



### 5.8.8 Information Resource Security Configuration Management

Chapter 5 - Information Technology	Original Effective Date: June 2003
Section: 5.8 Information Security	Date Last Reviewed: February 2023
Responsible Entity: Chief Information Security Officer	Date Last Revised: May 2018

#### I. Purpose

To establish and security hardened configuration standards.

#### II. Scope

This policy applies to all current and former faculty, staff, students, residents, healthcare providers, researchers, contractors, or any other third party entities who have direct or indirect access to Information Resources created, held or maintained by UT Health San Antonio or any controlled affiliate, including, but not limited to its clinics, hospitals, and research operations.

#### III. Policy

##### A. General

1. The Chief Information Security Officer (CISO) shall establish and communicate security “hardened” configuration standards that incorporate procedures for managing system platforms that minimize vulnerability, protects against threats and complies with UT Health San Antonio policies and state and federal laws for all Information Resources owned, leased or under the control of UT Health San Antonio. All security configuration standards must minimally specify:
  - a. Information Resource Custodians shall implement baseline security configurations and maintenance protocols (such as security checklists) for securing the particular system platform(s) under their control. Reference “Security Configuration Baselines” for current operating system, platform and software configuration standards;
  - b. Information Resource Custodians shall ensure that vendor supplied patches are routinely acquired, systematically tested prior to implementation where practical, and installed promptly based on risk;

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- c. Information Resource Custodians shall remove unnecessary software, system services and drives;
- d. Information Resource Custodians shall enable security features included in vendor-supplied systems including, but not limited to, firewalls, virus scanning and malicious code protections and other file protections;
- e. Information Resource Custodians shall disable or change the password of default accounts before placing the resource on the UT Health San Antonio network;
- f. Mission Critical Information Resources and information resources that store or process sensitive data shall be configured to enable logging of access and operating system activity. Access to logs and monitoring data shall be restricted to the CISO and explicitly authorized by the CISO;
- g. Information Resources shall be configured to report its hardware and software configuration state to a centralized tracking system designated and maintained by the CISO;
- h. Information Resource Custodians shall provide the CISO with timely information on the security configuration and operating state for information resources under their control;
- i. Information Resource Custodians shall ensure access management controls are enabled to meet UT Health San Antonio policies and standards including, but not limited to, registration to the UT Health San Antonio active directory domain and use of two-factor authentication for remote access;
- j. access rights shall be granted by the Information Resource Custodian and Owners when requested by the CISO to execute security incident response, containment and discovery actions;
- k. access privileges shall be set utilizing the least privileged principle of providing the minimum amount of user, application and process access required to execute essential functions;
- l. privileged or special access to operating systems shall be based on essential need and approved by the CISO. Accounts entitled with privileged or special access shall be unique and separate from a user's standard account (account not entitled with special or privileged access rights);
- m. Information Resources shall be configured to encrypt data-at-rest and in-transit in compliance with UT Health San Antonio policies and standards;
- n. Information Resources shall be tested in accordance with policies and standards set by the CISO for known vulnerabilities periodically or when new vulnerabilities are announced;
- o. Information Resources shall be configured to grant the CISO with direct access to detailed security status information including, but not restricted to, firewall rules, IPS/IDSs rules, security configurations and patch status; and sufficient

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access rights to independently perform traffic and log monitoring, asset tracking and classification, configuration monitoring and testing and vulnerability scanning;

- p. software must be installed and operated in accordance with the applicable licensing agreement. Unauthorized or unlicensed use of software is prohibited; and
  - q. Information Resources with an operating system that is no longer supported by its vendor may not be connected to the UT Health San Antonio network.
    - (1) Vendor support requires:
      - (2) a. timely issuance of security patches to mitigate vulnerabilities identified in the operating system; or
      - (3) b. the operating system is not designated as “End-of-Life” and “End-of-Support” by its vendor.
- 2. The CISO shall ensure that devices are administered by professionally trained staff in accordance with UT Health San Antonio’s policies, standards and procedures.
  - 3. Smartphones, tablets and any device utilizing an operating system explicitly developed for mobile computing devices are exempt from this policy and must comply with the Handbook of Operating Policies (HOP) Policy [5.8.12, Mobile Device and Personally Owned Computing Policy](#).

### B. Network Security

The Infrastructure and Security Engineering (ISE) Department of UT Health SA IT is designated as the Information Resource Owner and exclusively responsible for the UT Health San Antonio Network Infrastructure including, but not limited to, the local area network, data center infrastructure, wide area and telecommunications networks, Internet, OTS network and wireless/Wi-Fi networks.

- 1. All network devices connecting to the UT Health San Antonio Network Infrastructure will be security hardened based on risk.
- 2. The network infrastructure shall be segmented either physically or logically to reduce the scope of exposure of information resources commensurate with the risk.
- 3. Configuration changes of network devices require approval of ISE and must be performed in compliance with HOP Policy [5.8.24, Change Management Security Policy](#).
- 4. No hardware device or software that provides network services shall be installed within or connecting to the UT Health San Antonio Network Infrastructure without ISE approval.
  - a. All connections of the network infrastructure to external or third party networks (including Internet, telecommunications and business partner networks) must be approved by ISE.

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- b. No extension or retransmission of computer network services by installation of a router, switch, hub, wireless access point or controller, cellular signal booster, dual ported computer or software application is permitted unless approved by ISE.
5. No hardware device or software that scans the UT Health San Antonio network, computing devices or external networks for device configuration and operating state (including software or hardware that attempts to exploit vulnerable device configurations) shall be installed or executed without the explicit approval by the CISO.
6. All firewalls and network security devices must be installed and maintained by ISE unless explicitly permitted by the CISO.
7. Networking addresses for supported protocols are allocated, registered and managed by ISE.
8. Network directory services and network address space services (including, but not limited to, DNS and DHCP services) shall be exclusively provided and managed by ISE.
9. Any information resource use of non-sanctioned protocols must be approved by ISE.
10. ISE may disable or restrict access to devices or network segments that demonstrate suspicious or abnormal behavior or deemed vulnerable to attacks or breach.

### C. Server and Storage Device Security

The Infrastructure and Security Engineering (ISE) Department of UT Health SA IT is designated as the Information Resource Owner and exclusively responsible for the UT Health San Antonio Network Infrastructure including, but not limited to, the local area network, data center infrastructure, wide area and telecommunications networks, Internet, OTS network and wireless/Wi-Fi networks.

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### **IV. Definitions**

*There are no defined terms used in this Policy.*

### **V. Related References**

#### **UT System (UTS) Policy**

[UTS 165 Information Resources Use and Security, Standard 19: Server and Device Configuration and Management](#)

[UTS 165 Information Resources Use and Security, Standard 20: Software Licensing](#)

### **VI. Review and Approval History**

- A. The approving authority of this policy is the University Executive Committee.
- B. The review frequency cycle is set for three years following the last review date, a time period that is not mandated by regulatory, accreditation, or other authority.

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<b>Effective Date</b>	<b>Action Taken</b>	<b>Approved By</b>	<b>Date Approved</b>
<b>06/2003</b>	Policy Origination		
<b>05/2018</b>	Policy Revision		
<b>02/2023</b>	Policy Review/Discretionary Edits		