OASIS OPEN PROJECTS

OSLC Change Management Version 3.0. Part 3: Constraints

OASIS Standard with Approved Errata 01
06 July 2023

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https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/errata01/os/change-mgt-shapes.html (Authoritative)
https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/errata01/os/change-mgt-shapes.pdf

Previous stage:

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

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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/errata01/os/change-mgt-spec.html
- *OSLC Change Management Version 3.0. Part 2: Vocabulary*. https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/errata01/os/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/errata01/os/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/errata01/os/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/errata01/os/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

RDF Namespaces:

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

Abstract:

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

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 membership of OASIS on the above date. The level of approval is also listed above. Check the "Latest stage" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Open Project are listed at 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.

The English version of this specification is the only normative version. Non-normative translations may also be available. 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:
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Latest stage: https://docs.oasis-open-projects.org/oslc-op/cm/v3.0/change-mgt-shapes.html.

Notices

Table of Contents

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.
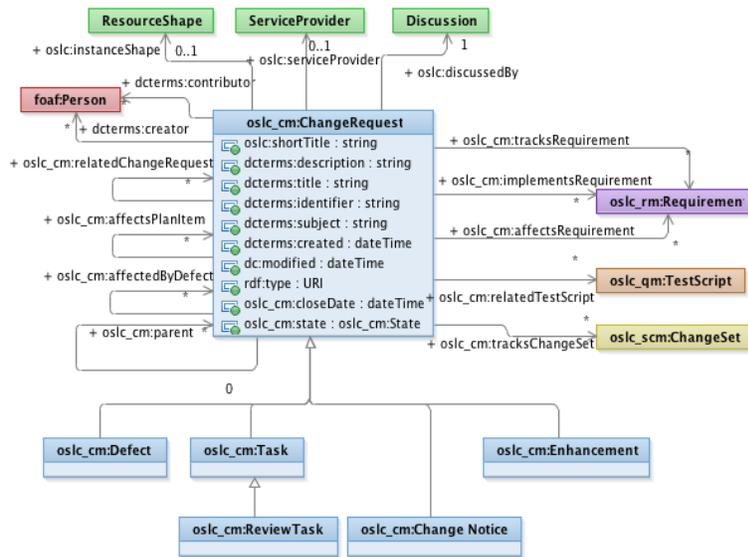
Fig. 1 OSLC Change Management 3.0 Overview

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*. IETF, June 2014. Proposed Standard. URL: https://httpwg.org/specs/rfc7230.html

[LDP]

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

[OSLCCore3]

Steve Speicher; Jim Amsden. *OSLC Core Overviewv3.0*. OASIS. 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*. IETF, March 1997. Best Current Practice. URL: https://www.rfc-editor.org/rfc/rfc2119

[RFC8174]

B. Leiba. *Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words*. IETF, May 2017. Best Current Practice. URL: https://www.rfc-editor.org/rfc/rfc8174

1.2.2 Informative references

[OSLCQM]

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

[OSLCRM]

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

[WEBARCH]

Ian Jacobs; Norman Walsh. *Architecture of the World Wide Web, Volume One*. W3C, 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**", "**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 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
`dcterms:contributor`	Zero-or-many	unspecified	AnyResource	Either	`oslc:Any`	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 `foaf:Person` but that is not necessarily the case.
`dcterms:created`	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
`dcterms:creator`	Zero-or-many	unspecified	AnyResource	Either	`oslc:Any`	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a `foaf:Person` but that is not necessarily the case.
`dcterms:description`	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
`dcterms:identifier`	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.
`dcterms:modified`	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
`dcterms:subject`	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Change request affecting a Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:affectsTestResult	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is affected by this Change Request. It is likely that the target resource will be an oslc_qm:TestResult but that is not necessarily the case.
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
oslc_cm:authorizer	Zero-or-many	unspecified	AnyResource	Either	foaf:Agent	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
oslc_cm:blocksTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is blocked by this Change Request. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:closed	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.
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
oslc_cm:implementsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Implements associated Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If oslc_cm:inProgress is true, then oslc_cm:fixed and oslc_cm:closed must also be false.
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:ChangeRequest	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Priority	Priority of this change request.
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
oslc_cm:relatedTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test case resource. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:relatedTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related to a QM test execution resource. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:relatedTestPlan	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test plan resource. It is likely that the target resource will be an oslc_qm:TestPlan but that is not necessarily the case.
oslc_cm:relatedTestScript	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test script resource. It is likely that the target resource will be an oslc_qm:TestScript but that is not necessarily the case.
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either	oslc_cm:State	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
oslc_cm:status	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
oslc_cm:testedByTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Test case by which this change request is tested. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Tracks a resource that represents a set of changes on the resource.
oslc_cm:tracksRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Tracks the associated Requirement or Requirement ChangeSet resources. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either	oslc:Discussion	A series of notes and comments about this change request.
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference	oslc:ResourceShape	Resource Shape that provides hints as to resource property value-types and allowed values.

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

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

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	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 `foaf:Person` but that is not necessarily the case.
dcterms:created	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a `foaf:Person` but that is not necessarily the case.
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
dcterms:identifier	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.
dcterms:modified	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
dcterms:subject	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Change request affecting a Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
oslc_cm:authorizer	Zero-or-many	unspecified	AnyResource	Either	foaf:Agent	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
oslc_cm:closed	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.
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If oslc_cm:inProgress is true, then oslc_cm:fixed and oslc_cm:closed must also be false.
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:ChangeRequest	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Priority	Priority of this change request.
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
oslc_cm:severity	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Severity	Severity or criticality of this change request.
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either	oslc_cm:State	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
oslc_cm:status	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Tracks a resource that represents a set of changes on the resource.
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either	oslc:Discussion	A series of notes and comments about this change request.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference	oslc:ResourceShape	Resource Shape that provides hints as to resource property value-types and allowed values.
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference	oslc:ServiceProvider	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.
oslc:shortTitle	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Short name identifying a resource, often used as an abbreviated identifier for presentation to end-users. **SHOULD** include only content that is valid inside an XHTML <span> element.
rdf:type	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs, at least one of which should be oslc_cm:ChangeRequest.

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

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	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 foaf:Person but that is not necessarily the case.
dcterms:created	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
dcterms:identifier	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.
dcterms:modified	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:subject	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Change request affecting a Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:affectsTestResult	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is affected by this Change Request. It is likely that the target resource will be an oslc_qm:TestResult but that is not necessarily the case.
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
oslc_cm:authorizer	Zero-or-many	unspecified	AnyResource	Either	foaf:Agent	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
oslc_cm:blocksTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is blocked by this Change Request. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:closed	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.
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If oslc_cm:inProgress is true, then oslc_cm:fixed and oslc_cm:closed must also be false.
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:ChangeRequest	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Priority	Priority of this change request.
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
oslc_cm:relatedTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test case resource. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:relatedTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related to a QM test execution resource. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:relatedTestPlan	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test plan resource. It is likely that the target resource will be an oslc_qm:TestPlan but that is not necessarily the case.
oslc_cm:relatedTestScript	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test script resource. It is likely that the target resource will be an oslc_qm:TestScript but that is not necessarily the case.
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
oslc_cm:severity	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Severity	Severity or criticality of this change request.
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either	oslc_cm:State	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
oslc_cm:status	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
oslc_cm:testedByTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Test case by which this change request is tested. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Tracks a resource that represents a set of changes on the resource.
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either	oslc:Discussion	A series of notes and comments about this change request.
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference	oslc:ResourceShape	Resource Shape that provides hints as to resource property value-types and allowed values.

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

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
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	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 foaf:Person but that is not necessarily the case.
dcterms:created	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. SHOULD include only content that is valid and suitable inside an XHTML <div> element.
dcterms:identifier	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.
dcterms:modified	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
dcterms:subject	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.
oslc_cm:affectsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Change request affecting a Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:affectsTestResult	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is affected by this Change Request. It is likely that the target resource will be an oslc_qm:TestResult but that is not necessarily the case.
oslc_cm:approved	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been approved.
oslc_cm:authorizer	Zero-or-many	unspecified	AnyResource	Either	foaf:Agent	Agents who are responsible authorizing and/or has authorized effort to be expended to address a set of child change requests.
oslc_cm:blocksTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Associated QM resource that is blocked by this Change Request. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:closed	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.
oslc_cm:closeDate	Zero-or-one	true	dateTime	N/A	Unspecified	The date at which no further activity or work is intended to be conducted.
oslc_cm:fixed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been fixed.
oslc_cm:implementsRequirement	Zero-or-many	unspecified	Resource	Reference	oslc_rm:Requirement	Implements associated Requirement. It is likely that the target resource will be an oslc_rm:Requirement but that is not necessarily the case.
oslc_cm:inProgress	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request in a state indicating that active work is occurring. If oslc_cm:inProgress is true, then oslc_cm:fixed and oslc_cm:closed must also be false.
oslc_cm:parent	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:ChangeRequest	The related parent change requests of the subject change request. Establishes a parent/child relationship between change requests.

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
oslc_cm:priority	Zero-or-many	unspecified	AnyResource	Either	oslc_cm:Priority	Priority of this change request.
oslc_cm:relatedChangeRequest	Zero-or-many	unspecified	Resource	Reference	Unspecified	This relationship is loosely coupled and has no specific meaning.
oslc_cm:relatedTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test case resource. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:relatedTestExecutionRecord	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related to a QM test execution resource. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.
oslc_cm:relatedTestPlan	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test plan resource. It is likely that the target resource will be an oslc_qm:TestPlan but that is not necessarily the case.
oslc_cm:relatedTestScript	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Related QM test script resource. It is likely that the target resource will be an oslc_qm:TestScript but that is not necessarily the case.
oslc_cm:reviewed	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the Change Request has been reviewed.
oslc_cm:state	Zero-or-one	unspecified	unspecified	Either	oslc_cm:State	Used to indicate the state of the change request. This property is often read-only, but could be changed using OSLC Actions.
oslc_cm:status	Zero-or-one	unspecified	string	N/A	Unspecified	Used to indicate the status of the change request. This property is often read-only.
oslc_cm:testedByTestCase	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Test case by which this change request is tested. It is likely that the target resource will be an oslc_qm:TestCase but that is not necessarily the case.
oslc_cm:tracksChangeSet	Zero-or-many	unspecified	Resource	Reference	oslc_config:ChangeSet	Tracks a resource that represents a set of changes on the resource.
oslc_cm:verified	Zero-or-one	unspecified	boolean	N/A	Unspecified	Whether or not the resolution or fix of the Change Request has been verified.
oslc:discussedBy	Zero-or-one	unspecified	AnyResource	Either	oslc:Discussion	A series of notes and comments about this change request.
oslc:instanceShape	Zero-or-many	unspecified	Resource	Reference	oslc:ResourceShape	Resource Shape that provides hints as to resource property value-types and allowed values.
oslc:serviceProvider	Zero-or-many	unspecified	Resource	Reference	oslc:ServiceProvider	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.

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

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
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	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 foaf:Person but that is not necessarily the case.
dcterms:created	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
dcterms:identifier	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.
dcterms:modified	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
dcterms:subject	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.
oslc_cm:affectsPlanItem	Zero-or-many	unspecified	Resource	Reference	Unspecified	Change request affects plan item.

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

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

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
dcterms:contributor	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	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 foaf:Person but that is not necessarily the case.
dcterms:created	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of resource creation (reference: Dublin Core).
dcterms:creator	Zero-or-many	unspecified	AnyResource	Either	oslc:Any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
dcterms:description	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text (reference: Dublin Core) about resource represented as rich text in XHTML content. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
dcterms:identifier	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.
dcterms:modified	Zero-or-one	true	dateTime	N/A	Unspecified	Timestamp of latest resource modification (reference: Dublin Core).
dcterms:subject	Zero-or-many	unspecified	string	N/A	Unspecified	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:title	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. **SHOULD** include only content that is valid and suitable inside an XHTML <div> element.
oslc_cm:affectedByDefect	Zero-or-many	unspecified	Resource	Reference	oslc_cm:Defect	Change request is affected by a reported defect. It is likely that the target resource will be an oslc_cm:Defect but that is not necessarily the case.

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

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

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.