Identification and Identify information system users, processes CSU AD 3.5.1 Authentication acting on behalf of users, or devices. Identification and CSU AD Authenticate (or verify) the identities of those Authentication users, processes, or devices, as a prerequisite 3.5.2 allowing access to organizational information systems. Identification and Use multifactor authentication for local and MS Azure MFA 3.5.3 CSU VPN network access to privileged accounts and for Authentication network access to non-privileged accounts. Identification and CSU AD 3.5.4 replay-resistant authentication Employ Authentication mechanisms for network access to privileged and non-privileged accounts. Identification and Prevent reuse of identifiers for a defined CSU AD 3.5.5 Authentication period. 3.5.6 Identification and Disable identifiers after a defined period of CSU AD Authentication inactivity. Identification and CSU AD Enforce a minimum password complexity and 3.57 Authentication change of characters when new passwords are created. Identification and Prohibit password reuse for a specified number CSU AD 3.5.8 Authentication of generations. Identification and Allow temporary password use for system CSU AD Authentication logons with an immediate change to a 3.5.9 permanent password. Identification and CSU AD Store and transmit only encrypted 3.5.10 Authentication representation of passwords.

	Identification and	Obscure feedback of authentication	CSU AD	
3.5.11	Authentication	information.		

3.6.1 Incident Response Establish an operational incident-handling Information Security capability for organizational information systems that includes adequate preparation, detection, analysis, containment, recovery, and user response activities. 3.6.2 Incident Response Track, document, and report incidents to Information appropriate officials and/or authorities Security both internal and external to the organization. 3.6.3 **Incident Response** Test the organizational incident response Information Security capability. 3.7.1 Maintenance Perform maintenance on organizational Technology information systems. Infrastructure team 3.7.2 Provide effective controls on the tools, Maintenance Technology techniques, mechanisms, and personnel Infrastructure team used to conduct information system maintenance. Ensure equipment removed for off-site Maintenance 3.7.3 Technology maintenance is sanitized of any CUI. Infrastructure team 3.7.4 Maintenance Check media containing diagnostic and test To be determined as programs for malicious code before the appropriate per media are used in the information system. project 3.7.5 Maintenance multifactor authentication to Require Microsoft establish nonlocal maintenance sessions via Azure external network connections and terminate MFA and connections when nonlocal such CSU VPN maintenance is complete. 3.7.6 Maintenance Supervise the maintenance activities of Technology maintenance personnel without Infrastructure team required access authorization.

3.8.1	Media Protection	securely store) information system media	To be determined as appropriate per project
3.8.2	Media Protection	,	Technology Infrastructure team
3.83	Media Protection	Sanitize or destroy information system media containing CUI before disposal or release for reuse.	To be determined as appropriate per project
3.84	Media Protection	Mark media with necessary CUI markings and distribution limitations.	To be determined as appropriate per project
3.8,5	Media Protection	Control access to media containing CUI and maintain accountability for media during transport outside of controlled areas.	To be determined as appropriate per project
3.8.6	Media Protection	Implement cryptographic mechanisms to protect the confidentiality of CUI stored on digital media during transport unless otherwise protected by alternative physical safeguards.	as appropriate
3.8.7	Media Protection	Control the use of removable media on information system components.	To be determined as appropriate per project
3.8.8	Media Protection	Prohibit the use of portable storage devices when such devices have no identifiable owner.	To be determined as appropriate per project
3.8.9	Media Protection	Protect the confidentiality of backup CUI at storage locations.	Exagrid Backup OneDrive
3.9.1	Personnel Security	Screen individuals prior to authorizing access to information systems containing CUI.	HR
3.9.2	Personnel Security	Ensure that CUI and information systems containing CUI are protected during and after personnel actions such as terminations and transfers.	To be determined as appropriate per project

3.10.1	Physical Protection	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Physical keys Keycard Reader
3.10.2	Physical Protection	Protect and monitor the physical facility and support infrastructure for those information systems.	Physical keys Keycard Reader Video Cameras
3.10.3	Physical Protection	Escort visitors and monitor visitor activity.	To be determined as appropriate per project
3.10.4	Physical Protection	Maintain audit logs of physical access.	Keycard Reader Video Cameras
3.10.5	Physical Protection	Control and manage physical access devices.	Keycard Reader Video Cameras
3.10.6	Physical Protection	Enforce safeguarding measures for CUI at alternate work sites (e.g., telework sites).	To be determined as appropriate per project
3.11.1	Risk Assessment	Periodically assess the risk to organizational operations (including mission, functions, image, or reputation), organizational assets, and individuals, resulting from the operation of organizational information systems and the associated processing, storage, or transmission of CUI.	Information Security
3.11.2	Risk Assessment	Scan for vulnerabilities in the information system and applications periodically and when new vulnerabilities affecting the system are identified.	Information Security Nessus and Trustwave
3.11.3	Risk Assessment	Remediate vulnerabilities in accordance with assessments of risk.	To be determined as appropriate per project
3.12.1	Security Assessment	Periodically assess the security controls in organizational information systems to determine if the controls are effective in their application.	Information Security

Physical keys require the use of a key management and tracking system. This should be reviewed on a periodic basis. Clayton State police department provides key management and central monitoring for a network of video cameras across campus.

3.12.2	Security Assessment	Develop and implement plans of action designed to correct deficiencies and reduce or eliminate vulnerabilities in organizational information systems.	Information Security
3.123	Security Assessment	Monitor information system security controls on an ongoing basis to ensure the continued effectiveness of the controls.	Information Security
3.12.4	Security Assessment	Develop, document, periodically update, and implement system security plans for organizational information systems that describe the security requirements in place or planned for the systems.	SSP Template — this document
3.13.1	System and Communications Protection	Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems.	Palo Alto NGFW
3.13.2	System and Communications Protection	Employ architectural designs, software development techniques, and systems engineering principles that promote effective information security within organizational information systems.	Information Security
3.13.3	System and Communications Protection	Separate user functionality from information system management functionality.	Technology Infrastructure team
3.13.4	System and Communications Protection	Prevent unauthorized and unintended information transfer via shared system resources.	Technology Infrastructure team
3.13.5	System and Communications Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	To be determined as appropriate per project
3.13.6	System and Communications Protection	Deny network communications traffic by default and allow network communications traffic by exception (i.e., deny all, permit by exception).	Palo Alto NGFW

3.13.7	System and Communications Protection	Prevent remote devices from simultaneously establishing non-remote connections with the information system and communicating via some other connection to resources in external networks.	CSU VPN
	System and Communications Protection	Implement cryptographic mechanisms to prevent unauthorized disclosure of CUI during transmission unless otherwise protected by alternative physical safeguards.	OneDrive CSU VPN
3.13.9	System and Communications Protection	Terminate network connections associated with communications sessions at the end of the sessions or after a defined period of inactivity.	To be determined as appropriate per project
3.13.10	System and Communications Protection	Establish and manage cryptographic keys for cryptography employed in the information system;	To be determined as appropriate per project
3.13.11	System and Communications Protection	Employ FIPS-validated cryptography when used to protect the confidentiality of CUI.	Dropbox OneDrive Bitlocker CSU VPN
3.13.12	System and Communications Protection	Prohibit remote activation of collaborative computing devices and provide indication of devices in use to users present at the device.	To be determined as appropriate per project
3.13.13	System and Communications Protection	Control and monitor the use of mobile code.	To be determined as appropriate per project
3.13.14	System and Communications Protection	Control and monitor the use of Voice over Internet Protocol (VoIP) technologies.	Skype for Business Microsoft Teams
3.13.15	System and Communications Protection	Protect the authenticity of communications sessions.	Palo Alto NGFW
3.13.16	System and Communications Protection	Protect the confidentiality of CUI at rest.	OneDrive Bitlocker

BitLocker encryption uses AES to encrypt entire volumes on Windows server and client machines,

Skype for Business is available through Office 365 Microsoft Teams is available through Office 365

3.14.1	System and Information Integrity	Identify, report, and correct information and information system flaws in a timely manner.	Technology Infrastructure team
3.14.2	System and Information Integrity	Provide protection from malicious code at appropriate locations within organizational information systems.	Cylance Protect
3.14.3	System and Information Integrity	Monitor information system security alerts and advisories and take appropriate actions in response.	Information Security
	System and Information Integrity	Update malicious code protection mechanisms when new releases are available.	Cylance Protect
3.14.5	System and Information Integrity	Perform periodic scans of the information system and real-time scans of files from external sources as files are downloaded, opened, or executed.	Nessus Trustwave Cylance Protect
3.14.6	System and Information Integrity	Monitor the information system including inbound and outbound communications traffic, to detect attacks and indicators of potential attacks.	Information Security
3.14.7	System and Information Integrity	Identify unauthorized use of the information system.	Information Security

### **Approvals**

James Hunter

I acknowledge that I will manage CUI associated with this project in accordance with this SSP.

Information Security Officer

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