



## OSLC Change Management Version 3.0. Part 3: Constraints

### Project Specification 01

17 September 2020

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#### Additional components:

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

- OSLC Change Management Version 3.0. Part 1: Specification. <https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-spec.html>
- OSLC Change Management Version 3.0. Part 2: Vocabulary. <https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-vocab.html>
- OSLC Change Management Version 3.0. Part 3: Constraints (this document). <https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-shapes.html>
- OSLC Change Management Version 3.0. Part 4: Machine Readable Vocabulary Terms. <https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-vocab.ttl>
- OSLC Change Management Version 3.0. Part 5: Machine Readable Constraints. <https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/ps01/change-mgt-shapes.ttl>

#### 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>

## Standards Track Work Product

### RDF Namespaces:

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

### Abstract:

OSLC Change Management Version 3.0. Part 2: Vocabulary defines the OSLC Change Management RDF vocabulary terms and resources. This document specifies the standard constraints on those vocabulary terms using OSLC ResourceShapes.

### Status:

This document was last revised or approved by the [OASIS Open Services for Lifecycle Collaboration \(OSLC\) OP](#) 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 <https://github.com/oslc-op/oslc-specs>.

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](mailto:oslc-op@lists.oasis-open-projects.org).

Note that any machine-readable content ([Computer Language Definitions](#)) declared Normative for this Work Product is provided in separate plain text files. In the event of a discrepancy between any such plain text file and display content in the Work Product’s prose narrative document(s), the content in the separate plain text file prevails.

### Citation format:

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

#### **[OSLC-CM-3.0-Part3]**

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## 1. Introduction

This section is non-normative.

RDF vocabularies define the terms and resources for a domain of interest, life-cycle management in the case of OSLC Change Management. These vocabularies are often specified in an open manner, without providing information such as property domain and range assertions, cardinalities, etc. This helps keep the vocabulary applicable for a wide range of uses and furthering integration with other vocabularies.

However, it is often desirable to closed down a vocabulary with specific constraints to facilitate using the vocabulary for a specific purpose. This document specifies the constraints for using the OSLC Change Management vocabulary in OSLC. Different sets of constraints may be applied to a vocabulary in order to tailor its use, without overly constraining the vocabulary for other usages.

These constraints apply to the core vocabulary defined in [OSLC Change Management Version 3.0. Part 2: Vocabulary](#).

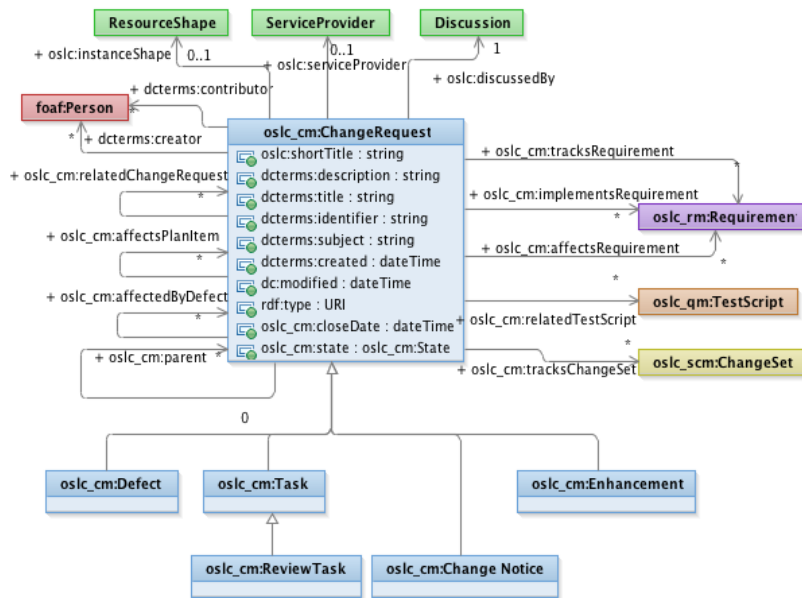


Fig. 1 OSLC Change Management 3.0 Overview

### 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.. *Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing*. June 2014. Proposed Standard. URL: <https://httpwg.org/specs/rfc7230.html>

[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*. Project Specification. URL: <https://docs.oasis-open-projects.org/oslc-op/core/v3.0/oslc-core.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 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.

### 2.1 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.

- **Describes:** <http://open-services.net/ns/cm#ChangeRequest>
- **Summary:** A general type for records in a Change Management.

#### ChangeRequest Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).

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Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
<code>oslc_cm:implementsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Implements associated Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.



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Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc_cm:tracksRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Tracks the associated Requirement or Requirement ChangeSet resources. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:verified</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.

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Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .

### 2.2 Resource: ChangeNotice

- **Describes:** <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.

#### ChangeNotice Properties

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:severity</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Severity</code>	Severity or criticality of this change request.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc_cm:verified</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.

## Standards Track Work Product

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URLs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .

### 2.3 Resource: Defect

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

- **Describes:** <http://open-services.net/ns/cm#Defect>
- **Summary:** A software or product defect.
- **Description:** Used to report defects in testing.

#### Defect Properties

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:severity</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Severity</code>	Severity or criticality of this change request.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc_cm:verified</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .

### 2.4 Resource: Enhancement

- **Describes:** <http://open-services.net/ns/cm#Enhancement>
- **Summary:** A request for new functionality.

#### Enhancement Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLElement	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLElement	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <code>&lt;div&gt;</code> element.



## Standards Track Work Product

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
<code>oslc_cm:implementsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Implements associated Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc_cm:verified</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .

### 2.5 Resource: ReviewTask

- **Describes:** <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.

#### ReviewTask Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
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## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <div> element.
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <div> element.
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc_cm:tracksRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Tracks the associated Requirement or Requirement ChangeSet resources. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:verified</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .

### 2.6 Resource: Task

- **Describes:** <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.

#### Task Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	The person(s) who are responsible for the work needed to complete the change request (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:created</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc:Any</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <div> element.
<code>dcterms:identifier</code>	Exactly-one	true	string	N/A	Unspecified	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
<code>dcterms:modified</code>	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
<code>dcterms:subject</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a <code>dcterms:subject</code> property denotes an additional tag for the resource.
<code>dcterms:title</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) or often a single line summary of the resource represented as rich text in XHTML content. <b>SHOULD</b> include only content that is valid and suitable inside an XHTML <div> element.
<code>oslc_cm:affectedByDefect</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_cm:Defect</code>	Change request is affected by a reported defect. It is likely that the target resource will be an <code>oslc_cm:Defect</code> but that is not necessarily the case.
<code>oslc_cm:affectsPlanItem</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
<code>oslc_cm:affectsRequirement</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_rm:Requirement</code>	Change request affecting a Requirement. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc_cm:approved</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.

## Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_cm:authorizer</code>	Zero-or-many	unspecified	AnyResource	Either	<code>foaf:Agent</code>	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
<code>oslc_cm:closed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request is completely done, no further fixes or fix verification is needed.
<code>oslc_cm:closeDate</code>	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
<code>oslc_cm:fixed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
<code>oslc_cm:inProgress</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If <code>oslc_cm:inProgress</code> is true, then <code>oslc_cm:fixed</code> and <code>oslc_cm:closed</code> must also be false.
<code>oslc_cm:parent</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:ChangeRequest</code>	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
<code>oslc_cm:priority</code>	Zero-or-many	unspecified	AnyResource	Either	<code>oslc_cm:Priority</code>	Priority of this change request.
<code>oslc_cm:relatedChangeRequest</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
<code>oslc_cm:reviewed</code>	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
<code>oslc_cm:state</code>	Zero-or-one	unspecified	unspecified	Either	<code>oslc_cm:State</code>	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
<code>oslc_cm:status</code>	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
<code>oslc_cm:tracksChangeSet</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc_config:ChangeSet</code>	Tracks a resource that represents a set of changes on the resource.
<code>oslc:discussedBy</code>	Zero-or-one	unspecified	AnyResource	Either	<code>oslc:Discussion</code>	A series of notes and comments about this change request.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ResourceShape</code>	Resource Shape that provides hints as to resource property value-types and allowed values.

## Standards Track Work Product

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	<code>oslc:ServiceProvider</code>	A link to the resource's OSLC Service Provider. There may be cases when the subject resource is available from a service provider that implements multiple domain specifications, which could result in multiple values for this property.
<code>oslc:shortTitle</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. <b>SHOULD</b> include only content that is valid inside an XHTML <code>&lt;span&gt;</code> element.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be <code>oslc_cm:ChangeRequest</code> .



### 3. Conformance

Change Management servers **MUST** follow the constraints defined here where required, and with the meanings defined here.

Change Management servers **MAY** provide additional constraints for specific purposes.