



# Federal Risk and Authorization Management Program (FedRAMP)

**ACT/IAC TechAmerica CONOPS Briefing**

February 8, 2012





# Today's Agenda

<b>Agenda / Topic</b>	<b>Speaker</b>
<b>FedRAMP Overview</b>	Kathy Conrad
<b>FedRAMP Pre-Launch Activities</b>	Katie Lewin
<b>FedRAMP CONOPS</b>	Matt Goodrich
<b>Q&amp;A Session</b>	Panel



# Federal Risk and Authorization Management Program (FedRAMP)

FedRAMP<sup>SM</sup>

## FedRAMP Overview

Kathy Conrad

*Principal Deputy Associate Administrator for OCSIT*





## What is FedRAMP?

*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.





# Executive Sponsors

- Office of Management and Budget Policy



- FedRAMP PMO



- ISIMC Guidance
- Cross Agency Coordination

**FedRAMP**

- FISMA Standards
- Technical Advisors
- Technical Specifications



**Joint Authorization Board (JAB)**



- US-CERT Incident Coordination
- CyberScope Continuous Monitoring Data Analysis



# 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
	<i>Finalize Requirements and Documentation in Preparation of Launch</i>	<i>Launch IOC with Limited Scope and Cloud Service Provider (CSP)s</i>	<i>Execute Full Operational Capabilities with Manual Processes</i>	<i>Move to Full Implementation with On-Demand Scalability</i>
<b>Key Activities</b>	<ul style="list-style-type: none"> <li>• Publish FedRAMP Requirements (Security Controls, Templates, Guidance)</li> <li>• Publish Agency Compliance Guidance</li> <li>• Accredit 3PAOs</li> <li>• Establish Priority Queue</li> </ul>	<ul style="list-style-type: none"> <li>• Authorize CSPs</li> <li>• Update CONOPS, Continuous Monitoring Requirements and CSP Guidance</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct Assessments &amp; Authorizations</li> <li>• Scale Operations to Authorize More CSPs</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Electronic Authorization Repository</li> <li>• Scale to Steady State Operations</li> </ul>
	Gather Feedback and Incorporate Lessons Learned			
<b>Outcomes</b>	<ul style="list-style-type: none"> <li>• Initial List of Accredited 3PAOs</li> <li>• Launch FedRAMP into Initial Operating Capabilities</li> </ul>	<ul style="list-style-type: none"> <li>• Initial CSP Authorizations</li> <li>• Established Performance Benchmark</li> </ul>	<ul style="list-style-type: none"> <li>• Multiple CSP Authorizations</li> <li>• Defined Business Model</li> <li>• Measure Benchmarks</li> </ul>	<ul style="list-style-type: none"> <li>• Authorizations Scale by Demand</li> <li>• Implement Business Model</li> <li>• Self-Sustaining Funding Model Covering Operations</li> <li>• Privatized Accreditation Board</li> </ul>



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## FedRAMP Pre-Launch Activities

Katie Lewin

*Federal Cloud Computing Initiative (FCCI) Director*

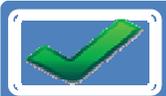




# FedRAMP Pre-Launch Activities



Policy Memo



FedRAMP Baseline Security Controls



3PAO Accreditation



FedRAMP.gov



FedRAMP CONOPS



Publish Agency Compliance Guidance



Accredit 3PAOs



JAB Charter



Initial Operating Capability (IOC)



# FedRAMP Policy Memo

## 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

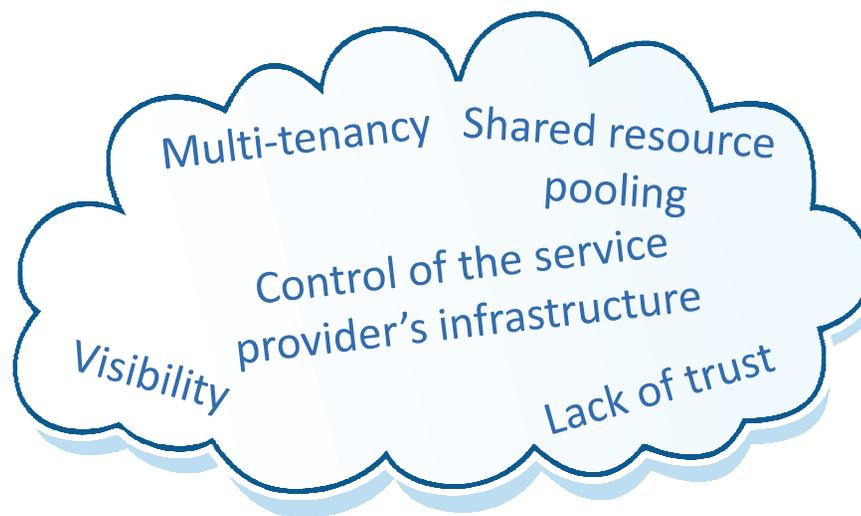


# FedRAMP Baseline Security Controls

*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

**Additional FedRAMP controls selected to address unique elements of cloud computing**



FedRAMP Security Controls Baseline Available on [FedRAMP.gov](http://FedRAMP.gov)



## FedRAMP 3PAO Accreditation

***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.*

**Benefits of  
leveraging a formal  
3PAO approval  
process:**

- 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.



## The Authoritative Source for Information and Documentation on FedRAMP

- 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

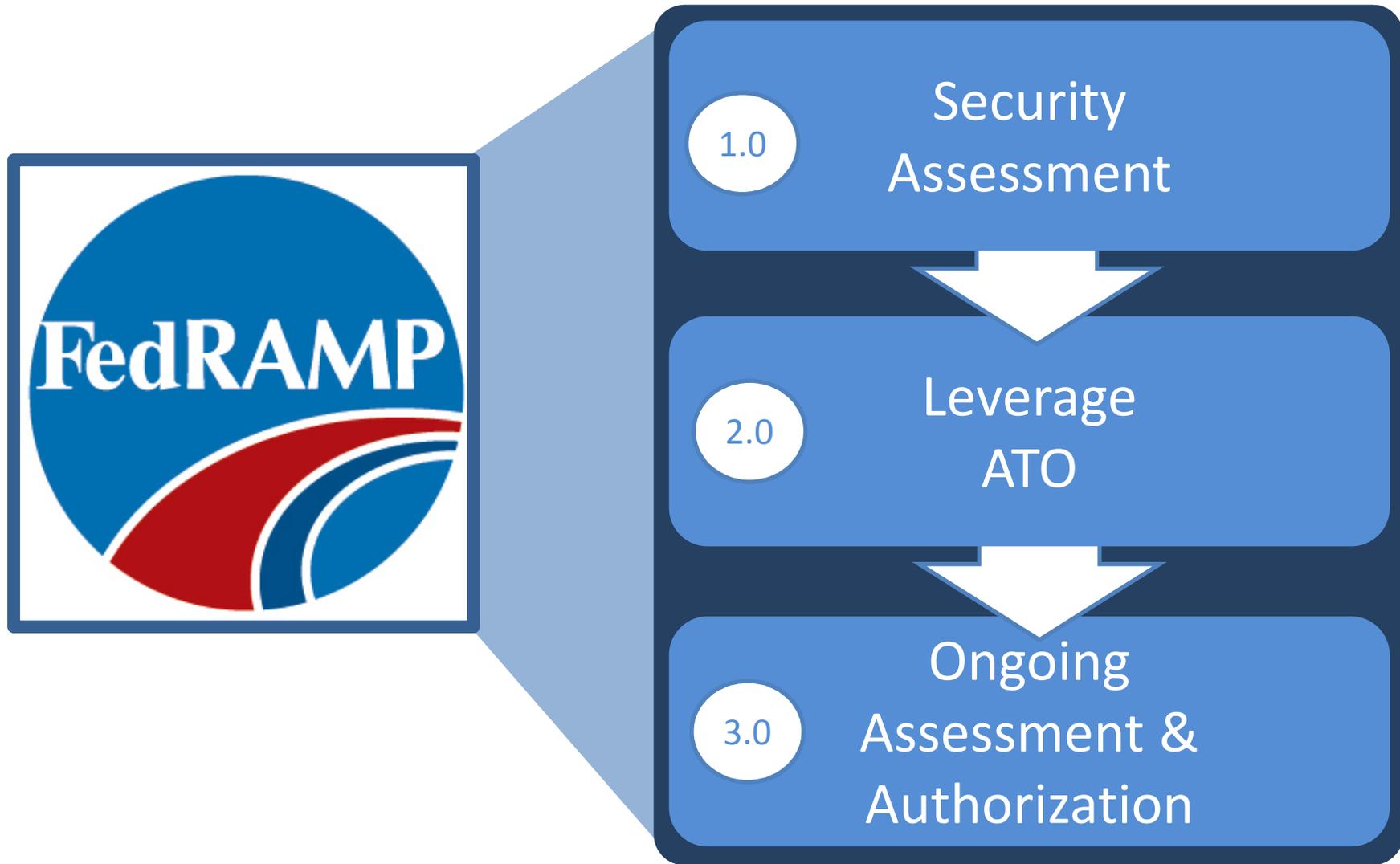
Matthew Goodrich

*FedRAMP Program Manager*



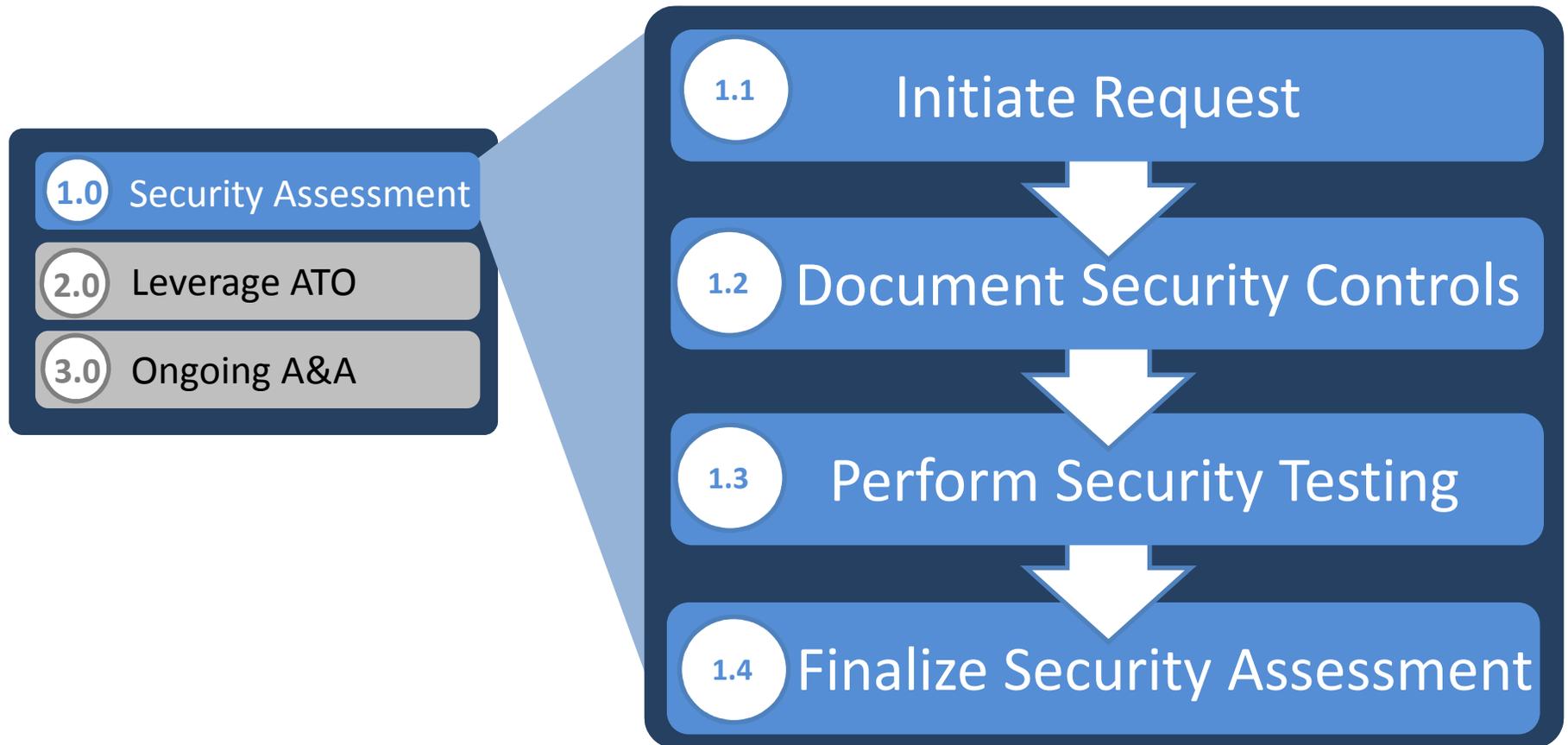


# FedRAMP CONOPS: Process Areas





# FedRAMP CONOPS: Security Assessment Process

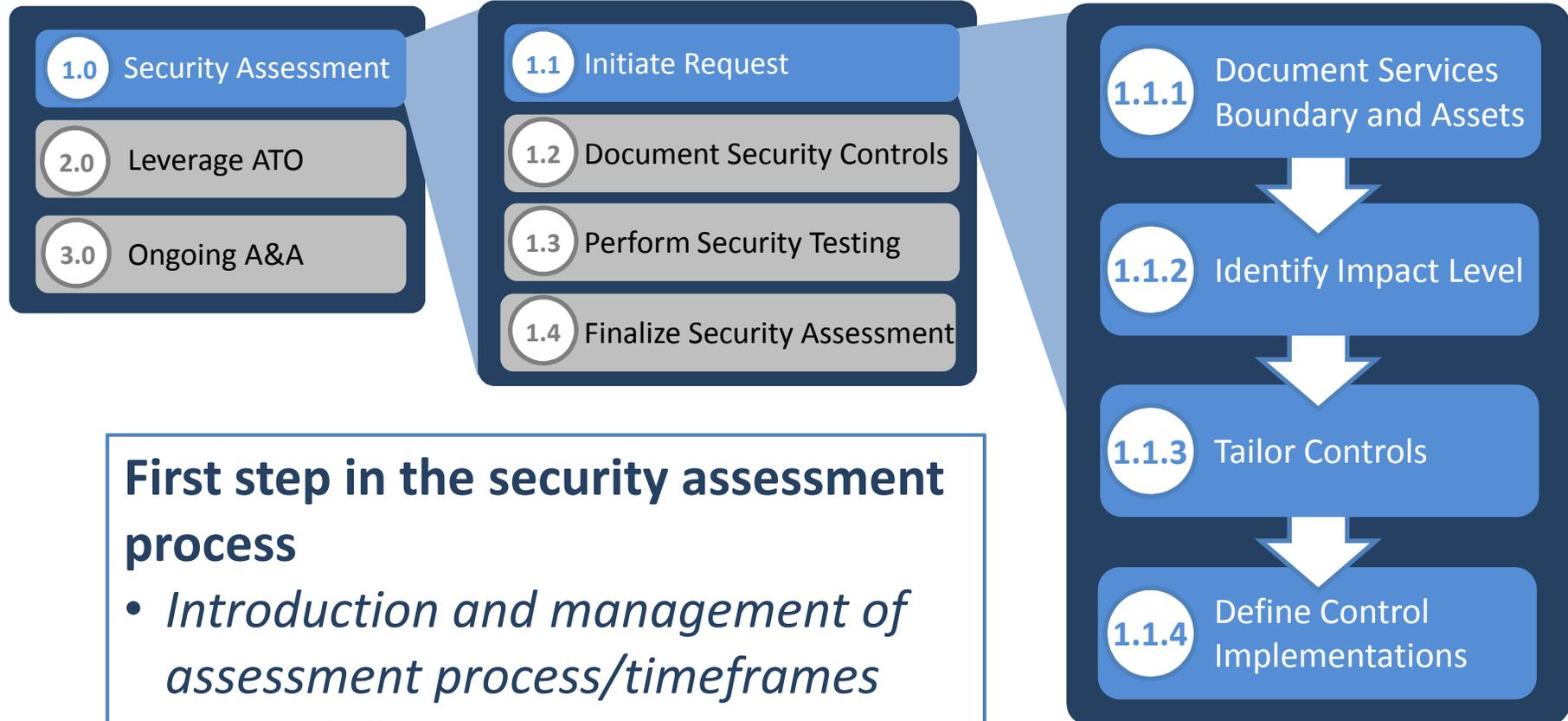


*Security Assessment Process aligns with NIST 800-37*



# 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*



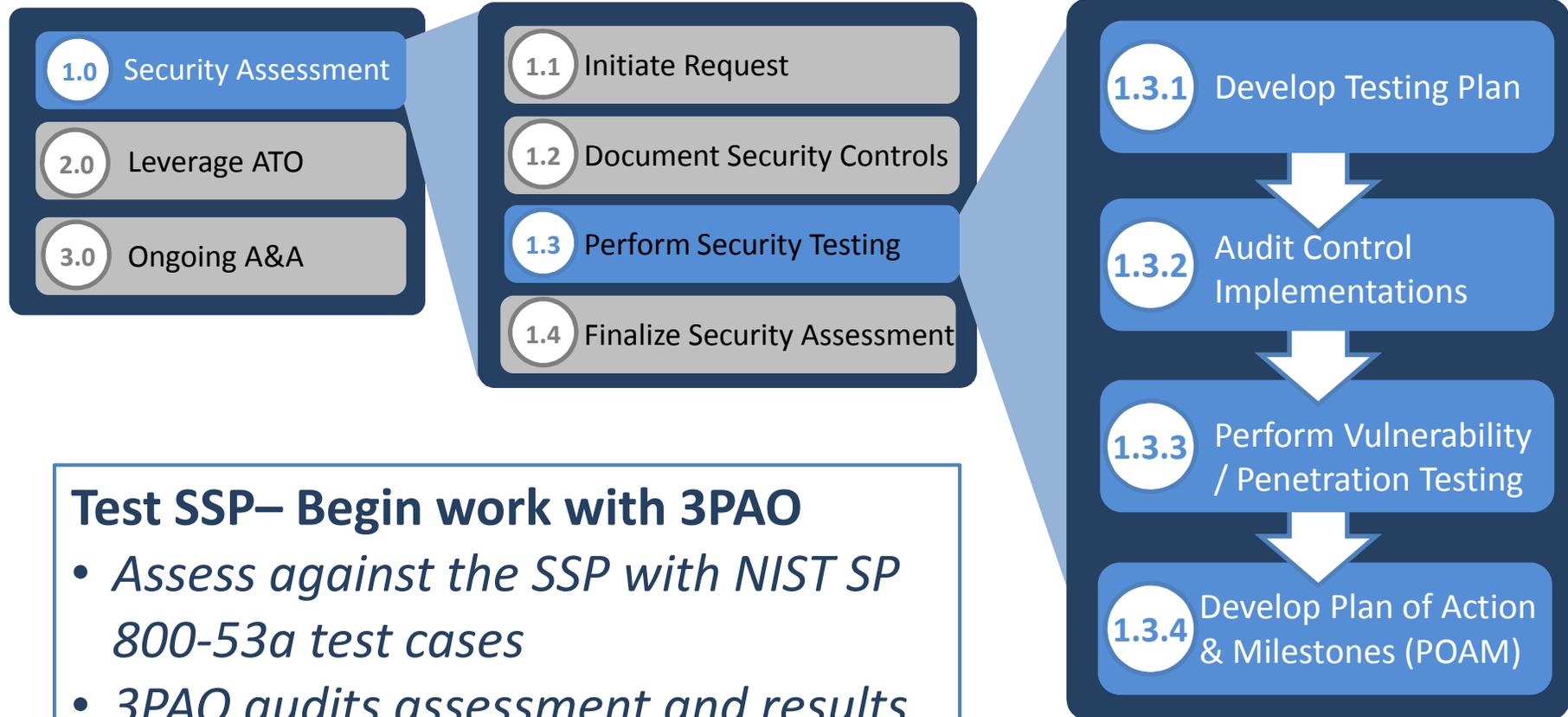
### **Document the System Security Plan (SSP)**

- *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*



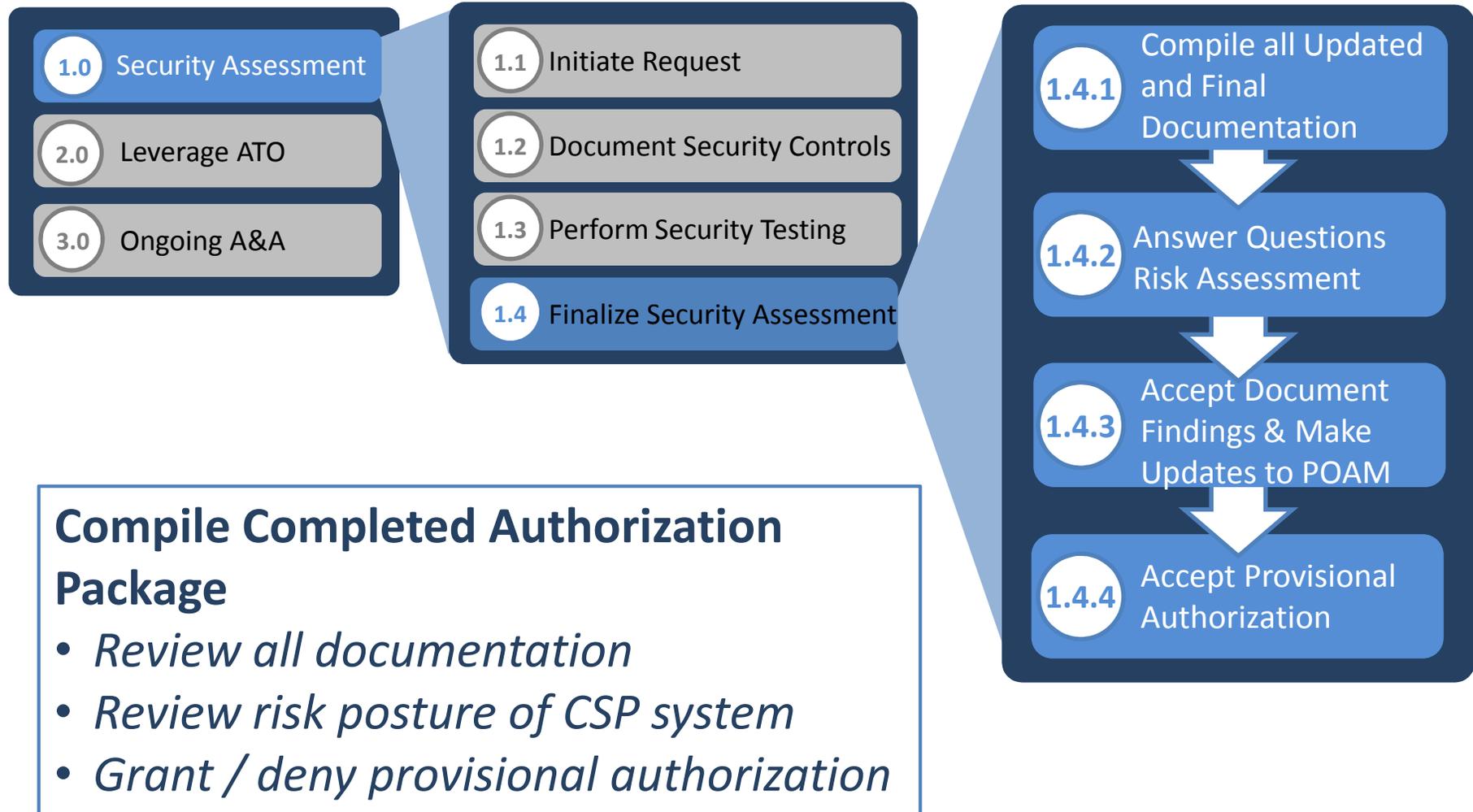
### **Test SSP– Begin work with 3PAO**

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



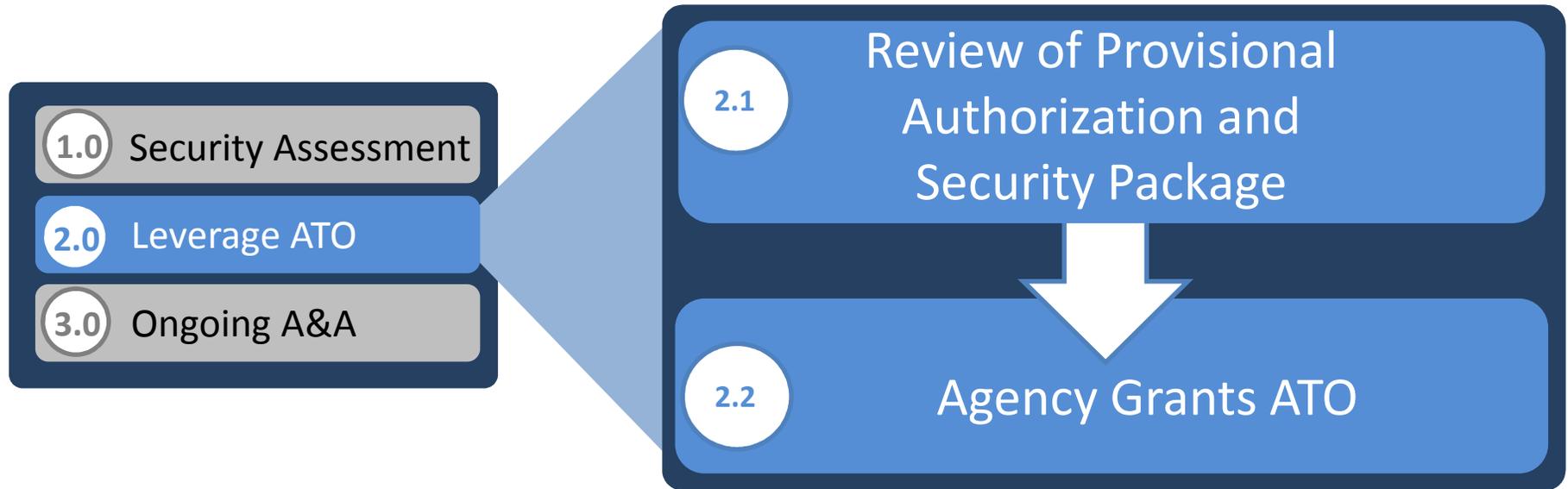
# FedRAMP CONOPS: Security Assessment Process

## *Finalize Security Assessment*





# FedRAMP CONOPS: Leverage ATO Process



*Federal Agencies Leverage ATO's from the FedRAMP Repository*



## Leverage ATO: 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

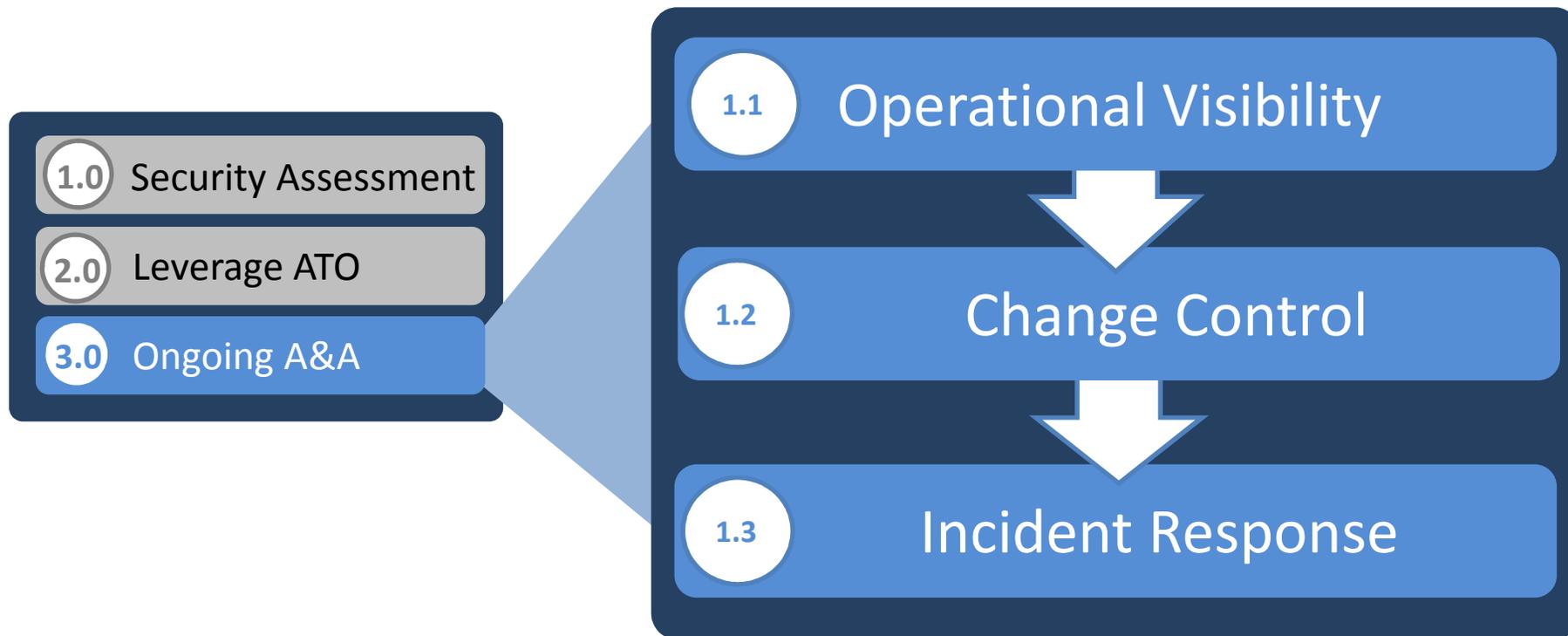
Category	FedRAMP 3PAO	ATO Status
JAB Provisional ATO	✓	JAB (+Agency)
Agency ATO with FedRAMP 3PAO	✓	Agency
Agency ATO**	✗	Agency
CSP Supplied	✓	n/a

Level of Gov't Review

\*\* 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 CONOPS: Ongoing Assessment & Authorization (Continuous Monitoring)

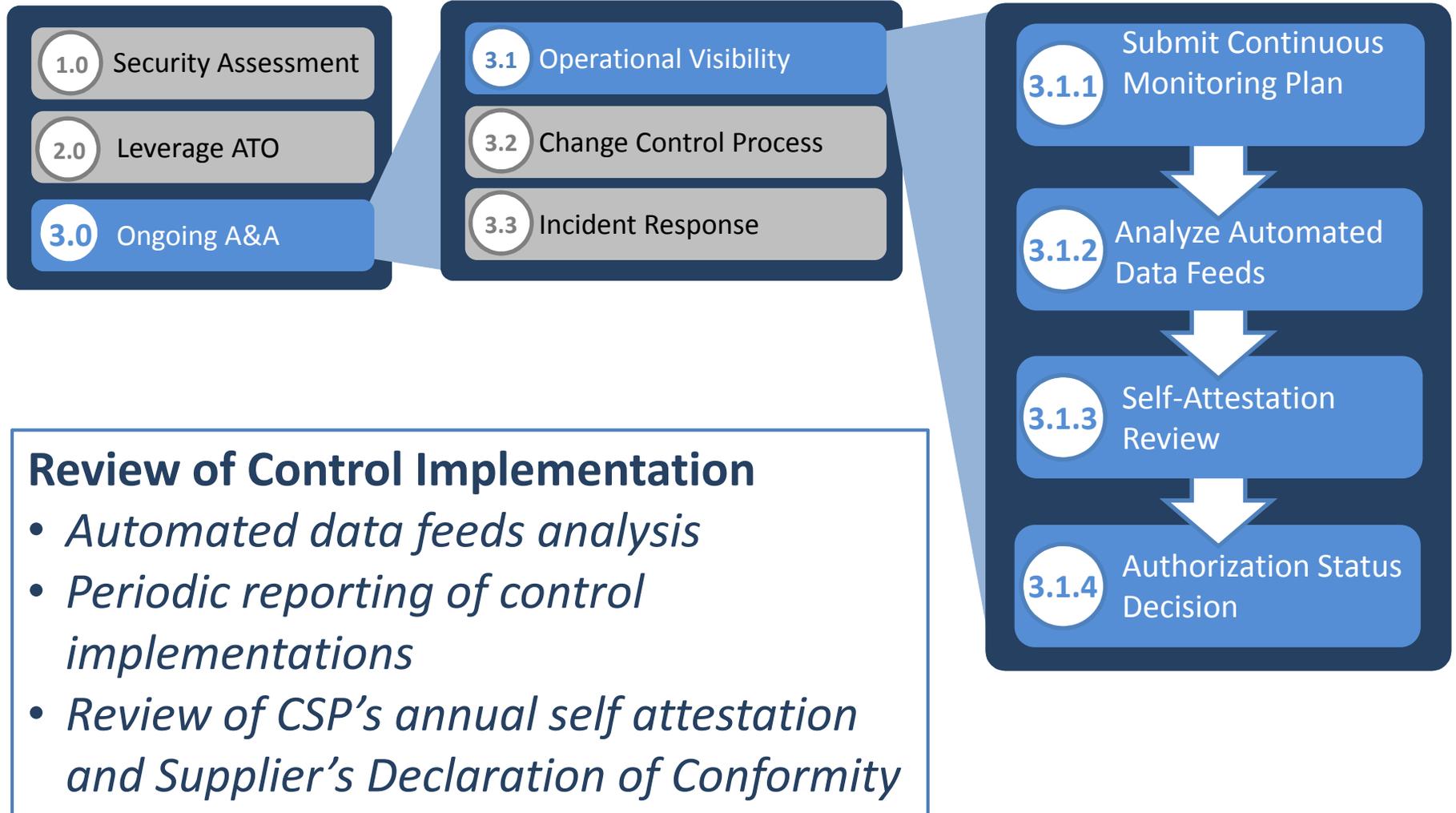


***Security Assessment Process aligns with NIST 800-137***  
*Shift from compliance based decision to risk management framework*



# FedRAMP CONOPS: Ongoing A&A Process

## *Operational Visibility*





# FedRAMP CONOPS: Ongoing A&A Process

## Change Control Process



### Review of Changes to CSP System

- *Monitoring of POAMs*
- *Review of changes to CSP system in accordance with CSP configuration management plan*



# FedRAMP CONOPS: Ongoing A&A Process

## *Incident Response*

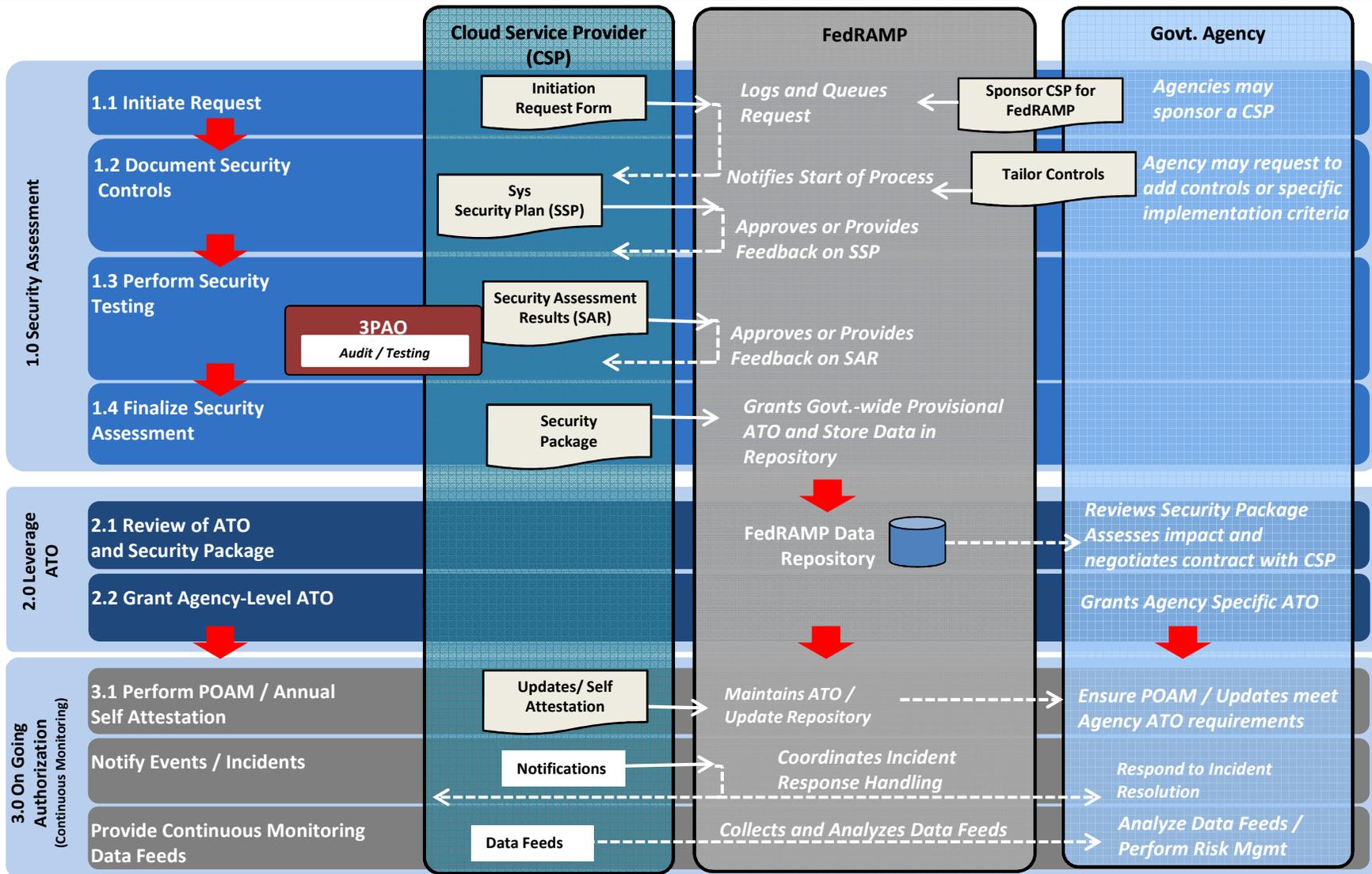


### **Monitoring of Incidents and New Vulnerabilities**

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



# 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 [twitter](#) @ FederalCloud