Federal Risk and Authorization Management Program (FedRAMP)

CONOPS Briefing February 9, 2012





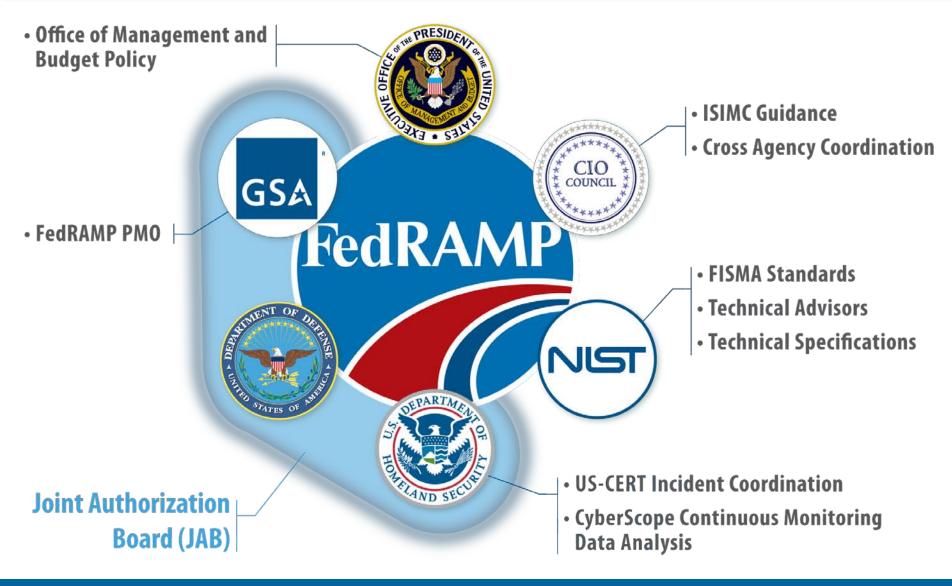


FedRAMP is a government-wide program that provides a standardized approach to security assessment, authorization, and continuous monitoring for cloud products and services.

 This approach uses a "do once, use many times" framework that will save cost, time, and staff required to conduct redundant agency security assessments.







FedRAMP FedRAMP Phases and Timeline

Phased evolution towards sustainable operations allows for the management of risks, capture of lessons learned, and incremental rollout of capabilities

	FY12	FY12	FY13 Q2	FY14
	Pre-Launch Activities	Initial Operational Capabilities (IOC)	Full Operations	Sustaining Operations
	Finalize Requirements and Documentation in Preparation of Launch	Launch IOC with Limited Scope and Cloud Service Provider (CSP)s	Execute Full Operational Capabilities with Manual Processes	Move to Full Implementation with On-Demand Scalability
Key Activities	 Publish FedRAMP Requirements (Security Controls, Templates, Guidance) Publish Agency Compliance Guidance Accredit 3PAOs Establish Priority Queue 	 Authorize CSPs Update CONOPS, Continuous Monitoring Requirements and CSP Guidance Gather Feed 	 Conduct Assessments & Authorizations Scale Operations to Authorize More CSPs back and Incorporate Lessor 	 Implement Electronic Authorization Repository Scale to Steady State Operations
Outcomes	 Initial List of Accredited 3PAOs Launch FedRAMP into Initial Operating Capabilities 	 Initial CSP Authorizations Established Performance Benchmark 	 Multiple CSP Authorizations Defined Business Model Measure Benchmarks 	 Authorizations Scale by Demand Implement Business Model Self-Sustaining Funding Model Covering Operations Privatized Accreditation Board



Federal Risk and Authorization Management Program (FedRAMP)

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FedRAMP Pre-Launch Activities



FedRAMP FedRAMP Pre-Launch Activities

Policy Memo
FedRAMP Baseline Security Controls
3PAO Accreditation
FedRAMP.gov
FedRAMP CONOPS
Publish Agency Compliance Guidance
Accredit 3PAOs
JAB Charter
Initial Operating Capability (IOC)



December 8, 2011 OMB Policy Memo

- Establishes Federal policy for the protection of Federal information in cloud services
- Describes the key components of FedRAMP and its operational capabilities
- Defines Executive department and agency responsibilities in developing, implementing, operating and maintaining FedRAMP
- Defines the requirements for Executive departments and agencies using FedRAMP in the acquisition of cloud services



Controls are selected from the NIST SP 800-53 R3 catalog of controls for low and moderate impact systems

Impact level	NIST Baseline Controls	Additional FedRAMP Controls	Total Controls Agreed to By JAB for FedRAMP
Low	115	1	116
Moderate	252	45	297
control address u	nal FedRAMP s selected to nique elements d computing	Multi-tenancy Shared resource pooling Control of the service Visibility Lack of trust	

FedRAMP Security Controls Baseline Available on FedRAMP.gov



FedRAMP requires CSPs to use Third Party Assessment Organizations (3PAOs) to independently validate and verify that they meet FedRAMP security requirements

Conformity assessment process to accredit 3PAOs based on NIST program

- (1) Independence and quality management in accordance with ISO standards; and
- (2) Technical competence through FISMA knowledge testing.



- Consistency in performing security assessments
- Ensures 3PAO independence from Cloud Service Providers
- Establishes an approved list of 3PAOs for CSPs and Agencies to use

Projected Date for initial list is mid-April 2012. Rolling accreditation afterwards.



<u>The Authoritative Source for Information and</u> <u>Documentation on FedRAMP</u>

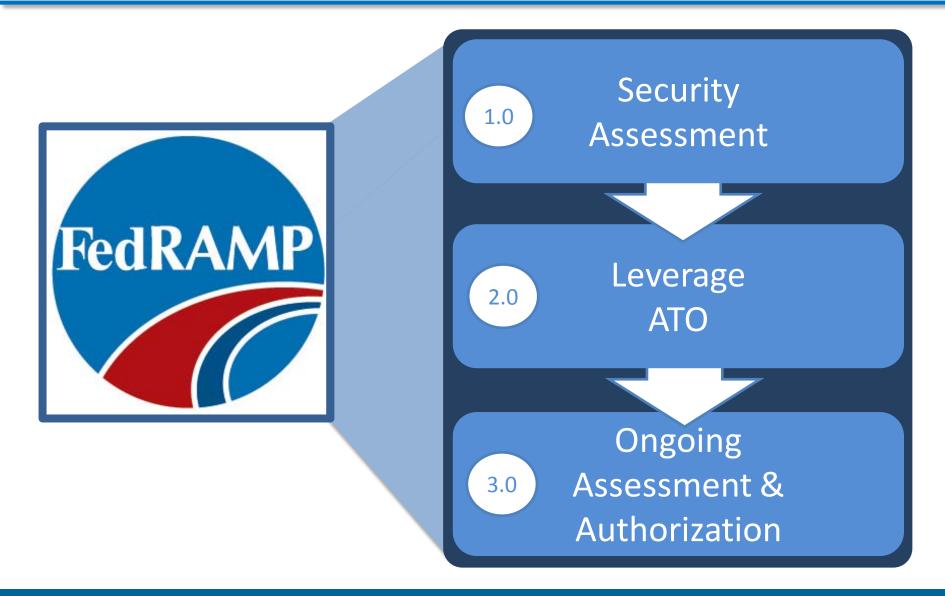
- All content and documentation need by 3PAOs, CSPs, and interested agencies
- Contact and feedback mechanisms
- Frequently Asked Questions (FAQ) received from website, Industry & Agency Days, and other sources
- Will continue to grow and evolve with FedRAMP program



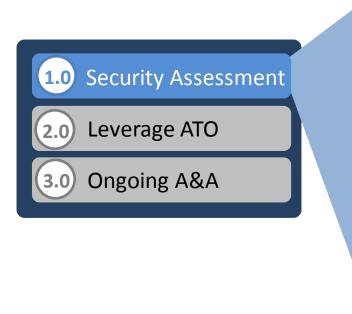
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FedRAMP CONOPS SM

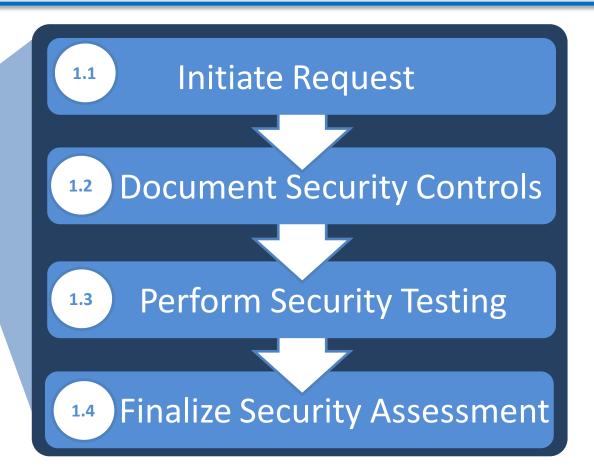
FedRAMP FedRAMP CONOPS: Process Areas



FedRAMP CONOPS: Security Assessment Process



FedRAMP



Security Assessment Process aligns with NIST 800-37



FedRAMP CONOPS: Security Assessment Process Initiate Request

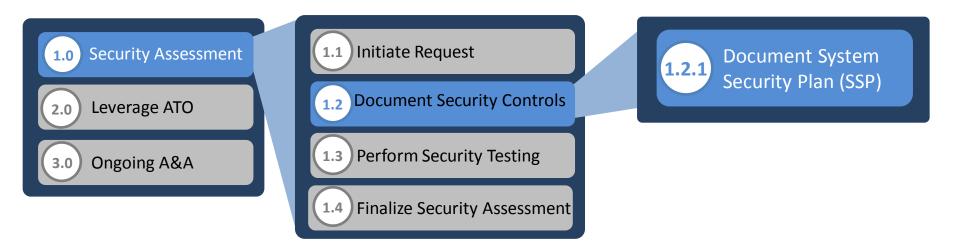


First step in the security assessment process

- Introduction and management of assessment process/timeframes
- Begin defining control responsibility
- Identify any alternate implementations of controls



FedRAMP CONOPS: Security Assessment Process Document Security Controls



Document the System Security Plan (SSP)

- Address how the CSP implements each FedRAMP security control
 - Control responsibility
 - What solution is being used for the control
 - How the solution meets the control requirement



FedRAMP CONOPS: Security Assessment Process Perform Security Testing





Test SSP– Begin work with 3PAO

- Assess against the SSP with NIST SP 800-53a test cases
- 3PAO audits assessment and results
- 3PAO generates security assessment report



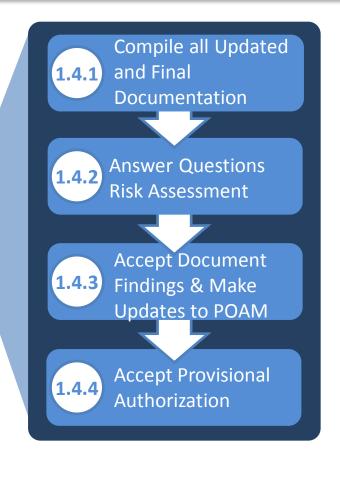
FedRAMP CONOPS: Security Assessment Process Finalize Security Assessment





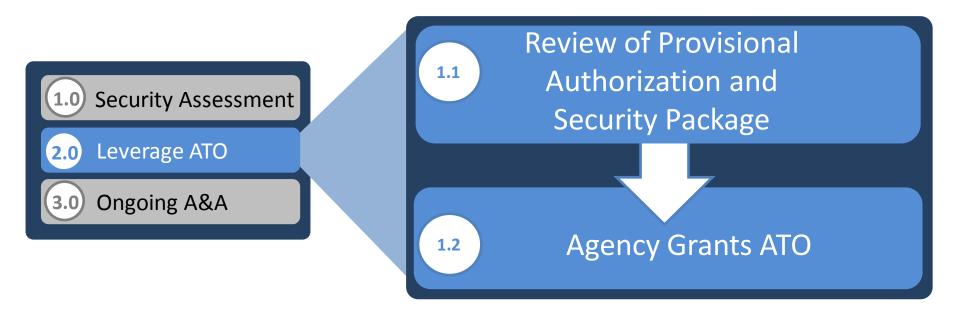
Compile Completed Authorization Package

- Review all documentation
- Review risk posture of CSP system
- Grant / deny provisional authorization





FedRAMP CONOPS: Leverage ATO Process



Federal Agencies Leverage ATO's from the FedRAMP Repository



FedRAMP will maintain a repository of standardized security assessment packages Federal Agencies can leverage to make their own risk-based decisions to grant an Authority to Operate for a cloud solution for their Agency.

This repository is key to the "do once, use many times" approach.

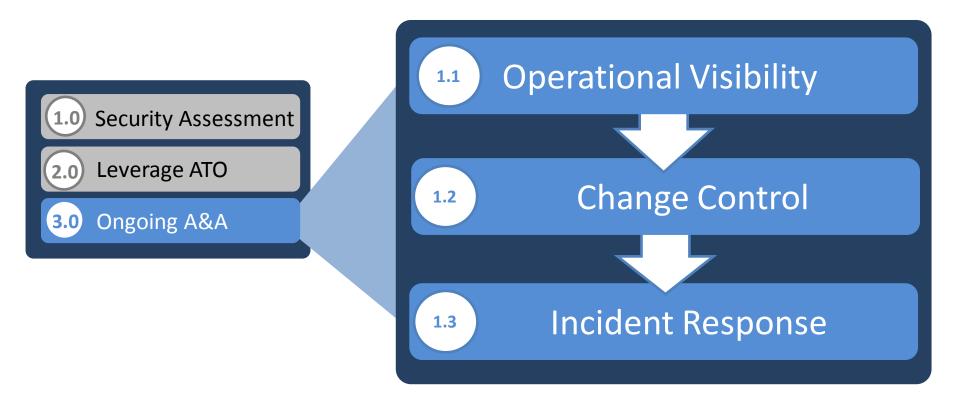
Per OMB policy memo, all assessment packages must use the FedRAMP security requirements – which includes the FedRAMP baseline set of controls as well as all FedRAMP templates

Category	FedRAMP 3PAO	ATO Status	
JAB Provisional ATO	\checkmark	n/a	eview
Agency ATO with FedRAMP 3PAO	\checkmark	Agency	Gov't Re
Agency ATO**	×	Agency	of
CSP Supplied	\checkmark	JAB (+Agency)	Level

** A&A packages without a FedRAMP 3PAO do not meet the independence requirements created by the JAB and are not eligible for JAB review

FedRAMP

FedRAMP CONOPS: Ongoing Assessment & Authorization (Continuous Monitoring)



Security Assessment Process aligns with NIST 800-137

Shift from compliance based decision to risk management framework



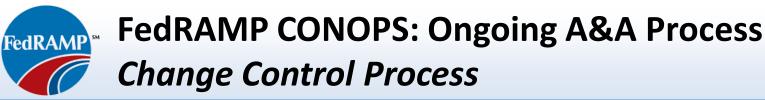
FedRAMP CONOPS: Ongoing A&A Process Operational Visibility

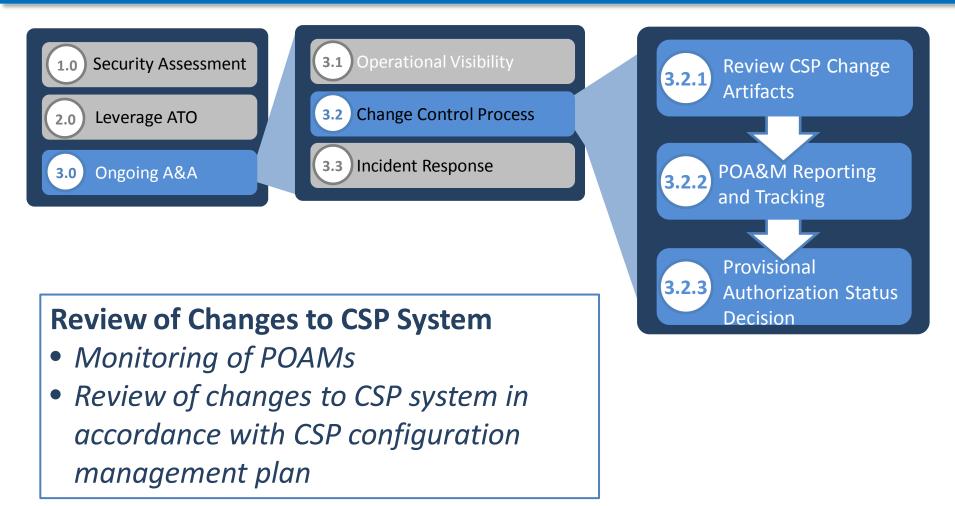


Review of Control Implementation

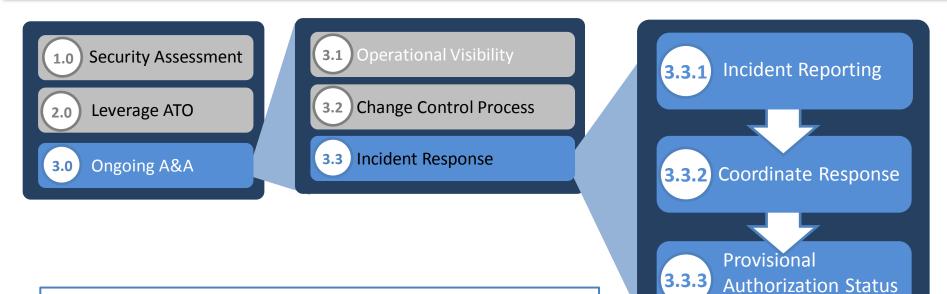
- Automated data feeds analysis
- Periodic reporting of control implementations
- *Review of CSP's annual self attestation and Supplier's Declaration of Conformity*







FedRAMP CONOPS: Ongoing A&A Process Incident Response

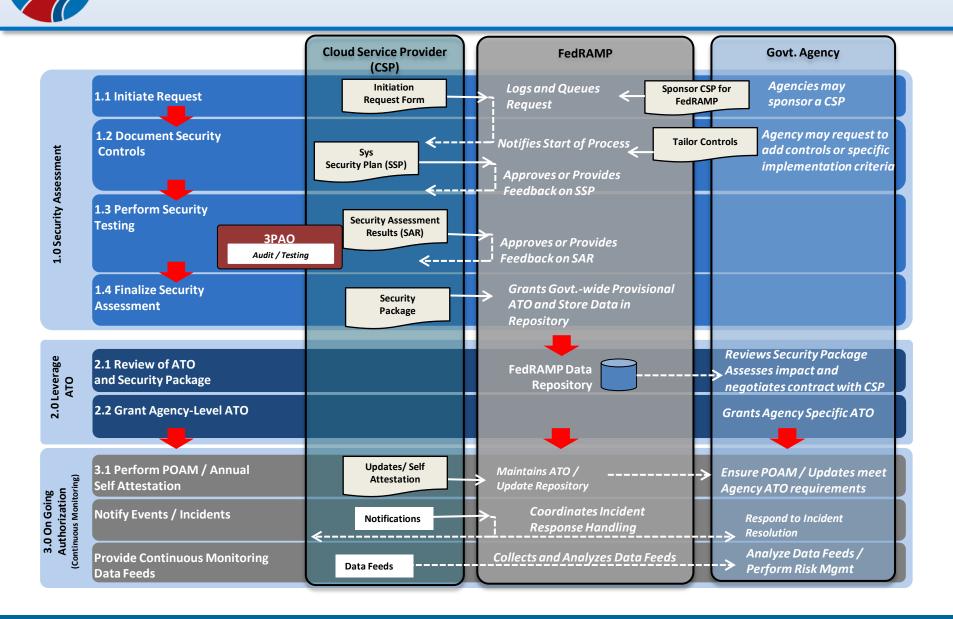


Monitoring of Incidents and New Vulnerabilities

- Coordination with US-CERT and Agency Security Operations Centers
- Coordination of remediation and mitigation activities across Agencies

Decision

FedRAMP FedRAMP Concept of Operations – Overview







For more information, please contact us or visit us at any of the following websites:

http://FedRAMP.gov http://gsa.gov/FedRAMP Follow us on twitters @ FederalCloud