

Federal Risk and Authorization Management Program (FedRAMP)

NIST

June 5, 2013

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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.

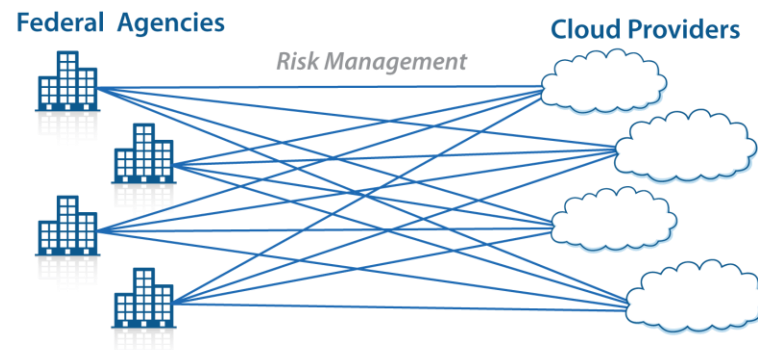




Why FedRAMP?

Problem:

- A duplicative, inconsistent, time consuming, costly, and inefficient cloud security risk management approach with little incentive to leverage existing Authorizations to Operate (ATOs) among agencies.



Solution: FedRAMP

- Uniform risk management approach
- Standard set of approved, minimum security controls (FISMA Low and Moderate Impact)
- Consistent assessment process
- Provisional ATO



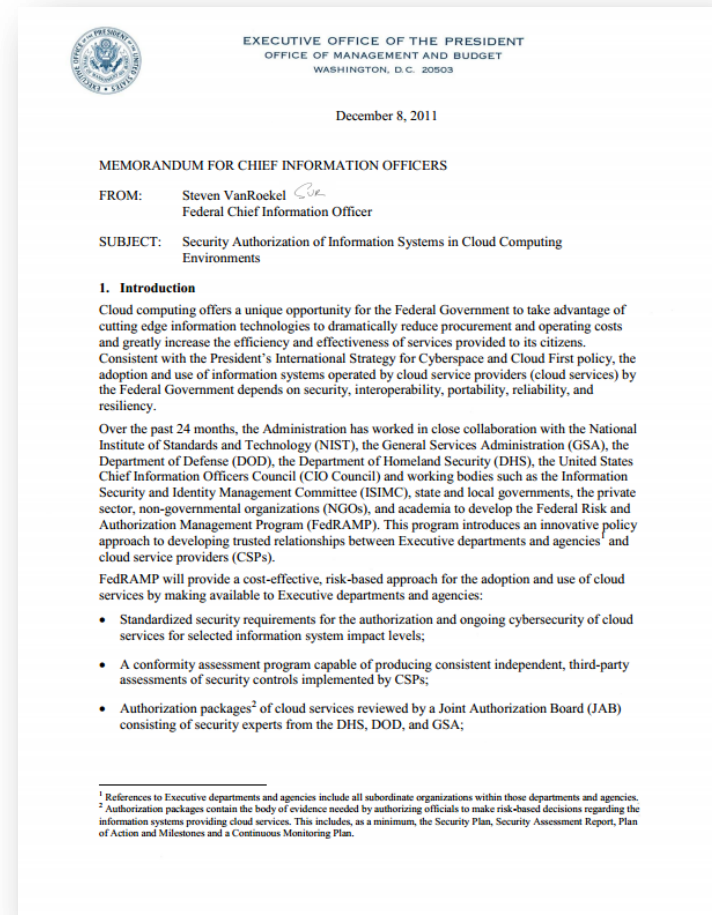


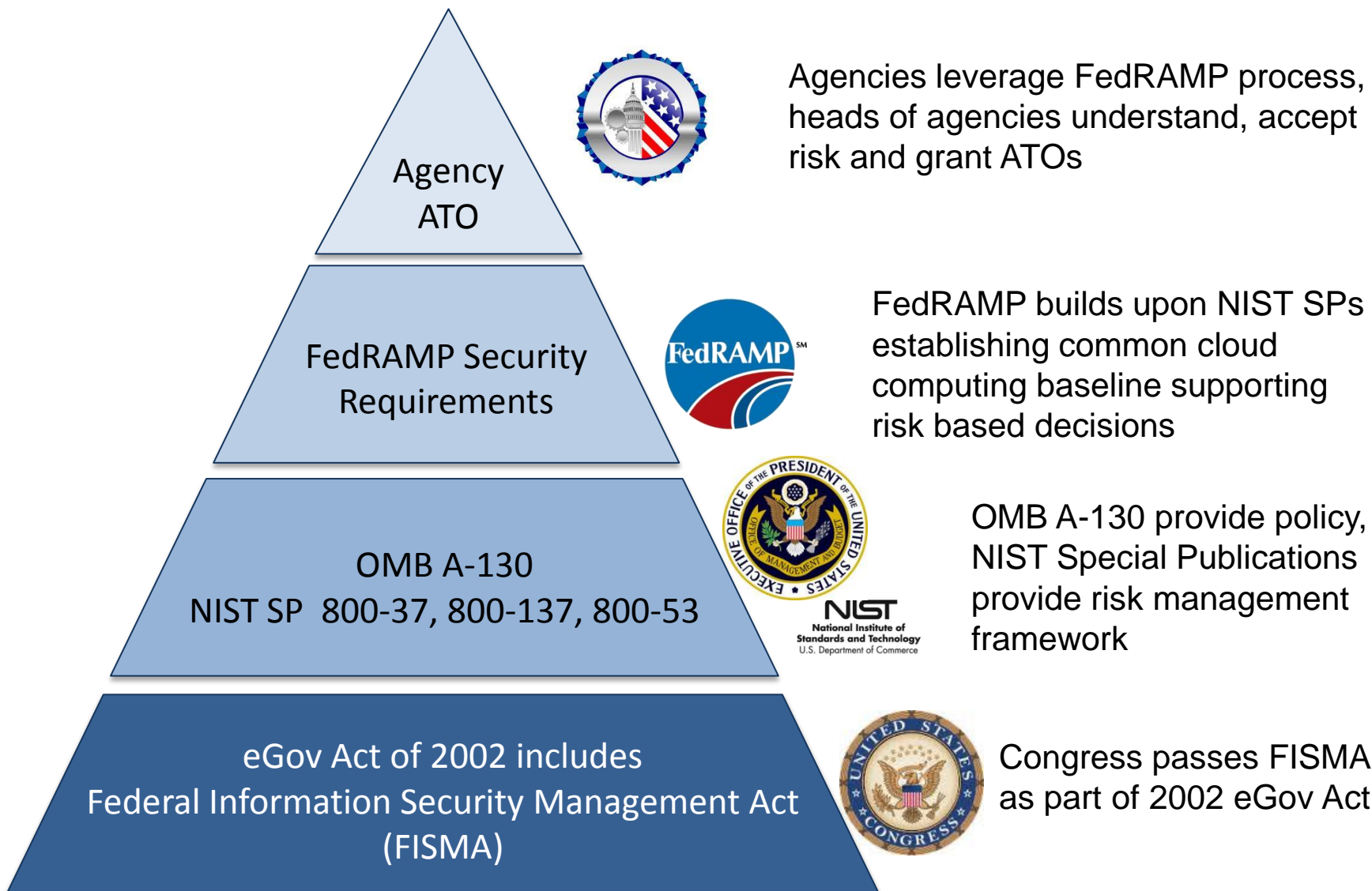
FedRAMP Policy Memo

OMB Policy Memo

December 8, 2011

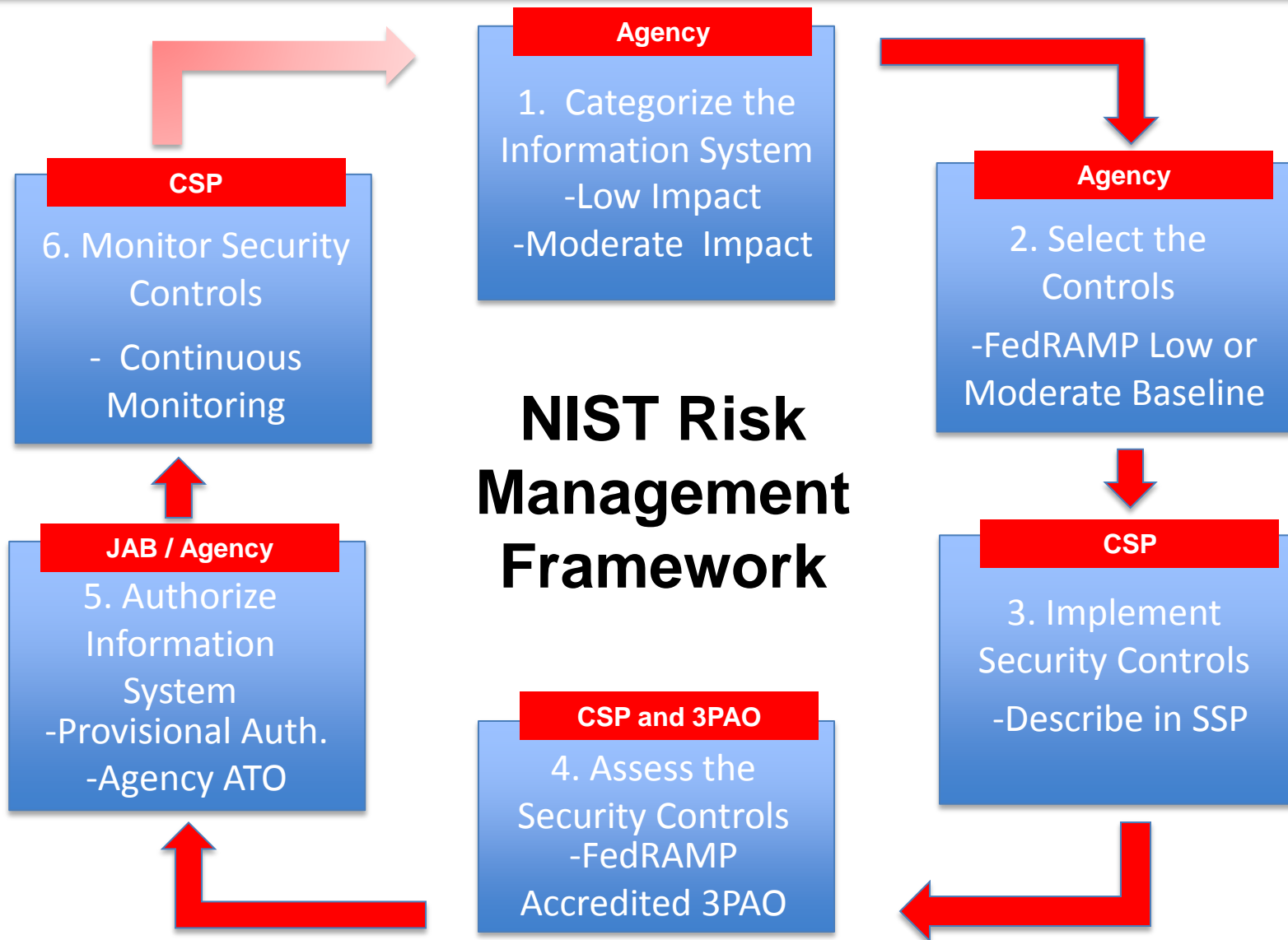
- Mandates FedRAMP compliance for all cloud services used by the Federal government
 - All new services acquired after June 2012
 - All existing services by June 2014
- Establishes Joint Authorization Board
 - CIOs from DOD, DHS, GSA
 - Creates the FedRAMP requirements
- Establishes PMO
 - Maintained at GSA
 - Establishes FedRAMP processes for agency compliance
 - Maintains 3PAO program







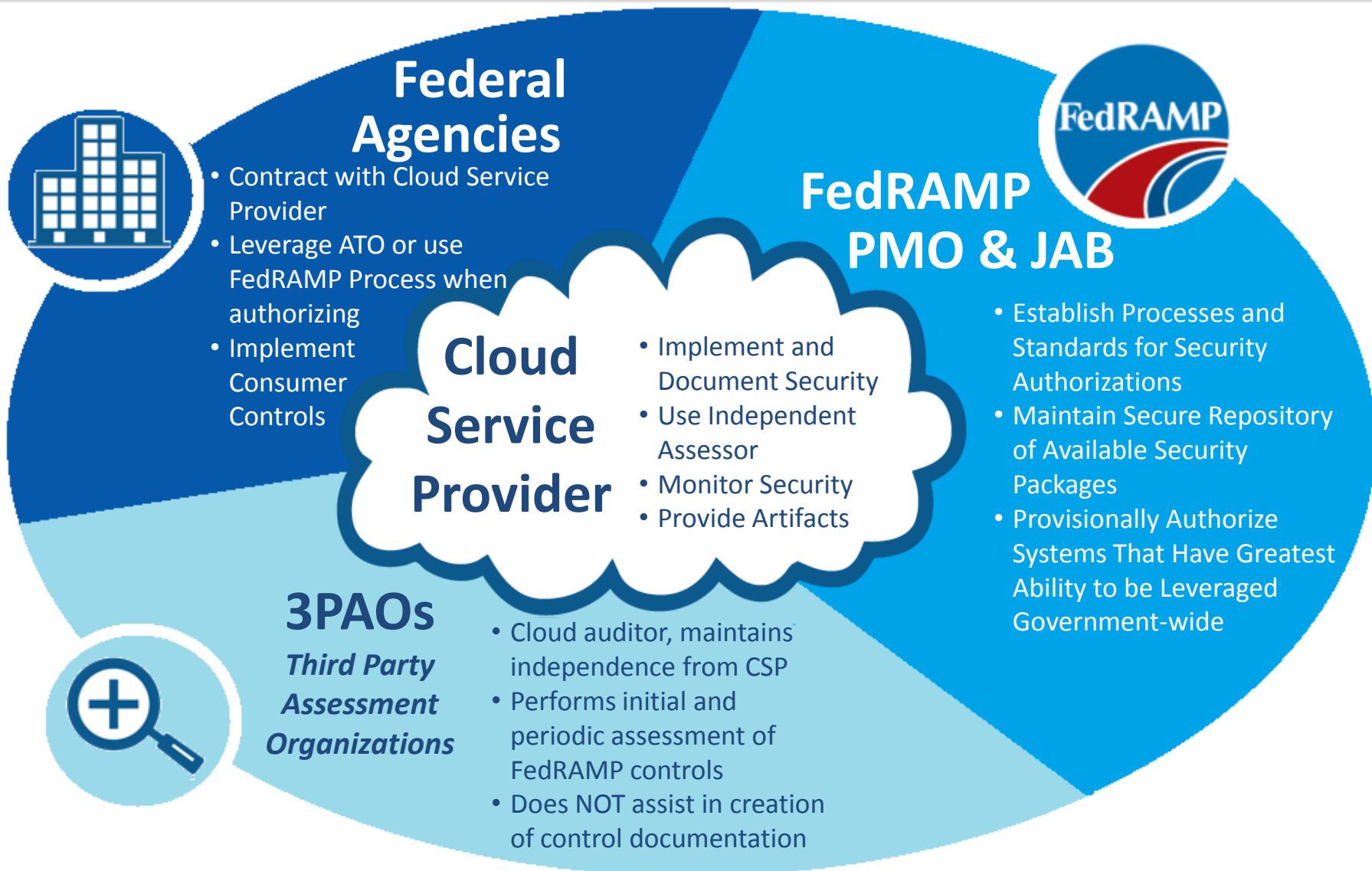
FedRAMP and NIST RMF 800-37





FedRAMP Standardizes RMF for Cloud

NIST SP 800-37 Step	FedRAMP Standard
1. Categorize System	Low and Moderate Impact Levels
2. Select Controls	Control Baselines for Low and Moderate Impact Levels
3. Implement Security Controls	Document control implementations using the FedRAMP templates Implementation Guidance in "Guide to Understanding FedRAMP"
4. Assess the Security Controls	FedRAMP accredits 3PAOs 3PAOs use standard process, templates
5. Authorize the System	Joint Authorization Board or Agency AO authorize the system that can be leveraged due to increased trust
6. Continuous Monitoring	CSPs conduct monitoring in accordance with Continuous Monitoring Strategy and Guide





Mythbusting FedRAMP

Lots of Confusion Still about FedRAMP, need to address top areas of concern:

- Who defines cloud?
- Control responsibility between vendors and stacking of authorizations
- Perception of delays in authorizations
- Ability of vendor to meet Federal requirements
- Difference between Agency ATO's and JAB Provisional ATOs
- 3PAO Privatization efforts – impact on the program



What is the Definition of Cloud?

Cloud First Policy

- Agencies must default to cloud based products and services when spending any new money on IT
 - New services, recompetes, additional services
- Agencies must justify to OMB when a cloud provider is NOT selected

When a cloud service provider is selected, FedRAMP governs the security authorization process.

Cloud Definition

- FedRAMP is not arbiter of what is and what is not cloud.
- We will authorize anything that is “cloud” esque
- If any agency submits a FedRAMP package for a system they deem cloud, FedRAMP will review that system as cloud – we will not interfere with or negate an agency determination of cloud.



Vendor Abilities to Meet Federal Requirements

Many cloud vendors are new to FISMA and it takes time to meeting Federal Requirements

- Clearly Defined Boundaries
- FIPS 140-2 Encryption
- Authenticated Scans
- Remediation of Vulnerabilities
- Multi-Factor Authentication





Delays in Authorizations

FedRAMP is a rigorous process, with increased scrutiny on meeting security requirements

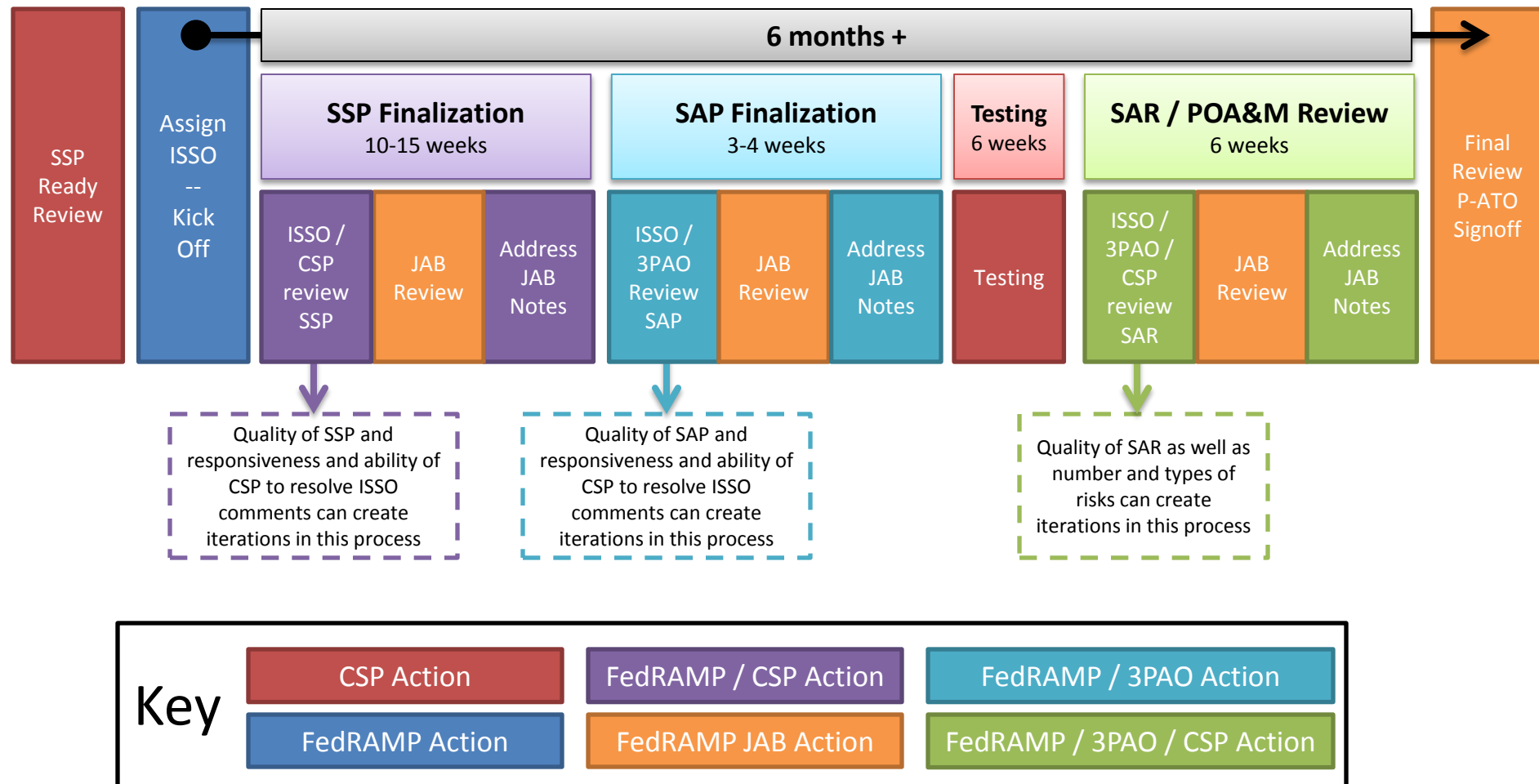
- Currently 2 JAB provisional ATO's: CGI Federal, Autonomic Resources
- Currently 2 Agency ATOs: Amazon's US East/West, and Amazon's GovCloud
- FISMA process takes time
- Difference between efficient and expedient
- Transparency
- New process for many vendors
- Updated CONOPs and standardization of timelines
- AGENCY ATO'S AND JAB PROVISIONAL ATO'S





FedRAMP Provisional Authorization

Timeframe Overview





JAB Provisional ATO vs Agency ATO

Timeframe

- JAB 25+ weeks minimum
- Agency 14+ weeks minimum

Level / Depth of Review

- JAB: Four sets of eyes (PMO, DoD, DHS, GSA)
- Agency: One set of eyes (agency)

Risk Acceptance Level

- JAB: Low risk tolerance level, security for security
- Agency: Varying levels of risk acceptance, business needs can justify more risk as can individual agency policies

Continuous Monitoring

- JAB: JAB will maintain, agencies need to review
- Agency: Agency must work with CSP to complete



Why should Agencies do Agency ATOs?

Mandatory to meet FedRAMP Requirements

- OMB Policy Memo - Reporting to OMB through PortfolioStat
- Not new process – current NIST / FISMA authorization process standardized

Timeframe

- If business needs exist to use a service now, agency doesn't have to wait on JAB
- Can complete an authorization faster than the JAB

Not ALL cloud providers will receive a JAB ATO

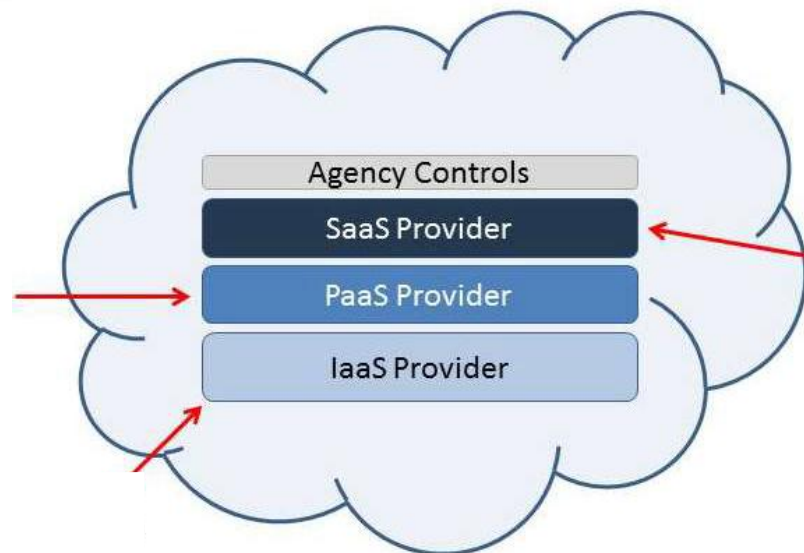
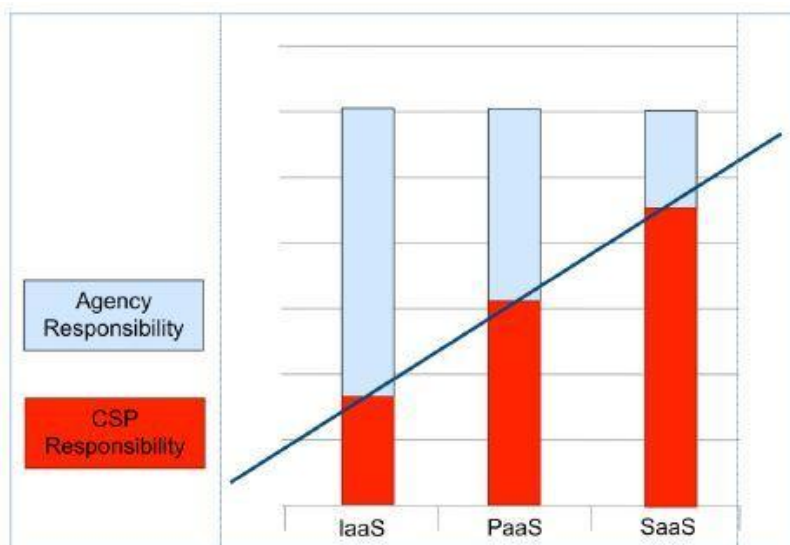
- JAB will only authorize those systems they see as being leveraged the most government-wide
- JAB will not authorize systems that do not meet certain capabilities and Federal requirements

Acceptance risk level is flexible

- HHS can vary acceptable risk levels based on many factors JAB doesn't consider (e.g. flexible baseline, types of data, business need, cost, ROI, etc.)

More Influence over CSP

- Contract with CSP allows agency to enforce capabilities
- FedRAMP does not have contracts with CSPs



Provider/Consumer responsibilities and how they interact

- There is no distinct line of where I/P/S offerings begin and end. The differences between vendors is part of what defines offerings as well as gives vendors advantages over competitors.
- However, I/P/S offerings create unique boundaries that “sit on top” of each other, and the consumer/agency responsibility is above all of these.
- Authorizations can be stacked on top of each other to create a singular authorization for a type of service.



3PAO Privatization

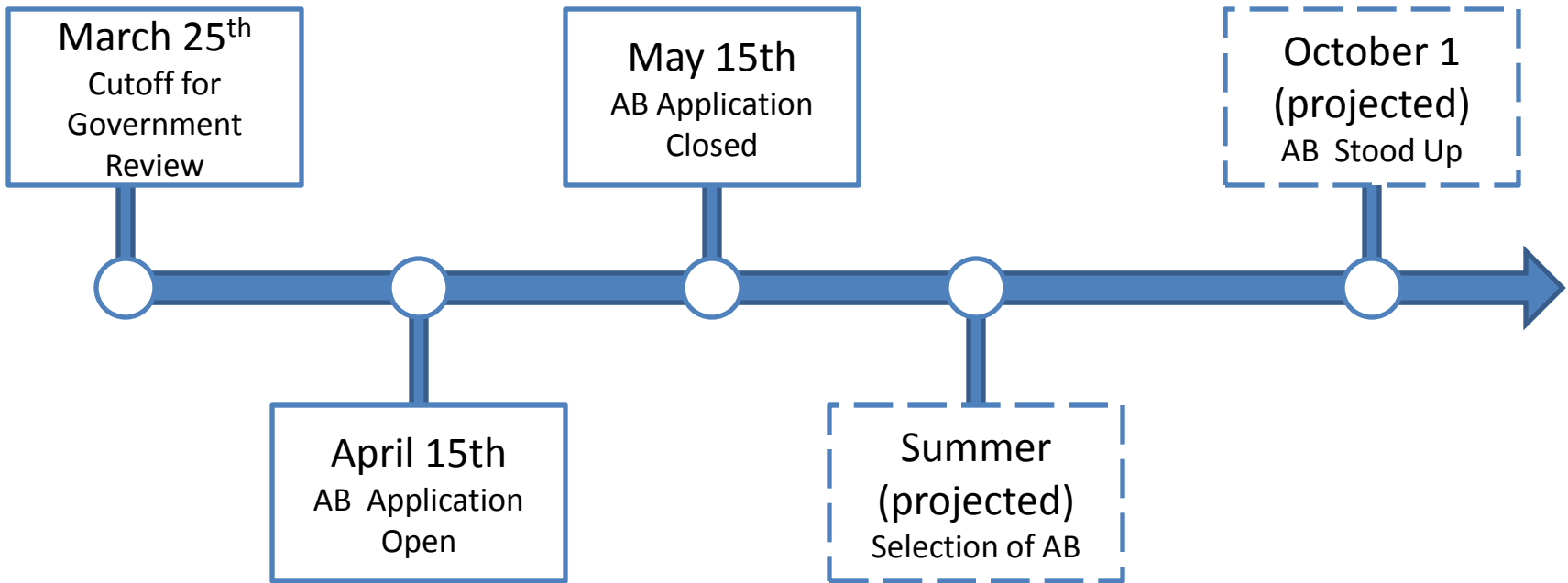
3PAO Privatization is designed to keep rigor of 3PAO program and free government resources

- Same process that was done for Health IT, NAVLAP, UL, etc.
- FedRAMP will maintain ownership of accreditation list and is final source of accreditation decision
- Privatization is for accreditation reviews of applicants ONLY
- Privatization will also allow for increased surveillance post accreditation





Privatization Timeframe



Tentative Timeline for 3PAO Privatization

- Currently reviewing AB applications
- We are evaluating all possibilities and approaches for transition of currently accredited 3PAOs to privatized accreditation review
- CSPs and Federal agencies will not be impacted due to privatization efforts – SARs will be accepted from anyone who is on the accredited list



For more information, please contact us or visit us the following website:

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Email: info@fedramp.gov

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