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CROSSWALK — INFORMATIVE

GAISSF–FedRAMP Mapping

Government Cloud Security and Assurance Alignment

GAISSF-CRO-036 | Public | Draft for Publication

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This document does not create FedRAMP Certification, a Marketplace listing, or an agency Authorization to Operate.

Document Control

Attribute	Controlled value
Purpose	Map GAISSF v1.0 controls to FedRAMP/NIST SP 800-53 Rev. 5 control families for planning and gap analysis.
Normative GAISSF sources	GAISSF-NOR-001 and GAISSF-NOR-004, version 1.0.
External baseline	FedRAMP Consolidated Rules for 2026; FedRAMP Rev5/Class D; FedRAMP 20x Classes A-C; NIST SP 800-53 Rev. 5.
Mapping granularity	Control-family level; not individual FedRAMP control or assessment-objective level.
Review trigger	Any change to GAISSF, FedRAMP rules, certification classes, Rev5 baselines, 20x requirements, NIST SP 800-53 or agency requirements.
Distribution	Public — Website and GitHub.

1. Executive Summary

GAISSF-CRO-036 maps all 59 GAISSF v1.0 controls to the 20 NIST SP 800-53 Revision 5 control families used in the FedRAMP Rev5 security model. The register contains 258 forward relationships and a complete reverse family coverage view.

The mapping supports preliminary federal-cloud readiness analysis, control ownership, evidence rationalization and identification of AI-specific security capabilities. It is not a FedRAMP assessment and cannot substitute for a defined cloud service offering boundary, applicable certification class, Security Decision Record, security package, independent assessment, continuous monitoring, agency risk acceptance or Marketplace action.

2. Current FedRAMP Baseline

As verified on 29 June 2026, FedRAMP operates under the Consolidated Rules for 2026, officially launched on 25 June 2026. The current program includes the traditional Rev5 path and the FedRAMP 20x pathway. Rev5 program and agency certifications are Class D and use NIST SP 800-53 Rev. 5 controls. FedRAMP 20x Classes A, B and C are available; a 20x Class D path remains planned.

The crosswalk therefore treats the NIST/FedRAMP control families as the stable common organizing layer while preserving separate conclusions for Rev5 controls, FedRAMP-defined parameters, 20x security decisions and indicators, certification class, authorization path and agency-specific risk decisions.

3. Purpose and Intended Use

- Identify candidate overlap between AI security controls and federal cloud security outcome areas.
- Support preliminary gap analysis before a formal FedRAMP readiness or certification engagement.
- Structure evidence reuse while preserving cloud service boundary and shared-responsibility constraints.
- Assist CISOs, cloud security architects, AI governance leads and compliance teams in assigning ownership.

This document must not be used as proof of FedRAMP Certification, authorization, ATO, control implementation, assessment completion or agency acceptance.

4. Scope and Exclusions

In scope	Out of scope
GAISSF v1.0 — 59 authoritative controls	Individual Rev5 control and enhancement determinations
Twenty NIST SP 800-53 Rev. 5 control families	FedRAMP-defined parameters and control-specific guidance
Family-level forward and reverse mapping	FedRAMP 20x KSI implementation and automated validation
Current Rev5 and 20x pathway context	SSP, SAP, SAR, POA&M, Security Decision Record or ConMon completion

In scope	Out of scope
Evidence and residual-gap guidance	3PAO/FedRAMP Recognized assessment, FedRAMP Certification, Marketplace listing or agency ATO

5. Source Register

Source	Role	Status	Verified
GAISSF-NOR-001 v1.0	Framework and conformance baseline	Normative GAISSF	29 Jun 2026
GAISSF-NOR-004 v1.0	Authoritative 59-control catalogue	Normative GAISSF	29 Jun 2026
FedRAMP Consolidated Rules for 2026	Current program rules and terminology	Official FedRAMP	29 Jun 2026
NIST SP 800-53 Revision 5	Rev5 control-family and control baseline	Official NIST	29 Jun 2026
OMB Memorandum M-24-15	Authorization policy and responsibilities	Binding federal policy	29 Jun 2026
FedRAMP 20x documentation	Current classes and phased implementation	Official FedRAMP	29 Jun 2026

6. Mapping Methodology

Mappings compare intended security outcome, lifecycle relevance, cloud implementation context, evidence expectations and shared-responsibility implications. A relationship is assigned only where a substantive operational connection exists. Similar terminology alone is insufficient.

Code	Meaning
SP	Strong partial: the GAISSF control materially supports the family outcome but leaves FedRAMP-specific requirements.
P	Partial: meaningful overlap exists but the GAISSF control addresses only part of the family scope.
S	Supporting: the control contributes evidence or capability without directly satisfying the family outcome.
N/O/U	No material mapping, outside scope or unable to determine.

7. Coverage Summary by Control Family

Family	Title	GAISSF controls	Records	Coverage status
AC	Access Control	14	14	Substantially Addressed
AT	Awareness and Training	5	5	Substantially Addressed
AU	Audit and Accountability	9	9	Substantially Addressed
CA	Assessment, Authorization and Monitoring	13	13	Substantially Addressed
CM	Configuration Management	9	9	Substantially Addressed
CP	Contingency Planning	9	9	Substantially Addressed
IA	Identification and Authentication	12	12	Substantially Addressed
IR	Incident Response	15	15	Substantially Addressed
MA	Maintenance	0	0	Not Addressed
MP	Media Protection	3	3	Partially Addressed
PE	Physical and Environmental Protection	7	7	Substantially Addressed
PL	Planning	12	12	Substantially Addressed

Family	Title	GAISSF controls	Records	Coverage status
PM	Program Management	12	12	Substantially Addressed
PS	Personnel Security	0	0	Not Addressed
PT	Personally Identifiable Information Processing and Transparency	6	6	Substantially Addressed
RA	Risk Assessment	27	27	Substantially Addressed
SA	System and Services Acquisition	25	25	Substantially Addressed
SC	System and Communications Protection	20	20	Substantially Addressed
SI	System and Information Integrity	43	43	Substantially Addressed
SR	Supply Chain Risk Management	17	17	Substantially Addressed

8. GAISSF-to-FedRAMP Mapping Register

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
D1-CTL-01	Dataset Provenance & Poisoning Prevention	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-01	Dataset Provenance & Poisoning Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-01	Dataset Provenance & Poisoning Prevention	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-01	Dataset Provenance & Poisoning Prevention	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-02	Model Extraction Resistance	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSE control.
D1-CTL-02	Model Extraction Resistance	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-02	Model Extraction Resistance	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-02	Model Extraction Resistance	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-03	Behavioral Drift Detection	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-03	Behavioral Drift Detection	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-03	Behavioral Drift Detection	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-03	Behavioral Drift Detection	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D1-CTL-04	Federated Learning Poisoning Prevention	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-04	Federated Learning Poisoning Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-04	Federated Learning Poisoning Prevention	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-04	Federated Learning Poisoning Prevention	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-05	Embedding Space Robustness	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-05	Embedding Space Robustness	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-05	Embedding Space Robustness	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D1-CTL-05	Embedding Space	SR — Supply Chain	S	Medium	FedRAMP requires

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
	Robustness	Risk Management			cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-06	Post-Quantum Model Signing & Crypto Hardening	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-06	Post-Quantum Model Signing & Crypto Hardening	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-06	Post-Quantum Model Signing & Crypto Hardening	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-06	Post-Quantum Model Signing & Crypto Hardening	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-06	Post-Quantum Model Signing & Crypto Hardening	SC — System and Communications Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-07	Lora/Adapter Integrity Verification	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-07	Lora/Adapter Integrity Verification	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-07	Lora/Adapter Integrity Verification	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-07	Lora/Adapter Integrity Verification	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-08	Model Merge Attack Detection	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-08	Model Merge Attack Detection	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-08	Model Merge Attack Detection	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-08	Model Merge Attack Detection	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-09	Quantization Backdoor Screening	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-09	Quantization Backdoor Screening	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-09	Quantization Backdoor Screening	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D1-CTL-09	Quantization Backdoor Screening	SR — Supply Chain Risk Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-01	Direct Prompt Injection Prevention	AC — Access Control	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-01	Direct Prompt Injection Prevention	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-01	Direct Prompt Injection Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-01	Direct Prompt Injection Prevention	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-02	Indirect Prompt Injection Prevention	AC — Access Control	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-02	Indirect Prompt Injection Prevention	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-02	Indirect Prompt Injection Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-02	Indirect Prompt Injection Prevention	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-03	Jailbreak Resistance Testing	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-03	Jailbreak Resistance Testing	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D2-CTL-03	Jailbreak Resistance Testing	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSF control.
D2-CTL-03	Jailbreak Resistance Testing	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-04	Multi-Modal Injection Defense	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-04	Multi-Modal Injection Defense	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-04	Multi-Modal Injection Defense	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-04	Multi-Modal Injection Defense	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-05	Function Call/Tool Call Injection Prevention	AC — Access Control	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-05	Function Call/Tool Call Injection Prevention	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D2-CTL-05	Function Call/Tool Call Injection Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-05	Function Call/Tool Call Injection Prevention	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-06	Cross-Context Hijacking Mitigation	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-06	Cross-Context Hijacking Mitigation	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-06	Cross-Context Hijacking Mitigation	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D2-CTL-06	Cross-Context Hijacking Mitigation	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-01	Least Agency Enforcement	AC — Access Control	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-01	Least Agency	IA — Identification and	P	Medium	FedRAMP requires

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
	Enforcement	Authentication			cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-01	Least Agency Enforcement	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-01	Least Agency Enforcement	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-01	Least Agency Enforcement	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-02	Inter-Agent Communication Security	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-02	Inter-Agent Communication Security	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-02	Inter-Agent Communication Security	SC — System and Communications Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D3-CTL-02	Inter-Agent Communication Security	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-02	Inter-Agent Communication Security	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	AC — Access Control	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-03	Agentic Prompt Chaining Detection	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-04	Embodied Ai Safety Controls	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-04	Embodied Ai Safety Controls	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-04	Embodied Ai Safety Controls	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-04	Embodied Ai Safety Controls	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-04	Embodied Ai Safety Controls	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-05	Multi-Agent Trust Chain Attestation	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-05	Multi-Agent Trust Chain Attestation	IA — Identification and Authentication	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-05	Multi-Agent Trust Chain Attestation	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-05	Multi-Agent Trust Chain Attestation	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-05	Multi-Agent Trust Chain Attestation	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	SC — System and Communications Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-06	Persistent Memory Exfiltration Prevention	MP — Media Protection	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	AC — Access Control	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D3-CTL-07	Secure Memory Lifecycle Management	MP — Media Protection	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-01	Ai Bill Of Materials (Ai Bom) Maintenance	SR — Supply Chain Risk Management	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-01	Ai Bill Of Materials (Ai Bom) Maintenance	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-01	Ai Bill Of Materials (Ai Bom) Maintenance	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-01	Ai Bill Of Materials (Ai Bom) Maintenance	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-02	Model File & Artifact Scanning	SR — Supply Chain Risk Management	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-02	Model File & Artifact Scanning	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-02	Model File & Artifact	RA — Risk Assessment	P	Medium	FedRAMP requires

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
	Scanning				cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-02	Model File & Artifact Scanning	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-02	Model File & Artifact Scanning	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-03	Model Hub & Registry Vetting	SR — Supply Chain Risk Management	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-03	Model Hub & Registry Vetting	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-03	Model Hub & Registry Vetting	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-03	Model Hub & Registry Vetting	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-04	Mcp Server Behavioral Monitoring	SR — Supply Chain Risk Management	P	Medium	FedRAMP requires cloud-service-boundary-specific

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-04	Mcp Server Behavioral Monitoring	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-04	Mcp Server Behavioral Monitoring	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-04	Mcp Server Behavioral Monitoring	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-04	Mcp Server Behavioral Monitoring	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-05	Third-Party Ai Api Security Assessment	SR — Supply Chain Risk Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-05	Third-Party Ai Api Security Assessment	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D4-CTL-05	Third-Party Ai Api Security Assessment	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-05	Third-Party Ai Api Security Assessment	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-06	Shadow Ai Discovery & Governance	SR — Supply Chain Risk Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-06	Shadow Ai Discovery & Governance	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-06	Shadow Ai Discovery & Governance	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-06	Shadow Ai Discovery & Governance	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-07	Ai Software Composition Analysis (Sca)	SR — Supply Chain Risk Management	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-07	Ai Software Composition Analysis (Sca)	SA — System and Services Acquisition	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-07	Ai Software Composition Analysis (Sca)	RA — Risk Assessment	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D4-CTL-07	Ai Software Composition Analysis (Sca)	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D5-CTL-01	Harmful Content Blocking	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D5-CTL-01	Harmful Content Blocking	PT — Personally Identifiable Information Processing and Transparency	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D5-CTL-01	Harmful Content Blocking	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D5-CTL-02	Pii Leakage Prevention	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D5-CTL-02	Pii Leakage Prevention	PT — Personally Identifiable Information Processing and Transparency	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSF control.
D5-CTL-02	Pii Leakage Prevention	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-03	Copyright Detection	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-03	Copyright Detection	PT — Personally Identifiable Information Processing and Transparency	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-03	Copyright Detection	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-03	Copyright Detection	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-04	Ai Watermarking Robustness	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-04	Ai Watermarking Robustness	PT — Personally Identifiable Information Processing and Transparency	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D5-CTL-04	Ai Watermarking Robustness	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-05	Privacy-By-Design Verification	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-05	Privacy-By-Design Verification	PT — Personally Identifiable Information Processing and Transparency	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-05	Privacy-By-Design Verification	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-06	Privacy-Preserving MI Validation	SI — System and Information Integrity	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-06	Privacy-Preserving MI Validation	PT — Personally Identifiable Information Processing and Transparency	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D5-CTL-06	Privacy-Preserving MI Validation	SC — System and Communications Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-01	Human-In-The-Loop	PM — Program	P	Medium	FedRAMP requires

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
	For High-Risk Actions	Management			cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-01	Human-In-The-Loop For High-Risk Actions	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-01	Human-In-The-Loop For High-Risk Actions	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-01	Human-In-The-Loop For High-Risk Actions	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-02	Audit Trail Completeness	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-02	Audit Trail Completeness	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-02	Audit Trail Completeness	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-02	Audit Trail Completeness	AU — Audit and Accountability	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-03	Ai Model Card Completeness	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-03	Ai Model Card Completeness	PL — Planning	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-03	Ai Model Card Completeness	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-03	Ai Model Card Completeness	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-04	Ai Incident Response Readiness	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-04	Ai Incident Response Readiness	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-04	Ai Incident Response Readiness	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-04	AI Incident Response Readiness	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-04	AI Incident Response Readiness	IR — Incident Response	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-05	Model Deprecation & Decommissioning	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-05	Model Deprecation & Decommissioning	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-05	Model Deprecation & Decommissioning	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-05	Model Deprecation & Decommissioning	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D6-CTL-05	Model Deprecation & Decommissioning	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-05	Model Deprecation & Decommissioning	MP — Media Protection	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	SR — Supply Chain Risk Management	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-06	Third-Party Ai Vendor Governance	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	CP — Contingency Planning	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D6-CTL-07	Ai Resilience & Business Continuity	IR — Incident Response	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H01	Ai-Generated Phishing Simulation	AT — Awareness and Training	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D7-CTL-H01	Ai-Generated Phishing Simulation	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H01	Ai-Generated Phishing Simulation	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H01	Ai-Generated Phishing Simulation	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H02	Deepfake Detection Training	AT — Awareness and Training	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H02	Deepfake Detection Training	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H02	Deepfake Detection Training	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H02	Deepfake Detection Training	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H02	Deepfake Detection	RA — Risk Assessment	S	Medium	FedRAMP requires

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
	Training				cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H03	Out-Of-Band Authentication	AT — Awareness and Training	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H03	Out-Of-Band Authentication	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H03	Out-Of-Band Authentication	IA — Identification and Authentication	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H03	Out-Of-Band Authentication	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H03	Out-Of-Band Authentication	AC — Access Control	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H04	Ai Social Engineering Ir	AT — Awareness and Training	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H04	Ai Social Engineering Ir	IR — Incident Response	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H04	Ai Social Engineering Ir	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H04	Ai Social Engineering Ir	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H05	Ai-Enhanced External Attack Defense	AT — Awareness and Training	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H05	Ai-Enhanced External Attack Defense	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H05	Ai-Enhanced External Attack Defense	IA — Identification and Authentication	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D7-CTL-H05	Ai-Enhanced External Attack Defense	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-01	Eu Ai Act Risk Tier Mapping	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-01	Eu Ai Act Risk Tier Mapping	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-01	Eu Ai Act Risk Tier Mapping	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-02	Iso 42001 Gap Analysis	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-02	Iso 42001 Gap Analysis	PL — Planning	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-02	Iso 42001 Gap Analysis	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-03	Gpai Technical Documentation Verification	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-03	Gpai Technical Documentation Verification	PL — Planning	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSE ID	GAISSE control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-03	Gpai Technical Documentation Verification	CA — Assessment, Authorization and Monitoring	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	CA — Assessment, Authorization and Monitoring	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	IR — Incident Response	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSE control.
D8-CTL-04	Dora lct Incident Reporting (Financial Sector)	CP — Contingency Planning	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	PM — Program Management	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	PL — Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	CA — Assessment, Authorization and Monitoring	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	SA — System and Services Acquisition	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	CM — Configuration Management	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D8-CTL-05	Nist Sp 800-218A Compliance Check	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-01	Physical Harm Boundary Enforcement	PE — Physical and Environmental Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					GAISSF control.
D9-CTL-01	Physical Harm Boundary Enforcement	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-01	Physical Harm Boundary Enforcement	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-01	Physical Harm Boundary Enforcement	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-02	Safe State And Graceful Degradation	PE — Physical and Environmental Protection	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-02	Safe State And Graceful Degradation	CP — Contingency Planning	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-02	Safe State And Graceful Degradation	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-02	Safe State And Graceful Degradation	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-03	Human Override And	PE — Physical and	SP	Medium-High	FedRAMP requires

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
	Emergency Stop	Environmental Protection			cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-03	Human Override And Emergency Stop	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-03	Human Override And Emergency Stop	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-03	Human Override And Emergency Stop	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-04	Cyber-Physical Attack Detection	PE — Physical and Environmental Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-04	Cyber-Physical Attack Detection	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-04	Cyber-Physical Attack Detection	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-04	Cyber-Physical Attack Detection	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-04	Cyber-Physical Attack Detection	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-05	Physical Environment Integrity Monitoring	PE — Physical and Environmental Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-05	Physical Environment Integrity Monitoring	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-05	Physical Environment Integrity Monitoring	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-05	Physical Environment Integrity Monitoring	SI — System and Information Integrity	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-05	Physical Environment Integrity Monitoring	RA — Risk Assessment	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-06	Actuator Command Verification	PE — Physical and Environmental Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements,

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-06	Actuator Command Verification	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-06	Actuator Command Verification	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-06	Actuator Command Verification	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	PE — Physical and Environmental Protection	SP	Medium-High	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	CP — Contingency Planning	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	IR — Incident Response	P	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	SI — System and Information Integrity	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-

GAISSF ID	GAISSF control	FedRAMP family	Relationship	Confidence	Residual gap
					defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	AU — Audit and Accountability	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.
D9-CTL-07	Physical Incident Evidence Preservation	CA — Assessment, Authorization and Monitoring	S	Medium	FedRAMP requires cloud-service-boundary-specific implementation statements, inherited/shared controls, FedRAMP-defined parameters, evidence, testing and authorization/certification on records beyond this GAISSF control.

9. FedRAMP-to-GAISSF Reverse Coverage

Family	Title	Mapped GAISSF controls	Coverage	Residual gap
AC	Access Control	D2-CTL-01, D2-CTL-02, D2-CTL-03, D2-CTL-04, D2-CTL-05, D2-CTL-06, D3-CTL-01, D3-CTL-02, D3-CTL-03, D3-CTL-04, D3-CTL-05, D3-CTL-06, D3-CTL-07, D7-CTL-H03	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
AT	Awareness and Training	D7-CTL-H01, D7-CTL-H02, D7-CTL-H03, D7-CTL-H04, D7-CTL-H05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
AU	Audit and Accountability	D6-CTL-01, D6-CTL-02, D6-CTL-03, D6-CTL-04, D6-CTL-05, D6-CTL-06, D6-CTL-07, D8-CTL-04, D9-CTL-07	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
CA	Assessment, Authorization and Monitoring	D6-CTL-01, D6-CTL-02, D6-CTL-03, D6-CTL-04, D6-CTL-05, D6-CTL-06, D6-CTL-07, D8-CTL-01,	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or

Family	Title	Mapped GAISSF controls	Coverage	Residual gap
		D8-CTL-02, D8-CTL-03, D8-CTL-04, D8-CTL-05, D9-CTL-07		enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
CM	Configuration Management	D4-CTL-01, D4-CTL-02, D4-CTL-03, D4-CTL-04, D4-CTL-05, D4-CTL-06, D4-CTL-07, D6-CTL-05, D8-CTL-05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
CP	Contingency Planning	D6-CTL-07, D8-CTL-04, D9-CTL-01, D9-CTL-02, D9-CTL-03, D9-CTL-04, D9-CTL-05, D9-CTL-06, D9-CTL-07	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
IA	Identification and Authentication	D3-CTL-01, D3-CTL-02, D3-CTL-03, D3-CTL-04, D3-CTL-05, D3-CTL-06, D3-CTL-07, D7-CTL-H01, D7-CTL-H02, D7-CTL-H03, D7-CTL-H04, D7-CTL-H05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
IR	Incident Response	D6-CTL-04, D6-CTL-07, D7-CTL-H01, D7-CTL-H02, D7-CTL-H03, D7-CTL-H04, D7-CTL-H05, D8-CTL-04, D9-CTL-01, D9-CTL-02, D9-CTL-03, D9-CTL-04, D9-CTL-05, D9-CTL-06, D9-CTL-07	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
MA	Maintenance		Not Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain

Family	Title	Mapped GAISSF controls	Coverage	Residual gap
MP	Media Protection	D3-CTL-06, D3-CTL-07, D6-CTL-05	Partially Addressed	necessary. Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
PE	Physical and Environmental Protection	D9-CTL-01, D9-CTL-02, D9-CTL-03, D9-CTL-04, D9-CTL-05, D9-CTL-06, D9-CTL-07	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
PL	Planning	D6-CTL-01, D6-CTL-02, D6-CTL-03, D6-CTL-04, D6-CTL-05, D6-CTL-06, D6-CTL-07, D8-CTL-01, D8-CTL-02, D8-CTL-03, D8-CTL-04, D8-CTL-05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
PM	Program Management	D6-CTL-01, D6-CTL-02, D6-CTL-03, D6-CTL-04, D6-CTL-05, D6-CTL-06, D6-CTL-07, D8-CTL-01, D8-CTL-02, D8-CTL-03, D8-CTL-04, D8-CTL-05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
PS	Personnel Security		Not Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
PT	Personally Identifiable Information Processing and Transparency	D5-CTL-01, D5-CTL-02, D5-CTL-03, D5-CTL-04, D5-CTL-05, D5-CTL-06	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-

Family	Title	Mapped GAISSF controls	Coverage	Residual gap
				responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
RA	Risk Assessment	D1-CTL-01, D1-CTL-02, D1-CTL-03, D1-CTL-04, D1-CTL-05, D1-CTL-06, D1-CTL-07, D1-CTL-08, D1-CTL-09, D2-CTL-01, D2-CTL-02, D2-CTL-03, D2-CTL-04, D2-CTL-05, D2-CTL-06, D3-CTL-03, D4-CTL-01, D4-CTL-02, D4-CTL-03, D4-CTL-04, D4-CTL-05, D4-CTL-06, D4-CTL-07, D5-CTL-03, D7-CTL-H02, D9-CTL-04, D9-CTL-05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
SA	System and Services Acquisition	D1-CTL-01, D1-CTL-02, D1-CTL-03, D1-CTL-04, D1-CTL-05, D1-CTL-06, D1-CTL-07, D1-CTL-08, D1-CTL-09, D3-CTL-01, D3-CTL-02, D3-CTL-03, D3-CTL-04, D3-CTL-05, D3-CTL-06, D3-CTL-07, D4-CTL-01, D4-CTL-02, D4-CTL-03, D4-CTL-04, D4-CTL-05, D4-CTL-06, D4-CTL-07, D6-CTL-06, D8-CTL-05	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
SC	System and Communications Protection	D1-CTL-06, D2-CTL-01, D2-CTL-02, D2-CTL-03, D2-CTL-04, D2-CTL-05, D2-CTL-06, D3-CTL-01, D3-CTL-02, D3-CTL-03, D3-CTL-04, D3-CTL-05, D3-CTL-06, D3-CTL-07, D5-CTL-01, D5-CTL-02, D5-CTL-03, D5-CTL-04, D5-CTL-05, D5-CTL-06	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
SI	System and Information Integrity	D1-CTL-01, D1-CTL-02, D1-CTL-03, D1-CTL-04, D1-CTL-05, D1-CTL-06, D1-CTL-07, D1-CTL-08, D1-CTL-09, D2-CTL-01, D2-CTL-02, D2-CTL-03, D2-CTL-04, D2-CTL-05, D2-CTL-06, D3-CTL-01, D3-CTL-02, D3-CTL-03, D3-CTL-04, D3-CTL-05, D3-CTL-06, D3-CTL-07, D4-CTL-02, D4-CTL-04, D5-CTL-01, D5-CTL-02, D5-CTL-03, D5-CTL-04, D5-CTL-05, D5-CTL-06, D7-CTL-H01, D7-CTL-H02, D7-CTL-H03, D7-CTL-H04, D7-CTL-H05, D8-CTL-05, D9-CTL-01, D9-CTL-02, D9-CTL-03, D9-CTL-04, D9-CTL-05, D9-CTL-06, D9-CTL-07	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation, assessment procedures and authorization/certification evidence remain necessary.
SR	Supply Chain Risk Management	D1-CTL-01, D1-CTL-02, D1-CTL-03, D1-CTL-04, D1-CTL-05, D1-CTL-06, D1-CTL-07, D1-CTL-08, D1-CTL-09, D4-CTL-01, D4-CTL-02, D4-CTL-03, D4-CTL-04, D4-CTL-05, D4-CTL-06, D4-CTL-07, D6-CTL-06	Substantially Addressed	Family-level mapping does not establish implementation of every Rev5 control or enhancement. A Class/impact-specific control baseline, FedRAMP parameters, shared-responsibility allocation,

Family	Title	Mapped GAISSF controls	Coverage	Residual gap
				assessment procedures and authorization/certification evidence remain necessary.

10. FedRAMP Readiness Implications

Cloud Service Offering boundary

The organization must define the exact service, components, deployment model, data flows, external services and inherited controls. GAISSF does not establish this boundary.

Certification class and pathway

The provider must select the applicable current FedRAMP class and Rev5 or 20x pathway. The crosswalk does not make that selection.

Shared responsibility

Each relevant control must be allocated among the provider, federal customer, underlying infrastructure provider and other external services.

Assessment and evidence

FedRAMP requires current implementation evidence, independent verification where applicable, findings management and continuous reporting.

Agency decision

An agency authorizing official remains responsible for the agency's ATO and may require additional controls based on mission and risk.

11. Evidence Reuse Guidance

GAISSF evidence type	Potential FedRAMP use	Required validation
AI asset inventory and AI BOM	Support CM, PM, RA, SA and SR inventories	Confirm complete CSO boundary, ownership, currency and inherited components.
Threat models and adversarial test reports	Support RA, CA, SI and SC analysis	Align to FedRAMP control objectives, system architecture and current deployed version.
Audit logs and monitoring records	Support AU, CA, IR and SI	Validate required events, retention, protection, review cadence and incident integration.
Vendor and model-provider assessments	Support SA and SR	Document contracts, service dependencies, flow-down requirements and ongoing monitoring.
Incident response and continuity records	Support IR and CP	Integrate agency/FedRAMP reporting, exercises, recovery objectives and lessons learned.
Privacy and PII controls	Support PT and SC	Complete federal privacy analysis, authority, notices, minimization and records.

12. Limitations

- This is an interpretive control-family crosswalk, not a control-by-control FedRAMP gap assessment.

- FedRAMP requirements are cloud-service-offering-specific and depend on certification class, pathway, agency use, architecture and information impact.
- A mapped GAISSF control may support several FedRAMP controls but does not satisfy their complete statements, parameters or assessment objectives.
- Current FedRAMP rules are evolving rapidly; this mapping must be revalidated after program or baseline changes.
- The mapping does not address classified information or agency-specific requirements outside the FedRAMP package.

13. Notably Absent

- No FedRAMP Certification, authorization or agency ATO is created by this mapping.
- No individual FedRAMP control is deemed implemented solely because a GAISSF control maps to its family.
- No FedRAMP-recognized independent assessment has been performed.
- No cloud-service boundary, data-impact class, inherited-control model or agency use case is established.
- No SSP, SAP, SAR, POA&M, Security Decision Record or continuous-monitoring package is completed.
- No endorsement, acceptance or recognition by GSA, FedRAMP, OMB, NIST or any federal agency is implied.

14. Conclusion

GAISSF provides material AI-security capabilities across all FedRAMP/NIST control families, particularly risk assessment, system integrity, system acquisition, communications protection, supply-chain risk, incident response and governance. The relationship is complementary rather than substitutive. Formal FedRAMP readiness requires a complete, class-specific and pathway-specific assessment against the controlling FedRAMP rules.

Annex A — Official Source Links

<https://www.fedramp.gov/2026/>

<https://www.fedramp.gov/20x/>

<https://www.fedramp.gov/docs/authority/>

<https://www.fedramp.gov/docs/authority/m-24-15/process/>

<https://csrc.nist.gov/pubs/sp/800/53/r5/upd1/final>