Parallel Track 3 - Day 2

Hosted By:  
- Jasson Walker, President & CEO, cFocus Software
- James Younger, CEO, Blackwire Technologies

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

NIST: oscal2021@nist.gov
FedRamp: info@fedramp.gov
Automating an ATO for a Blockchain System Using OSCAL

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

• Introduction

• Primer on Blockchain-based Secure Software Asset Management (BLOSS@M) System

• Automating BLOSS@M ATO Process Using OSCAL
  ➢ Leveraging Blockchain Technology for RMF/FedRAMP Continuous Monitoring

• 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)
Allow me to re-introduce myself, my name is...

• James Younger, CISSP
  ➢ CEO of Blackwire Technologies
  ➢ 15+ years in support of security accreditations, compliance and system development for emerging technologies
Introducing ATO as a Service™

- ATO as a Service™ is a SaaS that automates RMF/FedRAMP Authorizations using OSCAL
  - Incorporates OSCAL Catalog, Profile & Implementation layers
  - Automates RMF/FedRAMP authorization activities
Blockchain-based Secure Software Asset Management (BLOSS@M) Primer
BLOSS@M Primer

• BLOSS@M is a proof-of-concept application, demonstrating a federal asset management system through a permissioned Blockchain system

• It is a multi-agency system where member nodes serve as agency participants

• Allows for principles of ZeroTrust, multi-cloud deployments.

• Shared immutable ledger is ideal for multi-agency trust and transparency
BLOSS@M Primer - ATO

- **ATO** - Assess and Authorize BLOSS@M against FISMA requirements
- **OSCAL** - Implement OSCAL to support the ATO process and continuous monitoring requirements
- **Architecture** – Develop blockchain reference designs and governance models
Automating BLOSS@M ATO Process Using OSCAL
How do we obtain FISMA Compliance for BLOSS@M?

• Since BLOSS@M is a permissioned, interagency blockchain, participant agencies must agree on a shared trust model

• We document the trust model using reference architecture and open-source artifacts (e.g. Sovrin Governance Framework)

• Trust model reference architectures & artifacts must also be FISMA compliant
How do we obtain FISMA Compliance for BLOSS@M?

• Since blockchain is shared among participant agencies, FISMA compliance data & metadata must also be shared

• OSCAL is uniquely capable of sharing FISMA compliance data & metadata
Leveraging Blockchain for Continuous Monitoring
Leveraging Blockchain for RMF/FedRAMP ConMon

• A separate blockchain can be used to store the security state of a system using OSCAL data

• Through OSCAL changes to a system would automatically be updated and evaluated

• A system could then assess the security state of any member participants and allow/deny membership based on the system’s status
How do we obtain FISMA Compliance for BLOSS@M?

- OSCAL organizes security information into a stack of layers and models that build on each other
How do we obtain FISMA Compliance for BLOSS@M?

• Each OSCAL model is represented in machine readable formats for representing & exchanging data
How do we obtain FISMA Compliance for BLOSS@M?

- RMF/FedRAMP SSPs are represented by OSCAL SSP models

```json

```
How do we obtain FISMA Compliance for BLOSS@M?

- BLOSS@M components are represented by OSCAL component definition models
How do we obtain FISMA Compliance for BLOSS@M?

• We can create OSCAL component definitions for BLOSS@M components that contain NIST SP 800-53 control responses

• Each participant agency can import shared BLOSS@M component definitions that auto-populate their SSPs, saving time and cost
How do we obtain FISMA Compliance for BLOSS@M?

• **ATO as a Service™** automates SSP development using OSCAL SSP Implementation layer & models

• **ATO as a Service** enables importing OSCAL component definition data/metadata into an SSP
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/
Q&A
Thank you! Any Questions?

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