# **OASISOPENPROJECTS**

# OSLC Change Management Version 3.0. Part 2: Vocabulary

# OASIS Standard 26 May 2021

#### This stage:

https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.html (Authoritative) https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.pdf

#### Previous stage:

https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-vocab.html (Authoritative) https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-vocab.pdf (published as Project Specification on 17 September 2020)

#### Latest stage:

https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/change-mgt-vocab.html (Authoritative) https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/change-mgt-vocab.pdf

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https://open-services.net/spec/cm/latest

#### Latest editor's draft:

https://open-services.net/spec/cm/latest-draft

#### **Open Project:**

OASIS Open Services for Lifecycle Collaboration (OSLC) OP

#### **Project Chairs:**

Jim Amsden (jamsden@us.ibm.com), IBM Andrii Berezovskyi (andriib@kth.se), KTH

#### **Editors:**

Jim Amsden (jamsden@us.ibm.com), IBM Samuel Padgett (spadgett@us.ibm.com), IBM Steve Speicher (sspeiche@us.ibm.com), IBM

#### **Additional components:**

This specification is one component of a Work Product that also includes:

OSLC Change Management Version 3.0. Part 1: Specification. <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-spec.html">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-spec.html</a>

- OSLC Change Management Version 3.0. Part 2: Vocabulary (this document). <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.html">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.html</a>
- OSLC Change Management Version 3.0. Part 3: Constraints. <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-shapes.html">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-shapes.html</a>
- OSLC Change Management Version 3.0. Part 4: Machine Readable Vocabulary Terms. <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.ttl">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.ttl</a>
- OSLC Change Management Version 3.0. Part 5: Machine Readable Constraints. <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-shapes.ttl">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-shapes.ttl</a>

#### Related work:

This specification is related to:

Open Services for Lifecycle Collaboration Change Management Specification Version 2.0. <a href="http://open-services.net/bin/view/Main/CmSpecificationV2">http://open-services.net/bin/view/Main/CmSpecificationV2</a>

#### **RDF Namespaces:**

http://open-services.net/ns/cm#

#### Abstract:

This specification defines vocabulary terms for the Change Management domain.

#### Status:

This document was last revised or approved by the membership of OASIS on the above date. The level of approval is also listed above. Check the "Latest stage" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Open Project are listed at <a href="https://github.com/oslc-op/oslc-specs">https://github.com/oslc-op/oslc-specs</a>.

Comments on this work can be provided by opening issues in the project repository or by sending email to the project's public comment list oslc-op@lists.oasis-open-projects.org.

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#### Citation format:

When referencing this specification the following citation format should be used:

#### [OSLC-CM-3.0-Part2]

OSLC Change Management Version 3.0. Part 2: Vocabulary. Edited by Jim Amsden, Samuel Padgett, and Steve Speicher. 26 May 2021. OASIS Standard. <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.html">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/os/change-mgt-vocab.html</a>. Latest stage: <a href="https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/change-mgt-vocab.html">https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/change-mgt-vocab.html</a>.

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#### 1. Introduction

This section is non-normative.

This specification defines vocabulary terms for common Change Management resources. The intent is to define resources needed to support common integration scenarios and not to provide a comprehensive definition of a Change Request. The resource formats may not match exactly the native models supported by change management service providers, but are intended to be compatible with them. The approach to supporting these scenarios is to delegate operations, as driven by service provider contributed user interfaces, as much as possible and not require a service provider to expose its complete data model and application logic.

See OSLC Change Management Version 3.0. Part 5: Machine Readable Constraints for the standard OSLC constraints defined on this vocabulary.

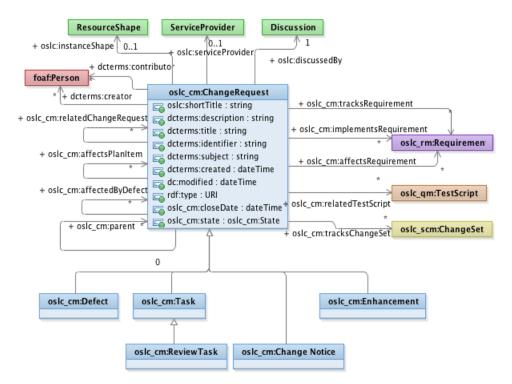


Fig. 1 OSLC Change Management 3.0 Overview

#### 1.1 Terminology

Terminology is based on OSLC Core Overview [OSLCCore3], W3C Linked Data Platform [LDP], W3C's Architecture of the World Wide Web [WEBARCH], Hyper-text Transfer Protocol [HTTP11].

#### 1.2 References

#### 1.2.1 Normative references

#### [HTTP11]

R. Fielding, Ed.; J. Reschke, Ed.: <u>Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</u>. IETF, June 2014. Proposed Standard. URL: <a href="https://httpwg.org/specs/rfc7230.html">https://httpwg.org/specs/rfc7230.html</a>

#### [LDP]

Steve Speicher; John Arwe; Ashok Malhotra. *Linked Data Platform 1.0*. W3C, 26 February 2015. W3C Recommendation. URL: <a href="https://www.w3.org/TR/ldp/">https://www.w3.org/TR/ldp/</a>

#### [OSLCCore3]

Steve Speicher; Jim Amsden. <u>OSLC Core Overviewv3.0</u>. OASIS. Project Specification. URL: <u>https://docs.oasis-open.org/oslc-core/v3.0/oslc-core-v3.0-part1-overview.html</u>

#### [RFC2119]

S. Bradner. Key words for use in RFCs to Indicate Requirement Levels. IETF, March 1997. Best Current Practice. URL: https://datatracker.ietf.org/doc/html/rfc2119

#### [RFC8174]

B. Leiba. Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words. IETF, May 2017. Best Current Practice. URL: https://datatracker.ietf.org/doc/html/rfc8174

#### 1.2.2 Informative references

#### [OSLCQM]

Paul McMahan. <u>Open Services for Lifecycle Collaboration Quality Management Specification Version 2.0</u>. http://openservices.net. Final. URL: http://open-services.net/bin/view/Main/QmSpecificationV2

#### [OSLCRM]

lan Green. <u>Open Services for Lifecycle Collaboration Requirements Management Specification Version 2.0</u>. http://open-services.net. Final. URL: <u>http://open-services.net/bin/view/Main/RmSpecificationV2</u>

#### [WEBARCH]

lan Jacobs; Norman Walsh. <u>Architecture of the World Wide Web, Volume One</u>. W3C, 15 December 2004. W3C Recommendation. URL: <a href="https://www.w3.org/TR/webarch/">https://www.w3.org/TR/webarch/</a>

#### 1.3 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.

In addition to the namespace URIs and namespace prefixes oslc, rdf, dcterms and foaf defined in the OSLC Core specification, OSLC CM defines the namespace URI of http://open-services.net/ns/cm# with a namespace prefix of oslc\_cm

This specification also uses these namespace prefix definitions:

- oslc rm:http://open-services.net/ns/rm#[OSLCRM]
- oslc qm:http://open-services.net/ns/qm#[OSLCQM]

# 2. Change Management Vocabulary Terms

This specification defines the ChangeRequest superclass, and a number of specific, commonly occurring subclasses, properties and values. Servers may define additional ChangeRequest subclasses and provide additional properties as needed.

#### 2.1 Vocabulary Details

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

All vocabulary URIs defined in the OSLC Change Management (CM) namespace.

#### 2.1.1 Classes in this namespace (9)

ChangeNotice, ChangeRequest, Defect, Enhancement, Priority, ReviewTask, Severity, State, Task

#### ChangeNotice

http://open-services.net/ns/cm#ChangeNotice

ChangeNotice is an RDFS class.

Represents an assignment notification of a change request. May be used also to bestow authority onto the assigned user to effect the changes.

#### ChangeRequest

http://open-services.net/ns/cm#ChangeRequest

ChangeRequest is an RDFS class.

The CM Change Request resource.

#### Defect

http://open-services.net/ns/cm#Defect

Defect is an RDFS class.

A software or product defect.

#### **Enhancement**

http://open-services.net/ns/cm#Enhancement

Enhancement is an RDFS class.

A request for new functionality.

#### **Priority**

http://open-services.net/ns/cm#Priority

Priority is an RDFS class.

Defines the possible oslc\_cm:priority property values.

#### ReviewTask

http://open-services.net/ns/cm#ReviewTask

ReviewTask is an RDFS class.

A request to make a change and review the change.

#### Severity

http://open-services.net/ns/cm#Severity

Severity is an RDFS class.

Defines the possible oslc\_cm:severity property values.

#### State

http://open-services.net/ns/cm#State

State is an RDFS class.

Defines the possible oslc\_cm:state property values.

#### Task

http://open-services.net/ns/cm#Task

Task is an RDFS class.

An executable and trackable activity.

#### 2.1.2 Properties in this namespace (27)

affectedByDefect, affectsPlanltem, affectsRequirement, affectsTestResult, approved, authorizer, blocksTestExecutionRecord, closed, closeDate, fixed, implementsRequirement, inProgress, parent, priority, relatedChangeRequest, relatedTestCase, relatedTestExecutionRecord, relatedTestPlan, relatedTestScript, reviewed, severity, state, status, testedByTestCase, tracksChangeSet, tracksRequirement, verified

#### affectedByDefect

http://open-services.net/ns/cm#affectedByDefect

affectedByDefect is an RDF property.

Change request is affected by a reported defect. It is likely that the target resource will be an oslc cm:Defect.

#### affectsPlanItem

http://open-services.net/ns/cm#affectsPlanItem

affectsPlanItem is an RDF property.

Change request affects a plan item. It is likely that the target resource will be an oslc cm:ChangeRequest.

#### affectsRequirement

http://open-services.net/ns/cm#affectsRequirement

affectsRequirement is an RDF property.

The ChangeRequest affects a Requirement. It is likely that the target resource will be an oslc\_rm:Requirement.

#### affectsTestResult (Archaic term)

http://open-services.net/ns/cm#affectsTestResult

affectsTestResult is an RDF property.

Associated resource that is affected by this Change Request. It is likely that the target resource will be an oslc\_qm:TestResult.

#### approved

http://open-services.net/ns/cm#approved

approved is an RDF property.

Whether or not the Change Request has been approved.

#### authorizer

http://open-services.net/ns/cm#authorizer

authorizer is an RDF property.

The URI of a resource describing an agent who is responsible authorizing for and/or has authorized effort to be expended to address a set of change requests.

#### blocksTestExecutionRecord (Archaic term)

http://open-services.net/ns/cm#blocksTestExecutionRecord

blocksTestExecutionRecord is an RDF property.

Associated resource that is blocked by this Change Request. It is likely that the target resource will be an oslc\_qm:TestExecutionRecord.

#### closed

http://open-services.net/ns/cm#closed

closed is an RDF property.

Whether or not the Change Request is completely done, no further fixes or fix verification is needed.

#### closeDate

http://open-services.net/ns/cm#closeDate

closeDate is an RDF property.

The date at which no further activity or work is intended to be conducted.

#### fixed

http://open-services.net/ns/cm#fixed

fixed is an RDF property.

Whether or not the Change Request has been fixed.

#### implementsRequirement

http://open-services.net/ns/cm#implementsRequirement

implementsRequirement is an RDF property.

The ChangeRequest implements the associated Requirement. It is likely that the target resource will be an oslc rm:Requirement.

#### inProgress

http://open-services.net/ns/cm#inProgress

inProgress is an RDF property.

Whether or not the Change Request in a state indicating that active work is occurring.

#### parent

http://open-services.net/ns/cm#parent

parent is an RDF property.

The related parent change requests of the subject change request.

#### priority

http://open-services.net/ns/cm#priority

priority is an RDF property.

Used to indicate the relative importance of ChangeRequests. It is likely that the target resource will be an oslc\_cm:Priority.

#### relatedChangeRequest

http://open-services.net/ns/cm#relatedChangeRequest

relatedChangeRequest is an RDF property.

This relationship is loosely coupled, has no specific meaning, and can be used to link related change requests. It is likely that the target resource will be an oslc\_cm:ChangeRequest.

#### relatedTestCase (Archaic term)

http://open-services.net/ns/cm#relatedTestCase

relatedTestCase is an RDF property.

Related test case resource. It is likely that the target resource will be an oslc\_qm:TestCase.

#### relatedTestExecutionRecord (Archaic term)

http://open-services.net/ns/cm#relatedTestExecutionRecord

relatedTestExecutionRecord is an RDF property.

Related to a test execution resource. It is likely that the target resource will be an oslc qm:TestExecutionRecord.

#### relatedTestPlan (Archaic term)

http://open-services.net/ns/cm#relatedTestPlan

relatedTestPlan is an RDF property.

Related test plan resource. It is likely that the target resource will be an oslc gm:TestPlan.

#### relatedTestScript (Archaic term)

http://open-services.net/ns/cm#relatedTestScript

relatedTestScript is an RDF property.

Related test script resource. It is likely that the target resource will be an oslc qm:TestScript.

#### reviewed

http://open-services.net/ns/cm#reviewed

reviewed is an RDF property.

Whether or not the Change Request has been reviewed.

#### severity

http://open-services.net/ns/cm#severity

severity is an RDF property.

Used to indicate the severity or potential impact of a defect. It is likely that the target resource will be an oslc\_cm:Severity.

#### state

http://open-services.net/ns/cm#state

state is an RDF property.

Used to indicate the status of the change request.

#### status (Archaic term)

http://open-services.net/ns/cm#status

status is an RDF property.

Used to indicate the status of the change request based on values defined by the service provider. Most often a read-only property. It is likely that the target resource will be a string corresponding to an oslc\_cm:State value.

#### testedByTestCase (Archaic term)

http://open-services.net/ns/cm#testedByTestCase

testedByTestCase is an RDF property.

Test case by which this change request is tested. It is likely that the target resource will be an oslc qm:TestCase.

#### tracksChangeSet

http://open-services.net/ns/cm#tracksChangeSet

tracksChangeSet is an RDF property.

Tracks a change set resource. It is likely that the target resource will be an oslc\_config:ChangeSet.

#### tracksRequirement

http://open-services.net/ns/cm#tracksRequirement

tracksRequirement is an RDF property.

Tracks the associated Requirement or Requirement ChangeSet resources. It is likely that the target resource will be an oslc\_rm:Requirement.

#### verified

http://open-services.net/ns/cm#verified

verified is an RDF property.

Whether or not the resolution or fix of the Change Request has been verified.

#### 2.1.3 Resources (Individuals) in this namespace (20)

approved, Blocker, closed, Critical, defect, fixed, High, inprogress, Low, Major, Medium, Minor, Normal, planttem, PriorityUnassigned, requirementsChangeRequest, reviewed, SeverityUnassigned, task, verified

#### approved

http://open-services.net/ns/cm#Approved

approved is an RDF individual.

Whether or not the Change Request has been approved.

#### **Blocker**

http://open-services.net/ns/cm#Blocker

Blocker is an RDF individual.

Severe problem. No workaround. Blocks development, test, or usage.

#### closed

http://open-services.net/ns/cm#Closed

closed is an RDF individual.

Whether or not the Change Request is completely done, no further fixes or fix verification is needed.

#### Critical

http://open-services.net/ns/cm#Critical

Severe problem. No workaround. defect http://open-services.net/ns/cm#defect defect is an RDF individual. Used to report defects in testing. fixed http://open-services.net/ns/cm#Fixed fixed is an RDF individual. Whether or not the Change Request has been fixed. High http://open-services.net/ns/cm#High High is an RDF individual. Highest priority, action on the change request highly recommended. inprogress http://open-services.net/ns/cm#Inprogress inprogress is an RDF individual. Whether or not the Change Request in a state indicating that active work is occurring. Low http://open-services.net/ns/cm#Low Lowis an RDF individual. Action on the change request can be safely deferred. Major http://open-services.net/ns/cm#Major Major is an RDF individual. Prevents function from being used. There is a workaround. Medium http://open-services.net/ns/cm#Medium Medium is an RDF individual.

Acting on the change request can wait, but not forever.

Critical is an RDF individual.

#### Minor

http://open-services.net/ns/cm#Minor

Minor is an RDF individual.

Minimal impact.

#### Normal

http://open-services.net/ns/cm#Normal

Normal is an RDF individual.

Affects non-critical functionality. There is a workaround.

#### planitem

http://open-services.net/ns/cm#planltem

planItem is an RDF individual.

Used for associating change requests into plans (project, release, sprint, etc).

#### **PriorityUnassigned**

http://open-services.net/ns/cm#PriorityUnassigned

PriorityUnassigned is an RDF individual.

The priority of the change request is intentionally not set.

#### requirementsChangeRequest

http://open-services.net/ns/cm#requirementsChangeRequest

requirementsChangeRequest is an RDF individual.

Used for associating a change request for usage in tracking changes to a Requirements resource.

#### reviewed

http://open-services.net/ns/cm#Reviewed

reviewed is an RDF individual.

Whether or not the Change Request has been reviewed.

#### SeverityUnassigned

http://open-services.net/ns/cm#SeverityUnassigned

SeverityUnassigned is an RDF individual.

The severity of the change request is intentionally not set.

#### task

http://open-services.net/ns/cm#task

task is an RDF individual.

Used for associating change requests into executable and track-able items.

#### verified

http://open-services.net/ns/cm#Verified

verified is an RDF individual.

Whether or not the resolution or fix of the Change Request has been verified.

#### 3. Standard Enumeration Values

The Change Management specification defines a number of standard enumeration values for ChangeRequest state, priority and severity. Servers are not limited to these values, they are only provided to establish a common set of values that facilitate interoperability.

Providers MAY have custom state, priority and severity values.

Providers **SHOULD** use **skos:narrower** when custom state, priority or severity values refine standard values to help clients understand the meaning of custom values.

Providers SHOULD NOT use owl:sameAs when custom state, priority or severity values refine standard values.

Priority and severity example:

#### Example 1

```
@prefix ex: <http://example.com/bugtracker> .
@prefix oslc: <http://open-services.net/ns/core#> .
@prefix oslc_cm: <http://open-services.net/ns/cm#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix skos: <http://www.w3.org/2004/02/skos/core> .
<a href="http://example.com/bugs/2314">http://example.com/bugs/2314</a>
   a oslc cm:Defect;
   dcterms:identifier "00002314";
   oslc:shortTitle "Bug 2314" ;
   dcterms:title "Invalid installation instructions";
   oslc cm:priority oslc cm:High ;
   oslc cm:severity <a href="http://example.com/enums#S1">http://example.com/enums#S1>".">http://example.com/enums#S1>"."
<http://example.com/enums#HOT>
   a oslc cm:Severity;
   rdfs:label "Severe - HOT";
   skos:narrower oslc cm:Critical;
   ex:icon <a href="http://example.com/severity/S1.gif">http://example.com/severity/S1.gif</a>>.
```

#### 3.1 Resource: State

Defines a set of standard values for property oslc\_cm:status.

• Name: state

• Type URI http://open-services.net/ns/cm#State

Range	Description
oslc_cm:Closed	Completely done, no further fixes or fix verification is needed.
oslc_cm:Inprogress	Active work is occurring.
oslc_cm:Fixed	The issue is resolved or fixed but the resolution or fix has not yet been verified.
oslc_cm:Approved	The resolution or fix is approved and can be delivered.
oslc_cm:Reviewed	The resolution or fix has been reviewed.
oslc_cm:Verified	The resolution or the fix is verified.

#### 3.2 Resource: Priority

Name: Priority

• Type URI http://open-services.net/ns/cm#Priority

Range	Description
oslc_cm:High	Highest priority, action on the change request highly recommended.
oslc_cm:Medium	Acting on the change request can wait, but not forever.
oslc_cm:Low	Action on the change request can be safely deferred.
oslc_cm:PriorityUnassigned	The priority of the change request is intentionally not set.

### 3.3 Resource: Severity

• Name: Severity

• Type URI http://open-services.net/ns/cm#Severity

**NEEDS UPDATE**: Improve descriptions.

Range	Description
oslc_cm:Blocker	Severe problem. No workaround. Blocks development, test, or usage.
oslc_cm:Critical	Severe problem. No workaround.
oslc_cm:Major	Prevents function from being used. There is a workaround.
oslc_cm:Normal	Affects non-critical functionality. There is a workaround.
oslc_cm:Minor	Minimal impact.
oslc_cm:SeverityUnassigned	Intentionally set blank.

# 4. Conformance

Change Management servers **MUST** use the vocabulary terms defined here where required, and with the meanings defined here.

Change Management servers MAY augment this vocabulary with additional classes, properties, and individuals.