FedRAMP

Developer Data Bites

July 6, 2023

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Introduction

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

Outcomes:

- Shared understanding of the OSCAL Rev 5 profile and resolved profile catalog changes.
- Shared understanding of OSCAL Rev 5 SSP Template and other related artifact changes.
- Productive discussion around OSCAL

Agenda:

- Welcome
- Pre-Submitted Q&A
- FedRAMP Automation Community Updates
- OSCAL Rev 5 Profiles and Resolved Profile Catalogs
- OSCAL Rev 5 Templates
- Open Forum
- Next Steps & Closing

Data Bites Guiding Principles

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

Pre-Submitted Questions

Question:

Related to GH Issue #410: AC-8 additional FedRAMP Guidance and Requirements do not have response points in baseline profiles

Answer:

These requirements currently do not have response points in Rev 4 or Rev 5 OSCAL, and the FedRAMP PMO recognizes that this is a issue from an automation standpoint. The language will need to be clarified for each Requirement to specify the intent that the requirement will need a specific response point in the OSCAL and the Word SSP templates. This will be undertaken for a future release of the baselines (profiles). For now, they will be reviewing the SSP as it is currently done via an analyst looking at the control responses to determine if the Guidance/Requirements were applied/incorporated appropriately in the part responses in the Word template.

FedRAMP Automation Community Updates

July 6, 2023

Rev. 5

- FedRAMP Rev. 5 OSCAL Templates and Guides were released on 6/30.
- The Rev 5. Profiles and resolved-profile-catalogs were released on 6/15.
- Rev 5 FedRAMP Schematron validations pending release (4-6 weeks).

Rev. 4

- Relaxed some validation rules with PMO approval.

Issues/Ticket Tags

- **Closed issues/pull requests this cycle**
  - #425 - Bump vite from 3.2.5 to 3.2.7.
  - #426 - Add revision to the test output path for xspec.
  - #429 - Fix **rev4** profile issues.
  - #430 - [Snyk] Upgrade yaml from 2.2.2 to 2.3.1.
  - #364/435 - Add/Update **rev5** FedRAMP OSCAL Templates/Guides.
  - #436 - Update last modified date in FR OSCAL **rev5** templates.
  - #437 - Added **rev5** draft resources and registry files.

OSCAL Rev 5 Profiles and Resolved Profile Catalogs

FedRAMP Rev. 5 Release Overview

Overview of Changes as of 7/6/2023

- **Legacy submissions (FYI):**
  - Format of word templates changed for Rev 5 (see https://www.fedramp.gov/blog/ for more info).
  - Certain artifacts have been included within the Rev 5 templates that were not included in Rev 4 template.
- Added new properties (props) to FedRAMP OSCAL namespace (note on required/not required).
- Broke out guidance and documentation into separate folders on Github.
- Broke out of templates, resources and baselines into separate folders on Github.
- Separating of Schematron Rulesets (in process).
  - Ability to have separate rulesets between Rev 4 and Rev 5.
- Separation of Schematron Validation output verbiage and references (in process).
  - SSP template and guidance changes require separate output language.
- Removed Schematron Validation rules requiring submission of PIA/PTA and FedRAMP Laws and Regulations in OSCAL.

FedRAMP OSCAL Rev 5 Release Overview

Updates

- **Rev 5 profiles and resolved profile catalogs released on 6/15.**
  - Core controls have not been designated.
  - FedRAMP tailored response points pending.
- **Rev 5 FedRAMP OSCAL Guides and Templates released on 6/30.**
  - New prop for FedRAMP Schematron validations cli and web site (resolution-resource).
  - Addition of other props for FedRAMP specific requirements.
  - Adjustments made to back-matter resources to bring some of the resources in line with NIST OSCAL base (e.g. users-guide now user-guide).
  - Embedded comments in templates for items that currently don't pass FR validations (e.g. SSP template sample does not contain all MODERATE baseline controls).
- **Rev 5 resources and registry.**
  - Initial versions have been placed in GH however, updates are in progress to align with new FedRAMP Schematron validation changes for Rev 5 requirements.
  - **Note**: Rev 4 versions will remain as is.

FedRAMP OSCAL Rev 5 Release Overview

In Progress

- Currently working with PMO to adjust FedRAMP validations to align with new Rev 5 legacy templates format and requirements.
- Response points in Rev 5 currently have not been FedRAMP tailored (See GH issue #410).
  - Rev 5 assessment-objectives in FR resolved-profile-catalogs based on NIST Rev 5.
- Currently working on using FedRAMP Threat Based risk profiling data to designate core controls in profiles.
  - See https://github.com/GSA/threat-analysis for more information.
- FedRAMP Schematron validations alignment with FedRAMP Rev 5 requirements.

Note: GH Release version fedramp-2.0.0-oscal-1.0.2 will not be updated until associated resources/registry/templates have been updated to reflect rev 5 changes.

OSCAL Rev 5 Templates

FedRAMP OSCAL Rev 5 Templates

High-Level Summary of Changes to FedRAMP OSCAL Templates

- Target OSCAL version 1.0.4 (1.0.5 and 1.0.6 are currently in pre-release)
- Addition of new props that will aid FedRAMP in processing of OSCAL documents
- Addition of new props to record information sought in new FedRAMP templates
- Removal of props no longer needed in new FedRAMP templates
- Alignment of props with core NIST OSCAL props where applicable
- Expansion of sample content in the templates to serve as examples for OSCAL documents authors
  - Minimize validation exceptions (known validation errors will be published to GitHub)
  - More sample back-matter content
  - Back-matter resource preference - rlink vs base64

Templates Deep Dive

- Addition of a new property (prop) and back-matter resource reference in the FedRAMP namespace that will enable easy determination of the associated NIST 800-53 controls catalog that FedRAMP resolved-profile-catalogs were derived from.
- Enables automation support to determine which FedRAMP validation rulesets are to be used by validation code.

```
<!-- BEGIN RESOURCE REFERENCE FOR resolution-resource   -->
<resource uuid="ace2963d-ecb4-4be5-bdd0-1f6fd7610f41">
   <prop name="dataset" class="collection" value="Special Publication"/>
   <prop name="dataset" class="name" value="800-53"/>
   <prop name="dataset" class="version" value="5.0.2"/>
   <prop name="dataset" class="organization" value="gov.nist.csrc"/>
</resource>
<!-- END RESOURCE REFERENCE FOR resolution-resource     -->
```

Templates Deep Dive

- New optional prop (resolution-resource) in metadata assembly for FedRAMP OSCAL submissions.
  - If not found, FedRAMP Schematron validations will assume Rev 5. ruleset.
  - If found, the specified version in the back-matter resource will be applied.

```
<system-security-plan xmlns="http://csrc.nist.gov/ns/oscal/1.0"
   uuid="8c000726-ba93-480d-a221-8cb60df10c24">
   <metadata>
      <title>FedRAMP System Security Plan (SSP) Rev 5</title>
      <published>2023-02-25T00:00:00.00-04:00</published>
      <last-modified>2021-06-09T14:27:50.591-04:00</last-modified>
      <version>fedramp2.0.0-oscal-1.0.4</version>
      <oscal-version>1.0.4</oscal-version>
      <revisions>
         <revision> [9 lines]
      </revisions>
      <prop name="marking" value="Controlled Unclassified Information"/>
      <!-- BEGIN ADDITION -->
      <prop ns="https://fedramp.gov/ns/oscal" name="resolution-resource"
               value="#ace2963d-ecb4-4be5-bdd0-1f6fd7610f41" />
      <!-- END ADDITION -->
```

FedRAMP OSCAL Rev 5 Templates

SSP Template - Deep Dive

Table 6.1 Leveraged FedRAMP Authorized Services

#	CSP/CSO Name (Name on FedRAMP Marketplace)	CSO Service (Names of services and features - services from a single CSO can be all listed in one cell)	Authorization Type (JAB or Agency) and FedRAMP Package ID #	Nature of Agreement	Impact Level (High, Moderate, Low, LI-SaaS)	Data Types	Authorized Users/Authentication

```
<!-- Section 6 - Leveraged Authorizations.  Add one for each leveraged system -->
<leveraged-authorization uuid="5a9c98ab-8e5e-433d-a7bd-515c07cd1497">
   <title>GovCloud</title>
   <prop ns="https://fedramp.gov/ns/oscal" name="leveraged-system-identifier" value="F1603047866"/>
   <!-- Rev5 update - new prop -->
   <!-- FedRAMP Authorization Path: fedramp-jab, fedramp-agency, or fedramp-li-saas -->
   <prop ns="https://fedramp.gov/ns/oscal" name="authorization-type" value="fedramp-agency"/>
   <!-- FedRAMP Impact Level: high, moderate, low, li-saas -->
   <prop ns="https://fedramp.gov/ns/oscal" name="impact-level" value="moderate"/>
```

FedRAMP OSCAL Rev 5 Templates

SSP Template - Deep Dive

Table 6.1 Leveraged FedRAMP Authorized Services

#	CSP/CSO Name (Name on FedRAMP Marketplace)	CSO Service (Names of services and features - services from a single CSO can be all listed in one cell)	Authorization Type (JAB or Agency) and FedRAMP Package ID #	Nature of Agreement	Impact Level (High, Moderate, Low, LI-SaaS)	Data Types	Authorized Users/Authentication

```
<!-- New Rev 5 prop - Specify the type of agreement (e.g., EULA, SLA, App License Agreement, Contract, etc. -->
<prop ns="https://fedramp.gov/ns/oscal" name="nature-of-agreement" value="SLA"/>
<!-- New Rev 5 prop - Describe information being transferred -->
<prop ns="https://fedramp.gov/ns/oscal" name="information" value="describe information being transferred"/>
<!-- New Rev 5 prop - Add a prop for each data type and metadata type transmitted, stored or processed by the sys
<!-- Alternatively, if the list is long, data types may be provided as a link to a backmatter resource containing
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-data-type" value="C.3.5.1"/>
<!-- system development information type -->
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-data-type" value="C.3.5.8"/>
```

FedRAMP only accepts the information types defined in NIST SP 800-60, Volume 2, Revision 1. See FedRAMP's information-types.xml

FedRAMP OSCAL Rev 5 Templates

SSP Template - Deep Dive

Table 7.1 External Systems/Services, Interconnections, APIs, and CLIs Without FedRAMP Authorizations

# (either 1, 2, or 3)**	System/ Service/ API/CLI Name (Non-FedRAMP Cloud Services)	Connection Details	Nature of Agreement	Still Supported? Y or N	Data Types	Data Categorization	Authorized Users/ Authentication	Other Compliance Programs	Description	Hosting Environment	Risk/Impact/ Mitigation

***1- Non-FedRAMP Authorized Cloud Services, 2- Corporate Shared Services, 3- Update Services for In-Boundary Software/Services*

```
<prop ns="https://fedramp.gov/ns/oscal" name="service-processor" value="[SAMPLE] Telco Name"/>
<!-- New Rev5 prop.  Specify the type of interconnection (1=Non-FedRAMP authorized cloud service, 2=Corporate Shared Services, 3-update Service
<prop ns="https://fedramp.gov/ns/oscal" name="interconnection-type" value="1"/>
<!-- New Rev5 prop.  Specify the type of agreement (e.g., EULA, SLA, App License Agreement, Contract, etc.) -->
<prop ns="https://fedramp.gov/ns/oscal" name="nature-of-agreement" value="Contract"/>
<!-- New Rev5 prop.  Specify if this product still supported by the manufacturer? Accepted values are "yes" or "no" -->
<prop ns="https://fedramp.gov/ns/oscal" name="still-supported" value="yes"/>
<!-- New Rev5 prop. Add a prop for each data type and metadata type transmitted, stored or processed by the system / service, including federal
<!-- Alternatively, if the list is long, data types may be provided as a link to a backmatter resource containing all the information -->
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-data-type" value="C.3.5.1"/>
<!-- system development information type -->
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-data-type" value="C.3.5.8"/>
<!-- system & network monitoring information type -->
<!-- New Rev5 prop. For each interconnection-data-type above, add a prop for the corresponding data categorization.  Use the security impact lev
<!-- Alternatively, if the list is long, data categorization may be provided as a link to a backmatter resource containing all the information -
<prop ns="https://fedramp.gov/ns/oscal" class="C.3.5.1" name="interconnection-data-categorization" value="low"/>
<!-- low, moderate, high -->
<prop ns="https://fedramp.gov/ns/oscal" class="C.3.5.8" name="interconnection-data-categorization" value="moderate"/>
<!-- low, moderate, high -->
<!-- New Rev5 prop.  Use prop to list the user roles (e.g., SecOps engineers) authorized to access the service, and provide the authentication m
<prop ns="https://fedramp.gov/ns/oscal" name="authorized-users" value="SecOps engineers"/>
<!-- New Rev5 prop.  List any certifications for this service (e.g., PCI SOC 2, CSA STAR Level 2, FISMA, etc.) -->
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-compliance" value="PCI SOC 2"/>
<prop ns="https://fedramp.gov/ns/oscal" class="fedramp" name="interconnection-compliance" value="ISO/IEC 27001"/>
<!-- New Rev5 prop. Describe the hosting environemnt (e.g., corporate newtork, IaaS, self-hosted, etc.) -->
<prop ns="https://fedramp.gov/ns/oscal" name="interconnection-hosting-environment" value="PaaS"/>
<!-- New Rev5 prop. Describe potential risks introduced by the external system/service and impact to the CSO or federal data if the CIA of the s
<prop ns="https://fedramp.gov/ns/oscal" name="interconnection-risk" value="None"/>
```

SSP Template - Deep Dive

Appendix Q <CSO Name> Encryption Implementation Status

Data in Transit (DIT)

	Source				Destination					
Ref #	Areas of DIT[1]	CMVP #[2]	CM Vendr	Module Name	Areas of DIT	CMVP #[3]	CM Vendor	Module Name	Usage	Notes[4]
1	NGINX Server <*Use Case Example - Please Delete*>	#4271 ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☒ In FIPS Mode ☐ Other _____	Red Hat, Inc.	RHEL 8 OpenSSL	All Application Servers	#3980 ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☒ In FIPS Mode ☐ Other _____	Canonical Ltd.	Ubuntu 18.04 OpenSSH Server	Load Balancer TLS to Application Server ☐ TLS 1.1 or earlier ☒ TLS 1.2 ☐ TLS 1.3 ☐ Other _____	
2	All Application Servers <*Use Case Example - Please Delete*>	None ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☐ In FIPS Mode ☐ Other _____	CentOS 7.9	OpenSSL 1.0.1	PostgreSQL	#3980 ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☒ In FIPS Mode ☐ Other _____	Canonical Ltd.	Ubuntu 18.04 OpenSSH Server	Application servers to common DB ☐ TLS 1.1 or earlier ☒ TLS 1.2 ☐ TLS 1.3 ☐ Other _____	Plans to move to RHEL 8. See POA&M ID 111.

[1] Each entry should be the component or asset where the FIPS-140 validated cryptographic module is located.
[2] If using cryptography that lacks FIPS validation, state "No FIPS". If unencrypted, state "Unencrypted".
[3] If using cryptography that lacks FIPS validation, state "No FIPS". If unencrypted, state "Unencrypted".
[4] For example, specify if the historical CM is used or the store lacks encryption entirely. Include the related POA&M ID, remediation plans, etc.

Data at Rest (DAR)

Ref #	Areas of DAR[5]	CMVP # [6]	CM Vendor Name	Module Name	Usage	Encryption Type	Notes[7]
1	PostgreSQL database <*Use Case Example - Please Delete*>	#3980 ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☒ In FIPS Mode ☐ Other _____	Canonical Ltd.	Ubuntu 18.04 OpenSSL Cryptographic Module	Volume encryption	☒ Full disk ☐ File ☐ Record ☐ None ☐ Other _____	
2	App server local storage <*Use Case Example - Please Delete*>	#2931 ☐ Embedded CM ☐ Third-party CM ☒ Uses OS CM ☒ In FIPS Mode ☐ Other _____	Microsoft	Windows Server 2016	OS and application binaries	☐ Full disk ☒ File ☐ Record ☐ None ☐ Other _____	CM is Historical, per NIST CMVP. Plans to move to Windows 2019 upon Active FIPS-140-validation achieved. See POA&M ID 123.
3	S3 buckets <*Use Case Example - Please Delete*>	#4177 ☒ Embedded CM ☐ Third-party CM ☐ Uses OS CM ☒ In FIPS Mode ☐ Other _____	AWS	Key Management Service (KMS) HSM	Server-side encryption with KMS keys (SSE-KMS) used to encrypt bucket	☒ Full disk ☐ File ☐ Record ☐ None ☐ Other _____	

[5] Each entry should be the component or asset where the FIPS-140 validated cryptographic module is located.
[6] If using cryptography that lacks FIPS validation, state "No FIPS". If unencrypted, state "Unencrypted".
[7] For example, specify if the historical CM is used or the store lacks encryption entirely. Include the related POA&M ID, remediation plans, etc.

FedRAMP OSCAL Rev 5 Templates

SSP Template - Deep Dive

```
<!-- Section 10 / Appendix Q - Cryptographic Modules -->
<!-- NOTE: Must set type="cryptographic-module" -->
<!-- List all cryptographic modules for Data-at-Rest (DAT) - must referenced by using component(s), provide CMVP #, FIPS validation status, Vendor N
<component uuid="95beec7e-6f82-4aaa-8211-969cd7c1f1ab" type="validation">
   <title>[SAMPLE]Cryptographic Module Name</title>
   <description>
      <p>Provide a description and any pertinent note regarding the use of this CM.</p>
      <p>For data-at-rest modules, describe type of encryption implemented (e.g., full disk, file, record-level, etc.)</p>
      <p>Lastly, provide any supporting notes on FIPS status (e.g. historical) or lack of FIPS compliance (e.g., Module in Process).</p>
   </description>
   <!-- Rev 5 new props for CMs -->
   <prop ns="https://fedramp.gov/ns/oscal" name="asset-type" value="cryptographic-module"/>
   <prop ns="https://fedramp.gov/ns/oscal" name="vendor-name" value="CM Vendor"/>
   <prop ns="https://fedramp.gov/ns/oscal" name="cryptographic-module-usage" value="data-at-rest"/>
   <!-- Provide the validation type for this CM -->
   <prop name="validation-type" value="fips-140-2"/>
   <!-- Provide the certificate number (CMVP #) -->
   <prop name="validation-reference" value="3928"/>
   <link rel="validation-details" href="https://csrc.nist.gov/projects/cryptographic-module-validation-program/Certificate/3928"/>
   <status state="operational"/>
</component>
<!-- List all cryptographic modules for Data-in-Transit (DIT) - must referenced by using component(s), provide CMVP #, FIPS validation status, Vendo
<component uuid="1eaaabbd-b3a6-4316-a868-7b815e7c40f5" type="validation">
   <title>[SAMPLE]Cryptographic Module Name</title>
   <description>
      <p>Provide a description and any pertinent note regarding the use of this CM.</p>
      <p>For example, any supporting notes on FIPS status (e.g. historical) or lack of FIPS compliance (e.g., Module in Process).</p>
   </description>
   <!-- Rev5 new props for CMs -->
   <prop ns="https://fedramp.gov/ns/oscal" name="asset-type" value="cryptographic-module"/>
   <prop ns="https://fedramp.gov/ns/oscal" name="vendor-name" value="CM Vendor"/>
   <prop ns="https://fedramp.gov/ns/oscal" name="cryptographic-module-usage" value="data-in-transit"/>
   <!-- Provide the validation type for this CM -->
   <prop name="validation-type" value="fips-140-3"/>
   <!-- Provide the certificate number (CMVP #) -->
   <prop name="validation-reference" value="3920"/>
   <link rel="validation-details" href="https://csrc.nist.gov/projects/cryptographic-module-validation-program/certificate/3920"/>
   <status state="operational"/>
</component>
```

FedRAMP OSCAL Rev 5 Templates

SSP New FedRAMP Props

- authentication-method
- authorized-users
- cryptographic-module-usage
- fully-operational-date
- impact-level
- interconnection-compliance
- interconnection-data-categorization
- interconnection-data-type
- interconnection-hosting-environment
- interconnection-risk
- interconnection-type
- login-url
- nature-of-agreement
- resolution-resource
- still-supported
- type
- vendor-name

SSP deprecated FedRAMP props

- cloud-deployment-model
  - use core OSCAL “***cloud-deployment-model***” prop instead
- logn-url
  - Replaced by “**login-url**” prop
- pta-1
- pta-2
- pta-3
- pta-4
- security-eauth-level
- sorn-id

Use the following xpath query to find an example of prop in rev5 SSP Template:

//*/prop[@ns='https://fedramp.gov/ns/oscal' and @name='NEW-PROP-NAME']

See FedRAMP Extensions for a complete list of prop extensions.

FedRAMP OSCAL Rev 5 Templates

SAP New FedRAMP Props

- assessment-type
- csp-validated
- ia-validated
- ipv4-address
- ipv4-subnet
- label
- login-url
- name
- resolution-resource
- significant-changes-scope
- sort-id
- type
- vendor-name

SAP deprecated FedRAMP props

- logn-url
  - Replaced by “**login-url**” prop

Use the following xpath query to find an example of prop in rev5 SAP Template:

//*/prop[@ns='https://fedramp.gov/ns/oscal' and @name='NEW-PROP-NAME']

See FedRAMP Extensions for a complete list of prop extensions.

FedRAMP OSCAL Rev 5 Templates

SAR New FedRAMP Props

- discrepancies
- discrepancies-reason
- ia-manual-review
- ipv4-address
- login-url
- scan-percentage
- sort-id
- type

SAR deprecated FedRAMP props

- logn-url
  - Replaced by “**login-url**” prop

Use the following xpath query to find an example of prop in rev5 SAR Template:

//*/prop[@ns='https://fedramp.gov/ns/oscal' and @name='NEW-PROP-NAME']

See FedRAMP Extensions for a complete list of prop extensions.

FedRAMP OSCAL Rev 5 Templates

POA&M New FedRAMP Props

- name
- kev-catalog
- kev-due-date
- purpose
- resolution-resource
- vendor-name

POA&M deprecated FedRAMP props

- publication
  - use core OSCAL “***published***” prop instead
- version
  - use core OSCAL “***version***” prop instead

Use the following xpath query to find an example of prop in rev5 POA&M Template:

//*/prop[@ns='https://fedramp.gov/ns/oscal' and @name='NEW-PROP-NAME']

See FedRAMP Extensions for a complete list of prop extensions.

FedRAMP OSCAL Rev 5 Templates

See Updated User Guides

- Guide to OSCAL-based FedRAMP Content (rev 5)
- Guide to OSCAL-based FedRAMP System Security Plans (SSP) (rev 5)
- Guide to OSCAL-based FedRAMP Security Assessment Plans (SAP) (rev 5)
- Guide to OSCAL-based FedRAMP Security Assessment Results (SAR) (rev 5)
- Guide to OSCAL-based FedRAMP Plan of Action and Milestones (POA&M) (rev 5)

Open Forum

Thank you

Our next Developer Data Bites virtual meeting will be on

Thursday, August 3, 2023 at 12p ET.

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

Learn more at fedramp.gov

@FEDRAMP

How to Submit Issues with FedRAMP

Ensuring your outstanding issues or questions are received:

Issues can be submitted in several ways:

Preferred	Alternate
Open an issue on fedramp-automation github so that it will benefit the NIST/FedRAMP community. https://github.com/GSA/fedramp-automation/issues	Email us at oscal@fedramp.gov

OSCAL Resources

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