

# Parallel Track 2 - Day 1

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



(OSCAL Webpage)

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

**NIST** | FedRAMP

NIST: [oscal2021@nist.gov](mailto:oscal2021@nist.gov)  
FedRamp: [info@fedramp.gov](mailto:info@fedramp.gov)



cFocus Software Incorporated  
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# Automating FedRAMP System Security Plan (SSP) Development Using OSCAL

**2<sup>nd</sup> 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

**2<sup>nd</sup> OSCAL Workshop**  
**February 2, 2021**





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>





## 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



**ATO** as a SERVICE™

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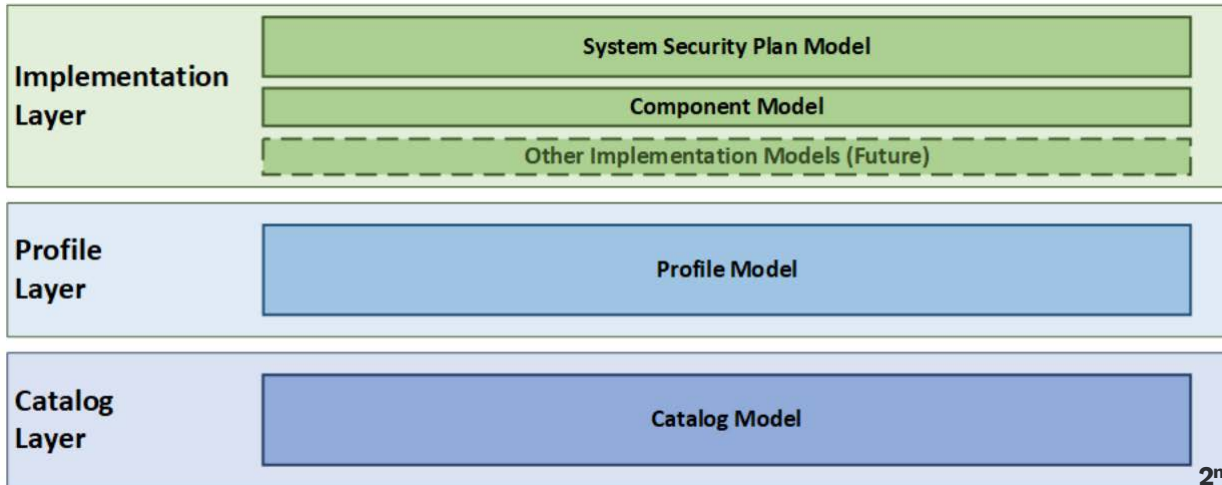
## How does OSCAL Automate FedRAMP SSPs?

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# Automating FedRAMP SSPs with OSCAL

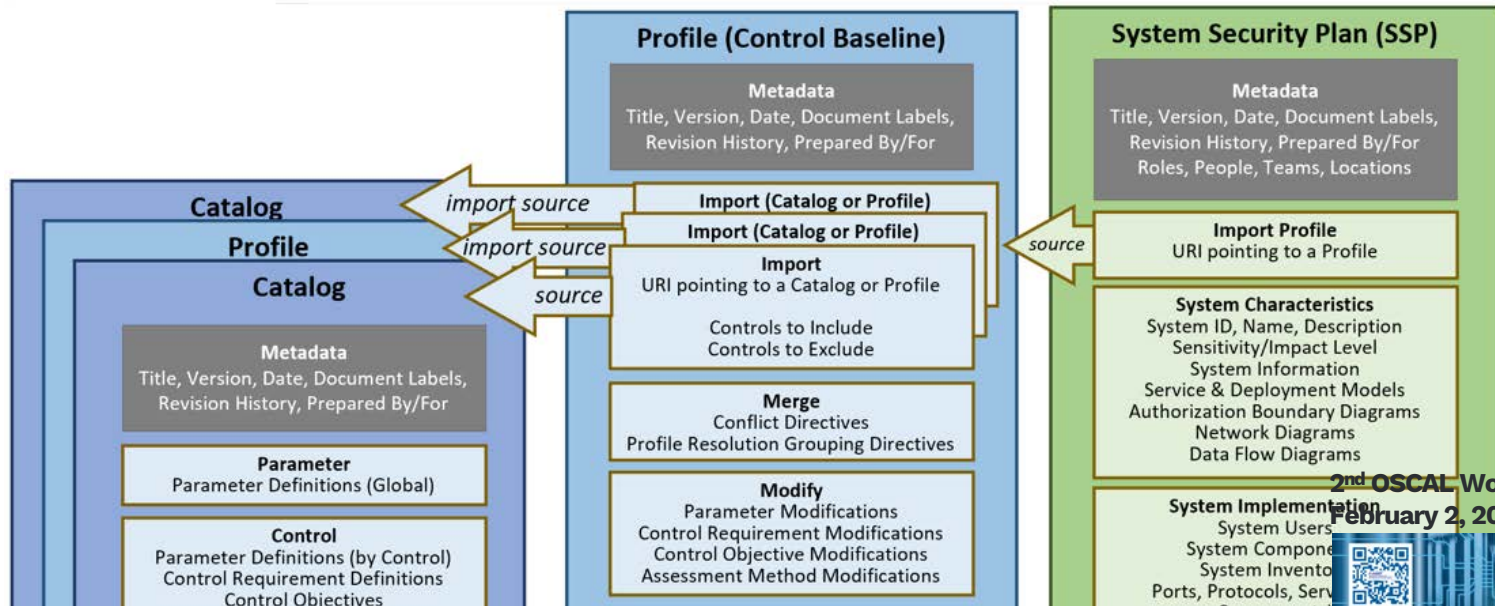
- OSCAL organizes security information into a stack of layers and models that build on each other





# 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

```
NIST_SP-800-53_rev4_catalog.json x
1  {
2    "catalog": {
3      "uuid": "26a2a133-f395-432c-b2ad-77d23a23ca4e",
4      "metadata": {
5        "title": "NIST Special Publication 800-53 Revision 4: Security and Privacy Controls for Federal\n
6        "last-modified": "2020-05-29T23:29:27.272-04:00",
7        "version": "2015-01-22",
8        "oscal-version": "1.0.0-milestone3",
9        "properties": [
10       {
11         "name": "keywords",
12         "value": "Assurance, computer security, FISMA, Privacy Act, Risk Management Framework, security c
13       }
14     ],
15     "links": [
16     {
17       "href": "#16b3b234-3406-44dc-8645-7da61b6e81f1",
18       "rel": "alternate",
19       "text": "NIST publication (PDF)"
```

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## Automating FedRAMP SSPs with OSCAL

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

```
FedRAMP_HIGH-baseline_profile.json x
1  {
2    "profile": {
3      "uuid": "b11dba1c-0c68-4724-9eaf-02de2d5bbb89",
4      "metadata": {
5        "title": "FedRAMP High Baseline",
6        "published": "2020-06-01T00:00:00.000-04:00",
7        "last-modified": "2020-06-01T10:00:00.000-04:00",
8        "version": "1.2",
9        "oscal-version": "1.0.0-milestone3",
10       "roles": [
11         {
12           "id": "parpared-by",
13           "title": "Document creator"
14         },
15         {
16           "id": "fedramp-pmo",
17           "title": "The FedRAMP Program Management Office (PMO)",
18           "short-name": "CSP"
19         }
20       ]
21     }
22   }
23 }
```

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# Automating FedRAMP SSPs with OSCAL

- FedRAMP SSPs are represented by OSCAL SSPs

```
FedRAMP-SSP-OSCAL-Template.json x
1  {
2    "system-security-plan": {
3      "uuid": "2fa78e07-74ef-4cd6-8124-bc0050c0c4df",
4      "metadata": {
5        "title": "FedRAMP System Security Plan (SSP)",
6        "published": "2020-07-01T00:00:00.00-04:00",
7        "last-modified": "2020-07-01T00:00:00.00-04:00",
8        "version": "0.0",
9        "oscal-version": "1.0-Milestone3",
10       "revision-history": [
11         {
12           "published": "2019-06-01T00:00:00.00-04:00",
13           "version": "1.0",
14           "oscal-version": "1.0-Milestone3",
15           "properties": [
16             {
17               "name": "party-uuid",
18               "ns": "https://fedramp.gov/ns/oscal",
19               "value": "6b286b5d-8f07-4fa7-8847-1dd0d88f73fb"
```

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## Automating FedRAMP SSPs with OSCAL

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



The following is a summary of resources available to vendors developing tools to import, export, or manage FedRAMP deliverable content using the Open Security Controls Assessment Language (OSCAL), enabling seamless exchange of FedRAMP authorization package information among FedRAMP stakeholders.

### FedRAMP Resources

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

Resource	Purpose
Guidebooks	<p>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:</p> <ul style="list-style-type: none"><li>• <a href="#">Guide to OSCAL-based FedRAMP Content (Start here!)</a></li><li>• <a href="#">Guide to OSCAL-based FedRAMP System Security Plans (SSP)</a></li></ul>

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## 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?

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## 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/>







Q&A

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## 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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