OSLC Change Management Version 3.0. Part 2: Vocabulary

OASIS Standard with Approved Errata 01
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This specification is one component of a Work Product that also includes:

Abstract:
This document includes approved errata, as described in OSLC Change Management Version 3.0. Part 1: Specification, Appendix C. Errata.

This specification defines vocabulary terms for the Change Management domain.

Status:
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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.

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]
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
- affectsPlanItem
- 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 is an RDF property.
The ChangeRequest affects a Requirement. It is likely that the target resource will be an oslc_rm:Requirement.

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

approved is an RDF property.
Whether or not the Change Request has been approved.

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

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

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

closeDate

closeDate is an RDF property.
The date at which no further activity or work is intended to be conducted.

fixed

fixed is an RDF property.
*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**

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**

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

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_qm:TestPlan.

relatedTestScript

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

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, planItem, 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
Critical is an RDF individual.
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
Low is 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.
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#planItem

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:

```plaintext
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`

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

3.2 Resource: Priority
```
• Name: Priority
• Type URI: http://open-services.net/ns/cm#Priority

<table>
<thead>
<tr>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>oslc_cm:High</td>
<td>Highest priority, action on the change request highly recommended.</td>
</tr>
<tr>
<td>oslc_cm:Medium</td>
<td>Acting on the change request can wait, but not forever.</td>
</tr>
<tr>
<td>oslc_cm:Low</td>
<td>Action on the change request can be safely deferred.</td>
</tr>
<tr>
<td>oslc_cm:PriorityUnassigned</td>
<td>The priority of the change request is intentionally not set.</td>
</tr>
</tbody>
</table>

3.3 Resource: Severity

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

NEEDS UPDATE: Improve descriptions.

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