



FedRAMP

# FedRAMP OSCAL Implementers

**August 21, 2024**



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**Purpose:** To engage Cloud Service Providers, 3PAOs, tool vendors and other participants in FedRAMP's OSCAL Implementers activities.

**Outcomes:**

- Shared understanding of current OSCAL issues
- Alignment on progress toward digital authorization pilot



**Agenda:**

- Welcome
- OSCAL Implementers General Updates
- Digital Authorization Package Pilot Review & Updates
- 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**

# General Updates

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August 21, 2024

## Local Validation Tooling

FedRAMP automation team is working on enhancing metaschema validation mechanisms in the OSCAL-CLI tool.

- Version [available](#)
- Building out FedRAMP external constraints

## GitHub Issues

Resolved:

- Issue #592 - Refactoring CI to use the OSCAL CLI
- Issue #598 - Setting up test harness and framework to automate testing of OSCAL CLI
- Issue #563 - Resolved profile catalogs are missing props (#591)

Prioritized the following:

- Issue #564 - Review of FedRAMP OSCAL extensions and values

*Reviewing and triaging recently submitted issues. View the [project workboard](#) for more details on ongoing work and upcoming priorities*

## Review needed

<https://github.com/orgs/GSA/projects/25/views/7>

# FedRAMP Roadmap

## *Digital Authorization Packages Pilot Update*

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## Support machine-readable **“digital authorization packages”**

### Our goals:

- **Define Digital Authorization Package Composition:** Gain an understanding of the critical components that need to be supported in digital authorization packages.
- **Provide Guidance:** Provide accurate, clear, and actionable guidance on producing an OSCAL-based SSP. Increase overall quality of SSPs produced by CSPs and OSCAL tools by addressing common issues.
- **Provide Richer System Context:** Ensure richer system context through additional validations and completeness checks over OSCAL SSPs.
- **Stabilize Validations:** Provide a (documented) list of validations that must be checked prior to SSP submission, setting FedRAMP expectations for digital authorization packages.
- **Automate Validation Checks:** Reduce review timeframes and improve consistency by automating certain validations, which reduces human effort and detects issues earlier in the process.

## Tool Status

- Released [OSCAL CLI v 2.0.2](#)
  - Support for XML, JSON, YAML OSCAL content
  - Well-Formed (XML & JSON) validation
  - Validates OSCAL constraints (defined in [NIST OSCAL Model Metaschemas](#))
  - Validates specified external Metaschema constraints ([FedRAMP constraints](#))
  - Generates [SARIF](#) output
- Developing [OSCAL-JS Tool](#)
  - An NPM package for the OSCAL CLI to streamline use and/or integration of OSCAL CLI in other tools and environments
  - Used in FedRAMP Automation's CI
  - Provides some additional capabilities (e.g., scaffolding OSCAL documents)



## Validation Status

- Working to develop constraints:
  - **allowed-values:** to control FedRAMP values.
  - **expect:** To address cardinality and other co-constraint requirements.
- Working to align with core OSCAL where possible.

### FedRAMP SSP (Phase 1) Constraints

SSP Area	Count	In Progress	Complete
metadata	24	13	1
back-matter	28	3	
import-profile	4	1	
system-characteristics	79	21	3
system-implementation	117	40	7
<b>TOTAL</b>	<b>252</b>	<b>78</b>	<b>11</b>

## Validation Status

- Demo of local validations using the OSCAL CLI and sample FedRAMP external Metaschema constraints

## Pilot GitHub Issues

- GH Issues to be addressed during the pilot (see [DAP Phase 1 Milestone](#))
  - Documentation updates, fixes, and enhancements
  - Continued FedRAMP constraints development
  - *Focus on issues related to the pilot phase 1 SSP areas*
- Additionally, we will triage and address new issues identified during the pilot

# Open Forum

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# Thank you

Our next Implementers virtual meeting will be on

**Wednesday, August 28, 2024 at 12p ET.**

**Submit questions and future discussion topics to [OSCAL@fedramp.gov](mailto:OSCAL@fedramp.gov)**

**Learn more at [fedramp.gov](https://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](mailto:oscal@fedramp.gov)

## FedRAMP Automation GitHub: <https://github.com/GSA/fedramp-automation>

- Open Issues: <https://github.com/GSA/fedramp-automation/issues>
- Open Pull Requests: <https://github.com/GSA/fedramp-automation/pulls>
- Active Work: <https://github.com/orgs/GSA/projects/25/views/3>
- Community Review Needed: <https://github.com/orgs/GSA/projects/25/views/7>

## GitHub Resources:

- Issues: <https://docs.github.com/en/issues>
- Pull Requests: <https://docs.github.com/en/pull-requests>

## **NIST:**

**OSCAL repo:** <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>

**Early Adopter repo:** <https://github.com/GSA/fedramp-oscal-earlyadopters>