OSCAL Tools

Supporting OSCAL Development

NIST is Providing OSCAL Tools

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Supporting Innovation

Start developing quickly with OSCAL programming APIs.

Open Source

Content Conversion

Convert OSCAL content easily between XML, JSON, and YAML formats.

Flexibility

Content Editing

Browser based applications to support editing OSCAL content.

Minimal Footprint

libOSCAL-Java

https://github.com/usnistgov/liboscal-java/

libOSCAL-Java Features

1 **Constraint Validation**

Validates OSCAL content for well-formedness, checks cross-references, enforces value lists, etc.

2 **Multi-Format Parser**

Read and write OSCAL XML, JSON, and YAML to and from Java classes.

3 **Builders for Common Objects**

Provides builder classes for creating props, links, controls, etc.

4 **Profile Resolver**

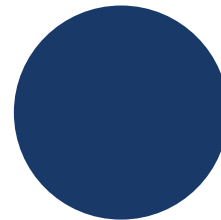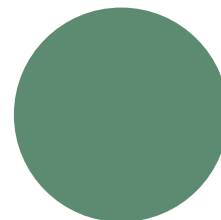Supports profile resolution based on the latest specification.

OSCAL Java-Based CLI

https://github.com/usnistgov/oscal-cli

OSCAL CLI Features

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Provides a command line interface (CLI) using libOSCAL-Java.

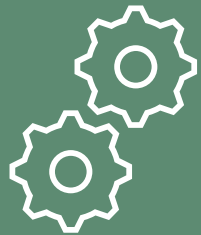Easily convert between XML, JSON, and YAML formats for all OSCAL models.

Write content in your favorite format.

Convert for use in other formats.

Quickly validate OSCAL content using OSCAL constraints (experimental)
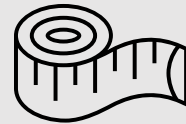
Resolve profiles

OSCAL CLI Live Demo

National Institute of
Standards and Technology
U.S. Department of Commerce

Additional Tools

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OSCAL Content CI/CD

Supports development of OSCAL content and models on GitHub.

https://github.com/usnistgov/OSCAL/tree/main/build

Deep Diff

Provides context sensitive differencing.

https://github.com/usnistgov/oscal-deep-diff/
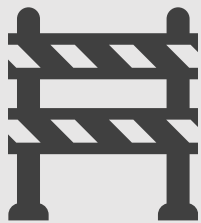
Additional Programming APIs

C#, Typescript/NodeJS

OSCAL-Cat

In browser Profile and Catalog authoring

How to Contribute?

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OSCAL is a community-driven effort.

Your participation directly impacts OSCAL's success.

https://github.com/usnistgov/OSCAL

https://pages.nist.gov/OSCAL/tools/

Integrate support for OSCAL in your tools using these open-source projects

Provide feedback on our existing tools

Develop additional tools

Contribute to the development of OSCAL tools on GitHub

Questions?

Contact us at: oscal@nist.gov

Chat with us on Gitter: https://gitter.im/usnistgov-OSCAL/Lobby

Collaborate with us on GitHub: https://github.com/usnistgov/OSCAL

Join our COI meetings: https://pages.nist.gov/OSCAL/contribute/#community-meetings

Join our OSCAL Developer List: https://pages.nist.gov/OSCAL/contact/#oscal-mailing-lists

Thank you!