



FedRAMP

FedRAMP OSCAL Early Adopters

September 27, 2023



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fedramp.gov

Purpose: Ongoing weekly meeting to engage Cloud Service Providers, 3PAOs, tool vendors and other participants in FedRAMP's OSCAL Early Adopters Work Group (OEAW) activities.

Outcomes:

- Shared understanding of Charter and Mission of the Workgroup
- Shared understanding of program participation requirements and initial registration process.
- Shared understanding of repository package requirements and discussion or possible solutions.



Agenda:

- Welcome
- Guiding Principles/Mission Review
- Participation Requirements
- OEAW Updates
- ATO Package Requirements
- Open Forum
- Next Steps & Closing



Keep the discussion respectful



Be curious, seek understanding



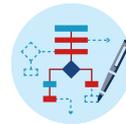
Speak from your own experience



Challenge through questions



Focus on ideas



Keep it technical

Charter:

To create an engagement space for Cloud Service Providers, 3PAOs, tool developers and others who are adopting OSCAL for the FedRAMP® use case with the goal of refinement of FedRAMP automation technology and processes.

Mission Elements:

- Bring OSCAL early adopters together to foster community engagement for FedRAMP OSCAL use case.
- Provide bi-directional dialogue with participants on engineering process current and future state.
- Refinement of initial technology and processes for the FedRAMP OSCAL automation ecosystem.
- Testing of initial releases of FedRAMP Automation Portal and RESTful API services.

September 27th, 2023

- **Release 2.3** in testing environment will close multiple github tickets. Will be installed on integration environment this upcoming weekend.
- A word about versions of tools and schemas in REST APIs:
 - ? NIST Core Validations using OSCAL-CLI 3.4
 - ? Rev 4/Rev 5 through portal is at OSCAL 1.1.1 will be part of this 2.3 release
 - ? Schema pathing on NIST OSCAL site will change with 2.3 (should be using).
 - <https://github.com/usnistgov/OSCAL/releases>
 - Automation Team will continue to work on transition from OSCAL 1.0.4 to 1.1.1 this coming week.
 - ? Release 2.3.0 will include consolidated calls for validations (one for NIST and one for FedRAMP schematron (See Demo). Will also include fixes for OSCAL NIST vs. FedRAMP use case issues with Schematron validations (See github tickets for more detail). Also will include swagger documentation inclusion into REST API calls for OEAW review.

REST API Demo

September 27th, 2023

The working group will have the following options when identifying and submitting issues related to the Portal and RESTful API services:

- Submission of general questions will be done via sending an email to oscal@fedramp.gov.
- Submission of suggestions for process and software improvement can be done via submission form built into the portal or by sending an email to oscal@fedramp.gov.
- Submission of bug reports will be done through the issue to the FedRAMP OSCAL Early Adopters repository (<https://github.com/vitg-gsa-automation/earlyadopters>) or sending an email with screen snapshots to devops@volpegroup.com
 - ? Once the developers review the bug report they will initiate next steps with submitter.
 - ? All bug reports will be tagged as FedRAMP automation Portal or REST API issues in the early adopters repository.

September 27th, 2023

Current open Issues on Early Adopters GitHub (Portal 2.2.1)

- (#7) Minified XML behaves differently than “pretty” printed XML (in process)
- (#12) Rule 55b. One or more responsible parties must be defined for each role (in process)
- (#16) import-profile directive with a URL does not resolve. (for discussion)
- (#17) [Feature Request]: A prop in the back matter for the uuid of the imported document (need to consider long term implications)

Initial Phases

- Phase 1 Validation Testing
- Phase 2 General Artifact Submission
- Phase 3 Document and Artifact Management
- Phase 4 Process Improvement and New Functionality

Repository Discussion

Basic Repository Requirements

- ❑ Upload/Download of individual OSCAL artifacts and associated documents.
- ❑ Support multiple file formats (see list).
- ❑ Support multiple document types (see list)
- ❑ Support for compressed files (file structure to be determined)
- ❑ Must be able to process and extract base64 encoded documents from OSCAL artifacts
- ❑ Must be able to upload individually and in compressed files associated supporting artifacts.
- ❑ Must allow quick retrieval of and processing of OSCAL data.
- ❑ Must support high speed querying of OSCAL data.
- ❑ Must support versioning of all uploaded artifacts.
- ❑ Must comply with NARA requirements.
- ❑ Must be a HIGH repository.

Basic ATO Package Requirements

- ❑ Support for multiple access to package artifacts.
- ❑ Must support role based access.
- ❑ Support for grouping of documents and artifacts stored in repository.
- ❑ Support for verifying compliance with required artifacts for FedRAMP authorization processes (i.e. package checklist).
- ❑ Optional submission of OSCAL SSP, SAP, SAR and POAM as single artifact?

```
<?xml version="1.0" encoding="UTF-8"?>
<submission-wrapper>
  <system-security-plan>
    ...
  </system-security-plan>
  <assessment-plan>
    ...
  </assessment-plan>
  <assessment-results>
    ...
  </assessment-results>
  <plan-of-action-and-milestones>
    ..
  </plan-of-action-and-milestones>
</submission-wrapper>
```

Current Challenges

- ❑ Verifying package artifact contents.
- ❑ Alignment of artifacts with package submission requirements.
- ❑ Compressed files
 - Which formats to support (gzip, zip, tar, other)
 - Package structure (to be determined)
 - Decompressing and aligning individual files with Document types.
 - File size limitations?

Compressed Package Submission Example (zip)

MajorSystemBoundarySubmission 8 items

Name	Last modified	File size
 publishedDocs	-	37 MB
 resources	-	493 KB
 .DS_Store	Jul 28, 2023	6 KB
 FedRAMP - Major System Boundary-FedRAMP_Assessment_Result.jso...	Jul 28, 2023	170 KB
 FedRAMP - Major-System-Boundary_SSP-export_20230724.xml	Jul 26, 2023	722 KB
 FedRAMP - Major_System_Boundary-FedRAMP_Plan_of_Action_and_...	Jul 26, 2023	258 KB
 FedRAMP - Major_System_Boundary-SAP.json	Jul 28, 2023	192 KB
 FedRAMP_rev4_HIGH-baseline_profile.xml	Jul 26, 2023	123 KB

Compressed Package Submission Example (cont.) (zip)

< publishedDocs 33 items

Name	Last modified	File size
 AC Procedures Document.doc	Jul 26, 2023	105 KB
 AT Procedures Document.doc	Jul 26, 2023	1 MB
 AU Procedures Document.doc	Jul 26, 2023	1 MB
 CA Procedures Document.doc	Jul 26, 2023	1 MB
 CM Procedures Document.doc	Jul 26, 2023	1 MB
 CP Procedures Document.doc	Jul 26, 2023	1 MB
 FedRAMP Annual SAP.pdf	Jul 26, 2023	185 KB
 FedRAMP Continuous Monitoring Plan.xlsx	Jul 26, 2023	20 KB
 FedRAMP Initial Authorization Package Checklist.xlsx	Jul 26, 2023	37 KB

Compressed Package Submission Example (cont.) (zip)

< resources 4 items

Name	Last modified	File size
 AC Procedures Document.doc	Jul 26, 2023	105 KB
 Annotation 2023-07-19 113729.png	Jul 26, 2023	138 KB
 FedRAMP-OSCAL-SSP-Diagram-1024x525.png	Jul 26, 2023	138 KB
 image-5.png	Jul 26, 2023	112 KB

Compressed Package Submissions for HIGH (from PMO)

Agency ATO MAX.gov & High Repository Folder Structure
(*CSP NAME* may be omitted for High repo structures outside of MAX.gov)

- "CSP NAME" Archive
- "CSP NAME" ATO Letters
- "CSP NAME" Continuous Monitoring
 - "CSP NAME" Annual Assessments
 - "CSP NAME" AA 20XX
 - "CSP NAME" AA 20XX – POA&M
 - "CSP NAME" AA 20XX - SAP
 - "CSP NAME" AA 20XX - SAR
 - "CSP NAME" AA 20XX - SSP
 - "CSP NAME" AA 20XX – SSP Attachments
 - "CSP NAME" Incident Information & Forms
 - "CSP NAME" POA&M & Inventory
 - "CSP NAME" Deviation Requests
 - "CSP NAME" Significant Changes
 - "CSP NAME" Vulnerability Scans
 - "CSP NAME" DB Scans
 - "CSP NAME" OS Scans
 - "CSP NAME" Web Scans
- "CSP NAME" Initial ATO Assessment
 - "CSP NAME" POA&M
 - "CSP NAME" SAP
 - "CSP NAME" SAR
 - "CSP NAME" SSP
 - "CSP NAME" SSP Attachments

Open Forum

Next Steps

Thank you

Our next OEAW virtual meeting will be on

Weds October 11th, 2023 at 12p ET.

Submit questions and future discussion topics to OSCAL@fedramp.gov

Learn more at fedramp.gov



[@FEDRAMP](https://twitter.com/FEDRAMP)

NIST:

<https://pages.nist.gov/OSCAL/>

Learning Resources: <https://pages.nist.gov/OSCAL/learn/>

Current release: <https://github.com/usnistgov/OSCAL/releases>

Development version: <https://github.com/usnistgov/OSCAL/tree/develop>

Content repo: <https://github.com/usnistgov/oscal-content>

FedRAMP:

Current repo: <https://github.com/GSA/fedramp-automation>

Current issues: <https://github.com/GSA/fedramp-automation/issues>

Validations work: <https://github.com/18F/fedramp-automation/tree/master/src/validations>

Web based validation tool:

<https://federalist-2372d2fd-fc94-42fe-bcc7-a8af4f664a51.app.cloud.gov/site/18f/fedramp-automation/#/documents/system-security-plan>