



OSLC Quality Management Version 2.1. Part 3: Constraints

OASIS Standard

19 January 2022

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Additional components:

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

- OSLC Quality Management Version 2.1. Part 1: Specification. [quality-management-spec.html](#)
- OSLC Quality Management Version 2.1. Part 2: Vocabulary. [quality-management-vocab.html](#)
- OSLC Quality Management Version 2.1. Part 3: Constraints (this document). [quality-management-shapes.html](#)
- OSLC Quality Management Version 2.1. Part 4: Machine Readable Vocabulary Terms. [quality-management-vocab.ttl](#)
- OSLC Quality Management Version 2.1. Part 5: Machine Readable Constraints. [quality-management-shapes.ttl](#)

Related work:

This specification is related to:

- Open Services for Lifecycle Collaboration Quality Management Specification Version 2.0. <https://archive.open-services.net/bin/view/Main/QmSpecificationV2>

RDF Namespaces:

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

Abstract:

This specification defines resource shapes for the OSLC Quality Management domain.

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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://open-services.net/about/>.

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Table of Contents

1. Introduction
 - 1.1 [Overview](#)
 - 1.2 [Terminology](#)
 - 1.3 [References](#)
 - 1.4 [Typographical Conventions and Use of RFC Terms](#)
2. Quality Management Resource Constraints
 - 2.1 [Resource: TestPlanShape](#)
 - 2.2 [Resource: TestScriptShape](#)
 - 2.3 [Resource: TestCaseShape](#)
 - 2.4 [Resource: TestResultShape](#)
 - 2.5 [Resource: TestExecutionRecordShape](#)
3. Conformance

1. Introduction

1.1 Overview

This section is non-normative.

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

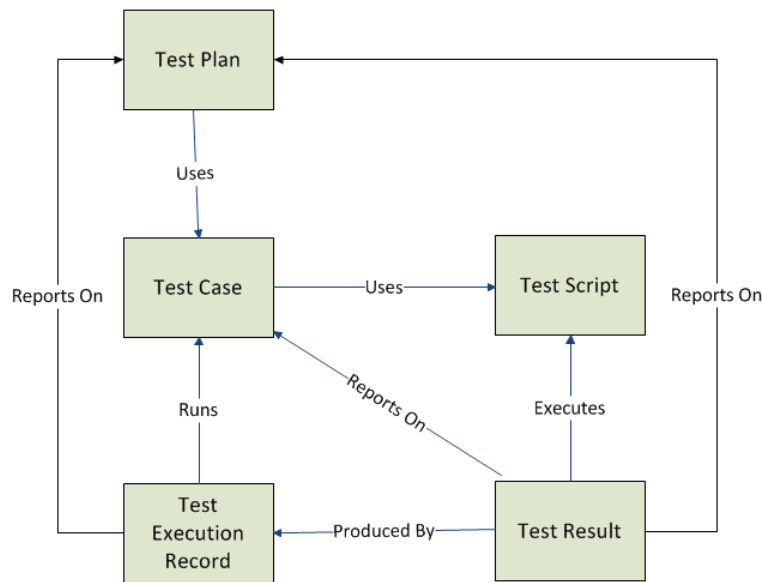


Fig. 1 OSLC Quality Management Version 2.1 resource relationship overview

1.2 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].

1.3 References

1.3.1 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 Overview v3.0*. OASIS. Committee Specification Public Review Draft. URL: <https://docs.oasis-open.org/oslc-core/oslc-core/v3.0/csprd03/part1-overview/oslc-core-v3.0-csprd03-part1-overview.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>

1.3.2 Informative references

[OSLCCM]

Steve Speicher. *Open Services for Lifecycle Collaboration Change Management Specification Version 2.0*. <https://open-services.net>. Final. URL:

Standards Track Work Product

<https://archive.open-services.net/bin/view/Main/CmSpecificationV2>

[OSLCRM]

Ian Green. *Open Services for Lifecycle Collaboration Requirements Management Specification Version 2.0*. <https://open-services.net>. Final. URL: <https://archive.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/>

1.4 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 qm defines the namespace URI of <http://open-services.net/ns/qm#> with a namespace prefix of `oslc_qm`

This specification also uses these namespace prefix definitions:

- `oslc_cm` : <http://open-services.net/ns/cm#> [OSLCCM]
- `oslc_rm` : <http://open-services.net/ns/rm#> [OSLCRM]

2. Quality Management Resource Constraints

2.1 Resource: TestPlanShape

Test Plan defines the overall process and strategy for testing a system

- **Describes:** <http://open-services.net/ns/qm#TestPlan>
- **Summary:** QM Test Plan
- **Description:** Defines the overall process and strategy for testing a system.

TestPlan Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	false	AnyResource	Either	<code>foaf:Person</code>	Contributor or contributors to resource (reference: Dublin Core). It is likely that the target resource will be an <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	true	AnyResource	Either	<code>foaf:Person</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	false	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 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:relation</code>	Zero-or-many	true	Resource	Reference	Unspecified	Related resource or resources to the resource.
<code>dcterms:title</code>	Exactly-one	false	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML element.
<code>oslc_qm:relatedChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_qm:ChangeRequest</code>	A related change request. It is likely that the target resource will be an <code>oslc_qm:ChangeRequest</code> but that is not necessarily the case.
<code>oslc_qm:runsOnTestEnvironment</code>	Zero-or-many	false	Resource	Reference	<code>oslc_qm:TestExecutionRecord</code>	The test environment that the Test Plan will be run on.
<code>oslc_qm:usesTestCase</code>	Zero-or-many	false	Resource	Either	<code>oslc_qm:TestCase</code>	Test Case used by the Test Plan. It is likely that the target resource will be an <code>oslc_qm:TestCase</code> but that is not necessarily the case.

Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_qm:validatesRequirementCollection</code>	Zero-or-many	false	Resource	Reference	<code>oslc_rm:RequirementCollection</code>	Requirement Collection that is validated by the Test Plan. It is likely that the target resource will be an <code>oslc_rm:RequirementCollection</code> but that is not necessarily the case.
<code>oslc:instanceShape</code>	Zero-or-one	true	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	true	Resource	Reference	<code>oslc:ServiceProvider</code>	The scope of a resource is a link to the resource's OSLC Service Provider.
<code>oslc:shortId</code>	Exactly-one	true	integer	N/A	Unspecified	A short identifier for the resource. Typically the integer shown in the web UI.
<code>rdf:type</code>	Zero-or-many	true	Resource	Reference	<code>oslc_qm:TestPlan</code>	The resource type URIs.

2.2 Resource: TestScriptShape

Test Script defines a program or list of steps used to conduct a test.

- **Describes:** <http://open-services.net/ns/qm#TestScript>
- **Summary:** QM Test Script
- **Description:** Defines a program or list of steps used to conduct a test.

TestScript Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	false	AnyResource	Either	<code>foaf:Person</code>	Contributor or contributors to resource (reference: Dublin Core). It is likely that the target resource will be an <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	true	AnyResource	Either	<code>foaf:Person</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	false	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 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:relation</code>	Zero-or-many	true	Resource	Reference	Unspecified	Related resource or resources to the resource.
<code>dcterms:title</code>	Exactly-one	false	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML element.
<code>oslc_qm:executionInstructions</code>	Zero-or-many	true	Resource	Reference	Unspecified	Instructions for executing the test script. Note that the value of Occurs is undefined. The resource shape document provided by the QM service provider may be consulted for its value.
<code>oslc_qm:relatedChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	A related change request. It is likely that the target resource will be an <code>oslc_cm:ChangeRequest</code> but that is not necessarily the case.

Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_qm:validatesRequirement</code>	Zero-or-many	false	Resource	Reference	<code>oslc_rm:Requirement</code>	Requirement that is validated by the Test Script. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.
<code>oslc:instanceShape</code>	Zero-or-one	true	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	true	Resource	Reference	<code>oslc:ServiceProvider</code>	The scope of a resource is a link to the resource's OSLC Service Provider.
<code>oslc:shortId</code>	Exactly-one	true	integer	N/A	Unspecified	A short identifier for the resource. Typically the integer shown in the web UI.
<code>rdf:type</code>	Zero-or-many	true	Resource	Reference	<code>oslc_qm:TestScript</code>	The resource type URLs.

2.3 Resource: TestCaseShape

Test Case defines the criteria which determine whether a system exhibits the correct behavior under a specific set of circumstances.

- **Describes:** <http://open-services.net/ns/qm#TestCase>
- **Summary:** QM Test Case
- **Description:** Defines the criteria which determine whether a system exhibits the correct behavior under a specific set of circumstances.

TestCase Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	false	AnyResource	Either	<code>foaf:Person</code>	Contributor or contributors to resource (reference: Dublin Core). It is likely that the target resource will be an <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	true	AnyResource	Either	<code>foaf:Person</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	false	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 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:relation</code>	Zero-or-many	true	Resource	Reference	Unspecified	Related resource or resources to the resource.
<code>dcterms:title</code>	Exactly-one	false	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML element.
<code>oslc_qm:relatedChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	A related change request. It is likely that the target resource will be an <code>oslc_cm:ChangeRequest</code> but that is not necessarily the case.
<code>oslc_qm:testsChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	Change Request tested by the Test Case. It is likely that the target resource will be an <code>oslc_cm:ChangeRequest</code> but that is not necessarily the case.
<code>oslc_qm:usesTestScript</code>	Zero-or-many	false	Resource	Either	<code>oslc_qm:TestScript</code>	Test Script used by the Test Case. It is likely that the target resource will be an <code>oslc_qm:TestScript</code> but that is not necessarily the case.
<code>oslc_qm:validatesRequirement</code>	Zero-or-many	false	Resource	Reference	<code>oslc_rm:Requirement</code>	Requirement that is validated by the Test Case. It is likely that the target resource will be an <code>oslc_rm:Requirement</code> but that is not necessarily the case.

Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc:instanceShape</code>	Zero-or-one	true	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	true	Resource	Reference	<code>oslc:ServiceProvider</code>	The scope of a resource is a link to the resource's OSLC Service Provider.
<code>oslc:shortId</code>	Exactly-one	true	integer	N/A	Unspecified	A short identifier for the resource. Typically the integer shown in the web UI.
<code>rdf:type</code>	Zero-or-many	true	Resource	Reference	<code>oslc_qm:TestCase</code>	The resource type URIs.

2.4 Resource: TestResultShape

Test Result describes the outcome of attempting to execute a test.

- **Describes:** <http://open-services.net/ns/qm#TestResult>
- **Summary:** QM Test Result
- **Description:** Describes the outcome of attempting to execute a test.

TestResult Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	false	AnyResource	Either	<code>foaf:Person</code>	Contributor or contributors to resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person 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	true	AnyResource	Either	<code>foaf:Person</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person but that is not necessarily the case.
<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:relation</code>	Zero-or-many	true	Resource	Reference	Unspecified	Related resource or resources to the resource.
<code>dcterms:title</code>	Exactly-one	false	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML element.
<code>oslc_qm:affectedByChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	Change request that affects the Test Result. It is likely that the target resource will be an oslc_cm:ChangeRequest but that is not necessarily the case.
<code>oslc_qm:executesTestScript</code>	Zero-or-one	false	Resource	Either	<code>oslc_qm:TestScript</code>	Test Script executed to produce the Test Result. It is likely that the target resource will be an oslc_qm:TestScript but that is not necessarily the case.
<code>oslc_qm:producedByTestExecutionRecord</code>	Zero-or-one	false	Resource	Either	<code>oslc_qm:TestExecutionRecord</code>	Test Execution Record that the Test Result was produced by. It is likely that the target resource will be an oslc_qm:TestExecutionRecord but that is not necessarily the case.

Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc_qm:reportsOnTestCase</code>	Exactly-one	false	Resource	Either	<code>oslc_qm:TestCase</code>	Test Case that the Test Result reports on. It is likely that the target resource will be an <code>oslc_qm:TestCase</code> but that is not necessarily the case.
<code>oslc_qm:reportsOnTestPlan</code>	Zero-or-one	true	Resource	Either	<code>oslc_qm:TestPlan</code>	Test Plan that the Test Result reports on. It is likely that the target resource will be an <code>oslc_qm:TestPlan</code> but that is not necessarily the case.
<code>oslc_qm:runsOnTestEnvironment</code>	Zero-or-one	true	Resource	Reference	<code>oslc_qm:TestExecutionRecord</code>	Configuration associated with the execution work item executed to generate the execution result.
<code>oslc_qm:status</code>	Zero-or-one	false	string	N/A	Unspecified	Used to indicate the state of the Test Result based on values defined by the service provider. Most often a read-only property.
<code>oslc:instanceShape</code>	Zero-or-one	true	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	true	Resource	Reference	<code>oslc:ServiceProvider</code>	The scope of a resource is a link to the resource's OSLC Service Provider.
<code>oslc:shortId</code>	Exactly-one	true	integer	N/A	Unspecified	A short identifier for the resource. Typically the integer shown in the web UI.
<code>rdf:type</code>	Zero-or-many	true	Resource	Reference	<code>oslc_qm:TestResult</code>	The resource type URIs.

2.5 Resource: TestExecutionRecordShape

Test Execution Record is a plan for execution of a test."

- **Describes:** <http://open-services.net/ns/qm#TestExecutionRecord>
- **Summary:** QM Test Execution Record
- **Description:** Planning for execution of a test.

TestExecutionRecord Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:contributor</code>	Zero-or-many	false	AnyResource	Either	<code>foaf:Person</code>	Contributor or contributors to resource (reference: Dublin Core). It is likely that the target resource will be an <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	true	AnyResource	Either	<code>foaf:Person</code>	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-one	false	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 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:relation</code>	Zero-or-many	true	Resource	Reference	Unspecified	Related resource or resources to the resource.

Standards Track Work Product

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:title</code>	Exactly-one	false	XMLLiteral	N/A	Unspecified	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML element.
<code>oslc_qm:blockedByChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	Change Request that prevents execution of the Test Execution Record. It is likely that the target resource will be an <code>oslc_cm:ChangeRequest</code> but that is not necessarily the case.
<code>oslc_qm:executesTestScript</code>	Zero-or-one	false	Resource	Either	<code>oslc_qm:TestScript</code>	Test Script executed by the Test Execution Record. It is likely that the target resource will be an <code>oslc_qm:TestScript</code> but that is not necessarily the case.
<code>oslc_qm:relatedChangeRequest</code>	Zero-or-many	false	Resource	Reference	<code>oslc_cm:ChangeRequest</code>	A related change request. It is likely that the target resource will be an <code>oslc_cm:ChangeRequest</code> but that is not necessarily the case.
<code>oslc_qm:reportsOnTestPlan</code>	Zero-or-one	false	Resource	Either	<code>oslc_qm:TestPlan</code>	Test Plan that the Test Execution Record reports on. It is likely that the target resource will be an <code>oslc_qm:TestPlan</code> but that is not necessarily the case.
<code>oslc_qm:runsOnTestEnvironment</code>	Zero-or-one	false	Resource	Reference	<code>oslc_qm:TestExecutionRecord</code>	Indicates the environment details of the test case for this execution record.
<code>oslc_qm:runsTestCase</code>	Exactly-one	false	Resource	Either	<code>oslc_qm:TestCase</code>	Test Case run by the Test Execution Record. It is likely that the target resource will be an <code>oslc_qm:TestCase</code> but that is not necessarily the case.
<code>oslc:instanceShape</code>	Zero-or-one	true	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	true	Resource	Reference	<code>oslc:ServiceProvider</code>	The scope of a resource is a link to the resource's OSLC Service Provider.
<code>oslc:shortId</code>	Exactly-one	true	integer	N/A	Unspecified	A short identifier for the resource. Typically the integer shown in the web UI.
<code>rdf:type</code>	Zero-or-many	true	Resource	Reference	<code>oslc_qm:TestExecutionRecord</code>	The resource type URIs.

3. Conformance

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

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