

# OSLC Requirements Management Version 2.1. Part 2: Vocabulary

# Committee Specification Draft 01 / Public Review Draft 01

### 31 May 2018

#### **Specification URIs**

#### This version:

http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part2-requirements-management-vocab/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.html (Authoritative)
http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part2-requirements-management-vocab/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.pdf

#### **Previous version:**

#### **Latest version:**

 $\frac{http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/oslc-rm-v2.1-part2-requirements-management-vocab.html}{(Authoritative)}$ 

http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/oslc-rm-v2.1-part2-requirements-management-vocab.pdf

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#### **Additional artifacts:**

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

- OSLC Requirements Management Version 2.1. Part 1: Specification. <a href="http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part1-requirements-management-spec/oslc-rm-v2.1-csprd01-part1-requirements-management-spec.html">http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part1-requirements-management-spec/oslc-rm-v2.1-csprd01-part1-requirements-management-spec.html</a>
- OSLC Requirements Management Version 2.1. Part 2: Vocabulary (this document). <a href="http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part2-requirements-management-vocab/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.html">http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part2-requirements-management-vocab/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.html</a>

#### Related work:

This specification is related to:

Open Services for Lifecycle Collaboration Requirements Management Specification Version 2.0. <a href="http://open-services.net/bin/view/Main/RmSpecificationV2">http://open-services.net/bin/view/Main/RmSpecificationV2</a>

#### **RDF Namespaces:**

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

#### **Abstract:**

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

#### Status:

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

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#### Citation format:

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

#### [OSLC-RM-2.1-Part2]

OSLC Requirements Management Version 2.1. Part 2: Vocabulary. Edited by Mark Schulte and Jad El-khoury. 31 May 2018. OASIS Committee Specification Draft 01 / Public Review Draft 01. <a href="http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/csprd01/part2-requirements-management-vocab/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.html">http://docs.oasis-open.org/oslc-domains/oslc-rm-v2.1-csprd01-part2-requirements-management-vocab.html</a>. Latest version: <a href="http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/oslc-rm-v2.1-part2-requirements-management-vocab.html">http://docs.oasis-open.org/oslc-domains/oslc-rm/v2.1/oslc-rm-v2.1-part2-requirements-management-vocab.html</a>.

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#### 1. Introduction

This section is non-normative.

This specification defines a vocabulary and resource shapes for the OSLC Requirements Management resources. The intent is to define resources needed to support common integration scenarios and not to provide a comprehensive definition of a Requirement. The resource formats may not match exactly the native models supported by requirement 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.

#### 1.1 Terminology

This section is non-normative.

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]. Terminology for this specification is defined in part 1 of the multi-part specification.

#### 1.2 References

#### 1.2.1 Normative references

[HTTP11]

R. Fielding, Ed.; J. Reschke, Ed.: <u>Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</u>. June 2014. Proposed Standard. URL: <a href="https://tools.ietf.org/html/rfc7230">https://tools.ietf.org/html/rfc7230</a>

[LDP]

Steve Speicher; John Arwe; Ashok Malhotra. *Linked Data Platform 1.0*. 26 February 2015. W3C Recommendation. URL: <a href="https://www.w3.org/TR/ldp/">https://www.w3.org/TR/ldp/</a>

[OSLCCore2]

S. Speicher; D. Johnson. <u>OSLC Core 2.0</u>. Finalized. URL: <u>http://open-services.net/bin/view/Main/OslcCoreSpecification</u> [OSLCCore3]

Jim Amsden; S. Speicher. <u>OSLC Core 3.0</u>. Committee Specification. URL: <u>http://docs.oasis-open.org/oslc-core/oslc-core/v3.0/oslc-core-v3.0-part1-overview.html</u>

[OSLCCore3LinkGuidance]

Jim Amsden. OSLC Core 3.0: Link Guidance. Committee Note Draft. URL: https://tools.oasis-open.org/version-

control/svn/oslc-core/trunk/supporting-docs/link-guidance.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

#### [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 RM defines the namespace URI of http://open-services.net/ns/rm# with a namespace prefix of oslc\_rm

## 2. Requirements Management Vocabulary Terms

This specification defines the *root* superclasses, properties and values. Servers may define additional subclasses and provide additional properties as needed.

#### 2.1 Vocabulary Details

The namespace URI for this vocabulary is: http://open-services.net/ns/rm#

All vocabulary URIs defined in the OSLC Requirements Management (RM) namespace.

#### 2.1.1 RDFS Classes in this namespace

Requirement, RequirementCollection

#### 2.1.2 RDF Properties in this namespace

affectedBy, elaboratedBy, implementedBy, satisfiedBy, specifiedBy, trackedBy, uses, validatedBy

#### 2.1.3 Requirement

http://open-services.net/ns/rm#Requirement

Requirement is an RDFS class.

Statement of need.

#### 2.1.4 RequirementCollection

http://open-services.net/ns/rm#RequirementCollection

RequirementCollection is an RDFS class.

Collection of requirements. A collection uses zero or more requirements.

#### 2.1.5 affectedBy

http://open-services.net/ns/rm#affectedBy

affectedBy is an RDF property.

Expresses an affects relationship between entities, where the object entity in some way affects the subject entity. For example, a requirement is affected by a defect.

#### 2.1.6 elaboratedBy

http://open-services.net/ns/rm#elaboratedBy

elaboratedBy is an RDF property.

Expresses an elaboration relationship between entities, where the object entity elaborates the subject entity. For example, a requirement is elaborated by a model element.

#### 2.1.7 implementedBy

http://open-services.net/ns/rm#implementedBy

implementedBy is an RDF property.

Expresses an implementation relationship between entities, where the object entity is a necessary or desirable aspect of an implementation of the subject entity.

#### 2.1.8 satisfiedBy

http://open-services.net/ns/rm#satisfiedBy

satisfiedBy is an RDF property.

The subject is satisfied by the object. For example, a user requirement is satisfied by a system requirement.

#### 2.1.9 specifiedBy

http://open-services.net/ns/rm#specifiedBy

specifiedBy is an RDF property.

Expresses a specification relationship between entities, where the object entity further clarifies or specifies the subject entity. For example, a requirement is specified by a model element.

#### 2.1.10 trackedBy

http://open-services.net/ns/rm#trackedBy

trackedBy is an RDF property.

Expresses a tracking relationship between entities, where the object entity in some way tracks or governs the evolution of the subject entity. For example, a requirement may be said to be tracked by a change request, in that it governs the changes to a requirement according to some process machinery.

#### 2.1.11 uses

http://open-services.net/ns/rm#uses

uses is an RDF property.

Expresses a use relationship between entities, where the object entity is used by the subject entity. For example, a requirement collection may use a requirement.

#### 2.1.12 validatedBy

http://open-services.net/ns/rm#validatedBy

validatedBy is an RDF property.

Expresses a validation relationship between entities, where the object entity in some way validates the subject entity. For example, a requirement collection may be said to be validated by a test plan.

# 3. Requirements Management Resource Constraints

#### 3.1 Resource: Requirement

not limited to the ones defined in this specification. Service providers may provide additional properties. It is strongly recommended that any additional properties be defined in XML namespaces distinct from those defined by OSLC in these specifications. Requirement creation through a Creation Factory resource in the Service Description is REQUIRED by this specification.

Any **resource** asserted to be of rdf:type http://open-services.net/ns/rm#Requirement MUST conform to the constraints and meaning of properties defined below. Notice that partial representations of a requirement resource are admitted by this specification (for example, in query results, or where oslc.properties has been used), and such partial representations will in general not conform to these constraints.

- Name: Requirement
- Type URI: http://open-services.net/ns/rm#Requirement
- Summary: Statement of need.
- **Description:** A condition or capability needed by a stakeholder, or imposed by a solution component, to address a need, solve a problem, achieve an objective, or to satisfy a contract, standard, specification, or other formally imposed documents.

**Requirement Properties** 

| Prefixed Name                       | Occurs               | Read-only           | Value-type             | Representation   | Range            | Description   |
|-------------------------------------|----------------------|---------------------|------------------------|------------------|------------------|---|
| dcterms:contributor                 | Zero-<br>or-<br>many | unspecified         | AnyResource            | Either           | oslc:AnyResource | Contributor(s) to resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person but that is not necessarily the case.   |
| dcterms:created                     | Zero-<br>or-one      | true                | dateTime               | N/A              | Unspecified      | Timestamp of resource creation (reference: Dublin Core).  |
| dcterms:creator                     | Zero-<br>or-<br>many | unspecified         | AnyResource            | Either           | oslc:AnyResource | Creator(s) of resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person but that is not necessarily the case.   |
| dcterms:description                 | Zero-<br>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.</div> |
|                                     |                      |                     |                        |                  |                  | An identifier for<br>a resource.<br>This identifier<br>may be unique<br>with a scope<br>that is defined   |
| oslc-rm-v2.1-csprd01-part2-requirem | ents-manageme        | ent-vocab Copyright | © OASIS Open 2018. All | Rights Reserved. |                  | 31 May 2018   |

| dcterms:identifier    | Zero-<br>or-one      | true        | string     | N/A       | Unspecified      | by the RM provider. Assigned by the service provider when a resource is created. Not intended for end-user display.   |
|-----------------------|----------------------|-------------|------------|-----------|------------------|---|
| dcterms:modified      | Zero-<br>or-one      | true        | dateTime   | N/A       | Unspecified      | Timestamp last resource modification (reference: Dublin Core).  |
| dcterms:subject       | Zero-<br>or-<br>many | false       | 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-<br>one      | unspecified | 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 <span>element.</span> |
| oslc_rm:affectedBy    | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource | The subject is affected by the object, such as a defect or issue.   |
| oslc_rm:constrainedBy | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource | The subject is constrained by the object. For example, a functional requirement is constrained by a safety requirement.   |
| oslc_rm:constrains    | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource | The object is constrained by the subject.   |
| oslc_rm:decomposedBy  | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource | The subject is decomposed by the object. For example, a system requirement is decomposed into a collection of system requirements.  |
|                       | Zero-                |             |            |           |                  | The object is   |

| oslc_rm:decomposes                  | or-<br>many          | false               | Resource           | Reference            | oslc:AnyResource     | decomposed by the subject.  |
|-------------------------------------|----------------------|---------------------|--------------------|----------------------|----------------------|---|
| oslc_rm:elaboratedBy                | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The subject is elaborated by the object. For example, a user requirement is elaborated by use case.           |
| oslc_rm:elaborates                  | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The object is elaborated by the subject.  |
| oslc_rm:implementedBy               | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | Resource, such<br>as a change<br>request, which<br>implements this<br>requirement.                            |
| oslc_rm:satisfiedBy                 | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The subject is satisfied by the object. For example, a user requirement is satisfied by a system requirement. |
| oslc_rm:satisfies                   | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The object is satisfied by the subject.   |
| oslc_rm:specifiedBy                 | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The subject is specified by the object. For example, a requirement is elaborated by a model element.          |
| oslc_rm:specifies                   | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | The object is specified by the subject.   |
| oslc_rm:trackedBy                   | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | Resource, such<br>as a change<br>request, which<br>tracks this<br>requirement.                                |
| oslc_rm:validatedBy                 | Zero-<br>or-<br>many | false               | Resource           | Reference            | oslc:AnyResource     | Resource, such<br>as a test case,<br>which validates<br>this<br>requirement.                                  |
| oslc:instanceShape                  | Zero-<br>or-one      | unspecified         | Resource           | Reference            | oslc:ResourceShape   | Resource<br>Shape that<br>provides hints<br>as to resource<br>property value-<br>types and<br>allowed values  |
| oslc:serviceProvider                | Zero-<br>or-<br>many | unspecified         | Resource           | Reference            | oslc:ServiceProvider | The scope of a resource is a URI for the resource's OSLC Service Provider                                     |
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| oslc:shortTitle | Zero-<br>or-one      | unspecified | XMLLiteral | N/A       | Unspecified | 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.</span> |
|-----------------|----------------------|-------------|------------|-----------|-------------|--|
| rdf:type        | Zero-<br>or-<br>many | unspecified | Resource   | Reference | Unspecified | The resource type URIs.  |

#### 3.2 Resource: RequirementCollection

The constraints on the RequirementCollection vocaubluary resource properties are defined in the tables below. RequirementCollection resource properties are not limited to the ones defined in this specification, service providers may provide additional properties. It is strongly recommended that any additional properties be defined in XML namespaces distinct from those defined by OSLC in these specifications. RequirementCollection creation through a Creation Factory resource in the Service Description is **OPTIONAL** in this specification.

Any resource asserted to be of rdf:type http://open-services.net/ns/rm#RequirementCollection MUST conform to the constraints and meaning of properties defined below. Notice that partial representations of a requirement collection resource are admitted by this specification (for example, in query results, or where oslc.properties has been used), and such partial representations will in general not conform to these constraints.

- Name: RequirementCollection
- Type URI: http://open-services.net/ns/rm#RequirementCollection
- Summary: A collection of Requirements.
- Description: A grouping or collection of related requirements for any purpose.

RequirementCollection Properties

| Prefixed Name  | Occurs               | Read-only           | Value-type             | Representation   | Range            | Description   |
|--|----------------------|---------------------|------------------------|------------------|------------------|---|
| dcterms:contributor  | Zero-<br>or-<br>many | unspecified         | AnyResource            | Either           | oslc:AnyResource | Contributor(s) to resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person but that is not necessarily the case. |
| dcterms:created  | Zero-<br>or-one      | true                | dateTime               | N/A              | Unspecified      | Timestamp of resource creation (reference: Dublin Core).  |
| dcterms:creator  | Zero-<br>or-<br>many | unspecified         | AnyResource            | Either           | oslc:AnyResource | Creator(s) of resource (reference: Dublin Core). It is likely that the target resource will be an foaf:Person but that is not necessarily the case.     |
|  |                      |                     |                        |                  |                  | Descriptive text (reference:  |
| oslc-rm-v2.1-csprd01-part2-require<br>Standards Track Work Product | ments-manageme       | ent-vocab Copyright | © OASIS Open 2018. All | Rights Reserved. |                  | 31 May 2018<br>Page 9 of 13   |

| dcterms:description   | Zero-<br>or-one      | unspecified        | XMLLiteral                     | N/A                | Unspecified      | 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.</div>   |
|---|----------------------|--------------------|--------------------------------|--------------------|------------------|--|
| dcterms:identifier  | Zero-<br>or-one      | true               | string                         | N/A                | Unspecified      | An identifier for a resource. This identifier may be unique with a scope that is defined by the RM provider. Assigned by the service provider when a resource is created. Not intended for end-user display. |
| dcterms:modified  | Zero-<br>or-one      | true               | dateTime                       | N/A                | Unspecified      | Timestamp last resource modification (reference: Dublin Core).   |
| dcterms:subject   | Zero-<br>or-<br>many | false              | 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-<br>one      | unspecified        | 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 <span> element.</span>                                   |
| oslc_rm:affectedBy  | Zero-<br>or-<br>many | false              | Resource                       | Reference          | oslc:AnyResource | The subject is affected by the object, such as a defect or issue.  |
| oslc_rm:constrainedBy   | Zero-<br>or-<br>many | false              | Resource © OASIS Open 2018. Al | Reference          | oslc:AnyResource | The subject is constrained by the object. For example, a requirement collection is   |
| oslc-rm-v2.1-csprd01-part2-requirem<br>Standards Track Work Product | ынь-тападете         | ni-vocab copyright | © ОЛОІО ОРБІІ 2010. AI         | i ragnio rassiveu. |                  | Page 10 of 13  |

|  |                      |                             |                                     |           |                  | constrained by a requirement collection.   |
|--|----------------------|-----------------------------|-------------------------------------|-----------|------------------|--|
| oslc_rm:constrains   | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The object is constrained by the subject.  |
| oslc_rm:decomposedBy   | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The subject is decomposed by the object. For example, a collection of business requirements is decomposed by a collection of user requirements.                                |
| oslc_rm:decomposes   | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The object is decomposed by the subject.   |
| oslc_rm:elaboratedBy   | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The subject is elaborated by the object. For example, a collection of user requirements elaborates a business need, or a model elaborates a collection of system requirements. |
| oslc_rm:elaborates   | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The object is elaborated by the subject.   |
| oslc_rm:implementedBy  | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | Resource, such as a change request, which implements this requirement collection.  |
| oslc_rm:satisfiedBy  | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The subject is satisfied by the object. For example, a collection of user requirements is satisfied by a requirement collection of system requirements.                        |
| oslc_rm:satisfies  | Zero-<br>or-<br>many | false                       | Resource                            | Reference | oslc:AnyResource | The object is satisfied by the subject.  |
| oslc_rm:specifiedBy oslc-rm-v2.1-csprd01-part2-requirem Standards Track Work Product | Zero-<br>or-<br>many | false<br>ent-vocab Copyrigi | Resource<br>nt © OASIS Open 2018. A | Reference | oslc:AnyResource | The subject is specified by the object. For example, a model element might make a requirement 31 May 2018 Page 11 of 13  |

|                      |                      |             |            |           |                      | collection more precise.   |
|----------------------|----------------------|-------------|------------|-----------|----------------------|--|
| oslc_rm:specifies    | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource     | The object is specified by the subject.  |
| oslc_rm:trackedBy    | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource     | Resource, such<br>as a change<br>request, which<br>manages this<br>requirement<br>collection.  |
| oslc_rm:uses         | Zero-<br>or-<br>many | unspecified | Resource   | Reference | oslc:AnyResource     | A collection uses a resource - the resource is in the requirement collection.  |
| oslc_rm:validatedBy  | Zero-<br>or-<br>many | false       | Resource   | Reference | oslc:AnyResource     | Resource, such as a test plan, which validates this requirement collection.  |
| oslc:instanceShape   | Zero-<br>or-one      | unspecified | Resource   | Reference | oslc:ResourceShape   | Resource<br>Shape that<br>provides hints<br>as to resource<br>property value-<br>types and<br>allowed values   |
| oslc:serviceProvider | Zero-<br>or-<br>many | unspecified | Resource   | Reference | oslc:ServiceProvider | The scope of a resource is a URI for the resource's OSLC Service Provider  |
| oslc:shortTitle      | Zero-<br>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.</span> |
| rdf:type             | Zero-<br>or-<br>many | unspecified | Resource   | Reference | Unspecified          | The resource type URIs.  |

# 4. Relationship Properties

This section is non-normative.

For compatibility with OSLC Core 2.0 [OSLCCore2], RM servers MAY accept relationship properties. This is however no longer recommended practice, since the necessary reification of relationship can have entailment and inferencing issues. OSLC Core 3.0 Link Guidance [OSLCCore3LinkGuidance] details an alternative approach, where a separate resource is created to represent the relationship and its properties.

The following relationship properties are defined by this specification:

| Prefixed Name       | Occurs                       | Read-only   | Value-<br>type       | Representation                   | Range | Description  |
|---------------------|------------------------------|-------------|----------------------|----------------------------------|-------|--|
| dcterms:title       | zero-<br>or-one              | unspecified | XMLLiteral           | n/a                              |       | Title (reference: Dublin Core) of the link represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML <span> element.</span> |
| dcterms:creator     | or-                          |             | or Local             | Either<br>Reference or<br>Inline |       | Creator(s) 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:contributor | many<br>zero-<br>or-<br>many | unspecified | Resource<br>or Local |                                  | any   | Creator(s) 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:created     | zero-<br>or-one              |             |                      | _                                |       | Timestamp of link creation (reference: Dublin Core).   |
| dcterms:modified    | zero-<br>or-one              | True        | DateTime             | n/a                              |       | Timestamp last latest link modification (reference: Dublin Core).  |

#### 4.1 Relationship labels

This section is non-normative.

When an RM relationship property is to be presented in a user interface, it may be helpful to provide an informative and useful textual label for that relationship instance. (This in addition to the relationship property URI and the object resource URI, which are also candidates for presentation to a user.) To this end, OSLC Servers MAY suppport a dcterms:title link property in RM resource representations where a relationship property is permitted, using the anchor approach outlined in the OSLC Core Links Guidance.

Servers and Clients should be aware that the dcterms:title of a link is unrelated to the dcterms:title of the object resource. Indeed, links may carry other properties with names in common to the object of the link, but there is no specified relationship between these property values.

#### 4.1.1 Change History

This section is non-normative.

| Revision | Date       | Editor         | Changes Made  |
|----------|------------|----------------|---|
| 01       | 2018-05-22 | Jad El-khourv  | Initial Committee Specification Draft migrated from open- |
| 01       | 2010-03-22 | Dad El-Kiloury | services.net  |