

EAST TENNESSEE STATE UNIVERSITY

The ETSU Information Technology Council (ITC) has proposed an Information Security Policy that has been out for public comment for 30 days. The policy stats that ETSU information security will implement security best practices as outlined by the National Institute of Standards and Technology (NIST) 800-53. These guidelines are standard for federal agencies and include 17 categories/families containing 240 controls. Therefore, ETSU may not need to implement every control in each family included in the standard but this standard provides a very good foundation for which to base our information security best practices. The following is a list of the Control Families along with one example of a control for each. Hopefully this will provide some clarity and context for the Information Security Policy brought forward by ITC.

NIST SP 800-53 CONTROLS		
FAMILY: Access Control (25)		
AC-17	Remote Access	
	1. Develops, documents, and disseminates to [Assignment: organization-defined personnel or	
	roles]:	
	 An access control policy that addresses purpose, scope, roles, responsibilities, 	
	management commitment, coordination among organizational entities, and compliance;	
	and	
	2. Procedures to facilitate the implementation of the access control policy and associated	
	access controls; and	
	2. Reviews and updates the current:	
	1. Access control policy [Assignment: organization-defined frequency]; and	
	2. Access control procedures [Assignment: organization-defined frequency].	
	EX. The organization:	
	(a) Authorizes the execution of privileged commands and access to security-relevant	
	(b) Decuments the refience for such access in the accurity plan for the information	
	(b) Documents the rationale for such access in the security plan for the mormation system	
	System.	
AT 2	Security Awaranaga Training	
A1-2	The argonization provides basic acquirity overenees training to information evetem upor	
	including managers, sopier executives, and contractors):	
	(including managers, senior executives, and contractors).	
	a. As part of finitial finiting for thew users,	
	b. When required by information system changes, and	
	c. [Assignment. organization-denned nequency] thereafter.	
	EX The organization includes practical exercises in security awareness training that simulate	
	actual cyber-attacks	
FAMILY Audit	t and Accountability (16)	
ALL-6	Audit Review Analysis and Reporting	
	a Reviews and analyzes information system audit records [Assignment: organization-defined	
	frequency) for indications of [Assignment: organization-defined inappropriate or upusual activity]: and	
	Thequency for moleations of [Assignment. organization-defined mappropriate of unusual activity], and	

	b. Reports findings to [Assignment: organization-defined personnel or roles].
	EX. The experimentation employe outempted mechanisms to integrate audit review, englycic, and
	reporting processes to support organizational processes for investigation and response to
	suspicious activities.
FAMILY: Secu	irity Assessment and Authorization (9)
CA-2	Security Assessments
	 a. Develops a security assessment plan that describes the scope of the assessment including: 1. Security controls and control enhancements under assessment; 2. Assessment procedures to be used to determine security control effectiveness; and 3. Assessment environment, assessment team, and assessment roles and responsibilities;
	b. Assesses the security controls in the information system and its environment of operation [Assignment: organization-defined frequency] to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting established security requirements;
	d. Provides the results of the security control assessment to [Assignment: organization-defined individuals or roles].
	EX. The organization employs assessors or assessment teams with [Assignment: organization-defined level of independence] to conduct security control assessments.
FAMILY: Conf	iguration Management (11)
CM-7	Least Functionality
	I he organization:
	b. Prohibits or restricts the use of the following functions, ports, protocols, and/or services:
	[Assignment: organization-defined prohibited or restricted functions, ports, protocols, and/or
	services].
	EX. The organization: (a) Reviews the information system [Assignment: organization-defined frequency] to identify unnecessary and/or non-secure functions, ports, protocols, and services; and
	(b) Disables [Assignment: organization-defined functions, ports, protocols, and services within the information system deemed to be unnecessary and/or non-secure]
FAMILY: Cont	ingency Planning (13)
CP-2	Contingency Plan
0	The organization:
	a. Develops a contingency plan for the information system that:
	1. Identifies essential missions and business functions and associated contingency
	requirements;
	 Provides recovery objectives, restoration priorities, and metrics; Addresses contingency roles, responsibilities, assigned individuals with contact information; Addresses maintaining essential missions and business functions despite an information system disruption, compromise, or failure;
	Addresses eventual, full information system restoration without deterioration of the security safeguards originally planned and implemented; and
	6. Is reviewed and approved by [Assignment: organization-defined personnel or roles];b. Distributes copies of the contingency plan to [Assignment: organization-defined key
	contingency personnel (identified by name and/or by role) and organizational elements];
	 c. Coordinates contingency planning activities with incident handling activities; d. Reviews the contingency plan for the information system [Assignment: organization-defined
	e. Updates the contingency plan to address changes to the organization, information system, or environment of operation and problems encountered during contingency plan implementation, execution, or testing;
	f. Communicates contingency plan changes to [Assignment: organization-defined key contingency personnel (identified by name and/or by role) and organizational elements]; and g. Protects the contingency plan from unauthorized disclosure and modification.

	EX. The organization conducts capacity planning so that necessary capacity for information
	processing, telecommunications, and environmental support exists during contingency
	operations.
FAMILY: Ident	ification and Authentication (11)
IA-2	Identification and Authentication (Organizational Users)
	The information system uniquely identifies and authenticates organizational users (or processes acting on behalf of organizational users).
	EX. The information system implements multifactor authentication for network access to privileged accounts such that one of the factors is provided by a device separate from the system gaining access and the device meets [Assignment: organization-defined strength of mechanism requirements].
FAMILY: Incide	ent Response (10)
IR-2	Incident Handling
	 The organization: a. Implements an incident handling capability for security incidents that includes preparation, detection and analysis, containment, eradication, and recovery; b. Coordinates incident handling activities with contingency planning activities; and
	c. Incorporates lessons learned from ongoing incident handling activities into incident response procedures, training, and testing, and implements the resulting changes accordingly.
	EX. The organization coordinates with [Assignment: organization-defined external organizations] to correlate and share [Assignment: organization-defined incident information] to achieve a cross-organization perspective on incident awareness and more effective incident responses.
FAMILY: Main	tenance (6)
MA-6	Timely Maintenance
	The organization obtains maintenance support and/or spare parts for [Assignment: organization-defined information system components] within [Assignment: organization-defined time period] of failure.
	EX. The organization performs predictive maintenance on [Assignment: organization-defined information system components] at [Assignment: organization-defined time intervals].
FAMILY: Medi	a Protection (8)
MP-6	Media Sanitization
	a. Sanitizes [Assignment: organization-defined information system media] prior to disposal, release out of organizational control, or release for reuse using [Assignment: organization-defined sanitization techniques and procedures] in accordance with applicable federal and organizational standards and policies; and
	b. Employs sanitization mechanisms with the strength and integrity commensurate with the security category or classification of the information.
	EX. The organization applies nondestructive sanitization techniques to portable storage devices prior to connecting such devices to the information system under the following circumstances: [Assignment: organization-defined circumstances requiring sanitization of portable storage devices].
FAMILY: Phys	ical and Environmental Protection (20)
PE-19	Information Leakage
	The organization protects the information system from information leakage due to electromagnetic signals emanations.
	EX. The organization ensures that information system components, associated data communications, and networks are protected in accordance with national emissions and TEMPEST policies and procedures based on the security category or classification of the
	information.
FAMILY: Planr	ning (9)

	Information Security Architecture
	The organization:
	a. Develops an information security architecture for the information system that:
	1. Describes the overall philosophy, requirements, and approach to be taken with regard to
	protecting the confidentiality, integrity, and availability of organizational information;
	2. Describes how the information security architecture is integrated into and supports the
	enterprise architecture: and
	3 Describes any information security assumptions about and dependencies on external
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	b. Reviews and updates the information security architecture [Assignment: organization-defined
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	nequency] to renect updates in the enterprise architecture, and
	c. Ensures that planned information security architecture changes are reflected in the security plan,
	the security concept of Operations (CONOPS), and organizational procurements/acquisitions.
	EX. The organization designs its security architecture using a defense-in-depth approach that:
	(a) Allocates [Assignment: organization_defined security safeguards] to [Assignment:
	(a) Anotates [Assignment: organization-defined security safeguards] to [Assignment:
	(b) Ensures that the allocated security sefectuards ensures in a secretizated and
	(b) Ensures that the anocated security safeguards operate in a coordinated and
	mutually reinforcing manner.
FAMILY: Perso	onnel Security (8)
PS-3	Personnel Screening
	The organization:
	 a. Screens individuals prior to authorizing access to the information system; and
	 Rescreens individuals according to [Assignment: organization-defined conditions requiring
	rescreening and, where rescreening is so indicated, the frequency of such rescreening].
	EX. The organization ensures that individuals accessing an information system processing,
	storing, or transmitting classified information are cleared and indoctrinated to the highest
	classification level of the information to which they have access on the system.
FAMILY: Risk	Assessment (6)
RA-5	Vulnerability Screening
	The organization:
	The organization: a. Scans for vulnerabilities in the information system and hosted applications [Assignment:
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	EX. The organization provides [Selection (one or more): in-house support; [Assignment:	
	organization-defined support from external providers]] for unsupported information system	
	components.	
FAMILY: System and Communications Protection (44)		
SC-42	Sensor Capability and Data	
	The information system:	
	a. Prohibits the remote activation of environmental sensing capabilities with the following exceptions:	
	[Assignment: organization-defined exceptions where remote activation of sensors is allowed]; and	
	b. Provides an explicit indication of sensor use to [Assignment: organization-defined class of users].	
	EX. The organization prohibits the use of devices possessing [Assignment: organization-	
	defined environmental sensing capabilities] in [Assignment: organization-defined facilities,	
	areas, or systems].	
FAMILY: System and Information Integrity (17)		
SI-13	Predictable Failure Prevention	
	The organization:	
	a. Determines mean time to failure (MTTF) for [Assignment: organization-defined information system	
	components] in specific environments of operation; and	
	b. Provides substitute information system components and a means to exchange active and standby	
	components at [Assignment: organization-defined MTTF substitution criteria].	
	EX. The organization takes information system components out of service by transferring	
	component responsibilities to substitute components no later than [Assignment:	
	organization-defined fraction or percentage] of mean time to failure.	