

Migration from EDE to ARC-AMPE Access Control (AC) controls

CMS requirements for Direct Enrollment Entities

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Purpose

This white paper provides a guide for Direct Enrollment Entities (DEEs) to upgrade their Enhanced Direct Enrollment (EDE) System Security and Privacy Plans (SSPPs) to the Acceptable Risk Controls for ACA, Medicaid, and Provider Entities (ARC-AMPE).

Due to the substantial number of controls, and to facilitate ease of use, this white paper is one of a series of 20 which divides the ARC-AMPE by control family. This white paper addresses the Access Control controls.

ARC-AMPE Control Families		
Control Family	Number of Controls	
Access Control (This Document)	46	
Awareness and Training	9	
Audit and Accountability	18	
Assessment, Authorization, and Monitoring	12	
Configuration Management	25	
Contingency Planning	16	
Identification and Authentication	21	
Incident Response	15	
Maintenance	12	
Media Protection	8	
Physical and Environmental Protection	9	
Planning	6	
Program Management	5	
Personnel Security	8	
Personally Identifiable Information Processing and Transparency	10	
Risk Assessment	8	
System and Services Acquisition	18	
System and Communications Protection	28	
System and Information Integrity	30	
Supply Chain Risk Management	4	

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Background

Affordable Care Act

The Affordable Care Act (ACA) revolutionized access to healthcare in the United States by establishing Health Insurance Marketplaces (HIMs). Enhanced Direct Enrollment (EDE) is an ACA innovation that allows third-party entities, such as insurers and web-brokers, to offer consumers a seamless application and enrollment experience directly through their platforms. This approach improves accessibility to the marketplace while maintaining compliance with federal regulations.

Enhanced Direct Enrollment

Direct Enrollment (DE) is a service that allows approved Qualified Health Plan (QHP) issuers and third-party web-brokers (online insurance sellers) to enroll consumers in Exchange coverage, with or without the assistance of an agent/broker, directly from their websites.

The Enhanced Direct Enrollment (EDE) user experience goes well beyond the plan shopping and enrollment experience that is available via Classic DE. EDE is a service that allows approved EDE entities (e.g., QHP issuers and web-brokers approved to participate in EDE) to provide a comprehensive consumer experience including the eligibility application, Exchange enrollment, and post-enrollment year-round customer service capabilities for consumers and agents/brokers working on behalf of consumers, directly on issuer and web-broker websites. Through EDE, approved EDE Entities build and host a version of the HealthCare.gov eligibility application directly on their websites that securely integrates with a back-end suite of Federally Facilitated Exchanges (FFEs) application programing interfaces (APIs) to support application, enrollment and more.

Source: cms.gov

CMS oversight

The Centers for Medicare & Medicaid Services (CMS) exercises oversight of DEEs, which are responsible for overseeing and managing marketplace operations to ensure compliance with federal regulations, safeguard consumer data, and maintain the integrity of the HIM. Key aspects of CMS's oversight include:

- Requiring DEEs to undergo rigorous audit processes, including demonstrating compliance with security and privacy control requirements.
- Enforcing strict data protection measures in the DE environment to ensure the confidentiality, integrity, and availability of consumer data and requiring entities to implement cybersecurity controls, conduct regular risk assessments, and submit independent security audits.
- Requiring DEEs to adhere to operational policies and procedures, such as providing accurate plan information, maintaining transparent consumer interactions, and facilitating HIM enrollment without bias.
- Requiring DEEs to report any data breaches or system incidents promptly and to take corrective actions as directed by CMS and the U.S. Department of Health and Human Services (HHS) Office for Civil Rights (OCR).
- Requiring DEEs to renew their Authority to Connect (ATC) annually, providing updated documentation and evidence of continued compliance with all requirements.

Through these oversight mechanisms, CMS ensures that DEEs in the healthcare.gov environment deliver secure, compliant, and user-friendly services, aligning with the ACA's mission to expand access to quality health coverage.

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ARC-AMPE

CMS published the ARC-AMPE for Direct Enrollment Entities (DEEs) Version 1.0 dated July 7th, 2025. This framework replaces the EDE security and privacy guidelines:

- ARC-AMPE Volume 1 contains high-level guidance, and Volume 2 has the minimum-level security and privacy controls.
- ARC-AMPE Volume 2 is the new format for the SSPP for DEEs.
- The compliance date for DEEs is June 2026.

The minimum control baseline for ARC-AMPE DEE compliance consists of 308 controls which have been derived from the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53 Revision 5, "Security and Privacy Controls for Information Systems and Organizations."

The number of controls required for the mandatory baseline represents a significant increase from the EDE baseline (295 controls), and DEEs should be prepared for an increased level of effort for developing the SSPP and submitting more artifacts during audits.

Another major change is the format of the SSPP template. EDE used a Microsoft Word format whereas ARC-AMPE is an Excel spreadsheet.

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Control mapping

The mapping of the controls found in the EDE audit baseline (based on NIST SP 800-53 Revision 4) to their new locations in ARC-AMPE (based on NIST SP 800-53 Revision 5) are included in the table below. The table lists the EDE control directly compared with the ARC-AMPE equivalent control name, as applicable. The table also documents any new ARC-AMPE controls that do not have EDE equivalents, as well as those controls that have been combined or withdrawn for ARC-AMPE.

Note also that all references to NIST SP 800-53 Revision 5 included below are based on version 5.1.1, which was issued on November 7, 2023.

Access Control (AC)

The controls listed in this section focus on how the Exchange shall limit IT system access to authorized users and devices, as well as processes acting on behalf of authorized users or devices and also describes the authorized transactions and functions that those users and devices are permitted to execute.

EDE		ARC-AMPE
Control Access Control Policy and Procedure	s Control	Policies and Procedures
AC-1: Access Control Policy and Procedures The organization: a. Develops, documents, and disseminates to a personnel: 1. An access control policy that addresse purpose, scope, roles, responsibilities management commitment, coordinatic organizational entities, and compliance 2. Procedures to facilitate the implement the access control policy and associat controls; and b. Reviews and updates (as necessary) the cu 1. Access control policy at least every the years; and 2. Access control procedures at least every (3) years.	a. Do pe applicable 1. es 1. es 1. es 2. es 2. es 2. es 2. es 2. es 2. es 3. e	(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; and Procedures that are defined within the applicable control implementation statements of the associated access controls; esignate an organization-defined official to manage the velopment, documentation, and dissemination of the cess control policy and procedures; and eview and update the current access control: Policy at least every one (1) year and following organization-defined events; and
Control Account Management	Control	Account Management
AC-2: Account Management The organization: a. Identifies and selects the following types of info system accounts (e.g., individual, group, system application, guest/anonymous, emergency, and temporary) to support organizational missions/b functions; b. Assigns account managers for information system accounts; c. Establishes conditions for group and role members.	a. Do sp.	· ·····,

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EDE ARC-AMPE

- d. Specifies authorized users of the information system, group and role membership, and access authorizations (i.e., privileges) and other attributes (as required) for each account;
- Requires approvals by defined personnel or roles (defined in the applicable security plan) for requests to create information system accounts;
- f. Creates, enables, modifies, disables, and removes information system accounts in accordance with the organization requirements, standards, and procedures;
- g. Monitors the use of information system accounts;
- h. Notifies account managers:
 - 1. When accounts are no longer required;
 - 2. When users are terminated or transferred; and
 - When individual information system usage or needto-know changes;
- i. Authorizes access to the information system based on:
 - 1. A valid access authorization;
 - 2. Intended system usage; and
 - Other attributes as required by the organization or associated missions/business functions;
- Reviews accounts for compliance with account management requirements at least every ninety (90) days; and
- Establishes a process for reissuing shared/group account credentials (if deployed) when individuals are removed from the group.

Implementation Standards

- Remove or disable default user accounts. Rename active default accounts.
- Implement centralized control of user access administrator functions.
 - a. Regulate the access provided to contractors and define security requirements for contractors.
 - b. Notify account managers within an organizationdefined timeframe when temporary accounts are no longer required or when information system users are terminated or transferred or information system usage or need-to-know/need-to-share changes.
- 3. Prohibit use of guest, anonymous, and shared accounts for providing access to PII.
- Notify account managers within an organization-defined timeframe when temporary accounts are no longer required or when IS users are terminated or transferred or IS usage or need-to-know/need-to-share changes.
- 5. Prior to granting access to PII, users demonstrate a need for the PII in the performance of the user's duties.
- Implement access controls within the IS based on users' or user group's need for access to PII in the performance of their duties.
- Organizations should provide access only to the minimum amount of PII necessary for users to perform their duties.
- Create, enable, modify, disable, and remove information system accounts in accordance with the requirement for

- Access authorizations (i.e., privileges) and organization-defined attributes (as required) for each account:
- e. Require approvals by organization-defined personnel or roles for requests to create accounts;
- Create, enable, modify, disable, and remove accounts in accordance with organization-defined policy, procedures, prerequisites, and criteria;
- q. Monitor the use of accounts;
- h. Notify account managers and organization-defined personnel or roles within:
 - Twenty-four (24) hours when accounts are no longer required;
 - Eight (8) hours when users are terminated or transferred; and
 - 3. Eight (8) hours when system usage or need-to-know changes for an individual;
- i. Authorizes access to the system based on:
 - 1. A valid access authorization;
 - 2. Intended system usage; and
 - Other attributes as required by the organization or associated missions/business functions;
- Review accounts for compliance with account management requirements at least every ninety (90) days for all systems; and
- Establish and implement a process for changing shared or group account authenticators (if deployed) when individuals are removed from the group; and
- Align account management processes with personnel termination and transfer processes.

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	EDE	ARC-AMPE	
	user to complete privacy training every 365 days wise the account would be disabled.		
Control	Automated Information System Account Management	Control	Automated System Account Management
Manageme The organiz	extraction at the state of the	AC-02(01): Automated System Account Management Support the management of system accounts using organization-defined automated mechanisms.	
Control	Removal of Temporary/Emergency Accounts	Control	Automated Temporary and Emergency Account Management
The informa	emoval of Temporary/Emergency Accounts ation system automatically disables emergency thin twenty-four (24) hours and temporary accounts duration not to exceed sixty (60) days.	AC-02(02): Automated Temporary and Emergency Accou Management Automatically disable temporary and emergency accounts aft no more than ninety-six (96) hours from last use.	
Control	Disable Inactive Accounts	Control	Disable Accounts
\ '	sable Inactive Accounts tion system automatically disables inactive accounts (60) days.	AC-02(03): Disable Accounts Disable non-consumer accounts within twenty-four (24) hours when the accounts: a. Have expired; b. Are no longer associated with a user or individual; c. Are in violation of organizational policy; or d. Have been inactive for sixty (60) days.	
Control	Automated Audit Actions	Control Automated Audit Actions	
The informa modification notifies define security plane. Implementa Account ma	ation Standards inagement information sources include systems, devices, services, and applications (including	AC-02(04): Automated Audit Actions Automatically audit system account creation, modification, enabling, disabling, and removal actions.	
Control	N/A	Control	Inactivity Logout
Existing NIS	ST SP 800-53 Rev.4 control and new to ARC-AMPE.	PE. AC-02(05): Inactivity Logout Require that users log out when the time-period of inactivity exceed twenty-four (24) hours.	
Control	Role-Based Schemes	Control	Privileged User Accounts
The organiz	ble-Based Schemes eation: blishes and administers application-specific eged user accounts in accordance with a role-based	AC-02(07): Privileged User Accounts a. Establish and administer privileged user accounts in accordance with a role-based access scheme; b. Monitor privileged role or attribute assignments;	

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b. Moni appli c. Take	ass scheme that allows access based on user consibilities associated with application use; itors privileged role assignments as well as ication-specific privileged role assignments; and associated actions when privileged role graments are no longer appropriate.	Monitor changes to roles or attributes; and Revoke access when privileged role or attribute assignments are no longer appropriate.	
Control	Shared/Group Account Credential Termination	Control	N/A
The informa	Shared/Group Account Credential Termination ation system updates shared/group account when members leave the group.	Withdrawn Control: Incorporated into AC-02.	
Control	N/A	Control	Account Monitoring for Atypical Usage
Existing NIS	ST SP 800-53 Rev.4 control and new to ARC-AMPE.	AC-02(12): Account Monitoring for Atypical Usage a. Monitor system accounts for atypical use; and b. Report atypical usage of system accounts to organization-defined personnel or roles, and if necessar any applicable incident response team(s).	
Control	N/A	Control	Disable Accounts for High-Risk Individuals
Existing NIS	ST SP 800-53 Rev.4 control and new to ARC-AMPE.	E. AC-02(13): Disable Accounts for High-Risk Individuals Disable accounts of individuals within one (1) hour of discove of individual posing as a significant risk.	
Control	Access Enforcement	Control	Access Enforcement
Implementa I. If encry must m (see St. Configuread" that ma perform. 3. Data st. with sy.	ess Enforcement ation system enforces approved authorizations for ass to information and system resources in with applicable access control policies. ation Standards ption is used as an access control mechanism, it neet FIPS 140-2 compliant encryption standards C 13). ure operating system controls to disable public and "write" access to files, objects, and directories and directly impact system functionality and/or nance, or that contain sensitive information. tored in the information system must be protected astem access controls and must be encrypted when ag in non-secure areas.	AC-03: Access Enforcement Enforce approved authorizations for logical access to information and system resources in accordance with applicable access control policies.	
Control	N/A	Control	Individual Access
New NIST S ARC-AMPE	SP 800-53 Rev.5 control and applicable to	AC-03(14): Individual Access Provide organization-defined mechanisms to enable individuals to have access to the following elements of their Personally Identifiable Information (PII): PII / Protected Health Information (PHI) elements defined in applicable security/privacy plans.	

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enforcement mechanisms implemented in cross-domain products, for example, high-assurance guards. Such capabilities are generally not available in commercial-off-the-

shelf (COTS) information technology products.

EDE		ARC-AMPE
Control Information Flow Enforcement	Control	Information Flow Enforcement
AC-4: Information Flow Enforcement The information system enforces approved authorizations for controlling the flow of information within the system and between interconnected systems in accordance with applicable policy.	Enforce apprinted information	ormation Flow Enhancement proved authorizations for controlling the flow of within the system and between connected systems rganization-defined information flow control policies.
Implementation Standard Organizations commonly employ information flow control policies and enforcement mechanisms to control the flow of information between designated sources and destinations (e.g., networks, individuals, and devices) within information systems and between interconnected systems. Flow control is based on the characteristics of the information and/or the information path. Enforcement occurs, for example, in boundary protection devices (e.g., gateways, routers, guards, encrypted tunnels, firewalls) that employ rule sets or establish configuration settings that restrict information system services, provide a packet-filtering capability based on header information, or message-filtering capability based on message content (e.g., implementing key word searches or using document characteristics). Organizations also consider the trustworthiness of filtering/inspection mechanisms (i.e., hardware, firmware, and software components) that are critical to information flow enforcement. NIST SP 800-53 control enhancements 3 through 22, while not present in this SSPP workbook, provide guidance on cross-domain solution needs which focus on more advanced filtering techniques, in-depth analysis, and stronger flow		

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	EDE		ARC-AMPE
Control	Separation of Duties	Control	Separation of Duties
The organiz a. Sepa the a activi b. Docu c. Defin supp d. Enfor subje 1. 1	arates duties of individuals as necessary (defined in pplicable security plan), to prevent malevolent rity; ments separation of duties; and res information system access authorizations to ort separation of duties. The policy is uniformly enforced across all subjects and objects where the policy specifies that: The policy is uniformly enforced across all subjects and objects within the boundary of the IS; and a subject that has been granted access to information is constrained from doing any of the following: Passing the information to unauthorized subjects or objects; Granting its privileges to other subjects; Changing one or more security attributes on subjects, objects, the information system, or information system components; Choosing the security attribute and attribute values to be associated with newly created or modified objects.	a. Identi indivi b. Defin	paration of Duties ify and document organization-defined duties of duals requiring separation; and e system access authorizations to support ration of duties.
Implement 1. Audi pers 2. Mair base 3. The suppindiv 4. The acceprodindiv 5. An ir Systiadm condivith 6. Assi with 7. Continued auth 8. Continued auth 8. Continued auth at th	ration Standards it functions must not be performed by security connel responsible for administering access control. Intain a limited group of administrators with access and upon the users' roles and responsibilities. Intain a limited group of administrators with access and upon the users' roles and responsibilities. Intain a limited group of administrators with access and upon the users' roles and responsibilities. Interior functions must be divided among separate Interior functions system testing functions (i.e., user Interior functions must be divided among separate Interior functions f		
Control	Least Privilege	Control	Least Privilege

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EDE			ARC-AMPE
AC-6: Least Privilege The organization employs the principle allowing only authorized accesses for u acting on behalf of users) that are nece assigned tasks in accordance with the cand business functions. This control supports and aligns with the and the requirements of 45 CFR §155.2 of personally identifiable information. Implementation Standards 1. Disable all file system access not system, application, and administ 2. Contractors must be provided with physical access and must agree organizational security requirements.	sers (or processes ssary to accomplish organization's missions of the ACA 260, Privacy and security explicitly required for trator functionality. h minimal system and to and support the ents. The contractor	accesses fo	
selection process must assess the adhere to and support the organical supports the organical supports the use of database man authorized database administrated accessing database data files at field, or field-value level. Implementation of the control. 4. Ensure that only authorized users access those files, directories, drivers, network shares, ports, puthat are expressly required for the duties. 5. Disable all system and removable unless it is explicitly authorized by operational needs. If system and access is authorized, boot access.	zation's security policy. agement utilities to only ors. Prevent users from the logical data view, ent table-level access are permitted to tives, workstations, rotocols, and services e performance of job e media boot access y the CIO for compelling removable media boot		
Control Authorize Access to Sec	urity Functions	Control	Authorize Access to Security Functions
AC-6(1): Authorize Access to Securit At a minimum, the organization explicitl organization-defined list of security funct hardware, software, and firmware) to in security functions and security-relevant system components: a. Setting/modifying audit logs a b. Setting/modifying boundary pr c. Configuring/modifying access permissions, privileges); d. Setting/modifying authenticati Setting/modifying system configurations	y authorizes access to stions (deployed in clude the following list of information for all auditing behavior; rotection system rules; authorizations (i.e., on parameters; and	Authorize and to: a. Organ hardwise included in the second process of the second proces	Authorize Access to Security Functions coess for organization-defined individuals or roles nization-defined security functions (deployed in vare, software, and firmware); and nization-defined security-relevant information, ling but not limited to: setting/modifying audit logs and auditing behavior; setting/modifying boundary protection system rules; configuring/modifying access authorizations (i.e., sermissions, privileges); setting/modifying authentication parameters; and setting/modifying system configurations and arameters.
Control Non-Privileged Access for Functions	or Non-Security	Control	Non-privileged Access for Nonsecurity Functions
AC-6(2): Non-Privileged Access for No. At a minimum, the organization requires information system accounts, or roles, we security functions use non-privileged access for No.	s that users of vith access to all	Functions Require that	Non-privileged Access for Nonsecurity t users of system accounts (or roles) with access to n-defined security functions or security-relevant

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	EDE		ARC-AMPE
use of privilincludes the relevant info	other system functions, and if feasible, audits any eged accounts, or roles, for such functions. This is following list of security functions or security-parameters: etting/modifying audit logs and auditing behavior; etting/modifying boundary protection system rules; configuring/modifying access authorizations (i.e., ermissions, privileges); etting/modifying authentication parameters; and etting/modifying system configurations and arameters.	information use non-privileged accounts (or roles) when accessing nonsecurity functions.	
Control	Privileged Accounts	Control	Privileged Accounts
The organiz	AC-6(5): Privileged Accounts The organization restricts privileged accounts on the information system to defined personnel or roles (defined in the applicable security plan).		Privileged Accounts cation restricts privileged accounts on the system to defined organization-personnel or roles.
Control	N/A	Control	Review of User Privileges
Existing NIS	ST SP 800-53 Rev.4 control and new to ARC-AMPE.	E. AC-06(07): Review of User Privileges a. Review no less often than every ninety (90) days the privileges assigned to all users with privileges to validate the need for such privileges; and b. Reassign or remove privileges, if necessary, to correctly reflect organizational mission and business needs.	
Control	Auditing Use of Privileged Functions	Control	Log Use of Privileged Functions
	uditing Use of Privileged Functions ation system audits the execution of privileged	AC-06(09): Log Use of Privileged Functions Log the execution of privileged functions.	
Control	Prohibit Non-Privileged Users from Executing Privileged Functions	Control	Prohibit Non-privileged Users from Executing Privileged Functions
Privileged The information executing procircumvential	Prohibit Non-Privileged Users from Executing Functions ation system prevents non-privileged users from rivileged functions to include disabling, ng, or altering implemented security countermeasures.	AC-06(10): Prohibit Non-privileged Users from Executing Privileged Functions Prevent non-privileged users from executing privileged functions.	
Control	Unsuccessful Logon Attempts	Control Unsuccessful Logon Attempts	
The informa a. Enfor a use the tin and b. Autor	accessful Logon Attempts ation system: ces the limit of consecutive invalid login attempts by a specified in the Implementation Standard during me period specified in the Implementation Standard; matically disables or locks the account/node until sed by an administrator or after the time period	period; and	

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EDE	ARC-AMPE
specified in the Implementation Standard when the maximum number of unsuccessful attempts is exceeded. Implementation Standards 1. Enforces a limit of not more than three (3) consecutive invalid login attempts by a user during a fifteen (15) minute time; and 2. Automatically locks the account/node for thirty (30) minutes when the maximum number of unsuccessful attempts is exceeded. The control applies regardless of whether the login occurs via a local or network connection.	organization when the maximum number of unsuccessful attempts is exceeded.
Control System Use Notification	Control System Use Notification
 AC-8: System Use Notification The information system: a. Displays an approved system use notification message or banner before granting access to the system that provides privacy and security notices consistent with applicable federal laws, Executive Orders, directives, policies, regulations, standards, and guidance. The approved banner states: "This warning banner applies to the entirety of this system, meaning (1) this computer network, (2) all computers connected to this network, including this one, and (3) all devices and storage media attached to this network or to a computer on this network. This system is provided for authorized [Organization name] use only. Unauthorized or improper use of this system is prohibited and may result in disciplinary action and/or civil and criminal penalties. By using this system, you understand and consent to the following: [Organization name] may monitor, record, and audit your system usage. Therefore, you have no reasonable expectation of privacy regarding any communication or data transiting or stored on this system. At any time, and for any lawful purpose, [Organization name] may monitor, intercept, and search and seize any communication or data transiting or stored on this system. Any communication or data transiting or stored on this system may be disclosed or used for any lawful [Organization name] purpose." b. Retains the notification message or banner on the screen until users take explicit actions to log on to or further access the information system; and c. For publicly accessible systems: 1. Displays system use information when appropriate, before granting further access; 2. Displays references, if any, to monitoring, recording, or auditing that are consistent with privacy accommodations for such systems that generally prohibit those activities; and 3. Includes a description of the authorized uses of the system. 	 AC-08: System Use Notification a. Display organization-defined system use notification message or banner to users before granting access to the system that provides privacy and security notices consistent with applicable laws, Executive Orders, directives, regulations, policies, standards, and guidelines and state that: Users are accessing a system that contains U.S. Government information; System usage may be monitored, recorded, and subject to audit; Unauthorized use of the system is prohibited and subject to criminal and civil penalties; and Use of the system indicates consent to monitoring and recording; B. Retain the notification message or banner on the screen until users acknowledge the usage conditions and take explicit actions to log on to or further access the system; and Display system use information organization-defined conditions before granting further access to the publicly accessible system; Display references, if any, to monitoring, recording, or auditing that are consistent with privacy accommodations for such systems that generally prohibit those activities; and Include a description of the authorized uses of the system.

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	EDE		ARC-AMPE
1. The envir control of the control	ation Standards System Owner determines elements of the conment that require the System Use Notification rol. System Owner determines how System Use lication will be verified and provides appropriate adicity of the check. It performed as part of a Configuration Baseline like, the organization has a documented agreement on to provide results of verification and the necessary adicity of the verification by the service provider.		
Control	Concurrent Session Control	Control	Concurrent Session Control
The informa	ncurrent Session Control ation system limits the number of concurrent reach system account to one (1) session for both privileged users.	AC-10: Concurrent Session Control Limit the number of concurrent sessions for each account and/or account types to one (1) session.	
Control	Session Lock	Control	Device Lock
a. Pr se bc re b. Re ac au Implementa Period of i session lo requires re migrate to	ation system: revents further access to the system by initiating a ression lock after fifteen (15) minutes of inactivity (for oth remote and internal access connections) or upon ceiving a request from a user; and retains the session lock until the user reestablishes recess using established identification and uthentication procedures. ation Standard nactivity must be no more than 15 minutes before ck occurs for remote and mobile devices and re-authentication. As organizations continue to laptops and docking stations making clients ly mobile, this is a logical extension of that		
Control	Pattern-Hiding Displays	Control	N/A
The informa	Pattern-Hiding Displays ation system conceals, via the session lock, previously visible on the display with a publicly lage.	Withdrawn Control: No longer required for the minimum baseline but should still be considered a best practice.	
Control	Session Termination	Control	Session Termination
The informa	esion Termination ation system automatically terminates a user session d conditions or trigger events (defined in the system n) requiring session disconnect.	AC-12: Session Termination Automatically terminate a user session after organization-defined conditions or trigger events requiring session disconnect.	

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	EDE	ARC-AMPE	
Control	N/A	Control User-Initiated Logouts	
	ST SP 800-53 Rev.4 control which was not selected d is applicable to ARC-AMPE.	AC-12(01): User-Initiated Logouts Provide a logout capability for user-initiated communications sessions whenever authentication is used to gain access to organization-defined information resources.	
Control	N/A	Control	Termination Message
New NIST ARC-AMPE	SP 800-53 Rev.5 control and applicable to	Display an	Termination Message explicit logout message to users indicating the of authenticated communications sessions.
Control	N/A	Control	Timeout Warning Message
New NIST ARC-AMPE	SP 800-53 Rev.5 control and applicable to	AC-12(03): Timeout Warning Message Display an explicit message to users indicating that the sess will end in an organization-defined time until end of session.	
Control	Permitted Actions without Identification or Authentication	Control	Permitted Action Without Identification or Authentication
the ir author b. Docusyste ident Configures first requirir		authentication consistent with organizational mission business functions; and Document and provide supporting rationale in the security for the system, user actions not requiring identification or authentication.	
Control	Remote Access	Control	Remote Access
The organization the information VPN). Rempermitted of controlled, organization access is a controlled in a ccess in a cc	mote Access zation monitors for unauthorized remote access to tion system (including access to internal networks by note access for privileged functions must be only for compelling operational needs, must be strictly and must be explicitly authorized, in writing, by the n CIO or his/her designated representative. If remote uthorized, the organization: stablishes and documents usage restrictions, configuration/connection requirements, and nplementation guidance for each type of remote ccess allowed; uthorizes remote access to the information system rior to allowing such connections; and lonitors for unauthorized remote access to the iformation system: Personally-owned equipment must be scanned before being connected to the organization	implementation guidance for each type of remote acc allowed; and b. Authorize each type of remote access to the system	

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		- FDF		ADC AMPE
		EDE		ARC-AMPE
		systems or networks to ensure compliance with the organization requirements; and		
	2.	Personally-owned equipment must be prohibited from processing, accessing, or storing organization sensitive information unless it is approved in writing by the organization Senior Official for Privacy (SOP) and employs required encryption (FIPS 140-2 validated module).		
lmı	plementa	ation Standards		
1. Require callback capability with re-authentication to verify connections from authorized locations when the Medicare Data Communications Network (MDCN) or Multi-Protocol Label Switching (MPLS) service network cannot be used. For application systems and turnkey systems that require the vendor to log-on, the vendor will be assigned a User ID and password and enter the network through the standard authentication process. Access to such systems will be authorized and logged. User IDs assigned to vendors will be recertified within every three hundred sixty-five (365) days.				
2.	If e-aut	hentication is implemented as a remote access or or associated with remote access, refer to the most NIST SP 800-63.		
3.	equipm any ne	nputers and devices, whether organization-furnished nent or contractor-furnished equipment, that require twork access to a network or system are securely ured and meet at a minimum, the following security ments:		
		Up-to-date system patches;		
		Current anti-virus software;		
		Host-based intrusion detection system;		
		Functionality that provides the capability for automatic execution of code disabled; and		
4		Employs required encryption (FIPS 140-2 validated module).		
4.	telewor followe	panizations supporting remote access (including rking), ensure NIST SP 800-46 guidelines are d by defining policies and procedures that define: Forms of permitted remote access;		
		Types of devices permissible for remote access;		
		Type of access remote users are granted; and		
		How remote user account provisioning is handled.		
5.	Remot	e connection for privileged functions must be ned using multi-factor authentication.		
Co	ntrol	Automated Monitoring/Control	Control	Monitoring and Control
AC	AC-17(1): Automated Monitoring/Control		AC-17(01):	Monitoring and Control
The	The information system monitors and controls remote access methods.		` ′	omated mechanisms to monitor and control remote
The	Implementation Standards The organization implements organization and industry best practice distributed blocking rules within one hour of receipt.			

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	EDE	ARC-AMPE		
Control	Protection of Confidentiality/Integrity Using Encryption	Control	Protection of Confidentiality and Integrity Using Encryption	
Encryption The inform	Protection of Confidentiality/Integrity Using 1 ation system implements cryptographic mechanisms he confidentiality and integrity of remote access	AC-17(02): Protection of Confidentiality and Integrity Using Encryption Implement cryptographic mechanisms to protect the confidentiality and integrity of remote access sessions.		
Control	Managed Access Control Points	Control	Managed Access Control Points	
The inform	Managed Access Control Points ation system routes all remote accesses through a nber of managed access control points.	AC-17(03): Managed Access Control Points Route remote accesses through authorized and managed network access control points.		
Control	Privileged Commands/Access	Control	Privileged Commands and Access	
The organian. a. Authors accessorily b. Documents	Privileged Commands/Access zation: orizes the execution of privileged commands and ss to security-relevant information via remote access for compelling operational needs; and uments the rationale for such access in the security for the information system.	AC-17(04): Privileged Commands and Access a. Authorize the execution of privileged commands and access to security-relevant information via remote access only in a format that provides assessable evidence and for compelling operational needs; and b. Document the rationale for remote access in the security plan for the system.		
Control	Disconnect/Disable Access	Control	Disconnect or Disable Access	
The organidisconnect within 15 m Implement The organidisc, a syst	Disconnect/Disable Access zation provides the capability to expeditiously or disable remote access to the information system ninutes. tation Standards zation terminates or suspends network connections em-to-system interconnection) upon issuance of an e CIO, CISO, or Senior Official for Privacy (SOP).	AC-17(09): Disconnect or Disable Access Provide the capability to disconnect or disable remote access to the system within one (1) hour.		
Control	Wireless Access	Control	Wireless Access	
AC-18: Wireless Access The organization monitors for unauthorized wireless access to information systems and prohibits the installation of wireless access points (WAP) to information systems unless explicitly authorized, in writing, by the organization CIO or a designated representative. If wireless access is authorized, the organization: a. Establishes usage restrictions, configuration/connection requirements, and implementation guidance for wireless access; b. Authorizes wireless access to the information system prior to allowing such connections; c. The organization ensures that:		AC-18: Wireless Access a. Establish configuration requirements, connection requirements, and implementation guidance for each type of wireless access; and b. Authorize each type of wireless access to the system prior to allowing such connections.		

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		EDE		ARC-AMPE
	1.	The organization CIO must approve and distribute the overall wireless plan for his or her respective organization; and		
	2.	Mobile and wireless devices, systems, and networks are not connected to wired organization networks except through appropriate controls (e.g., VPN port) or unless specific authorization from the organization network management has been received.		
Implementa	ation (Standards		
de an	vice s	ss access is explicitly authorized, wireless service set identifier broadcasting is disabled following wireless restrictions and access are implemented:		
	a.	Encryption protection is enabled;		
	b.	Access points are placed in secure areas;		
	C.	Access points are shut down when not in use (i.e., nights, weekends);		
	d.	A firewall is implemented between the wireless network and the wired infrastructure;		
	e. f.	MAC address authentication is utilized; Static IP addresses, not Dynamic Host Configuration Protocol (DHCP), is utilized;		
	g.	Personal firewalls are utilized on all wireless clients;		
	h.	File sharing is disabled on all wireless clients;		
	i.	Intrusion detection agents are deployed on the wireless side of the firewall;		
	j.	Wireless activity is monitored and recorded, and the records are reviewed on a regular basis;		
	k.	Organizational policy related to wireless client access configuration and use is documented;		
ke	 Wireless printers and all Bluetooth devices such as keyboards are not allowed without explicit approval by the organization's Authorizing Official (AO). 			
Control	Auth	nentication and Encryption	Control	Authentication and Encryption
AC-18(1): Authentication and Encryption If wireless access is explicitly authorized, the information system protects wireless access to the system using encryption and authentication of both users and devices.		AC-18(01): Authentication and Encryption Protect wireless access to the system using authentication of users, devices, and encryption.		
Control N/A		Control	Disable Wireless Networking	
Existing NIST SP 800-53 Rev.4 control which was not selected for EDE and is applicable to ARC-AMPE.		AC-18(03): Disable Wireless Networking Disable, when not intended for use, wireless networking capabilities embedded within system components prior to issuance and deployment.		
Control	Acc	ess Control for Mobile Devices	Control	Access Control for Mobile Devices

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	EDE	ARC-AMPE		
The organiz a. Es rec im mo b. Au co inf	ress Control for Mobile Devices cation: catalishes usage restrictions, configuration quirements, connection requirements, and plementation guidance for organization-controlled obile devices; athorizes, through the organization CIO, the nnection of mobile devices to organizational formation systems ation Standard formation on all mobile devices that contains PII.	AC-19: Access Control for Mobile Devices a. Establish configuration requirements, connection requirements, and implementation guidance for organization-controlled mobile devices, to include when such devices are outside of controlled areas; and b. Authorize the connection of mobile devices to organizational systems.		
Control	Full-Device / Container-Based Encryption	Control	Full Device and Container-based Encryption	
AC-19(5): Full-Device / Container-Based Encryption The organization employs the required (FIPS 140-2 validated module) full-device encryption or container encryption to protect the confidentiality and integrity of information on approved mobile devices.		AC-19(05): Full Device and Container-based Encryption Employ full device encryption or container encryption using the most current FIPS 140-compliant encryption standards to protect the confidentiality and integrity of information on approved mobile devices.		
-	ation Standards rmation on all mobile devices that contain PII.			
Control	Use of External Information Systems	Control	Use of External Systems	
The organiz systems, ind desktop corpersonal dig facsimile ma airports to sinformation, organizatior external info establishes and condition a. The external info destablishes and condition a. The external info transplant info destablishes and condition a. The external info establishes and condition a. The external info transplant info transplant info transplant info transplant info distribution info transplant info transplant info transplant info transplant info transplant info info info info info info info info	e of External Information Systems ration prohibits the use of external information cluding but not limited to, Internet kiosks, personal inputers, laptops, tablet personal computers, gital assistant (PDA) devices, cellular telephones, achines, and equipment available in hotels or tore, access, transmit, or process sensitive unless explicitly authorized, in writing, by the in CIO or his/her designated representative. If formation systems are authorized, the organization strict terms and conditions for their use. The terms ons must address, at a minimum: the types of applications that can be accessed from iternal information systems; the maximum FIPS 199 security category of formation that can be processed, stored, and insmitted; but other users of the external information system II be prevented from accessing federal information; the use of VPN and stateful inspection firewall chnologies; the use of and protection against the vulnerabilities of reless technologies; the maintenance of adequate physical security introls; the use of virus and spyware protection software; and but often the security capabilities of installed fitware are to be updated.	a. Establish organization-defined terms and conditions and identify organization-defined controls asserted to be implemented on external systems, consistent with the trust relationships established with other organizations owning, operating, and/or maintaining external systems, allowing authorized individuals to: 1. Access the system from external systems; and 2. Process, store, or transmit organization-controlled information using external systems; or Prohibit the use of organizationally defined types of external systems.		
1. In	ation Standards struct all personnel working from home to implement ndamental security controls and practices, including			

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	EDE	ARC-AMPE		
passwords, virus protection, and personal firewalls. Limit remote access only to information resources required by home users to complete job duties. Require that any organization-owned equipment be used only for business purposes by authorized employees.				
3. P ag in	rily organization owned computers and software can e used to process, access, and store PII. rivacy requirements must be addressed in greements that cover relationships in which external formation systems are used to access, process, core, or transmit and manage PII.			
Access to F not limited to limited to th	PII from external information systems (including, but to, personally owned information systems/devices) is ose organizations and individuals with a binding to terms and conditions of privacy requirements			
Control	Limits on Authorized Use	Control	Limits on Authorized Use	
AC-20(1): Limits on Authorized Use The organization permits authorized individuals to use an external information system to access the information system or to process, store, or transmit organization-controlled information only when the organization: a. Verifies the implementation of required security controls on the external system as specified in the organization's information security policy and security plan; or b. Retains approved information system connection or processing agreements with the organizational entity hosting the external information system.		AC-20(01): Limits on Authorized Use Permit authorized individuals to use an external system to access the system or to process, store, or transmit organization-controlled information only after: a. Verification of the implementation of controls on the external system as specified in the organization's security and privacy policies and security and privacy plans; or b. Retention of approved system connection or processing agreements with the organizational entity hosting the external system.		
Control Portable Storage Devices		Control	Portable Storage Devices — Restricted Use	
AC-20(2): Portable Storage Devices The organization restricts the use of organization-controlled portable storage devices by authorized individuals on external information systems.		AC-20(02): Portable Storage Devices — Restricted Use Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems using organization-defined restrictions.		
Control	Information Sharing	Control	Information Sharing	
AC-21: Information Sharing The organization: a. Facilitates information sharing by enabling authorized users to determine whether access authorizations assigned to the sharing partner match the access restrictions on the information for approved information-sharing circumstances where user discretion is required; and b. Employs defined automated mechanisms or manual processes (defined in the applicable security plan) to assist users in making information-sharing/collaboration decisions.		AC-21: Information Sharing a. Enable authorized users to determine whether access authorizations assigned to a sharing partner match the information's access and use restrictions for organization-defined information-sharing circumstances where user discretion is required; and b. Employ organization-defined automated mechanisms or manual processes to assist users in making information-sharing and collaboration decisions.		

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EDE			ARC-AMPE		
Control	Publicly Accessible Content	Control	Publicly Accessible Content		
Publicly Accessible Content AC-22: Publicly Accessible Content The organization: a. Designates individuals authorized to post information onto a publicly accessible information system; b. Trains authorized individuals to ensure that publicly accessible information does not contain nonpublic information; c. Reviews the proposed content of information prior to posting onto the publicly accessible information system to ensure that nonpublic information is not included; and d. Reviews the content on the publicly accessible		AC-22: Publicly Accessible Content a. Designate individuals authorized to make information publicly accessible; b. Train authorized individuals to ensure that publicly accessible information does not contain nonpublic information; c. Review the proposed content of information prior to posting onto the publicly accessible system to ensure that nonpublic information is not included; and d. Review the content on the publicly accessible system for nonpublic information bi-weekly (no less often than fourteen [14] days) and remove such information, if discovered.			
q	information system for nonpublic information at least quarterly and removes such information, if discovered. mplementation Standard				
The organization reviews the content on the publicly accessible organizational information system for nonpublic information at least quarterly					

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References

NIST SP 800-53 Revision 5.1.1

NIST SP 800-53 Revision 4

CMS Standards

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Jessica joined Coalfire in 2024 with five prior years of cybersecurity consulting experience. She supports our clients as a Consultant for the GRC Healthcare team where she specializes in cybersecurity risk management, cybersecurity program advisory, and compliance for the healthcare industry.

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With a meticulous eye for detail and a strategic mindset, lan excels in developing tailored solutions to ensure compliance and mitigate risks within complex organizational environments. His expertise extends to leading audits and risk assessments, as well as providing advisory for driving continuous improvement initiatives to enhance cybersecurity posture and operational resilience.

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