OSLC Change Management Version 3.0. Part 2: Vocabulary

Committee Specification ~~01~~02

~~08 June~~24 August 2018

Specification URIs

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http://docs.oasis-open.org/oslc-domains/cm/v3.0/cs02/part2-change-mgt-vocab/cm-v3.0-cs02-part2-change-mgt-vocab.pdf

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

- *OSLC Change Management Version 3.0. Part 1: Specification*. http://docs.oasis-open.org/oslc-domains/cm/v3.0/cs02/part1-change-mgt/cm-v3.0-cs02-part1-change-mgt.html
- *OSLC Change Management Version 3.0. Part 2: Vocabulary (this document)*. http://docs.oasis-open.org/oslc-domains/cm/v3.0/cs02/part2-change-mgt-vocab/cm-v3.0-cs02-part2-change-mgt-vocab.html

Related work:

This specification is related to:

- *Open Services for Lifecycle Collaboration Change Management Specification Version 2.0*~~,~~. http://open-services.net/bin/view/Main/CmSpecificationV2

RDF Namespaces:

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

Abstract:

This specification defines a vocabulary and resource shapes for the Change Management domain.

Status:

This document was last revised or approved by the OASIS OSLC Lifecycle Integration Domains TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=oslc-domains#technical.

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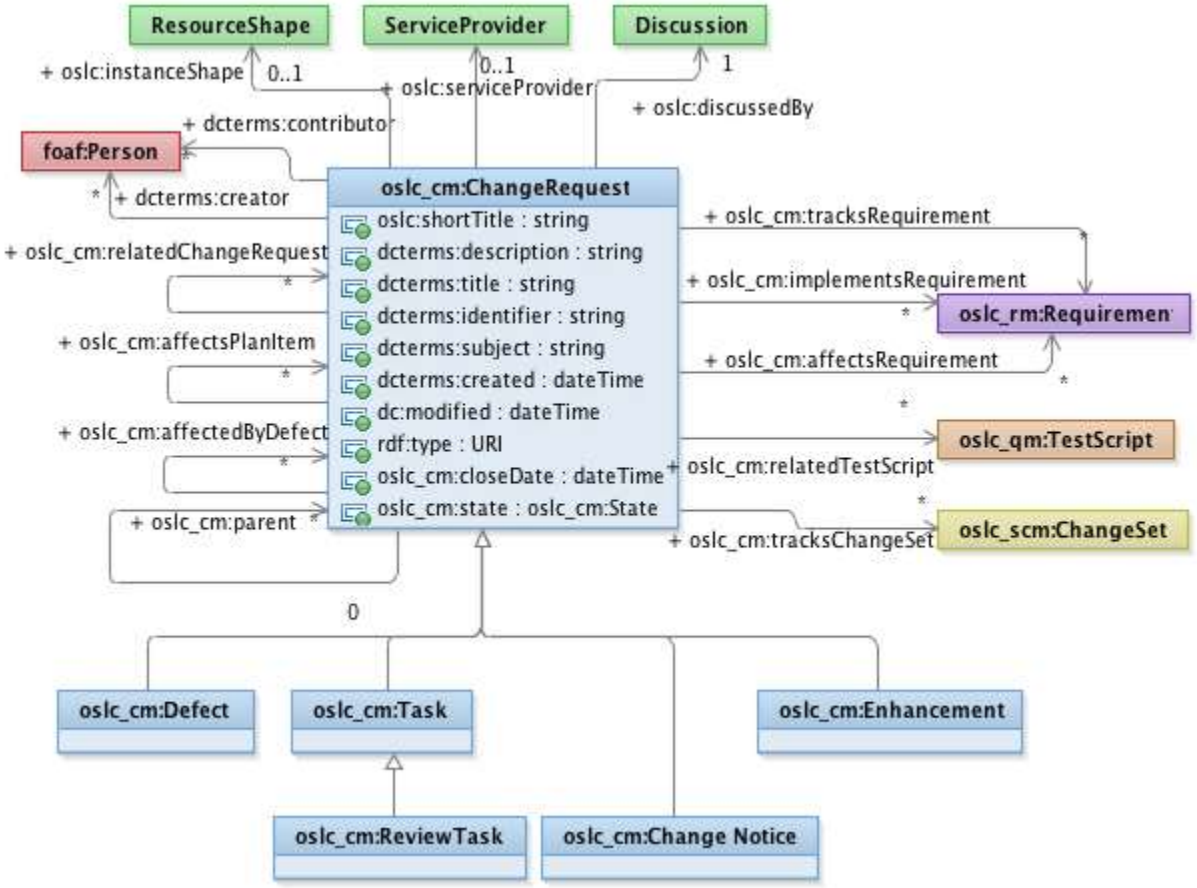
1. Introduction

This section is non-normative.

This specification defines a vocabulary and resource shapes 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.


ResourceShape
ServiceProvider
Discussion
+ oslc:instanceShape
0..1
0..1
1
+ oslc:serviceProvider
+ oslc:discussedBy
+ dcterms:contributor
foaf:Person
oslc_cm:ChangeRequest
oslc:shortTitle : string
dcterms:description : string
dcterms:title : string
dcterms:identifier : string
dcterms:subject : string
dcterms:created : dateTime
dc:modified : dateTime
rdf:type : URI
oslc_cm:closeDate : dateTime
oslc_cm:state : oslc_cm:State
+ dcterms:creator
+ oslc_cm:tracksRequirement
+ oslc_cm:relatedChangeRequest
+ oslc_cm:implementsRequirement
oslc_rm:Requiremen
+ oslc_cm:affectsPlanItem
+ oslc_cm:affectsRequirement
+ oslc_cm:affectedByDefect
oslc_qm:TestScript
+ oslc_cm:relatedTestScript
+ oslc_cm:parent
oslc_scm:ChangeSet
+ oslc_cm:tracksChangeSet
0
oslc_cm:Defect
oslc_cm:Task
oslc_cm:Enhancement
oslc_cm:ReviewTask
oslc_cm:Change Notice

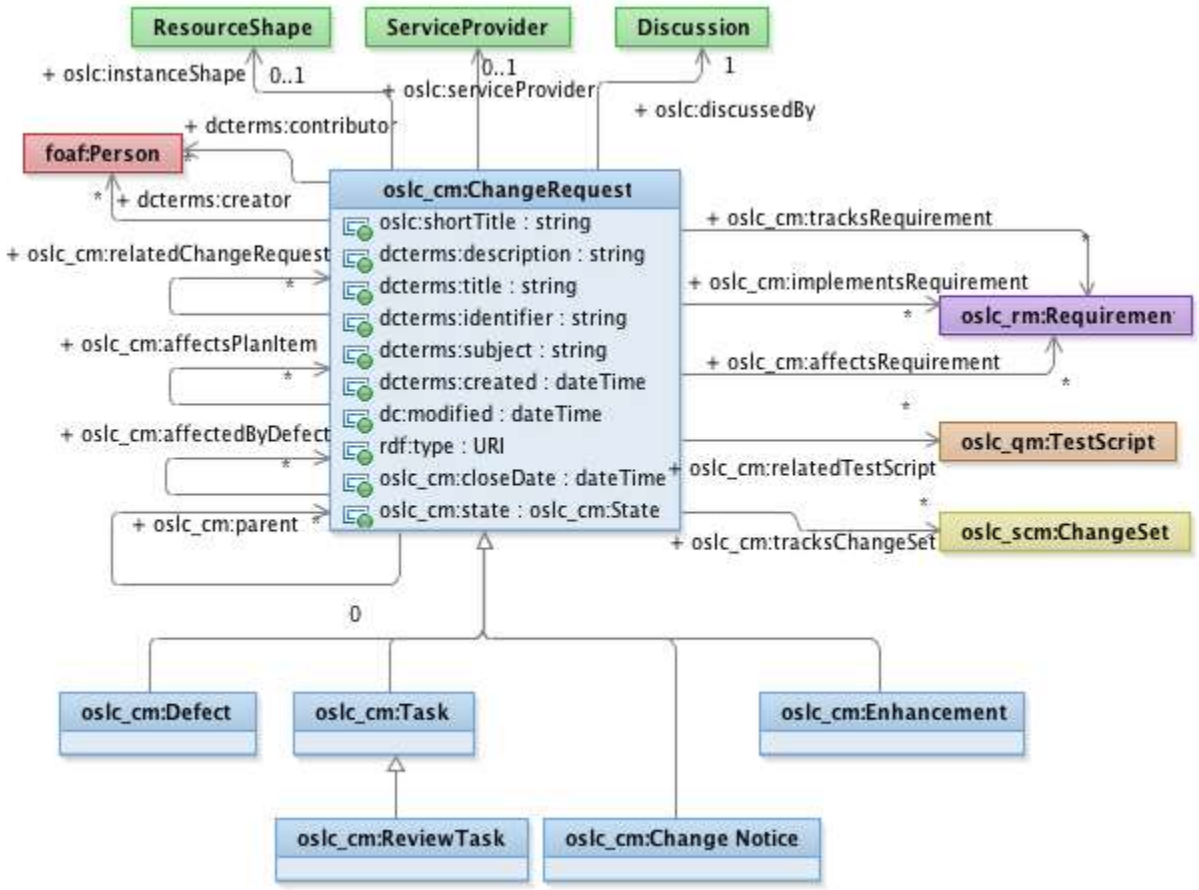


Fig. 1 OSLC Change Management 3.0 Overview

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], Hypertext Transfer Protocol [HTTP11].

1.2 References

1.2.1 Normative references

[HTTP11]
R. Fielding, Ed.; J. Reschke, Ed.. *Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing*. June 2014. Proposed Standard. URL: https://tools.ietf.org/html/rfc7230

[LDP]
Steve Speicher; John Arwe; Ashok Malhotra. *Linked Data Platform 1.0*. 26 February 2015. W3C Recommendation. URL: https://www.w3.org/TR/ldp/

[OSLCCore3]

Steve Speicher; Jim Amsden. *OSLC Core Overview v3.0*. Committee Specification. URL: http://docs.oasis-open.org/oslc-core/oslc-core/v3.0/oslc-core-v3.0-part1-overview.html

[RFC2119]
S. Bradner. *Key words for use in RFCs to Indicate Requirement Levels*. March 1997. Best Current Practice. URL: https://tools.ietf.org/html/rfc2119

1.2.2 Informative references

[OSLCQM]
Paul McMahan. *Open Services for Lifecycle Collaboration Quality Management Specification Version 2.0*. Final. URL: http://open-services.net/bin/view/Main/QmSpecificationV2

[OSLCRM]
Ian Green. *Open Services for Lifecycle Collaboration Requirements Management Specification Version 2.0*. Final. URL: http://open-services.net/bin/view/Main/RmSpecificationV2

[WEBARCH]
Ian Jacobs; Norman Walsh. *Architecture of the World Wide Web, Volume One*. 15 December 2004. W3C Recommendation. URL: https://www.w3.org/TR/webarch/

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, SHOULD, SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL in this specification are to be interpreted as described in [RFC2119].

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 RDFS Classes in this namespace

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

2.1.2 RDF Properties in this namespace

affectedByDefect, affectsPlanItem, affectsRequirement, affectsTestResult, authorizer, blocksTestExecutionRecord, closeDate, implementsRequirement, parent, priority, relatedChangeRequest, relatedTestCase, relatedTestExecutionRecord, relatedTestPlan, relatedTestScript, severity, state, status, testedByTestCase, tracksChangeSet, tracksRequirement

2.1.3 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.

2.1.4 ChangeRequest

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

ChangeRequest is an RDFS class.

The CM Change Request resource.

2.1.5 Defect

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

Defect is an RDFS class.

A software or product defect.

2.1.6 Enhancement

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

Enhancement is an RDFS class.

A request for new functionality.

2.1.7 Priority

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

Priority is an RDFS class.

Defines the possible oslc_cm:priority property values.

2.1.8 ReviewTask

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

ReviewTask is an RDFS class.

A request to make a change and review the change.

2.1.9 Severity

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

Severity is an RDFS class.

Defines the possible oslc_cm:severity property values.

2.1.10 State

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

State is an RDFS class.

Defines the possible oslc_cm:state property values.

2.1.11 Task

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

Task is an RDFS class.

An executable and trackable activity.

2.1.12 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.

2.1.13 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.

2.1.14 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.

2.1.15 authorizer

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

2.1.16 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.

2.1.17 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.

2.1.18 parent

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

parent is an RDF property.

The related parent change requests of the subject change request.

2.1.19 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.

2.1.20 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_qm: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.

2.1.21 ~~sererity~~severity

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

~~sererity~~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.

2.1.22 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.

2.1.~~22~~23 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.

2.1.~~23~~24 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.

3. Change Management Resource Constraints

Property value types that are not defined in the following sections, are defined in OSLC Core - Defining OSLC Properties

Naming convention for relationship properties follows this pattern:

- **related** - Identifies a loose relationship between a Change Request and referenced resource. These relationships can be used to name associated resources managed by other service providers.
- **tracks** - Identifies that a Change Request is used to track the lifecycle of referenced resource. From the CM tool perspective, these relationships can be used to track work that needs to be done for referenced resources.
- **affects** - Indicates that the Change Request affects, or has been predetermined to have impact on, the related resource. These property relationships can be used to understand the potential impact of referenced resources.

3.1 Resource: ChangeRequest

The Change Request resource properties are not limited to the ones defined in this specification, service providers may provide additional properties. It is recommended that any additional properties exist in their own unique namespace and not use the namespaces defined in these specifications.

- **Name:** ~~cm#~~`ChangeRequest`
- **Type URI:** `http://open-services.net/ns/cm#ChangeRequest`
- **Summary:** A general type for records in a Change Management.

~~cm#~~ChangeRequest Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizor~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:implementsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc_cm:tracksRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
rdf:type	Zero-or-many	unspecified	Resource	Reference

3.2 Resource: ChangeNotice

- **Name:** ~~cm#~~ChangeNotice
- **Type URI:** http://open-services.net/ns/cm#ChangeNotice
- **Summary:** A notification of a change request that requires authorization to address.
- **Description:** Represents an assignment notification of a change request. May be used also to bestow authority onto the assigned user to effect the changes.

~~cm#~~ChangeNotice Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizor~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:severity	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A
rdf:type	Zero-or-many	unspecified	Resource	Reference

3.3 Resource: Defect

A software or product defect. Used by Quality Management tools to report defects in testing.

- **Name:** ~~cm#~~Defect
- **Type URI:** http://open-services.net/ns/cm#Defect
- **Summary:** A software or product defect.
- **Description:** Used to report defects in testing.

~~cm#~~Defect Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizor~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:severity	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A
rdf:type	Zero-or-many	unspecified	Resource	Reference

3.4 Resource: Enhancement

- **Name:** ~~cm#~~Enhancement
- **Type URI:** http://open-services.net/ns/cm#Enhancement
- **Summary:** A request for new functionality.

~~cm#~~Enhancement Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizor~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:implementsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A
rdf:type	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation

3.5 Resource: ReviewTask

- **Name:** ~~cm#~~ReviewTask
- **Type URI:** http://open-services.net/ns/cm#ReviewTask
- **Summary:** A request to make a changes and review the change.
- **Description:** A review task can be used to request and approve changes to requirements, test plans, test cases or other resources.

~~cm#~~ReviewTask Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizor~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc_cm:tracksRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A
rdf:type	Zero-or-many	unspecified	Resource	Reference

3.6 Resource: Task

- **Name:** ~~cm#~~Task
- **Type URI:** http://open-services.net/ns/cm#Task
- **Summary:** An executable and trackable activity.
- **Description:** Used to track assigned work that to be completed within a certain time.

~~cm#~~Task Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either
dcterms:created	Zero-or-one	true	dateTime	N/A
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either

Prefixed Name	Occurs	Read-only	Value-type	Representation
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A
dcterms:identifier	Exactly-one	true	string	N/A
dcterms:modified	Zero-or-one	true	dateTime	N/A
dcterms:subject	Zero-or-many	unspecified	string	N/A
dcterms:title	Exactly-one	unspecified	XMLLiteral	N/A
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A
oslc_cm:~~authorizer~~authorizer	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:closed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either
oslc_cm:status	Zero-or-one	unspecified	string	N/A
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference

Prefixed Name	Occurs	Read-only	Value-type	Representation
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A
rdf:type	Zero-or-many	unspecified	Resource	Reference

3.7 Resource: Status

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.

3.8 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.

3.9 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.

- Providers **MAY** have custom oslc_cm:priority and oslc_cm:severity values.
- Providers **SHOULD** use skos:narrower when custom priority or severity values refine standard values.
- Providers **SHOULD NOT** use owl:sameAs when custom 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> .
```

```
<http://example.com/bugs/2314>
   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 <http://example.com/enums#S1> .

<http://example.com/enums#S1>
   a oslc_cm:Severity;
   dcterms:title "Severe - HOT" ;
   skos:narrower oslc_cm:Critical ;
   ex:icon <http://example.com/severity/S1.gif>.
```

Appendix A. Change History

This section is non-normative.

Revision	Date	Editor	Changes Made
01	06/08/2018	Jim Amsden	Committee Specification ~~revision~~revsion 01 published
02	08/24/2018	Jim Amsden	Includes ReSpec generated Conformance section