

Information Technology (IT) System Audit and Accountability (AU) Standard

January 31, 2022

**U.S. Department of Education (ED)
Office of the Chief Information Officer (OCIO)
Information Assurance Services (IAS)**



Questions about the policies outlined in this document should be directed to Information Assurance Services (IAS) at OCIO_IAS@ed.gov

APPROVAL

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Revision History

The table below identifies all changes that have been incorporated into this document.

Version	Date	Summary of Changes
1.0	12/24/2021	Initial draft of new standard which combines NIST SP 800-53, Revision 5 controls, including ED specific control parameter values, with existing policy standards and requirements from OMB M-21-31.
1.1	1/18/2022	Update to incorporate feedback from Information Assurance Services (IAS), Governance, Risk and Policy (GRP) Team.
1.2	1/31/2022	Update to incorporate feedback from IAS; address new security measures required by Executive Order (EO) 14028, including Office of Management and Budget (OMB) regulations and memoranda and updated NIST guidance issued to comply with the EO.

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1 INTRODUCTION

1.1 Purpose

The Federal Information Security Modernization Act (FISMA)¹ and implementing regulation Office of Management and Budget (OMB) Circular A-130, *Managing Information as a Strategic Resource*², requires each federal agency to develop, document, and implement an agency-wide program to provide information security for the information and information systems that support the operations and assets of the agency, including those provided or managed by another agency, contractor, or other source, and services that are either fully or partially provided, including agency-hosted, outsourced, and cloud-based solutions. Federal Information Processing Standards (FIPS) Publication 200, *Minimum Security Requirements for Federal Information and Information Systems*³, mandates the use of National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53, *Security and Privacy Controls for Information Systems and Organizations*⁴, as baseline information system controls.

This governance document establishes Department information technology (IT) system audit and accountability controls standards necessary to improve the efficiency of operation or security of Department information systems and comply with Federal laws, regulations, Executive Orders, Emergency Orders, Binding Operational Directives, and Department Administrative Communications System (ACS) directives and policies. In doing so, these standards supersede any prior governance documentation establishing such standards.

1.2 Scope

These standards apply to all information and information systems that support the operations and assets of the Department, including those provided or managed by another agency, contractor, or other source, as well as services that are either fully or partially provided, including Department-hosted, outsourced, and cloud-based solutions. Principal Offices, employees, contractors, external service providers and system users are required to comply with these audit and accountability control standards.

2 STANDARDS

The Department standards for IT system audit and accountability controls are organized to follow the order in which controls are presented in the current version of NIST SP 800-53. To define a control baseline for Department information systems, a FIPS 199 categorization level (e.g., Low (L), Moderate (M) and High (H)) is assigned to each requirement. This designator

¹ Public Law 113-283-Dec. 18, 2014, <https://www.congress.gov/113/plaws/publ283/PLAW-113publ283.pdf>

² Office of Management and Budget (OMB) Circular A-130, <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/circulars/A130/a130revised.pdf>

³ FIPS 200, <https://nvlpubs.nist.gov/nistpubs/fips/nist.fips.200.pdf>

⁴ NIST SP 800-53, <https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

indicates a requirement applies to information systems categorized at that FIPS 199 impact-level. Designators are also used to indicate when NIST SP 800-53 Privacy (P) baseline controls are required. To manage risk to within the Department's risk tolerance and appetite, control overlays are provided when the Department requires implementation of control(s) that are not required by the FIPS 199 impact-level or privacy baseline. In addition to the controls required by this standard, High Value Assets (HVAs) must implement and comply with the current version of the HVA Control Overlay issued and maintained by the Department of Homeland Security (DHS), Cybersecurity & Infrastructure Security Agency (CISA).

This standard directly supports the Department's integration of the NIST Cyber Security Framework (CSF) in focusing on using business drivers to guide cybersecurity activities and considering cybersecurity risks as part of the Department's risk management processes. Refer to Appendix A for a summary of controls by baseline and corresponding NIST CSF categories and subcategories.

2.1 AU-1 Audit and Accountability Policy and Procedures (P, L, M, H)

The Department shall develop, document, and disseminate to all ED employees, contractors, and users authorized to access to ED information systems, or systems operated or maintained on behalf of ED, or ED information as defined in OCIO: 3-112/ACSD-OCIO-004, *Cybersecurity Policy* a Department-level audit and accountability policy (e.g., this document) that:

- (a) addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and
- (b) is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines.
- (c) authorizes the Department Chief Information Security Officer (CISO) and Department Chief Information Officer (CIO) to issue subordinate standards, procedures, and memos, with the same authority and enforcement as OCIO: 3-112/ACSD-OCIO-004, *Cybersecurity Policy*.

The Department CISO in conjunction with the Senior Agency Official for Privacy (SAOP) are designated to manage the development, documentation, and dissemination of the Department-level IT system audit and accountability policy.

This policy shall be reviewed and updated annually (i.e., each fiscal year) and following the identification of evolving threats, issuance of new or significantly changed existing Federal laws, executive orders, directives, regulations, and ED policies, identification of emerging technology and information technology service delivery models and determination that adjustments are deemed necessary to improve its effectiveness based upon feedback from Principal Office personnel.

Principal Office Information System Owners (ISO) and Information System Security Officers (ISSOs) are required to manage the development, documentation, and dissemination of system

specific procedures to facilitate the implementation of this policy standard and associated audit and accountability controls. The ISO and ISSO shall review audit and accountability procedures annually (i.e., each fiscal year) and following the identification of evolving threats, issuance of new or significantly changed existing Federal laws, executive orders, directives, regulations, and ED policies, identification of emerging technology and information technology service delivery models and determination that adjustments are deemed necessary to improve its effectiveness based upon feedback from Principal Office personnel.

2.2 AU-2 Event Logging (P, L, M, H and Control Overlay)

- a. Identify the types of events that the system is capable of logging in support of the audit function. The types of events shall include those events that are significant and relevant to the security of systems and the privacy of individuals and that provide the ability to establish, correlate, and investigate events relating to an incident or identify those responsible for one.
- b. Coordinate the event logging function with other organizational entities requiring audit-related information to guide and inform the selection criteria for events to be logged.
- c. Specify the event types for logging within the system, as required to comply with OMB Memorandum M-21-31, *Improving the Federal Government's Investigative and Remediation Capabilities Related to Cybersecurity Incidents*, or successor.
- d. Provide a rationale for why the event types selected for logging are deemed to be adequate to support after-the-fact investigations of incidents.
- e. Review and update the event types selected for logging annually (i.e., each fiscal year) or whenever there is a change in Department policies and standards, system's threat environment, or tiers and maturity model for event log management published by OMB memo.

Control Overlay AU-2 ED-01 (L, M, H): Document the system logging maturity tier level quarterly in Cyber Security Assessment and Management (CSAM), upload or link one or more artifact in CSAM to provide evidence of stated level and associate the supporting artifact/evidence with this control.

Control Overlay AU-2 ED-02 (L, M, H): Configure logging to record the necessary information about security events involving EO-critical software platforms and all software running on those platforms.

2.3 AU-3 Content of Audit Records (L, M, H)

Ensure that audit records contain information that establishes the following:

- a. What type of event occurred;
- b. When the event occurred;
- c. Where the event occurred;

- d. Source of the event;
- e. Outcome of the event; and
- f. Identity of any individuals, subjects, or objects/entities associated with the event.

2.3.1 AU-3(1) Content of Audit Records | Additional Audit Information (M, H)

Generate audit records containing additional information as required to comply with OMB M-21-31 or successor.

2.3.2 AU-3(3) Content of Audit Records | Limit Personally Identifiable Information Elements (P)

Limit personally identifiable information contained in audit records to the elements identified in the privacy risk assessment authorized by the Department's SAOP.

2.4 AU-4 Audit Log Storage Capacity (L, M, H and Control Overlay)

Allocate audit log storage capacity to accommodate the reduction in the likelihood of such capacity being exceeded and resulting in the potential loss or reduction of audit logging capability. At a minimum, audit log storage capacity must comply with OMB M-21-31 or successor.

Control Overlay AU-4 ED-01 (L, M, H): Send logs to the Department's Cyber Data Lake (EDCDL) for storage.

2.5 AU-5 Response to Audit Logging Process Failures (L, M, H)

- a. Alert Administrators (Application, System, Network, etc.) and ISSO, at a minimum, within a matter of minutes (i.e., real-time alerts) in the event of an audit logging process failure.
- b. Take the following additional actions, overwrite oldest audit records for those systems which are configured to offload audit logs to a separate system or shut down the information system when audit records are not offloaded to a separate system. Actions taken must comply with OMB M-21-31 or successor.

2.5.1 AU-5(1) Response to Audit Logging Process Failures | Storage Capacity Warning (H)

Provide a warning to Administrators (Application, System, Network, etc.) within an hour, when allocated audit log storage volume reaches 75% of repository maximum audit log storage capacity.

2.5.2 AU-5(2) Response to Audit Logging Process Failures | Real-time Alerts (H)

Provide an alert within an hour to Administrators (Application, System, Network, etc.) when the following audit failure events occur:

- a. Inability to forward audit logs to separate system
- b. Audit records overwritten
- c. Generation of audit logs stopped.

2.6 AU-6 Audit Record Review, Analysis, and Reporting (L, M, H)

- a. Review and analyze system audit records as required to comply with OMB M-21-31 or successor, for indications of compromise such as unauthorized access, unauthorized account additions or role modifications, misuse of authority or access, misconfiguration, unauthorized modification or deletion of data and the potential impact of the inappropriate or unusual activity.
- b. Report findings to ISOs, ISSOs, and ED Security Operations Control (EDSOC) personnel.
- c. Adjust the level of audit record review, analysis, and reporting within the system when there is a change in risk based on law enforcement information, intelligence information, or other credible sources of information.

Control Overlay AU-6 ED-01 (L, M, H): Require the EDSOC to provide, upon request and to the extent consistent with applicable law, relevant logs to CISA and the Federal Bureau of Investigation.

Control Overlay AU-6 ED-02 (L, M, H): Share log information, as needed and appropriate with other Federal agencies to address cybersecurity risks or incidents; all log sharing with other Federal agencies must be conducted by or coordinated with the EDSOC.

2.6.1 AU-6(1) Audit Record Review, Analysis, and Reporting | Automated Process (M, H)

Integrate audit record review, analysis, and reporting processes using Department authorized automated tools with the ability to consolidate, analyze and report the results of audit record review as required to comply with OMB M-21-31 or successor.

2.6.2 AU-6(5) Audit Record Review, Analysis, and Reporting | Integrated Analysis of Audit Records (H)

Integrate analysis of audit records with analysis of vulnerability scanning information, performance data, system monitoring information, physical access control devices, and other systems within the system authorization boundary and/or hosting environment and other data and information as required to comply with OMB M-21-31 or successor, to further enhance the ability to identify inappropriate or unusual activity.

2.6.3 AU-6(6) Audit Record Review, Analysis, and Reporting | Correlation with Physical Monitoring (H)

Correlate information from audit records with information obtained from monitoring physical access to further enhance the ability to identify suspicious, inappropriate, unusual, or malevolent activity.

2.7 AU-7 Audit Record Reduction and Report Generation (L, M, H)

Provide and implement an audit record reduction and report generation capability that:

- a. Supports on-demand audit record review, analysis, and reporting requirements and after-the-fact investigations of incidents.
- b. Does not alter the original content or time ordering of audit records.

2.7.1 AU-7(1) L Audit Record Reduction and Report Generation | Automatic Processing (M, H)

Provide and implement the capability to process, sort, and search audit records for events of interest based on the following content: system resources involved, information objects accessed, identities of individuals, event types, event locations, event dates and times, Internet Protocol (IP) addresses involved, or event success or failure and other content as required to comply with OMB M-21-31 or successor.

2.8 AU-8 Time Stamps (L, M, H)

Use internal system clocks to generate time stamps for audit records. Record time stamps for audit records that meet requirements of comply with OMB M-21-31 or successor and that use Coordinated Universal Time, have a fixed local time offset from Coordinated Universal Time, or that include the local time offset as part of the time stamp.

2.9 AU-9 Protection of Audit Information (L, M, H)

Protect audit information and audit logging tools from unauthorized access, modification, and deletion. Alert the ISO, ISSO, and EDSOC upon detection of unauthorized access, modification, or deletion of audit information.

2.9.1 AU-9(2) Protection of Audit Information | Store on Separate Physical Systems or Components (H)

Store audit records as required to comply with comply with OMB M-21-31 or successor, in a repository that is part of a physically different system or system component than the system or component being audited.

2.9.2 AU-9(3) Protection of Audit Information | Cryptographic Protection (H and Control Overlay)

Implement cryptographic mechanisms to protect the integrity of audit information and audit tools.

Control Overlay AU-9(3) ED-01 (L, M, H): Employ cryptographic mechanisms to protect the integrity of audit information related to HVA.

2.9.3 AU-9(4) Protection of Audit Information | Access by Subset of Privileged Users (M, H)

Authorize access to management of audit logging functionality to only a subset of privileged users, as required to comply with OMB M-21-31 or successor.

2.10 AU-10 Non-repudiation (H)

Provide irrefutable evidence that an individual (or process acting on behalf of an individual) has performed actions sufficient to prove user non-repudiation as required to comply with OMB M-21-31 or successor.

2.11 AU-11 Audit Record Retention (P, L, M, H)

Retain audit records for time frames required to comply with OMB M-21-31 or successor, to provide support for after-the-fact investigations of incidents and to meet regulatory and organizational information retention requirements.

2.12 AU-12 Audit Record Generation (L, M, H)

- a. Provide audit record generation capability for the event types the system is capable of auditing as defined in AU-2a on all system components.
- b. Allow ISOs and ISSOs in accordance with OMB M-21-31 or successor to select the event types that are to be logged by specific components of the system.
- c. Generate audit records for the event types defined in AU-2c that include the audit record content defined in AU-3.

2.12.1 AU-12(1) Audit Record Generation | System-wide and Time-correlated Audit Trail (H)

Compile audit records from all system components into a system-wide (logical or physical) audit trail that is time-correlated to within a timeframe as required to comply with OMB M-21-31 or successor.

2.12.2 AU-12(3) Audit Record Generation | Changes by Authorized Individuals (H)

Provide and implement the capability for Administrators (Application, System, Network, etc.), ISO, ISSO, Information System Security Manager (ISSM), System Program/Project Managers to change the logging to be performed on all system components based on change management decisions or threat criteria provided by the EDSOC and as required to comply with OMB M-21-31 or successor.

3 RISK ACCEPTANCE/POLICY EXCEPTIONS

Deviations from the Department policies, Instructions, Standards, Procedures or Memos must be approved and documented through the Department's Risk Acceptance process. Deviations that introduce additional risks to the enterprise must be submitted through the Department Risk Acceptance Form (RAF) and must be approved by the ED CISO (as delegated). Requests must justify the reason for the deviation(s)/exception(s) as well as the compensating security controls implemented to secure the device or information, if applicable. Policy deviations that do not introduce additional risks do not need to be submitted through the Department RAF but will need to be approved by the Department CISO (as delegated).

4 ACRONYMS

ACS	Administrative Communications System
AO	Authorizing Official
ATO	Authorization to Operate
CIO	Chief Information Officer
CISA	Cybersecurity and Infrastructure Security Agency
CISO	Chief Information Security Officer
CPO	Chief Privacy Officer
CSAM	Cyber Security Assessment and Management tool
DHS	Department of Homeland Security
ED	Department of Education
EO	Executive Order
EDCDL	Department of Education Cyber Data Lake
EDSOC	ED Security Operations Center
FIPS	Federal Information Processing Standard
HVA	High Value Asset
IAS	Information Assurance Services
IP	Internet Protocol
ISA	Interconnection Security Agreement
ISO	Information System Owner
ISSM	Information System Security Manager
ISSO	Information Systems Security Officer
IT	Information Technology
NDA	Non-disclosure Agreements
NIST	National Institute of Standards and Technology
OMB	Office of Management and Budget
RAF	Risk Acceptance Form
SAOP	Senior Agency Official for Privacy

SIEM Security Information and Event Management

5 APPENDIX A - BASELINE CONTROL PARAMETER SUMMARY

The applicability for each baseline control parameter is shown below. NIST SP 800-53 controls that are not applicable to any control baseline are shaded in gray.

Control Identifier	Control/Control Enhancement) Name	Privacy Baseline	Security Control Baseline Low	Security Control Baseline Moderate	Security Control Baseline High	CSF and Privacy Category	CSF and Privacy Subcategory
AU-1	Policy and Procedures	x	x	x	x	PR.PT, DE.DP, GV.PO-P, GV.MT-P, CT.DM-P	PR.PT-1, DE.DP-2, GV.PO-P1, GV.PO-P3, GV.PO-P5, GV.MT-P2, GV.MT-P6, CT.DM-P8
AU-2	Event Logging	x	x	x	x	PR.PT, CT.DM-P	PR.PT-1, CT.DM-P8
AU-3	Content of Audit Records		x	x	x	PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P2
AU-3(1)	Content of Audit Records Additional Audit Information			x	x	PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P2
AU-3(3)	Content of Audit Records Limit Personally Identifiable Information Elements	x				PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P2
AU-4	Audit Log Storage Capacity		x	x	x	PR.DS, PR.DS-P	PR.DS-4, PR.DS-P4
AU-4(1)	Audit Log Storage Capacity Transfer to Alternate Storage					PR.DS, PR.DS-P	PR.DS-4, PR.DS-P4
AU-5	Response to Audit Logging Process Failures		x	x	x		
AU-5(1)	Response to Audit Logging Process Failures Storage Capacity Warning				x		
AU-5(2)	Response to Audit Logging Process Failures Real-time Alerts				x		
AU-5(3)	Response to Audit Logging Process Failures Configurable Traffic Volume Thresholds						
AU-5(4)	Response to Audit Logging Process Failures Shutdown on Failure						
AU-5(5)	Response to Audit Logging Process Failures Alternate Audit Logging Capability						
AU-6	Audit Record Review, Analysis, and Reporting		x	x	x	ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8

Control Identifier	Control/Control Enhancement) Name	Privacy Baseline	Security Control Baseline Low	Security Control Baseline Moderate	Security Control Baseline High	CSF and Privacy Category	CSF and Privacy Subcategory
AU-6(1)	Audit Record Review, Analysis, and Reporting Automated Process Integration			x	x	ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(3)	Audit Record Review, Analysis, and Reporting Correlate Audit Record Repositories			x	x	ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(4)	Audit Record Review, Analysis, and Reporting Central Review and Analysis					ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(5)	Audit Record Review, Analysis, and Reporting Integrated Analysis of Audit Records				x	ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(6)	Audit Record Review, Analysis, and Reporting Correlation with Physical Monitoring				x	ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(7)	Audit Record Review, Analysis, and Reporting Permitted Actions					ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-6(8)	Audit Record Review, Analysis, and Reporting Full Text Analysis of Privileged Commands					ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8

Control Identifier	Control/Control Enhancement) Name	Privacy Baseline	Security Control Baseline Low	Security Control Baseline Moderate	Security Control Baseline High	CSF and Privacy Category	CSF and Privacy Subcategory
AU-6(9)	Audit Record Review, Analysis, and Reporting Correlation with Information from Nontechnical Sources					ID.SC, PR.PT, DE.AE, DE.DP, RS.CO, RS.AN, ID.DE-P, CT.DM-P	ID.SC-4, PR.PT-1, DE.AE-2, DE.AE-3, DE.DP-4, RS.CO-2, RS.AN-1, ID.DE-P5, CT.DM-P8
AU-7	Audit Record Reduction and Report Generation			x	x	PR.PT, RS.AN, CT.DM-P	PR.PT-1, RS.AN-3, CT.DM-P8
AU-7(1)	Audit Record Reduction and Report Generation Automatic Processing			x	x	PR.PT, RS.AN, CT.DM-P	PR.PT-1, RS.AN-3, CT.DM-P8
AU-8	Time Stamps		x	x	x		
AU-9	Protection of Audit Information		x	x	x		
AU-9(1)	Protection of Audit Information Hardware Write-once Media						
AU-9(2)	Protection of Audit Information Store on Separate Physical Systems or Components				x		
AU-9(3)	Protection of Audit Information Cryptographic Protection				x		
AU-9(4)	Protection of Audit Information Access by Subset of Privileged Users			x	x		
AU-9(5)	Protection of Audit Information Dual Authorization						
AU-9(6)	Protection of Audit Information Read-only Access						
AU-9(7)	Protection of Audit Information Store on Component with Different Operating System						
AU-10	Non-repudiation				x		
AU-10(1)	Non-repudiation Association of Identities						
AU-10(2)	Non-repudiation Validate Binding of Information Producer Identity						
AU-10(3)	Non-repudiation Chain of Custody						
AU-10(4)	Non-repudiation Validate Binding of Information Reviewer Identity						
AU-11	Audit Record Retention	x	x	x	x		
AU-11(1)	Audit Record Retention Long-term Retrieval Capability						
AU-12	Audit Record Generation		x	x	x	PR.PT, DE.CM, CT.DM-P	PR.PT-1, DE.CM-1, DE.CM-3, DE.CM-7, CT.DM-P6, CT.DM-P8
AU-12(1)	Audit Record Generation System-wide and Time-correlated Audit Trail				x	PR.PT, DE.CM, CT.DM-P	PR.PT-1, DE.CM-1, DE.CM-3, DE.CM-7, CT.DM-P6, CT.DM-P8

Control Identifier	Control/Control Enhancement) Name	Privacy Baseline	Security Control Baseline Low	Security Control Baseline Moderate	Security Control Baseline High	CSF and Privacy Category	CSF and Privacy Subcategory
AU-12(2)	Audit Record Generation Standardized Formats					PR.PT, DE.CM, CT.DM-P	PR.PT-1, DE.CM-1, DE.CM-3, DE.CM-7, CT.DM-P6, CT.DM-P8
AU-12(3)	Audit Record Generation Changes by Authorized Individuals				x	PR.PT, DE.CM, CT.DM-P	PR.PT-1, DE.CM-1, DE.CM-3, DE.CM-7, CT.DM-P6, CT.DM-P8
AU-12(4)	Audit Record Generation Query Parameter Audits of Personally Identifiable Information					PR.PT, DE.CM, CT.DM-P	PR.PT-1, DE.CM-1, DE.CM-3, DE.CM-7, CT.DM-P6, CT.DM-P8
AU-13	Monitoring for Information Disclosure					PR.DS, PR.PT, DE.CM, CT.DM-P, PR.DS-P	PR.DS-5, PR.PT-1, DE.CM-3, CT.DM-P8, PR.DS-P5
AU-13(1)	Monitoring for Information Disclosure Use of Automated Tools					PR.DS, PR.PT, DE.CM, CT.DM-P, PR.DS-P	PR.DS-5, PR.PT-1, DE.CM-3, CT.DM-P8, PR.DS-P5
AU-13(2)	Monitoring for Information Disclosure Review of Monitored Sites					PR.DS, PR.PT, DE.CM, CT.DM-P, PR.DS-P	PR.DS-5, PR.PT-1, DE.CM-3, CT.DM-P8, PR.DS-P5
AU-13(3)	Monitoring for Information Disclosure Unauthorized Replication of Information					PR.DS, PR.PT, DE.CM, CT.DM-P, PR.DS-P	PR.DS-5, PR.PT-1, DE.CM-3, CT.DM-P8, PR.DS-P5
AU-14	Session Audit					PR.PT, CT.DM-P	PR.PT-1, CT.DM-P8
AU-14(1)	Session Audit System Start-up					PR.PT, CT.DM-P	PR.PT-1, CT.DM-P8
AU-14(3)	Session Audit Remote Viewing and Listening					PR.PT, CT.DM-P	PR.PT-1, CT.DM-P8
AU-16	Cross-organizational Audit Logging					PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P1, CT.DP-P3
AU-16(1)	Cross-organizational Audit Logging Identity Preservation					PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P1, CT.DP-P3
AU-16(2)	Cross-organizational Audit Logging Sharing of Audit Information					PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P1, CT.DP-P3
AU-16(3)	Cross-organizational Audit Logging Disassociability					PR.PT, CT.DM-P, CT.DP-P	PR.PT-1, CT.DM-P8, CT.DP-P1, CT.DP-P3