

Glossary of Research Data Security Acronyms and Terms

Category	Acronym	Definition	Description
FedRAMP	3PAO	Third Party Assessment Organization	Organizations that assess the security of cloud services. Ensures research data stored in the cloud is safe.
IT Security	AAA	Authentication, authorization, accounting	Core security services. Ensures only authorized individuals access and modify research data.
IT Security	AD	Active directory	A directory service for Windows domain networks. Can be used to manage access to data systems.
IT Security	AI	Artificial intelligence	Machines mimicking cognitive functions, such as problem-solving, pattern recognition, and decision-making. Can be used in data analysis and management.
FedRAMP	AO	Authorizing Official	Officials responsible for accepting risks and granting authorizations. Ensures research data systems are up to standard.
FedRAMP	ATO	Authority To Operate	Official permission for a system to operate. Ensures only secure systems manage data.
IT Security	BAA	Business Associate Agreement	An agreement ensuring that third parties handle personal health information in compliance with HIPAA regulations.
IT Security	CA	Certification authority	Entities that issue digital certificates. Ensures secure and authenticated communication for research data transfer.
IT Security	CDA	Confidential Disclosure Agreement	An agreement ensuring that information shared for specific purposes remains confidential.
Regulatory	CFR	Code of federal regulations	A codification of general and permanent rules. May contain regulations relevant to data management.
IT Security	CIA Triad	Confidentiality, integrity, and availability triad	Core principles of information security. Ensures data remains confidential, unaltered, and available.

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IT Security	CIS	Center for internet and society	Focuses on internet policies and practices. Their insights can influence research data management policies.
Regulatory	CLIA	Clinical Laboratory Improvement Amendments	U.S. standards ensuring accuracy, reliability, and timeliness of clinical laboratory test results.
Regulatory	CMMC	Cybersecurity Maturity Model Certification	U.S. DoD certification assessing protection of sensitive defense-related data and cybersecurity practices.
FedRAMP	ConMon	Continuous monitoring	Ongoing monitoring of security controls. Ensures continuous security of data.
FAIR	Crossref Funder Registry IDs	Crossref Funder Registry IDs	A unique identifier for funding agencies, enabling tracking of funding sources and their impact on research outputs
FedRAMP	CSO	Cloud Service Offering	Specific services offered by CSPs. Helps researchers choose the right data storage and management solutions.
FedRAMP	CSP	Cloud Service Provider (LabArchives)	Companies that offer cloud storage and services. Essential for storing and managing data in the cloud.
FedRAMP	DocDev	Document development	The process of developing documentation.
FAIR	DOI	Digital object identifier	A unique alphanumeric string assigned to a document or dataset, providing a permanent link to it and ensuring reliable citation.
IT Security	DSA	Data Sharing Agreement	An agreement specifying terms under which data is shared between entities, ensuring proper use and protection.
IT Security	DUA	Data Use Agreement	A contract outlining terms and conditions for the use of data, especially sensitive or proprietary data.
FAIR	FAIR	Findable, Accessible, Interoperable, and Reusable	Principles guiding the transparent management of research data, ensuring it's easily discoverable, accessible, interoperable with other datasets, and reusable for future research.

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FedRAMP	FedRAMP	Federal Risk and Authorization Management Program	A government-wide program that standardizes security assessment and authorization for cloud products and services. Ensures data in the cloud is secure.
FedRAMP	FedRAMP Marketplace	CSP/CSOs that are FedRAMP ready/in process/appr	A marketplace for FedRAMP authorized services. Helps researchers find secure cloud services for their data.
Regulatory	FERPA	Family Educational Rights and Privacy Act	Federal law safeguarding the privacy and access rights of student education records in the U.S.
FedRAMP	FIPS	Federal Information Processing Standards	Standards for computer systems used by the federal government. Ensures data is processed securely.
FedRAMP	FIPS 140-2	Federal Cryptography standards	Standards for cryptographic modules. Ensures encrypted data remains confidential.
FedRAMP	FIPS 199	Federal Security Levels (low, moderate, high)	Security categorization of information systems. Helps determine the level of security needed for data.
FedRAMP	FISMA	Federal Information Security Modernization Act	Legislation to improve information security. Ensures research data held by the federal government is secure.
Regulatory	GCP	Good clinical practices	Standards for clinical trials. Ensures integrity and security of clinical research data.
Regulatory	GDPR	General Data Protection Regulation	Comprehensive EU regulation governing the protection, processing, and free movement of personal data.
Regulatory	GLP	Good laboratory practices	Standards for non-clinical lab studies. Ensures integrity and quality of lab research data.
Regulatory	GMP	Good manufacturing practices	Practices ensuring products are produced consistently and with quality. Relevant for research documentation in manufacturing.

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Regulatory	GxP	Good (variable) practices	General term for various "good practices". Ensures quality and integrity in research data processes.
Regulatory	HIPAA	Health insurance portability and accountability act	Legislation ensuring privacy of medical information. Critical for research data in the medical field.
IT Security	IDP	Identity provider	Provides identity services. Ensures secure and authenticated access to research data systems.
IT Security	IP	Internet protocol	The principal communications protocol for relaying datagrams across network boundaries. Essential for online data transfer.
Regulatory	ISO 27001	International organization for standardization	A standard for information security management. Ensures research data is managed securely.
FedRAMP	JAB	Joint Authorization Board	A board responsible for granting provisional authorizations for cloud services. Critical for ensuring secure data storage and management.
IT Security	MFA	Multi Factor authentication	A security system that requires multiple methods of authentication. Enhances the security of data access.
IT Security	MSA	Master Service Agreement	An agreement detailing terms between parties. Can outline terms for data management services.
IT Security	MSA	Master Services Agreement	A contract between parties detailing terms of service-related agreements, often used to simplify future agreements.
IT Security	NDA	Non-Disclosure Agreement	A legal contract preventing the disclosure of confidential information shared between parties.
IT Security	NIST	National institute of standards and technology	An agency providing technology, metrics, and standards. Their standards are often used in securing research data.
FedRAMP	NIST 800-53r5	(Latest release of security controls)	Latest security controls for federal information systems. Helps in securing data systems.
Regulatory	NSPM -33	National security presidential memoranda 33	Specific to national security. A directive from the US President requiring all federal research funding agencies to strengthen disclosure requirements

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FAIR	ORCID iD	Open Researcher and Contributor ID	A unique identifier for researchers, ensuring accurate attribution of their work and distinguishing between researchers with similar names.
IT Security	OWASP	Open web application security project	A project focused on improving the security of software. Their guidelines can help secure web-based data systems.
IT Security	PHI	Personal health information	Information about individuals' health status. Requires stringent security and privacy measures in research data management.
FAIR	PID	Persistent Unique Identifiers	A stable reference to a digital object, ensuring consistent access and citation regardless of location or metadata changes.
IT Security	PII	Personal identity information	Information that can identify an individual. Requires stringent security and privacy measures in research data management.
FedRAMP	PMO	Program Management Office	An office that manages projects and programs. Can help in managing research data projects.
FedRAMP	POA&M	Plan of Action and Milestones	A plan detailing how security issues will be addressed. Ensures continuous security of data.
Regulatory	QMS	Quality management system	A system to ensure quality in operations. Ensures quality in data management processes.
IT Security	RAD	Reference architecture diagram	A diagram detailing system architecture. Helps in designing research data systems.
FedRAMP	RAR	Readiness Assessment Report	A report detailing a system's readiness for assessment. Helps ensure data systems are secure.
FAIR	ROR	Research Organization Registry	A unique identifier for research institutions, ensuring accurate attribution of research outputs to specific organizations.
FAIR	RRID	Research Resource Identifier	A unique identifier for research resources, such as antibodies and model organisms, ensuring reproducibility and traceability in scientific research.

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FedRAMP	SAP	Security Assessment Plan	A plan for assessing the security of a system. Ensures data systems are secure before use.
FedRAMP	SAR	Security Assessment Report	A report detailing the security assessment results. Helps researchers understand the security of their data systems.
IT Security	SDLC	Software development life cycle	A standardized process of developing software. Ensures data software is developed securely and efficiently.
FedRAMP	Security Auth Package	Collection of Plans/Reports (SSP+SAP+SAR+P OA&M)	A comprehensive package detailing a system's security. Critical for understanding and ensuring data security.
IT Security	SIEM	Security information and event management	Solutions that provide real-time analysis of security alerts. Helps in monitoring and securing data systems.
IT Security	SLA	Service level agreement	An agreement detailing service expectations. Ensures data services meet expected standards.
IT Security	SOC	Security operations center	Centers that monitor and ensure security. Critical for real-time protection of data.
Regulatory	SOC2	Systems and Organization Controls 2	An auditing and certification procedure that evaluates controls related to security, availability, processing integrity, confidentiality, and privacy of customer data.
IT Security	SOW	Statement of work	A document detailing work to be done. Can be used to outline research data management tasks.
IT Security	SSL	Secure sockets layer	A cryptographic protocol for secure communication. Ensures secure transfer of research data.
IT Security	SSO	Single sign on	A system where one login provides access to multiple applications. Simplifies and secures access to data networks.
FedRAMP	SSP	System Security Plan	A plan detailing security measures for a system. Critical for ensuring data is protected.

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Category	Acronym	Definition	Description
FedRAMP	StateRAMP	State Risk and Authorization Management Program	Similar to FedRAMP but for state agencies. Ensures state data in the cloud is secure.
IT Security	STIG	Security technical information guides	Guides for securing systems. Can be used to secure data systems.
IT Security	TLS	Transport layer security	A cryptographic protocol for secure communication. Ensures secure transfer of research data.
IT Security	VLAN	Virtual local area network	A logical network segment. Can segregate data for security.
IT Security	VPN	Virtual private network	A secure network connection over the internet. Allows secure remote access to data.
IT Security	Vuln Management	Vulnerability management	The process of identifying and addressing system vulnerabilities. Ensures data systems remain secure.
IT Security	WAF	Web application firewall	A firewall for web applications. Protects web-based data systems from threats.