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Automating Transition to NIST SP 800-53 Rev. 5 with OSCAL

3rd OSCAL Workshop
March 1, 2022

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Welcome! Here's the Agenda:

- Introduction

- Review of Requirement to Transition to NIST SP 800-53 Rev. 5

- Available OSCAL Tools To Help with Transition

- ATO as a Service™ Workflow to Transition to NIST SP 800-53 Rev. 5

- Q&A

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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

  ➤ Automates Risk Management Framework process (NIST SP 800-37 Rev. 2)

  ➤ 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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Review of Requirement to Transition to NIST SP 800-53 Rev. 5

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Requirement to Transition to NIST SP 800-53 Rev. 5

- NIST SP 800-53 Rev. 5 published September 23, 2020

  ➤ Updates published December 10, 2020

- NIST SP 800-53A Rev. 5 published January 25, 2022

- OMB A-130 states, "agencies to comply with NIST standards within one year of publication."

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Available OSCAL Tools To Help with Transition

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Available OSCAL Tools To Help with Transition

- **NIST has released NIST SP 800-53 Rev. 5 data in OSCAL format**

  ➢ NIST SP 800-53 Rev. 5 = NIST_SP-800-53_rev5_catalog

  ➢ NIST SP 800-53A Rev. 5 = NIST_SP-800-53_rev5_catalog

  ➢ NIST SP 800-53B = NIST_SP-800-53_rev5_LOW-baseline_profile,
    NIST_SP-800-53_rev5_MODERATE-baseline_profile,
    NIST_SP-800-53_rev5_HIGH-baseline_profile,
    NIST_SP-800-53_rev5_PRIVACY-baseline_profile

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Available OSCAL Tools To Help with Transition

- Furthermore, we can update and extend OSCAL models to incorporate Rev. 4→Rev. 5 transition data

- We have extended OSCAL data models in ATO as a Service to include Rev. 5 transition data

  ➢ NIST.SP.800-53r4-to-r5 Comparison Workbook

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Available OSCAL Tools To Help with Transition

Rev 5 Update	NIST SP 800-53 Rev 5 Controls	More than editorial or administrative change? (Y/N)	Changed Elements
ID	TITLE		
AC-1	(Access Control) Policy and Procedures	Y	Changes title Changes control text Adds control text Adds parameter Changes discussion Adds to Privacy Control Baseline (SP 800-53B)

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Available OSCAL Tools To Help with Transition

```json
{
  "name": "rev4-to-rev5-change-major",
  "ns": "https://cfocussoftware.com/ns/oscal",
  "value": "yes"
},
{

  "name": "rev4-to-rev5-change-elements",
  "ns": "https://cfocussoftware.com/ns/oscal",
  "value": [
    "Changes title",
    "Changes control text",
    "Adds control text",
    "Adds parameter",
    "Changes discussion",
    "Adds to Privacy Control Baseline (SP 80-53B)"
  ]
},
```

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ATO as a Service™ Workflow to Transition to NIST SP 800-53 Rev. 5

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Workflow to Transition to NIST SP 800-53 Rev. 5

- ATO as a Service™ utilizes OSCAL to automate the transition from NIST SP 800-53 Rev 4 to Rev. 5

ATO as a **SERVICE** ™

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Workflow to Transition to NIST SP 800-53 Rev. 5

- Step 1: Create custom converter from .doc/docx/.xls/.xlsx→OSCAL SSP file

- Step 2: Establish common controls, components & organization-defined values

- Step 3: Verify System Categorization & Security Control Selection

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Workflow to Transition to NIST SP 800-53 Rev. 5

- ## Step 4: Automatically mark as compliant all security controls with minor changes

  ➢ 491 NIST SP 800-53 Rev. 5 security controls (including withdrawn controls) have only minor changes

- ## Step 5: Evaluate each security control with major changes

- ## Step 6: Decide to implement control or auto-generate POA&M

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Q&A

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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

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