Federal Risk and Authorization Management Program (FedRAMP)

ISPAB Update
October 22, 2014

GSA

FedRAMP℠

FedRAMP Current State

FedRAMP to Date

- Operational for over 2 years
- Mandatory compliance date has passed (June 2014)
- ~40% of *agency* reported use of cloud through PortfolioStat is FedRAMP compliant cloud
  - PMO estimates actual number around 25%

Agency use of FedRAMP

- 22 of 24 CFO Act Agencies actively reviewing FedRAMP security authorization packages
  - Over 500 active reviewers of FedRAMP security authorization packages
  - 50+ requests from other Federal entities (small and micro agencies, congress, courts)
- 30 ATO letters provided by Agencies

Estimated Cost Savings

- 160 identified instances of agency cloud FISMA implementations using authorized CSPs
- $250K average per authorization x 160 cloud implementations = $40M savings
  - Based on 2012 FISMA metrics and agency provided estimates

Cloud System Providers Progress

Authorizations

- JAB P-ATOs - 12 cloud services
  - Includes services from IBM, Microsoft, Akamai, HP, Lockheed Martin
- Agency ATOs - 6 cloud services
  - Includes Amazon, AINs, USDA, Micropact, Salesforce

In Process CSPs

- JAB P-ATO - 18 cloud services
  - Includes services from Dell, SecureKey, Oracle, Amazon, Microsoft, IT-CNP, IBM.
- Agency ATOs – 17 cloud services
  - Includes Microsoft, Google, Adobe, IBM, Oracle, Verizon

FedRAMP Authorizations cover 500+ contracts and 160 known FISMA implementations

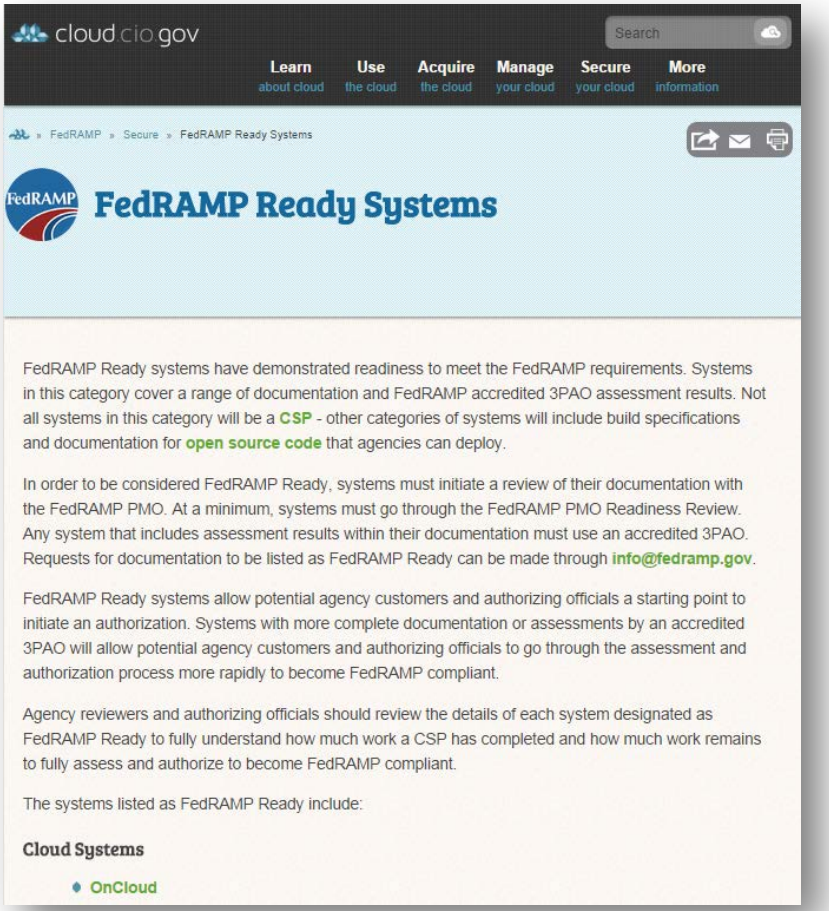
FedRAMP Ready Systems

FedRAMP Ready Systems

- Released on October 16, 2014
- Goal is to assist agencies and CSPs achieve a FedRAMP authorization faster.

Qualifications

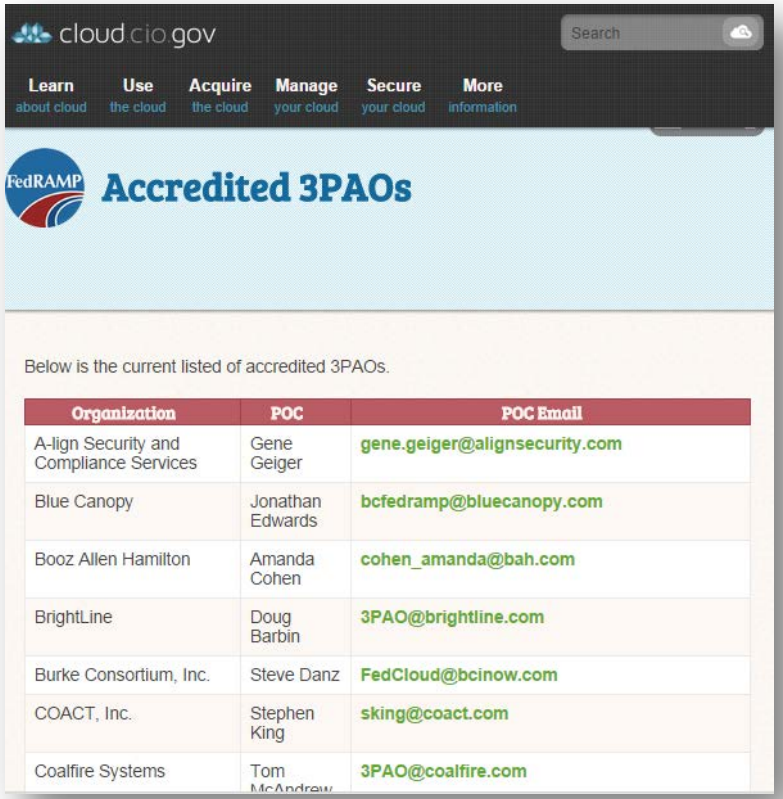
- Documentation reviewed by FedRAMP PMO
- Minimum of FedRAMP PMO readiness review process
- CSPs will have varying degrees of readiness
  - Initial documentation
  - Testing completed by 3PAO
  - All required documentation
- Will also include open source code builds



3PAO Accreditation Program Privatization

Cloud Auditor Accreditation (3PAO Program)

- First program (Federal or private) to accredit cloud auditors
- 31 organizations accredited to date
  - Including KPMG, Ernst & Young, Veris, Booz Allen Hamilton
  - ~60% are small businesses
  - One government agency (USDA ESC)
- Privatized in Nov 2013 with A2LA



FedRAMP PMO 3PAO Program Oversight

- Define and update 3PAO requirements – ISO 17020 and FISMA
- Use a conformity assessment approach
- Can revoke accreditation at any time
- Requires 3PAO to agree to adhere to requirements for rigor and independence
- Access to evidence and reports created by A2LA

Major Update: NIST 800-53 Rev 4

Security Controls Baseline Update June 2014

- Public comment period and PMO and JAB reviews
- Includes Privacy Appendix J

Rev. 4 Documentation Update Effort

- Updates affected 13 core FedRAMP templates and documents
- Approximately 2000 hours to complete analysis and updates
- Approximately 1250 pages of edits

Major Overhauls and New Documentation

- CONOPS updated to FedRAMP Security Assessment Framework
- Guide to Understanding FedRAMP including new lessons learned
- Creation of 80 test cases due to NIST not updating 800-53a

Major Update: FedRAMP Baseline

FedRAMP Baseline 800-53 Security Control Update

- Revision 3: 298 controls
- Revision 4: 325 controls

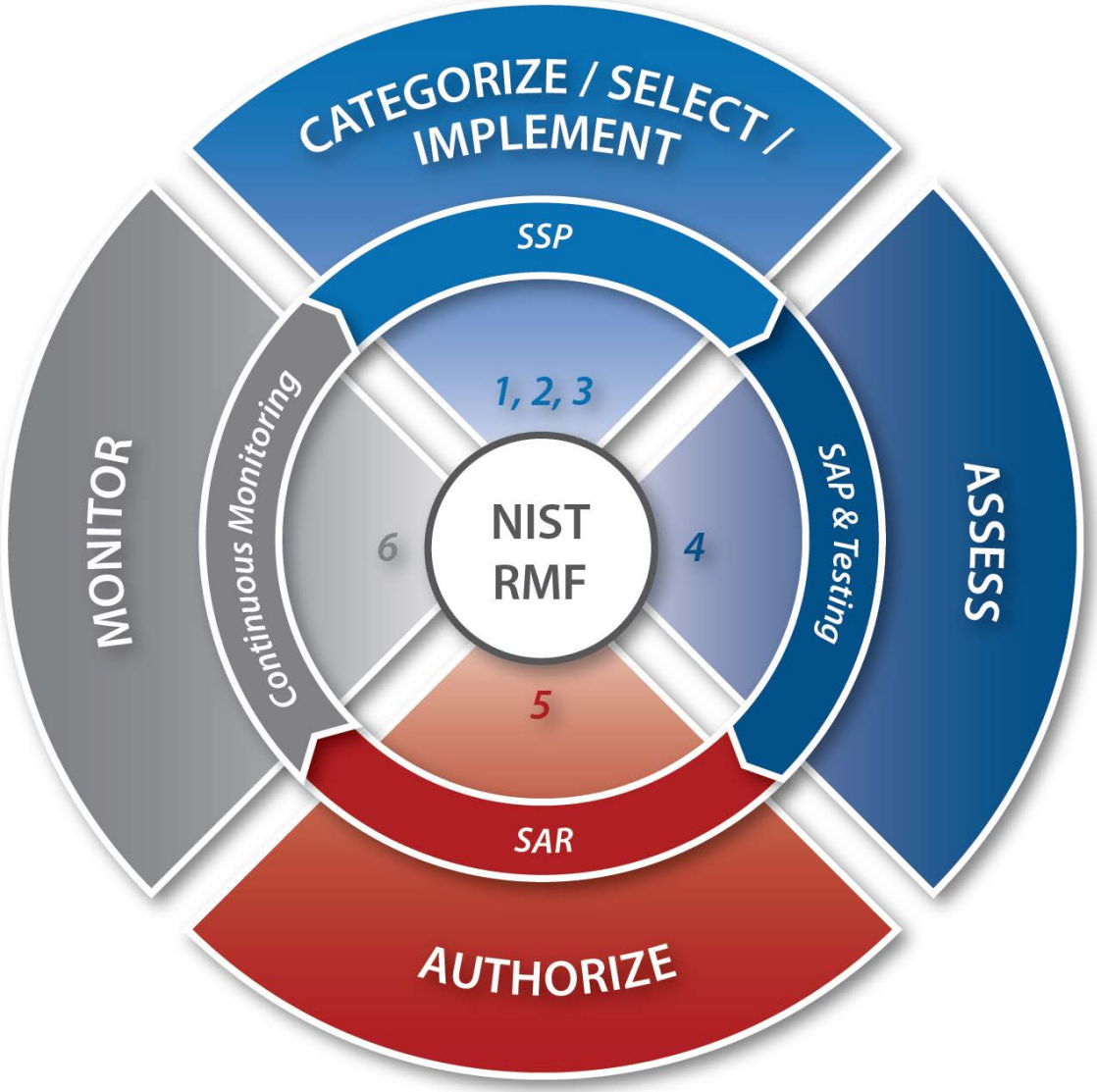
Category of Changes	#
Withdrawn by NIST	45
Removed by Analysis	8
Unchanged or Minimal Changes	245
Added by NIST	39
Added by Analysis	41

JAB Members Approve Baseline

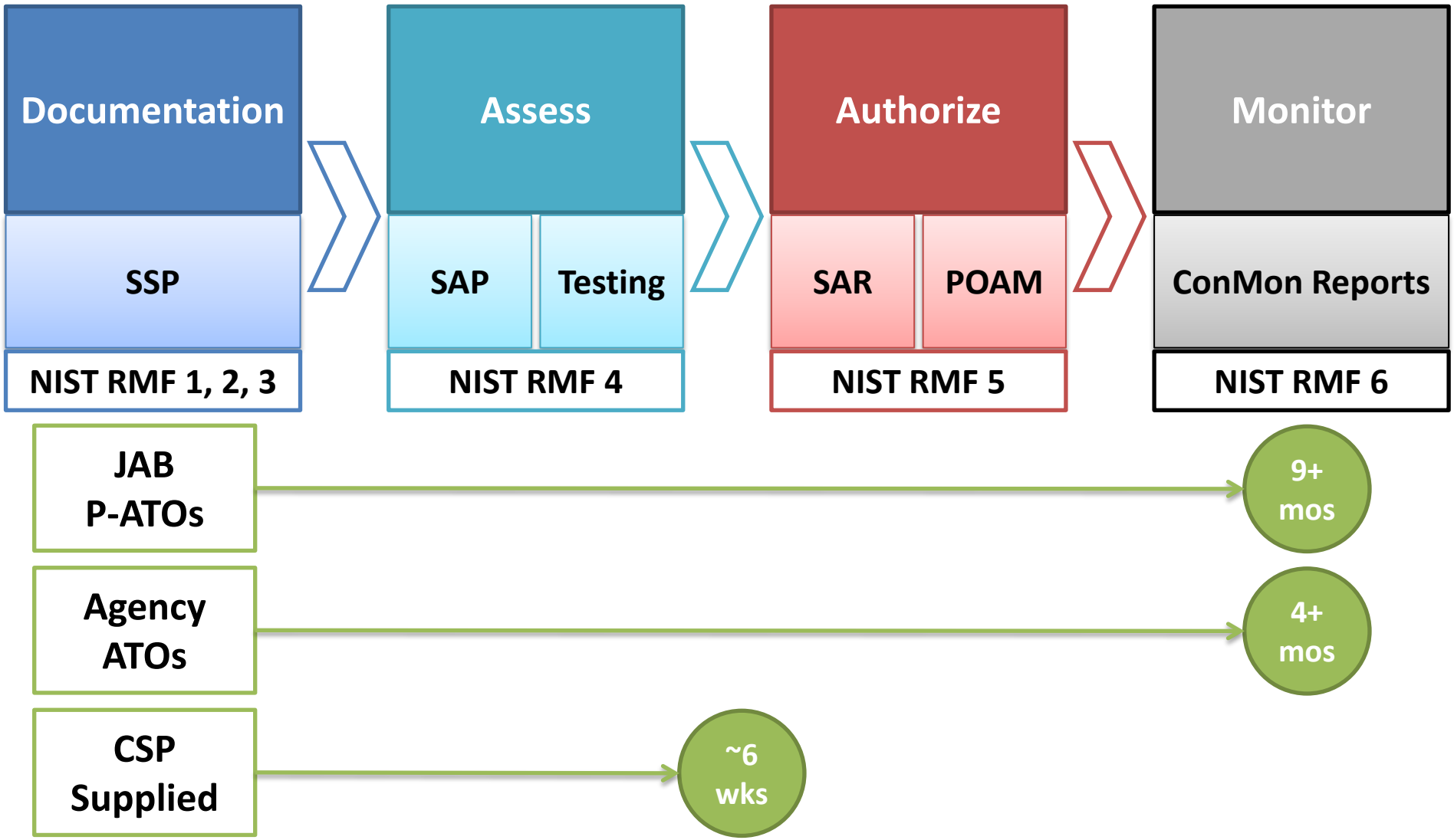
- Required by FedRAMP Policy Memo
- PMO has received recommended approval from JAB TRs

FedRAMP Security Assessment Framework

Replaces Concept of Operations (CONOPS)



Timeline for Security Assessment Framework



FedRAMP 2 Year Roadmap

Goals

1. Increase adoption and compliance
   - Greater agency involvement in ATOs
   - Provide enhanced training, education, and outreach
2. Improve efficiencies
   - Automation capabilities
   - Faster authorizations and more efficient ConMon reviews
   - Align CSPs with most appropriate authorizer: JAB or Agency
3. Continue to adapt
   - Refinement of ConMon with continuous authorization
   - Better integration with CDM and TIC
   - Establish high baseline

Transparency

- Roadmap will be public document (November release)
- Remain accountable to all stakeholders for the continued evolution and success of the program

Impact of FedRAMP

Enables Cloud Security

- Successfully proven the USG can securely use all types of cloud computing
- Created a standards based approach to security through risk management
- Implements continuous diagnostics and mitigation (CDM) for cloud
- FedRAMP is establishing a new marketplace for cloud vendors
  - Consistent positive press in Forbes, Wall Street Journal, Politico, InfoWeek, and others.

Accelerates USG adoption of Cloud Computing

- Enables agencies achieve cost savings and efficiency through cloud computing
- Accelerates time to market for cloud services when authorizations re-used
  - DOI leveraged 6 authorizations with 1 week review time and conservatively estimates a cost savings of 50% per authorization

Ahead of the Curve

- Commercial industry is looking to FedRAMP as a model for building standards based security for cloud services
- Other countries are also looking to FedRAMP for their security frameworks