BlueJeans vRoom2

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

(OSCAL Webpage)

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Custom-solutions Focused. Customer Focused.

Leveraged Authorizations To Operate (ATOs)

3rd OSCAL Workshop
March 1, 2022

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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

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Introduction

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Leveraged Authorizations to Operate (ATOs)

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

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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

ATO as a **SERVICE**™

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What is a Leveraged Authorization?

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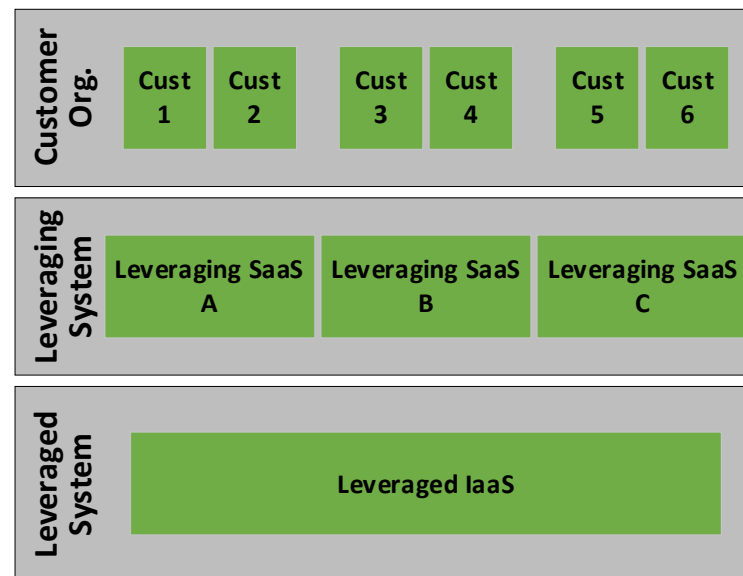
What is a Leveraged Authorization?

- ## 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

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What is a Leveraged Authorization?

- ## For example...

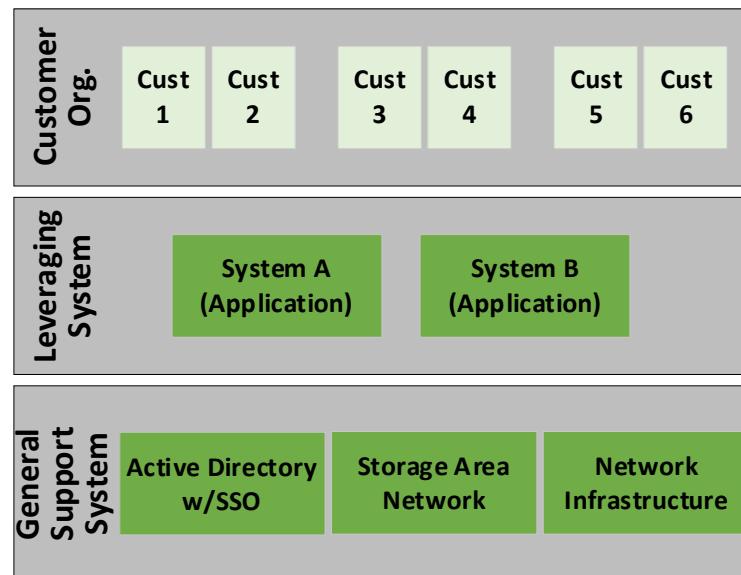 ➢ Amazon Web Services IaaS leveraged authorization for a SaaS

Cloud (SaaS on IaaS)

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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)

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What is a Leveraged Authorization?

- ## Leveraged authorization & leveraging system linked thru OSCAL (provided→inherited)

  ➢ Step 1: Update Leveraged Authorization SSP with provided object

```
  <p>Overall description of what is exportable to leveraging systems for AC-2, part a.</p>
</description>

<provided uuid="11111111-0000-4000-9009-002001002001">
    <description>
        <p>Consumer-appropriate description of what may be inherited.</p>
        <p>In the context of the application component in satisfaction of AC-2, part a.</p>
    </description>
    <responsible-role role-id="poc-for-customers" />
</provided>
```

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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

```xml
<component uuid="22222222-0000-4000-9001-000000000002" 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">22222222-0000-4000-9000-300000000001</prop>
    <prop name="inherited-uuid"      >11111111-0000-4000-9001-000000000001</prop>
    <status state="operational"/>
</component>
```

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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="22222222-0000-4000-9000-300000000001">
        <title>CSP IaaS [Leveraged System]</title>
        <link href="./oscal_csp-example_ssp.xml" rel="OSCAL-SSP-XML" />
        <party-uuid>22222222-0000-4000-9000-100000000002</party-uuid>
        <date-authorized>2018-01-01</date-authorized>
    </leveraged-authorization>
```

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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="11111111-0000-4000-9009-002001002001">
    <description>
        <p>Optional description.</p>
        <p><i>Possibly a duplicated description of what was inherited.</i></p>
        <p>Consumer-appropriate description of what may be inherited.</p>
        <p>In the context of the application component in satisfaction of AC-2, part a.</p>
    </description>
</inherited>
```

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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

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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.

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Benefits of OSCAL Leveraged Authorizations

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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

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Leveraged Authorizations Demo with ATO as a Service™

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Q&A

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Thank you! Any Questions?

- ## Let's keep in touch! Here's my contact Info:

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