



# Developer Data Bites

**October 13, 2022**



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**Purpose:** To create space for dialogue between developers who use OSCAL and the FedRAMP® automation team.

**Outcomes:**

- Awareness of the FedRAMP-Automation GitHub repository
- Knowledge of the resources and tools available on the FedRAMP-Automation GitHub repository



**Agenda:**

- Welcome
- Pre-Submitted Q&A
- GitHub Repository Overview
- Feedback Survey
- 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**

# Pre-Submitted Questions

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## **Question 1: ConMon requirement/submission document integrated with OSCAL?**

We are looking at a revamped common strategy that will use OSCAL for data submission. We should have an early prototype in the next few months.

**Question 2: How do you convert yaml to xml? Is the json to xml converter the only one available in the oscal repo?**

The OSCAL-CLI (Command Line Tool) from NIST supports YAML to XML/JSON. Available at the following URL for download: <https://github.com/usnistgov/oscal-cli>

# FedRAMP Automation

## GitHub

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## What will you find on the FedRAMP-Automation GitHub repository?

*FedRAMP-specific extensions and guidance to ensure our stakeholders can fully express a FedRAMP Security Authorization Package using NIST's OSCAL SSP syntax*

- **OSCAL Guides and Templates**

- To ensure our stakeholders can fully express a FedRAMP Security Authorization Package using NIST's OSCAL syntax, the FedRAMP PMO has drafted:
  - FedRAMP-specific **extensions** and guidance
  - OSCAL files in XML and JSON formats to serve as **examples for each deliverable**

- **Schematron Validations**

- The FedRAMP-Automation GitHub repository contains the following schematron validation resources:
  - Complete documentation for each FedRAMP specific validation rule
  - Tools to validate FedRAMP artifacts in browser or install locally
  - Example code applying the validation rules using the compiled-XLST artifact in selected languages



## What are the important FedRAMP-Automation repository dependencies?

### NIST OSCAL

FedRAMP's work is based on [NIST OSCAL 1.0.0](#) and requires an understanding of the core OSCAL syntax and NIST-provided resources.

- FedRAMP accepts Security Authorization OSCAL artifacts that align with [NIST 1.0.4](#) release and artifacts that align with [NIST SP 800-53](#) and [53A Revision 4](#) in OSCAL.
- Support for [NIST 800-53 Revision 5](#) is soon to follow.

## Repository Structure and Content

- [/assets](#) FedRAMP and GSA logo images
- [/dist/content/baselines/rev4](#) FedRAMP 800-53 Revision 4 profiles and resolved-catalog-baselines\*
- [/dist/content/resources](#) Experimental **JSON** and **XML** drafts of extensions (acceptable values found in the FedRAMP OSCAL Registry), threats, and information types (NIST 800-60 R2).
- [/dist/content/templates](#) FedRAMP 800-53 **Revision 4 templates** for SSP, SAP, SAR and POAM\*
- [/documents](#) FedRAMP Automation guides for OSCAL deliverables
- [/presentations/data-bites](#) Data Bites slides in PDF format
- [/src/examples](#) Examples leveraging Saxon XSLT libraries in **Python**, **Java**, and **Javascript** (3rd party integrations)
- [/src/validations](#) FedRAMP **Schematron validations** source and content
- [/src/web](#) FedRAMP source for web-based Schematron validations
- [/src/vendor](#) References to NIST, Schematron, and other vendor specific content and applications

We want your feedback!

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# Open Forum

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# Thank you

Save the Date! Our next Developer Data Bites virtual meeting will be on  
**Thursday, October 27, 2022 at 12p EDT.**

**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)

## 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>