



FedRAMP OSCAL Early Adopters

August 30, 2023



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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 initial calls to REST API for authorization, file upload and validation.



Agenda:

- Welcome
- Guiding Principles/Mission Review
- Participation Requirements
- OEAW Updates
- Web API Demo
- 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.

August 30th, 2023

- **Release 2.2.1** in testing environment addresses several minor github tickets.
- A word about versions of tools and schemas in REST APIs:
 - NIST Core Validations using OSCAL-CLI 3.4
 - Rev 4 through portal is at OSCAL 1.0.4.
 - Schema pathing on NIST OSCAL site has changed (should be using).
 - https://github.com/usnistgov/OSCAL/releases/download/v1.0.4/oscal_complete_schema.xsd
 - https://github.com/usnistgov/OSCAL/releases/download/v1.0.4/oscal_ssp_schema.xsd
 - fedramp-automation repo current release tag: **fedramp -2.0.0 -oscal -1.0.2 (dated September 2022)**
 - Holding on updating release tag for Rev 5 changes to be completed.
 - Updates have been made to Schematron rulesets and updated to github repository.
 - Some issues have been identified on fedramp-automation repo related to Rev 5. (Analysis in progress)

August 23rd, 2023

Current open Issues on Early Adopters GitHub (Portal 2.2)

- (#5) Test file crashed FedRAMP validator with UTF -16 encoding (closed: we will require UTF -8 for time being).
- (#7) Minified XML behaves differently than "pretty" printed XML (In process)
- (#8) Confusing Schematron Error Message (pending fixed in 2.2.1)
- (#10) UI goes blank after clicking "View details" on Basic File Schema step with invalid XML file (pending: fixed in 2.2.1)
- (#11) Schematron validation reports an error for set -parameter check (pending: fixed in 2.2.1 – work around documented on ticket).
- (#12) One or more responsible parties must be defined for each role. (in process).
- (#13) A component must have an allowed type. (in process – types will be added to fedramp_values.xml file)
- (#15) Every Asset Identifier must be unique (in process).
- (#15) import -profile directive with a URL does not resolve. (in process: will be addressed in phase 2 on file uploads)

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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.

Initial Phases

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

Validation Testing

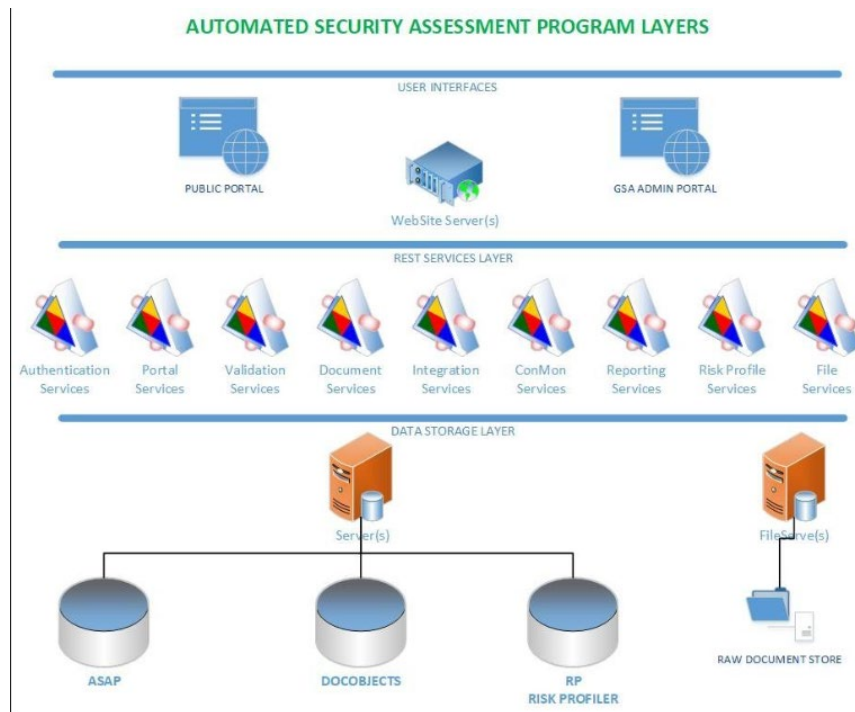
Phase 1

- ❑ Duration: 4-6 weeks (planned).
- ❑ Submission of OSCAL Rev 4 Artifacts (XML Only).
- ❑ Provided via Portal Access only.
- ❑ Refinement of current Schematron ruleset for validations based on feedback from participants.
- ❑ Expansion of Validation of OSCAL Artifacts for other formats (e.g. JSON, YAML).
- ❑ Finalize Rev 4 FedRAMP validation ruleset modifications and migrate to rev 5.
- ❑ Limit of 2GB per XML artifact.
- ❑ Initiate access to RESTful API services for validation testing (optional).

OVERVIEW

REST API Service Ports

- **Authentication Services: port 8080**
- Portal Services: port 8081
- **Validation Services: port 8082**
- Document Services: port 8083
- Integration Services: port 8084
- ConMon Services: port 8085
- Reporting Services: port 8086
- Risk Profile Services: port 8087
- **File Services: port 8088**

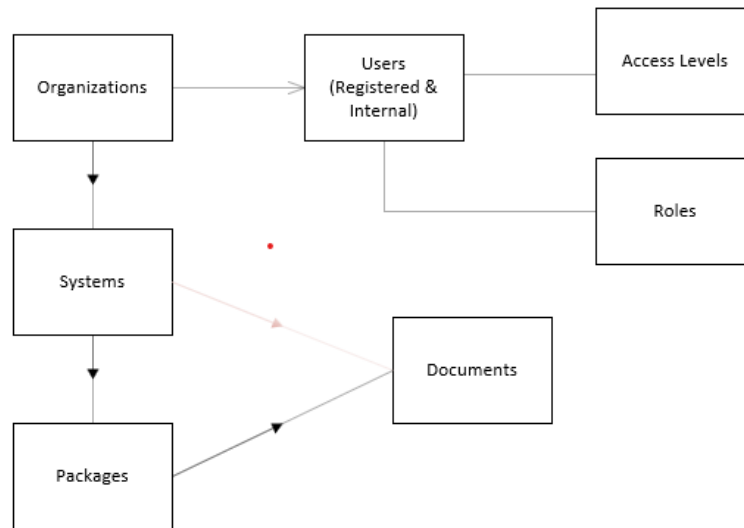


Dem o Overview

Authentication
Services

File Upload
Services

Validation Services



Resources

<https://github.com/vitg-gsa-automation/earlyadopters/blob/main/presentations/materials/FR-REST-API-Type-Lists.xlsx>

<https://github.com/vitg-gsa-automation/earlyadopters/blob/main/presentations/materials/WebAPI%20Documentation.pdf>

REST API Demo

Next Steps

Open Forum

Thank you

Our next OEAW virtual meeting will be on

Weds September 13th, 2023 at 12p ET.

Submit questions and future discussion topics to

OSCAL@fedramp.gov

Learn more at **fedramp.gov**



@FEDRAMP

Ensuring your outstanding issues or questions are received:

Issues can be submitted in several ways:



Preferred

Open an issue on fedramp-automation github so that it will benefit the NIST/FedRAMP community. <https://github.com/GSA/fedramp-automation/issues>

Alternate

Email us at oscal@fedramp.gov

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>

OEAW Phases

General Artifact Submission

Phase 2:

- ❑ Duration: 4-5 weeks (planned)
- ❑ Submission of non-OSCAL legacy package artifacts.
- ❑ Provided via Portal Access only.
- ❑ Refinement of Authorization Package submission process.
- ❑ Initial design of intra-artifact submission processes (e.g. leveraged authorizations)
- ❑ Access to RESTful API services for validation testing (optional)
- ❑ Review and update of RESTful API services documentation.

Document and Artifact Management

Phase 3:

- ❑ Duration: 2-4 weeks (planned)
- ❑ Organization, System and Package structure.
- ❑ Provided via portal access only.
- ❑ Versioning and ATO package relationships
 - ❑ Legacy
 - ❑ Leveraged Authorizations
 - ❑ UUID management
- ❑ Access to RESTful API services for validation testing (optional)

Process Improvement and New Functionality

Phase 4:

- ❑ Duration: TBD (ongoing)
- ❑ Adoption Challenges and Solutions for FedRAMP use case.
- ❑ Challenges with NIST OSCAL Core and potential future updates and model changes.
- ❑ Authorization vs. Automation.
- ❑ Re-visit FedRAMP validations.

FedRAMP OEAW Initial Registration Steps



July 26, 2023

1. Whitelisting of IPs to gain access to portal and RESTful API services.
 - Send email to oscal@fedramp.gov with IPs to be whitelisted for access.
 - Limit of 2 per organization or an IP address range.
 - MFA is being utilized via SMS only. Provide a valid cell# for each organizational registrant.
 - Provide company/organization logo for portal (optional).
2. Once confirmed, a link to the FedRAMP Portal will be automatically sent to registrant for site access for Phase 1.
 - Register within 5 days of receiving invitation email.
 - Login to Portal to confirm organizational details and verify access.
 - Each participating organization will be provided with its own workspace in the portal. Documents will not be shared between participants unless otherwise agreed to
 - Each participating organization will be provided with a sample Authorization Package for testing validation and uploading of OSCAL artifacts.
3. **THIS IS A BETA TEST SITE – NO SENSITIVE DATA.**