



FedRAMP OSCAL Implementers

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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
- Shared understanding of roles and responsibilities as it relates to OSCAL



Agenda:

- Welcome
- OSCAL Implementers General Updates
- OSCAL Roles & Responsibilities Discussion
- Open Forum
- Next Steps & Closing



Keep the discussion respectful



Be curious, seek understanding



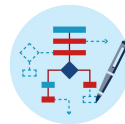
Speak from your own experience



Challenge through questions



Focus on ideas



Keep it technical

General Updates

Current Development Priorities & Status

- **SSP Constraints**
 - Significant advancement in various SSP constraint areas
 - Detailed briefings planned for upcoming sessions
- **FedRAMP OSCAL Requirements Refinements**
 - Enhanced tracking of control implementation by component
 - Improving component-based information type and data flow
 - Control Origination
- **Bug Reports**
 - Thanks for bug reports ([#977](#) and [#1009](#))
- **Stay Informed**
 - View the [project workboard](#) for more details on ongoing work and upcoming priorities (<https://github.com/orgs/GSA/projects/25/views/2>)

Important Changes for FedRAMP OSCAL



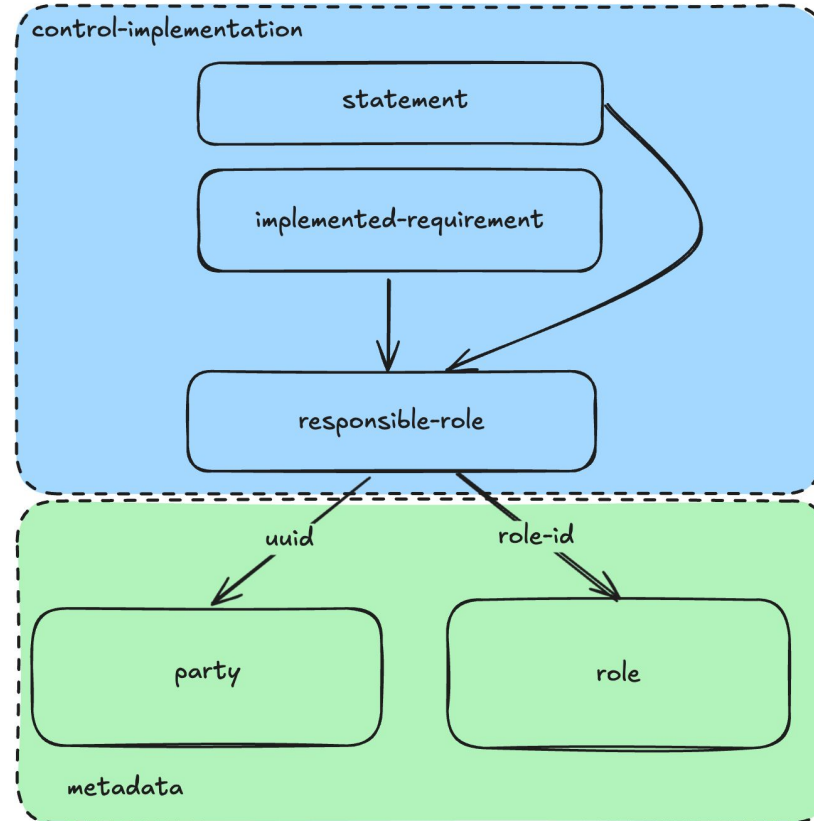
ADR #11 Approved

- Aligning extension property and misc identifier requirements for the official FedRAMP namespace
 - One common URI for FedRAMP *identifier-type*, *system* facet attribute and FedRAMP extension property *namespaces*
 - We reviewed pull requests #[102](#) and #[828](#), they are ready for merge.
 - We will **deploy updated docs and constraints this week**, but first we will:
 - Update these pull requests (you can subscribe to notifications).
 - Send an email to our mailing list oscal-implementer@fedramp.gov.

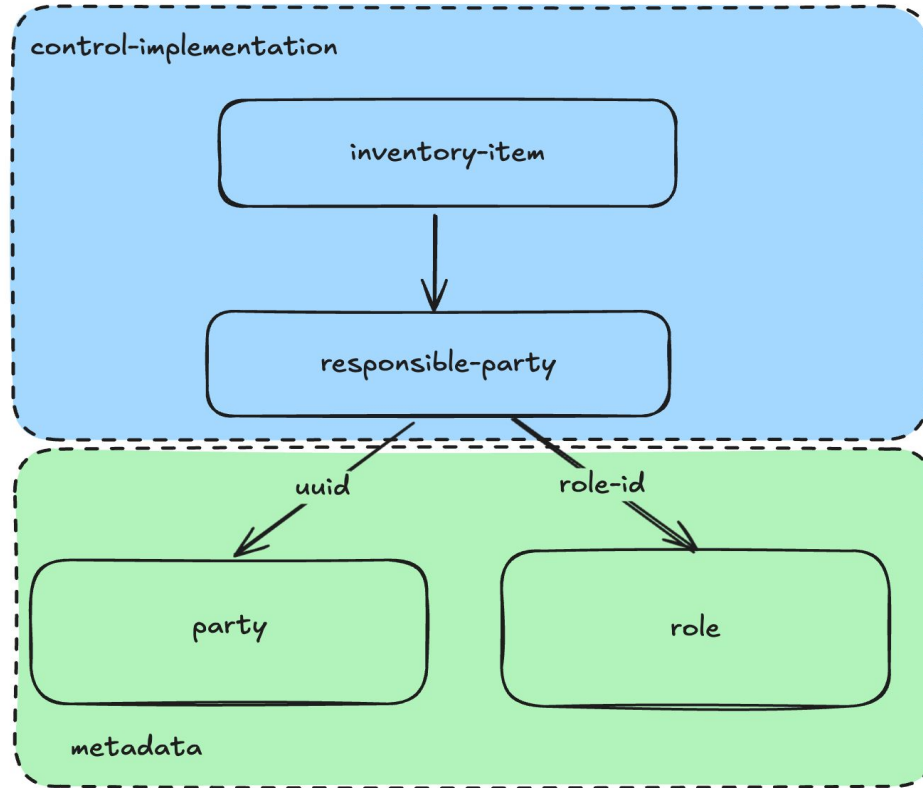
Deeper Dive into Roles & Responsibilities in OSCAL

- Parties: Can be people or organizations & can be linked together
 - ◆ I.e. “Simon” is his own party, and can be a member of party “AwesomeCloud”
- Roles: Think job title - one party can have multiple roles
 - ◆ I.e. Simon could be “system owner,” “authorizing official,” and “privacy point of contact”
- Responsibilities: Every control needs to have either a responsible party or a responsible role
 - ◆ I.e. AC-3, access enforcement, must have either a party or role that is accountable for it
 - ◆ Responsible party could be Simon, or AwesomeContractor
 - ◆ Responsible role could be “information system security officer”

An Illustration



An Illustration (cont.)



Why Does FedRAMP Care About This?



- Accountability:
 - ◆ Clear ownership ensures tasks are completed, prevents delays or gaps in addressing security issues
- Risk Management:
 - ◆ Reduces risk of overlooked vulnerabilities, insider threats
- Security Principles:
 - ◆ Aligns with separation of duties, least privilege, and shared responsibility principles
- Incident Response:
 - ◆ Enables swift containment and prevents delays caused by unclear responsibilities

What Were Old Responsibility Parties Like?



AC-2 Control Summary Information
Responsible Role:
Parameter AC-2(c):
Parameter AC-2(d)(3):
Parameter AC-2(e):
Parameter AC-2(f):
Parameter AC-2(h):
Parameter AC-2(h)(1):
Parameter AC-2(h)(2):
Parameter AC-2(h)(3):
Parameter AC-2(i)(3):
Parameter AC-2(j):
Implementation Status (check all that apply):

What Were Old Responsibility Parties Like?



Duty Description	Information Owner	Security officer	Privacy officer	Linux Admin	Windows Admin	Agency Admin	Agency Customer		
Adds/Removes Privileged Admins	X	X							
Adds/Removes Non-privileged Admins		X	X						

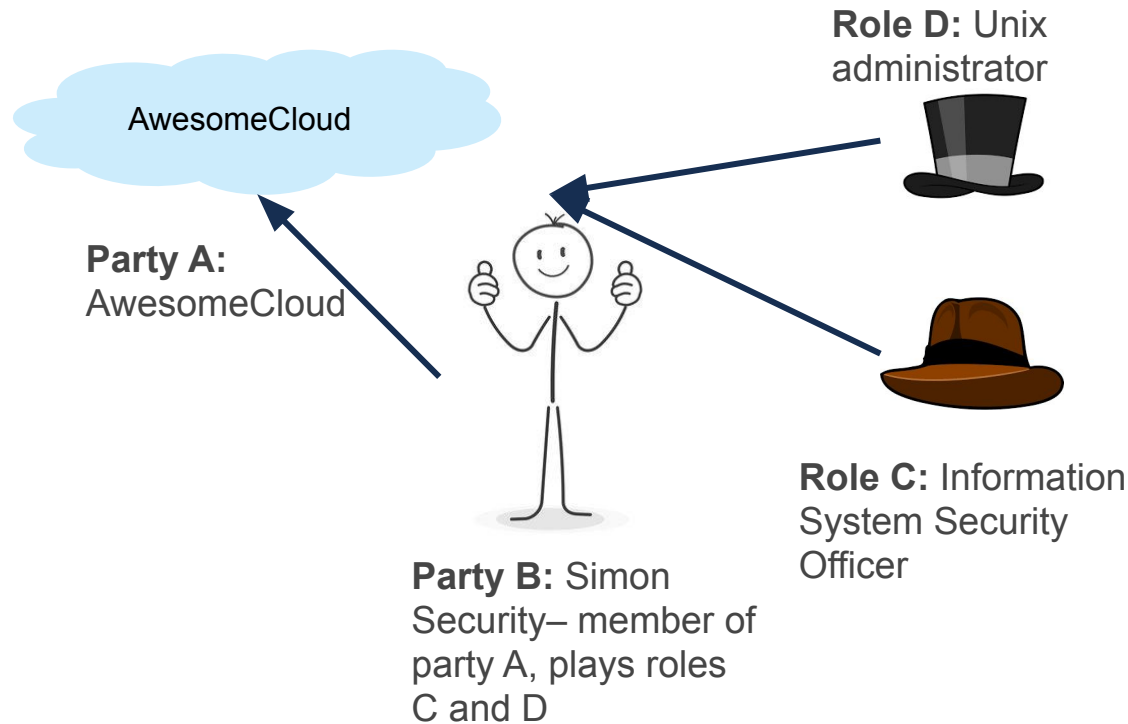
How is OSCAL an Improvement?



- Allows for explicit definitions of roles and parties
- Allows for tight linkage between a person, the org they are a part of, their role, and the controls they are responsible for
 - ◆ No more flipping back and forth in spreadsheets
- OSCAL creates a graph that can represent the complexity of today's systems
- If that graph doesn't link up in an appropriate way (i.e. no party assigned to a role), we throw an error

Example Scenario

→ Look, it's Simon in the metadata!



Implemented Requirement AC-3: Access Enforcement

- **Responsible Party: B**
- ~or~
- **Responsible Role: C**

Let's Have a Responsibility Party with Code!



NIST OSCAL models have their own internal constraints for party, responsible-party, role, and responsible-role.

- `index-metadata-role-id` (in SSP [metadata](#); [implemented-requirement](#); [inventory-item](#))
- `index-metadata-party-uuid` (in SSP [metadata](#); [implemented-requirement](#); [inventory-item](#))

FedRAMP builds on top of these constraints, analyzing party, role, and responsible-party relations.

- [role-defined-prepared-for](#)
- [responsible-party-prepared-for](#)
- [responsible-party-is-person](#)
- [role-defined-information-system-security-officer](#)

Open Forum

Thank you

Please be on the lookout for new calendar invites in the coming year

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

Learn more at fedramp.gov



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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

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>