JT Health

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STANDARD OPERATING PROCEDURE

Title: Access Control			
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Bill Sanny DocuSigned by:	Date:	3/1/2023	
PBSB File 1 Stable Bucki Guwitz	Date:	3/1/2023	
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1.0 Purpose

This Standard Operating Procedure (SOP) establishes processes to manage access control to CRImanaged systems, applications, and data.

2.0 Scope

This procedure applies to all users, staff, personnel, faculty, etc., that are in any manner accessing or using CRI-managed systems, applications, and data whether or not they are university employees. Access controls generally refer to both authentication (proving who you are) and authorization (what permissions you have); however, this SOP will defer to UT System and UT Health San Antonio authentication protocols and will focus on local system authorization and need to know.

3.0 Responsibility

- 3.1 <u>Technical Director</u>: role bears responsibility for assuring any software written complies with this SOP.
- 3.2 <u>Senior Manager</u>: role performs all functions related to tracking activities, managing resource allocation required for the software development process, and is the Technical Director's primary backup.
- 3.3 <u>System Administrator</u>: role performs all functions related to establishing, managing, and maintenance related to Population Health Sciences' managed servers, software, network, and security.
- 3.4 <u>Software Developer Senior/Team Lead:</u> role assures each developed application follows the application owner's authorization requirements
- 3.5 <u>Data Warehouse Developer Senior/Team Lead</u>: role assures that warehouse programmers who access the data warehouse have proper authorization to do so.
- 3.6 <u>System Owner</u>: role defines access requirements to the software system.
- 3.7 Data Owner: role defines access requirements to specific data

4.0 References

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4.1	UT Syster	n: UTS 165 Information Resources Use and Security			
4.2	UT Healtl	UT Health San Antonio Handbook of Operating Policy 5.8.4: Access Management			
4.3	21 CFR P	art 11, Electronic Records; Electronic Signatures, Ma	arch 20, 1997		
4.4	General I 11, 2002	Principles of Software Validation: Final Guidance for . FDA	Industry and FDA Staff, January		
4.5	CRI.SOP.	SDLC-001 - External Software Installation and Verific	cation		

4.6 CRI.SOP.SDLC-003 - Software Development

5.0 Acronyms and Definitions

Term	Definition			
Authentication	Proving you are who you say you are			
Authorization	Granting permissions to do something			
COTS	Commercial Off the Shelf Software/System			
CRI	Clinical Research Informatics			
DUA	Data Use Agreement: a contract that governs the exchange of specific data between two parties			
IMS	Information Management Services: UTHSA's central IT Operations			
Least Privilege	When a user is given the minimum levels of access – or permissions – needed to perform his/her job functions.			
Need to Know	limiting access to the information that a job function requires, regardless of their security clearance level or other approval			
PHI	Protected Health Information			
SOP	Standard Operating Procedure			
SOW	Statement of Work: a document within a contract that describes the work requirements for a specific project along with its performance and design expectations.			
System Owner	The term used to identify the primary point of contact for any server, resources, system, or application deployed by CRI staff and factulty.			
UTHSA	University of Texas Health Science Center San Antonio			
VM	Virtual Machine: Used as a generic term to describe a server-based container that will host the software application or service.			

6.0 Procedure

PHS CRI access control relies on the following three concepts

6.1 <u>Authentication:</u>

6.1.1 You are whom you claim to be generally done through two mechanisms

6.1.1.1 Multi-factor authentication: using more than one of the following

6.1.1.1.1 <u>What you know</u>: usernames, passwords, PINs, etc

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			6.1.1.1.2 6.1.1.1.3	<u>Who you are</u> : biometrics <u>What you have</u> : cellphone verificatior etc.	ו, Computer Access Cards,
		6.1.1.2		de authentication: Using one factor mo a username, password, and/or PIN to ga	
	6.1.2	PHS CRI and guid		nd will follow all UTS and UT Health SA	HOP authentication policies
6.2	Authoriz	<u>zation</u>			
	6.2.1 Given who you are, you may have specific system or data access rights ope directly under the concept of "least privilege".		access rights operating		
		6.2.1.1		<u>hat interact with one specific set of dat</u> tem owner	a: authorization determined
		6.2.1.2		hat interact with more than one set of e ed by the data owner.	data: authorization
6.3	<u>Need to</u>	eed to Know			
	6.3.1			person only has rights to systems or dat eed regardless of authentication or autl	
	6.3.2	(what ty	pe of positi	em and/or data owner and managed th on a user holds) or individual-based (in ect need and/or system capabilities.	-
6.4	Mechan	Mechanism and Process to define and implement access controls based			ased on CRI Resources
	6.4.1	4.1 Externally Managed Systems : Externally managed systems (e.g., Epic do not fall under this SOP. All CRI staff and faculty will submit to and and requirements of those systems; however, it is CRI's responsibility controls and documentation requirements are met, properly managed			mit to and follow the rules sponsibility to assure access
	6.4.2	on the c	riteria speci	Systems: Access to CRI deployed and i ified within this SOP, and is managed at hese systems.	• •
	6.4.3	the crite	eria specifie	ware: Access to CRI deployed and man d within this SOP, and is managed at a I fined by the CRI.SOP.SDLC-003 - Softwa	evel determined by the
	6.4.4	specified	d within this	Resources: Access to CRI servers or VN s SOP, is approved by either the Technic elemented by CRI's System Administrate	cal Director or Senior
	6.4.5	was not Data and	collected by d will be ma	data residing on a CRI server, resource, y a CRI-managed or CRI-developed syst maged in accordance with its associated atement of Work (SOW), or research pro	em is considered External d Data Use Agreement

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7.0 SOP Deviations

Deviations from this and all SOPs are handled according to CRI.POL.001 *Clinical Research Informatics Quality Management System (QMS)*.

8.0 Review & Revisions

Review and revisions of this and all SOPs are handled according to CRI.POL.001 *Clinical Research Informatics Quality Management System (QMS).*

9.0 Attachments

10.0 Revision History

Version No.	Revision Date	Description of Revision	