BlueJeans vRoom2

Hosted By: Jasson Walker, PMP, CISSP, CEH, CPT, MCSE, MCSD, President, cFocus Software

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Leveraged Authorizations To Operate (ATOs)
Welcome! Here’s the Agenda:

- Introduction
- What is a Leveraged Authorization?
- Benefits of OSCAL Leveraged Authorizations
- Leveraged Authorizations Demo 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
  - 15+ years of experience with FISMA/RMF/FedRAMP compliance

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

- ATO as a Service™ automates FISMA/RMF/FedRAMP compliance and reporting with OSCAL
  - Full implementation of OSCAL v1.0.0 leveraged authorizations
  - Auto-generates 100% OSCAL v1.0.0 compliant SSPs, POA&Ms, SAPs & SARs
  - Exports authorization package documents to Word/Excel format
What is a Leveraged Authorization?
What is a Leveraged Authorization?

- A leveraged authorization is a system from which security control compliance can be inherited
  - AKA Common Control Provider
- A leveraging system inherits security control compliance from a leveraged authorization
What is a Leveraged Authorization?

• For example...
  - Amazon Web Services IaaS leveraged authorization for a SaaS

Cloud (SaaS on IaaS)
What is a Leveraged Authorization?

- For example...
  - General Support System leveraged authorization for a system application

```
Customer Org.
Cust 1  Cust 2  Cust 3  Cust 4  Cust 5  Cust 6

Leveraging System
System A (Application)  System B (Application)

General Support System
Active Directory w/SSO  Storage Area Network  Network Infrastructure

Data Center (System on GSS)
```
What is a Leveraged Authorization?

- Leveraged authorization & leveraging system linked thru OSCAL (provided \rightarrow inherited)

Step 1: Update Leveraged Authorization SSP with provided object

Summary:

- Overall description of what is exportable to leveraging systems for AC-2, part a.
- Consumer-appropriate description of what may be inherited.
- In the context of the application component in satisfaction of AC-2, part a.
What is a Leveraged Authorization?

- In order to create an OSCAL leveraged authorization, you must:

  - Step 2: Update Leveraging System with component object that represents leveraged-authorization

```
<component uuid="2222222-0000-4000-9001-000000000002" component-type="leveraged-system">
  <title><b>LEVERAGED SYSTEM (IaaS)</b></title>
  <description>
    <p>Brief description of the leveraged system.</p>
  </description>
  <prop name="implementation-point">external</prop>
  <prop name="leveraged-authorization-uuid">2222222-0000-4000-9001-000000000001</prop>
  <prop name="inherited-uuid">1111111-0000-4000-9001-000000000001</prop>
  <status state="operational"/>
</component>
```
What is a Leveraged Authorization?

• In order to create an OSCAL leveraged authorization, you must:
  
  ➢ Step 3: Update Leveraging System with leveraged-authorization object

```xml
<system-implementation>
  <leveraged-authorization uuid="2222222-0000-4000-9000-300000000001">
    <title>CSP IaaS [Leveraged System]</title>
    <link href="/oscal_csp-example_ssp.xml" rel="OSCAL-SSP-XML" />
    <party-uuid>2222222-0000-4000-9000-100000000002</party-uuid>
    <date-authorized>2018-01-01</date-authorized>
  </leveraged-authorization>
</system-implementation>
```
What is a Leveraged Authorization?

• In order to create an OSCAL leveraged authorization, you must:
  
  ➢ Step 4: Update Leveraging System with inherited object

```xml
<inherited uuid="uuid-value" provided-uuid="1111111-0000-4000-9009-002001002001">
  <description>
    <p>Optional description.</p>
    <i>Possibly a duplicated description of what was inherited.</i>
    <p>Consumer-appropriate description of what may be inherited.</p>
    <p>In the context of the application component in satisfaction of AC-2, part 1.</p>
  </description>
</inherited>
```
What is a Leveraged Authorization?

- We can also create a leveraged authorization customer responsibility that must be satisfied by the leveraging system

  - responsibility (leveraged authorization) ➔ satisfied (leveraging system) object pairs
What is a Leveraged Authorization?

- provided ➔ inherited and responsibility ➔ satisfied

  object pairs are linked by UUIDs

- UUIDs for these objects enable traceability from the leveraging system back to the leveraged authorization components, provided object, responsibility object, etc.
Benefits of OSCAL Leveraged Authorizations
Benefits of OSCAL Leveraged Authorizations

• Traceability of security control inheritance between systems in different authorization boundaries
• Granular security control inheritance
• True Real-time/continuous monitoring
Leveraged Authorizations Demo with ATO as a Service™
Leveraged Authorizations to Operate (ATOs)

Q&A
Thank you! Any Questions?

• Let’s keep in touch! Here’s my contact Info:
  ➢ Jasson Walker, Jr.
  ➢ jasson.walker@cfocussoftware.com
  ➢ (301) 499-2650 office
  ➢ (301) 455-4030 mobile
  ➢ https://cfocussoftware.com