OSCAL Tools
Supporting OSCAL Development
Start developing quickly with OSCAL programming APIs.

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

Browser based applications to support editing OSCAL content.

Open Source

Flexibility

Minimal Footprint
<table>
<thead>
<tr>
<th></th>
<th>libOSCAL-Java Features</th>
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<tbody>
<tr>
<td>1</td>
<td><strong>Constraint Validation</strong></td>
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<tr>
<td></td>
<td>Validates OSCAL content for well-formedness, checks cross-references, enforces value lists, etc.</td>
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<td>2</td>
<td><strong>Multi-Format Parser</strong></td>
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<td>Read and write OSCAL XML, JSON, and YAML to and from Java classes.</td>
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<td>3</td>
<td><strong>Builders for Common Objects</strong></td>
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<td>Provides builder classes for creating props, links, controls, etc.</td>
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<td>4</td>
<td><strong>Profile Resolver</strong></td>
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<td>Supports profile resolution based on the latest specification.</td>
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OSCAL Java-Based CLI

https://github.com/usnistgov/oscal-cli
OSCAL CLI Features

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
Additional Tools

- OSCAL Content CI/CD
  Supports development of OSCAL content and models on GitHub.

- Deep Diff
  Provides context sensitive differencing.
  [https://github.com/usnistgov/oscal-deep-diff/](https://github.com/usnistgov/oscal-deep-diff/)

- Additional Programming APIs
  C#, Typescript/NodeJS

- OSCAL-Cat
  In browser Profile and Catalog authoring
How to Contribute?

OSCAL is a community-driven effort.

Your participation directly impacts OSCAL’s success.

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

https://github.com/usnistgov/OSCAL

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