Parallel Track 2 - Day 1

Hosted By: Jasson Walker, President & CEO, cFocus Software

Bring your coffee or lunch and join us at **1:45 PM**

NIST: oscal2021@nist.gov
FedRAMP: info@fedramp.gov
Automating FedRAMP System Security Plan (SSP) Development Using OSCAL

2nd OSCAL Workshop
February 2, 2021
Welcome! Here’s the Agenda:

• Introduction

• How does OSCAL automate FedRAMP SSP Development?

• Demonstrating FedRAMP SSP Development Automation with ATO as a Service™

• Q&A
Introduction
Allow me to re-introduce myself, my name is...

- **Jasson Walker, Jr. CISSP, CPT, CEH, PMP, MCSE**
  - President & CEO of cFocus Software Incorporated
  - 20+ years of experience with DITSCAP/DIACAP/RMF/FedRAMP

- **cFocus Software Incorporated**
  - Established 2006 with 15+ years of federal IA & cybersecurity experience
  - Providing A&A services for multiple federal agencies (US Army, EPA, etc.)
  - [https://cfocussoftware.com](https://cfocussoftware.com)
Introducing ATO as a Service™

• ATO as a Service™ is a SaaS that automates FedRAMP SSP Development using OSCAL

  ➢ Incorporates OSCAL Catalog, Profile & Implementation layers
  ➢ Complies with FedRAMP guidance for OSCAL
  ➢ Publishes FedRAMP SSPs using FedRAMP-required Microsoft Office templates
How does OSCAL Automate FedRAMP SSPs?
Automating FedRAMP SSPs with OSCAL

- OSCAL organizes security information into a stack of layers and models that build on each other
Automating FedRAMP SSPs with OSCAL

- Each OSCAL model is represented in machine readable formats for representing & exchanging data
Automating FedRAMP SSPs with OSCAL

• For example, NIST SP 800-53 Rev. 4 security controls are represented by an OSCAL catalog.
Automating FedRAMP SSP Development Using OSCAL

Automating FedRAMP SSPs with OSCAL

- FedRAMP High/Moderate/Low/Tailored security control baselines are represented by OSCAL profiles

```json
FedRAMP_HIGH-baseline_profile.json

{
  "profile": {
    "uuid": "b11dba1c-0c68-4724-9eaf-02de2d5bb89",
    "metadata": {
      "title": "FedRAMP High Baseline",
      "published": "2020-06-01T00:00:00.000-04:00",
      "last-modified": "2020-06-01T10:00:00.000-04:00",
      "version": "1.2",
      "oscal-version": "1.0.0-milestone3",
      "roles": [
        {
          "id": "parpared-by",
          "title": "Document creator"
        },
        {
          "id": "fedramp-pmo",
          "title": "The FedRAMP Program Management Office (PMO)",
          "short-name": "CSP"
        }
      ]
    }
  }
}
```
Automating FedRAMP SSP Development Using OSCAL

• FedRAMP SSPs are represented by OSCAL SSPs
Automating FedRAMP SSPs with OSCAL

FedRAMP has created several resources & guidance for automating FedRAMP SSPs using OSCAL.

FedRAMP Resources
The following resources are provided by the FedRAMP Program Management Office (PMO).

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<th>Resource</th>
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| Guidebooks   | A suite of guidebooks describing how to represent required FedRAMP content in OSCAL. These guides walk a developer through each section of FedRAMP's MS Word- and Excel-based Templates, providing examples for each section:  
  - Guide to OSCAL-based FedRAMP Content (Start here)!  
Automating FedRAMP SSPs with OSCAL

• ATO as a Service™ automates SSP development and serializes SSP data to OSCAL SSP data models
• ATO as Service™ complies with FedRAMP’s OSCAL guidance
• ATO as a Service™ publishes OSCAL SSP data to FedRAMP-required Microsoft Office templates
Let’s see how this all works, shall we?
ATO as a Service™ Demonstration

• Let’s get after it!

• For more information about ATO as a Service, go to: https://cfocussoftware.com/offer-atoaas-trial/
Thank you! Any Questions?

• Let’s keep in touch! Here’s my contact Info:
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Please return to the main BlueJeans Event Platform. The next event begins at **2:30 PM**.

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