



OSLC Configuration Management Version 1.0. Part 4: RDF Vocabulary

OASIS Standard
23 July 2023

This stage:

<https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-vocab.html> (Authoritative)
<https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-vocab.pdf>

Previous stage:

<https://docs.oasis-open-projects.org/oslc-op/config/v1.0/ps01/config-vocab.html> (Authoritative)
<https://docs.oasis-open-projects.org/oslc-op/config/v1.0/ps01/config-vocab.pdf>

Latest stage:

<https://docs.oasis-open-projects.org/oslc-op/config/v1.0/config-vocab.html> (Authoritative)
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This specification is one component of a Work Product that also includes:

- OSLC Configuration Management Version 1.0. Part 1: Overview. <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/oslc-config-mgt.html>
- OSLC Configuration Management Version 1.0. Part 2: Versioned Resources. <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/versioned-resources.html>

- OSLC Configuration Management Version 1.0. Part 3: Configuration Specification. <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-resources.html>
- OSLC Configuration Management Version 1.0. Part 4: RDF Vocabulary (this document). <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-vocab.html>
- OSLC Configuration Management Version 1.0. Part 5: Machine Readable Vocabulary Terms. <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-vocab.ttl>
- OSLC Configuration Management Version 1.0. Part 6: Machine Readable Vocabulary Constraints. <https://docs.oasis-open-projects.org/oslc-op/config/v1.0/os/config-shapes.ttl>

RDF Namespaces:

<http://open-services.net/ns/config#>

Abstract:

OSLC Configuration Management RDF Vocabulary

Status:

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1. Introduction

This section is non-normative.

1.1 Typographical Conventions and Use of RFC Terms

As well as sections marked as non-normative, all authoring guidelines, diagrams, examples, and notes in this specification are non-normative. Everything else in this specification is normative.

The key words "**MUST**", "**MUST NOT**", "**REQUIRED**", "**SHALL**", "**SHALL NOT**", "**SHOULD**", "**SHOULD NOT**", "**RECOMMENDED**", "**NOT RECOMMENDED**", "**MAY**", and "**OPTIONAL**" in this specification are to be interpreted as described in [BCP 14](#) [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

1.2 References

1.2.1 Normative references

[RFC2119]

S. Bradner. [Key words for use in RFCs to Indicate Requirement Levels](#). IETF, March 1997. Best Current Practice. URL: <https://www.rfc-editor.org/rfc/rfc2119>

[RFC8174]

B. Leiba. [Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words](#). IETF, May 2017. Best Current Practice. URL: <https://www.rfc-editor.org/rfc/rfc8174>

2. RDF Vocabulary

2.1 Vocabulary Details

The namespace URI for this vocabulary is: <http://open-services.net/ns/config#>

The OSLC Configuration Management vocabulary defines terms for versioned resources and configurations of those versioned resources.

2.1.1 Classes in this namespace (15)

[Activity](#), [Baseline](#), [ChangeSet](#), [ChangeSetSelections](#), [Component](#), [Configuration](#), [ConfigurationSettings](#), [Contribution](#), [PersonalConfiguration](#), [RemovalAll](#), [Removals](#), [Selections](#), [Stream](#), [UnboundSelections](#), [VersionResource](#)

Activity

<http://open-services.net/ns/config#Activity>

Activity is an RDFS class.

An activity is a read-only resource representing a long-running operation, such as recursive baseline or stream creation.

Baseline

<http://open-services.net/ns/config#Baseline>

Baseline is an RDFS class.

An immutable configuration with immutable selections of immutable resources, with immutable contributions that are themselves baselines.

ChangeSet

<http://open-services.net/ns/config#ChangeSet>

ChangeSet is an RDFS class.

A change set configuration represents a set of changes (including additions and removals) to some other configuration.

ChangeSetSelections

<http://open-services.net/ns/config#ChangeSetSelections>

ChangeSetSelections is an RDFS class.

A resource listing the version resources selected by a change set configuration.

Component

<http://open-services.net/ns/config#Component>

Component is an RDFS class.

A unit of organization consisting of a set of versioned resources. Components are the units of configurability, and form reusable assets or building blocks.

Configuration

<http://open-services.net/ns/config#Configuration>

Configuration is an RDFS class.

A configuration identifies a set of versions of resources in a component. Configurations commonly identify exactly one version of each resource in a component. Configurations can also assemble other configurations into a shared context across multiple components.

ConfigurationSettings

<http://open-services.net/ns/config#ConfigurationSettings>

ConfigurationSettings is an RDFS class.

Information about settings and preferences for a Configuration Management service.

Contribution

<http://open-services.net/ns/config#Contribution>

Contribution is an RDFS class.

A contribution represents the contribution of one configuration to another.

PersonalConfiguration

<http://open-services.net/ns/config#PersonalConfiguration>

PersonalConfiguration is an RDFS class.

A configuration intended for use by a single agent, rather than shared.

RemovalAll

<http://open-services.net/ns/config#RemoveAll>

RemovalAll is an RDFS class.

For a change set, an indicator that all selections in the overridden configuration are to be ignored; all selections are defined by the change set.

Removals

<http://open-services.net/ns/config#Removals>

Removals is an RDFS class.

For a change set, the selections to be removed from an overridden configuration.

Selections

<http://open-services.net/ns/config#Selections>

Selections is an RDFS class.

A resource listing the version resources selected by a configuration.

Stream

<http://open-services.net/ns/config#Stream>

Stream is an RDFS class.

A mutable configuration. Contributions to this configuration can be streams or baselines.

UnboundSelections

<http://open-services.net/ns/config#UnboundSelections>

UnboundSelections is an RDFS class.

An indicator that a set of selections are as-yet unbound concept resources as opposed to bound version resources.

VersionResource

<http://open-services.net/ns/config#VersionResource>

VersionResource is an RDFS class.

This type is used as a marker for any version resource.

2.1.2 Properties in this namespace (23)

[acceptedBy](#), [accepts](#), [baselineOfStream](#), [baselines](#), [branch](#), [committed](#), [committer](#), [component](#), [configuration](#), [configurations](#), [configurationSettings](#), [contribution](#), [contributionOrder](#), [derivedFrom](#), [mutable](#), [overrides](#), [previousBaseline](#), [progressMessage](#), [release](#), [selections](#), [selects](#), [streams](#), [versionId](#)

acceptedBy

<http://open-services.net/ns/config#acceptedBy>

acceptedBy is an RDF property.

A type of configuration accepted as a contribution by the subject configuration.

accepts

<http://open-services.net/ns/config#accepts>

accepts is an RDF property.

A type of configuration acceptable as a contribution to the subject configuration.

baselineOfStream

<http://open-services.net/ns/config#baselineOfStream>

baselineOfStream is an RDF property.

The stream from which a baseline was made.

baselines

<http://open-services.net/ns/config#baselines>

baselines is an RDF property.

A Linked Data Platform Container for baselines of a stream.

branch

<http://open-services.net/ns/config#branch>

branch is an RDF property.

Identifies a resource as one for a specific branch or variant of the component.

committed

<http://open-services.net/ns/config#committed>

committed is an RDF property.

Date and time a resource was committed, or checked in.

committer

<http://open-services.net/ns/config#committer>

committer is an RDF property.

The entity that committed or checked in this resource.

component

<http://open-services.net/ns/config#component>

component is an RDF property.

A reference to a Component resource.

configuration

<http://open-services.net/ns/config#configuration>

configuration is an RDF property.

A reference to a Configuration resource.

configurations

<http://open-services.net/ns/config#configurations>

configurations is an RDF property.

A Linked Data Platform Container for configurations of a component.

configurationSettings

<http://open-services.net/ns/config#configurationSettings>

configurationSettings is an RDF property.

A reference to information about settings and preferences for a Configuration Management service.

contribution

<http://open-services.net/ns/config#contribution>

contribution is an RDF property.

A reference to a Contribution resource.

contributionOrder

<http://open-services.net/ns/config#contributionOrder>

contributionOrder is an RDF property.

The ordering value for a contribution.

derivedFrom *(Archaic term)*

<http://open-services.net/ns/config#derivedFrom>

derivedFrom is an RDF property.

A resource from which this resource was derived; the use of `prov:wasDerivedFrom` is preferred.

mutable *(Archaic term)*

<http://open-services.net/ns/config#mutable>

mutable is an RDF property.

A boolean property indicating whether or not a resource is modifiable; replaced by use of `Baseline` and `Stream` types.

overrides

<http://open-services.net/ns/config#overrides>

overrides is an RDF property.

A reference to a configuration modified by a change set configuration.

previousBaseline

<http://open-services.net/ns/config#previousBaseline>

previousBaseline is an RDF property.

For a stream or a baseline, a link to the most recent baseline of the same stream.

progressMessage

<http://open-services.net/ns/config#progressMessage>

progressMessage is an RDF property.

Text describing the progress of an operation.

release

<http://open-services.net/ns/config#release>

release is an RDF property.

A reference to a resource representing a release.

selections

<http://open-services.net/ns/config#selections>

selections is an RDF property.

A reference to a Selections resource.

selects

<http://open-services.net/ns/config#selects>

selects is an RDF property.

A reference to a selected version resource.

streams

<http://open-services.net/ns/config#streams>

streams is an RDF property.

A Linked Data Platform Container for streams created from a baseline.

versionId

<http://open-services.net/ns/config#versionId>

versionId is an RDF property.

A human-readable version identifier.

2.1.3 Resources (Individuals) in this namespace (1)

[globalConfigurationService](#)

globalConfigurationService

<http://open-services.net/ns/config#globalConfigurationService>

globalConfigurationService is an RDF individual.

An `oslc:usage` value marking a global configuration service.

3. Conformance

OSLC Configuration Management Servers **MUST** use the vocabulary terms defined here where required, and with the meanings defined here. Servers **MAY** augment this vocabulary with additional terms. [\[config-vocab-1\]](#)