



Open Services for Lifecycle Collaboration Requirements Management Specification Version 2.0

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Notation and Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119](#). Domain name examples use [RFC2606](#).

Introduction

This family of documents defines the Open Services for Lifecycle Collaboration Requirements Management and Definition specification, also known as OSLC RM. These documents collectively define the OSLC RM 2.0 specification, which is part of the OSLC group of specifications. This specification supports key REST APIs for software Requirements Management systems. OSLC RM 2.0 takes an open, loosely coupled approach to specific lifecycle integration scenarios. The scenarios and this V2.0 specification were created by the OSLC RM Working Group. More information on the principles underlying OSLC and RM in particular can be found on the main OSLC site and the home page of the RM topic.

(this section is informative)

This specification builds on the Open Services for Lifecycle Collaboration (OSLC) Core v2.0 Specification to define the resources, properties and operations supported by an OSLC Requirements Definition and Management (OSLC-RM) provider.

Requirements Management resources include Requirements, Requirements Collections and supporting resources defined in the OSLC Core specification. The properties defined describe these resources and the relationships between resources. Operations are defined in terms of HTTP methods and MIME type handling. The resources, properties and operations defined do not form a comprehensive interface to Requirements Definition and Management, but instead target specific integration use cases documented by the OSLC-RM workgroup.

Terminology

Requirement Resource - Requirements are the basis for defining what the system stakeholders (users, customers, suppliers and so on) need from a system and also what the system must do in order to meet those needs, and how the

surrounding processes must be orchestrated so that quality, scope and timescale objectives are satisfied.

RequirementCollection Resource - A collection of resources which constitute some statement of need.

Service Provider - an implementation of the OSLC Requirements Management specification.

Service Consumer/OSLC Consumer/Client - an implementation of an HTTP client which consumes resource models provided by a service provider.

Base Requirements

Compliance

This specification is based on [OSLC Core Specification Version 2.0](#). OSLC RM consumers and service providers **MUST** be compliant with both the core specification and this RM specification, and **SHOULD** follow all the guidelines and recommendations in both these specifications.

The following table summarizes the requirements from OSLC Core Specification as well as some additional ones specific to RM. Note that this specification further restricts some of the requirements for OSLC Core Specification. See further sections in this specification or the OSLC Core Specification to get further details on each of these requirements.

Requirement	Level	Meaning
Unknown properties and content	MAY / MUST	OSLC services MAY ignore unknown content and OSLC clients MUST preserve unknown content
Resource Operations	MUST	OSLC service MUST support resource operations via standard HTTP operations
Resource Paging	MAY	OSLC services MAY provide paging for resources but only when specifically requested by service consumer
Partial Resource Representations	MUST / MAY	OSLC services MUST support request for a subset of a resource's properties via the <code>oslc.properties</code> URL parameter retrieval via HTTP GET and MAY support via HTTP PUT
Partial Update	MAY	OSLC services MAY support partial update of resources using patch semantics
Service Provider Resources	MAY / MUST	OSLC service providers MAY provide a Service Provider Catalog and MUST provide a Service Provider resource
Creation Factories	MUST / MAY	OSLC service providers MUST provide at least one creation factory resource for requirements and MAY provide creation factory resources for requirement collections
Query Capabilities	MUST	OSLC service providers MUST provide query capabilities to enable clients to query for resources
Query Syntax	MUST	OSLC query capabilities MUST support the OSLC Core Query Syntax
Delegated UI Dialogs	MUST	OSLC Services MUST offer delegated UI dialogs (for both creation and selection) specified via service provider resource
UI Preview	SHOULD	OSLC Services SHOULD offer UI previews for resources that may be referenced by other resources
HTTP Basic Authentication	MAY	OSLC Services MAY support Basic Authentication and SHOULD only do so only over HTTPS
OAuth Authentication	MAY	OSLC Services MAY support OAuth and MAY indicate the required OAuth URLs via the service provider resource
Error Responses	MAY	OSLC Services MAY provide error responses using Core defined error formats
RDF/XML Representations	MUST	OSLC services MUST support RDF/XML representations for OSLC Defined Resources
XML Representations	MUST	OSLC services MUST support XML representations that conform to the OSLC Core Guidelines for XML
JSON Representations	MAY / MUST	OSLC services MAY support JSON representations; those which do MUST conform to the OSLC Core Guidelines for JSON
HTML Representations	MAY	OSLC services MAY provide HTML representations for GET requests

Specification Versioning

See [Core Specification Version 2.0 - Specification Versioning](#).

Service providers that support the resource formats and services in this specification **MUST** add an HTTP response header of `OSLC-Core-Version` with a value of `2.0`. Consumers **SHOULD** request formats and services defined in this document by providing a HTTP request header of `OSLC-Core-Version` with a value of `2.0`. See section below on Version

Compatibility with OSLC RM1.0 Specifications.

This specification reserves, for possible future use, the use of the HTTP header `OSLC-RM-Version`. OSLC Providers **MUST NOT** use this HTTP header.

Namespaces

In addition to the namespace URIs and namespace prefixes `oslc`, `rdf`, `dcterms` and `foaf` defined in the [Core Specification Version 2.0](#), OSLC RM defines the namespace URI of `http://open-services.net/ns/rm#` with a preferred namespace prefix of `oslc_rm`.

Resource Formats

In addition to the requirements for [Core Specification Version 2.0 - OSLC Defined Resource Representations](#), this section outlines further refinements and restrictions.

For HTTP GET/PUT/POST requests on all OSLC RM and OSLC Core defined resource types,

- RM Providers **MUST** support RDF/XML representations with media-type `application/rdf+xml`. RM Consumers **MUST** be prepared to deal with any valid RDF/XML document.
- RM Providers **MUST** support XML representations with media-type `application/xml`. The XML representations **MUST** follow the guidelines outlined in [Core Specification Appendix B: Representations and Examples](#).
- RM Providers **MAY** support JSON representations with media-type `application/json`. The JSON representations **MUST** follow the guidelines outlined in [Core Specification Appendix B: Representations and Examples](#).

Additionally, for HTTP GET,

- RM Providers **SHOULD** provide an [X]HTML representation and a user interface (UI) preview as defined by [Core Specification Version 2.0 UI Preview](#)

For HTTP GET response formats for Query requests,

- RM Providers **MUST** support RDF/XML representations with media-type `application/rdf+xml`.
- RM Providers **MUST** support XML representations with media-type `application/xml`.
- RM Providers **MAY** support JSON representations with media-type `application/json`.

OSLC Providers **MAY** refuse to accept RDF/XML documents which do not have a top-level `rdf:RDF` document element. The OSLC Core describes an example, non-normative algorithm for generating RDF/XML representations of OSLC Defined Resources.

In addition to the resource formats defined above, providers **MAY** support additional resource formats; the meaning and usage of these resource formats is not defined by this specification.

Authentication

See [Core Specification Version 2.0 - Authentication](#). OSLC RM places no additional constraints on authentication.

Error Responses

See [Core Specification Version 2.0 - Error Responses](#). OSLC RM places no additional constraints on error responses.

Pagination

OSLC RM service providers **SHOULD** support pagination of query results as defined by the OSLC Core Specification. OSLC RM service providers **MAY** support pagination of a single resource's properties as defined by the OSLC Core Specification.

Requesting and Updating Properties

Requesting Selected Properties

A client may want to request a subset of a resource's properties as well as properties from a referenced resource. In order to support this behaviour a service provider **MUST** support the `oslc.properties` and `oslc.prefix` URL parameter on a HTTP GET request on individual resource request or a collection of resources by query. If the `oslc.properties` parameter is omitted on the request, or if the value of this parameter is "*", then all resource properties **MUST** be provided in the response. See [OSLC Core Specification - Selective Property Values](#).

Updating Selected Properties

A provide **MAY** accept `oslc.properties` on a PUT with the meaning that only that subset of the resource's properties be updated.

If the parameter `oslc.properties` contains a valid resource property on the request that is not provided in the content, the server **MUST** treat that as a request to remove that property from the resource. If the parameter `oslc.properties` contains an invalid resource property, then a 409 `Conflict` **MUST** be returned.

RM Resource Definitions

Property value types that are not defined in the following sections, are defined in [Core Specification Version 2.0 - Defining OSLC Properties](#).

The meaning of the columns in the following table is defined as follows. See also [OSLC Core Specification Appendix A: Common Properties](#) for further details on Resource Shapes.

- Occurs: The multiplicity of the property (corresponds to "oslc:occurs" on an "oslc:Property" resource).
- Read-only: Whether the Provider will accept value changes (corresponds to "oslc:readOnly" on an "oslc:Property" resource). "Unspecified" indicates that this specification places no requirements on a Provider's behaviour in this regard.
- Value-type: Corresponds to "oslc:valueType" on an "oslc:Property" resource.
- Representation: Corresponds to "oslc:representation" on an "oslc:Property" resource.
- Range: Corresponds to "oslc:range" on an "oslc:Property" resource. "Any" indicates that this specification places no "oslc:range" constraints on a property. Consumers in particular should not make assumptions about the range of such properties.
- Description: A textual description of the meaning of the property.

Resource Requirement

The meaning of Requirement resource properties are defined in the tables below, together with their multiplicity constraints. Requirement 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. 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`

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
OSLC Core: Common Properties						
<code>dcterms:title</code>	exactly-one	unspecified	XMLLiteral	n/a	n/a	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. SHOULD include only content that is valid inside an XHTML <code></code> element.
<code>dcterms:description</code>	zero-or-one	unspecified	XMLLiteral	n/a	n/a	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 <code><div></code> element.
<code>dcterms:identifier</code>	zero-or-one	True	String	n/a	n/a	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.
oslc:shortTitle	zero-or-one	unspecified	XMLLiteral	n/a	n/a	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 element.
dcterms:subject	zero-or-many	False	String	n/a	n/a	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:creator	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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:contributor	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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-or-one	True	DateTime	n/a	n/a	Timestamp of resource creation (reference: Dublin Core).
dcterms:modified	zero-or-one	True	DateTime	n/a	n/a	Timestamp last latest resource modification (reference: Dublin Core).
rdf:type	zero-or-many	unspecified	Resource	Reference	n/a	The resource type URIs.
oslc:serviceProvider	zero-or-many	unspecified	Resource	Reference	oslc:ServiceProvider	The scope of a resource is a URI for the resource's OSLC Service Provider.
oslc:instanceShape	zero-or-one	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

Relationship properties: This grouping of properties are used to identify relationships between resources managed by other OSLC Service Providers

oslc_rm:elaboratedBy	zero-or-many	False	Resource	Reference	any	The subject is elaborated by the object. For example, a user requirement is elaborated by use case.
oslc_rm:elaborates	zero-	False	Resource	Reference	any	The object is

	or-many					elaborated by the subject.
oslc_rm:specifiedBy	zero-or-many	False	Resource	Reference	any	The subject is specified by the object. For example, a requirement is elaborated by a model element .
oslc_rm:specifies	zero-or-many	False	Resource	Reference	any	The object is specified by the subject.
oslc_rm:affectedBy	zero-or-many	False	Resource	Reference	any	Requirement is affected by a resource, such as a defect or issue.
oslc_rm:trackedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a change request, which tracks this requirement.
oslc_rm:implementedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a change request, which implements this requirement.
oslc_rm:validatedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a test case, which validates this requirement.
oslc_rm:satisfiedBy	zero-or-many	False	Resource	Reference	any	The subject is satisfied by the object. For example, a user requirement is satisfied by a system requirement.
oslc_rm:satisfies	zero-or-many	False	Resource	Reference	any	The object is satisfied by the subject.
oslc_rm:decomposedBy	zero-	False	Resource	Reference	any	The subject is

	or-many					decomposed by the object. For example, a system requirement is decomposed into a collection of system requirements.
oslc_rm:decomposes	zero-or-many	False	Resource	Reference	any	The object is decomposed by the subject.
oslc_rm:constrainedBy	zero-or-many	False	Resource	Reference	any	The subject is constrained by the object. For example, a functional requirement is constrained by a safety requirement.
oslc_rm:constrains	zero-or-many	False	Resource	Reference	any	The object is constrained by the subject.

Resource RequirementCollection

The meaning of RequirementCollection resource properties are defined in the tables below, together with their multiplicity constraints. 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`

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
OSLC Core: Common Properties						
dcterms:title	exactly-one	unspecified	XMLLiteral	n/a	n/a	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.
dcterms:description	zero-or-one	unspecified	XMLLiteral	n/a	n/a	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	zero-or-one	True	String	n/a	n/a	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.
oslc:shortTitle	zero-or-one	unspecified	XMLLiteral	n/a	n/a	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 element.
dcterms:subject	zero-or-many	False	String	n/a	n/a	Tag or keyword for a resource. Each occurrence of a dcterms:subject property denotes an additional tag for the resource.
dcterms:creator	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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:contributor	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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:created	zero-or-one	True	DateTime	n/a	n/a	Timestamp of resource creation (reference: Dublin Core).
dcterms:modified	zero-or-one	True	DateTime	n/a	n/a	Timestamp last latest resource modification (reference: Dublin Core).

rdf:type	zero-or-many	unspecified	Resource	Reference	n/a	The resource type URIs.
oslc:serviceProvider	zero-or-many	unspecified	Resource	Reference	oslc:ServiceProvider	The scope of a resource is a URI for the resource's OSLC Service Provider.
oslc:instanceShape	zero-or-one	unspecified	Resource	Reference	oslc:ResourceShape	Resource Shape that provides hints as to resource property value-types and allowed values.
Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description

OSLC RM: Start of additional properties

oslc_rm:uses	zero-or-many	unspecified	Resource	Reference	any	A collection uses a resource - the resource is in the requirement collection.
Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description

Relationship properties: This grouping of properties are used to identify relationships between resources managed by other OSLC Service Providers

oslc_rm:elaboratedBy	zero-or-many	False	Resource	Reference	any	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-or-many	False	Resource	Reference	any	The object is elaborated by the subject.
oslc_rm:specifiedBy	zero-	False	Resource	Reference	any	The subject is

	or-many					specified by the object. For example, a model element might make a requirement collection more precise.
oslc_rm:specifies	zero-or-many	False	Resource	Reference	any	The object is specified by the subject.
oslc_rm:affectedBy	zero-or-many	False	Resource	Reference	any	The subject is affected by the object, for example, a defect or issue.
oslc_rm:trackedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a change request, which manages this requirement collection.
oslc_rm:implementedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a change request, which implements this requirement collection.
oslc_rm:validatedBy	zero-or-many	False	Resource	Reference	any	Resource, such as a test plan, which validates this requirement collection.
oslc_rm:satisfiedBy	zero-or-many	False	Resource	Reference	any	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-or-many	False	Resource	Reference	any	The object is satisfied by the subject.
oslc_rm:decomposedBy	zero-or-many	False	Resource	Reference	any	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-or-many	False	Resource	Reference	any	The object is decomposed by the subject.
oslc_rm:constrainedBy	zero-or-many	False	Resource	Reference	any	The subject is constrained by the object. For example, a requirement collection is constrained by a requirement collection.
oslc_rm:constrains	zero-or-many	False	Resource	Reference	any	The object is constrained by the subject.

RM Relationship Properties

RM providers **MUST** accept relationship properties, as described in OSLC Core Link Guidance. The following relationship properties are defined by this specification:

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
OSLC Core: Common Properties						
dcterms:title	zero-or-one	unspecified	XMLLiteral	n/a	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 element.
dcterms:creator	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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:contributor	zero-or-many	unspecified	Resource or Local Resource	Either Reference or Inline	any	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:created	zero-or-one	True	DateTime	n/a	n/a	Timestamp of link creation (reference: Dublin Core).
dcterms:modified	zero-or-one	True	DateTime	n/a	n/a	Timestamp last latest link modification (reference: Dublin Core).

Relationship labels

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 providers **MAY** support 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.

Providers and consumers 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.

RM Service Provider Capabilities

Service Provider Resources

Service providers **MUST** provide one or more `oslc:ServiceProvider` resources as defined by [Core Specification Version 2.0 - Service Provider Resource](#). Discovery of OSLC Service Provider Resources **MAY** be via one or more OSLC Service Provider Catalog Resources, or may be discovered by some other and/or additional Provider-specific means outwith the scope of this specification. The `oslc:Service` resources referenced by this `oslc:ServiceProvider` **MUST** have an `oslc:domain` of `http://open-services.net/ns/rm#`.

Service providers **MAY** provide one more more `oslc:ServiceProviderCatalog` resources as defined by [Core Specification](#)

[Version 2.0 - Service Provider Resources](#). Any such catalog resources **MUST** include at least one `oslc:domain` of `http://open-services.net/ns/rm#`. Discovery of top-level OSLC Service Provider Catalog Resources is outwith the scope of this specification.

Service providers **MUST** give an `oslc:serviceProvider` property on all OSLC Defined Resources. This property **MUST** refer to an appropriate `oslc:ServiceProvider` resource.

Creation Factories

Service providers supporting resource creation **MUST** do so through `oslc:CreationFactory` resources, as defined by [Core Specification Version 2.0 - Creation Factories](#). Any such factory resources **MUST** be discoverable through `oslc:Service` resources. Providers **SHOULD** provide `oslc:ResourceShape` resources on `oslc:CreationFactory` resources as defined by [OSLC Core Specification Appendix A: Common Properties - Resource Shapes](#).

Query Capabilities

Service providers **MUST** support query capabilities, as defined by [Core Specification Version 2.0 - Query Capabilities](#). Providers **SHOULD** provide `oslc:ResourceShape` on `oslc:QueryCapability` resources as defined by [OSLC Core Specification Appendix A: Common Properties - Resource Shapes](#).

The Query Capability **MUST** support these parameters:

- `oslc.where`
- `oslc.select`
- `oslc.properties`
- `oslc.prefix`

Where `oslc:ResourceShape` is not supported by the Query Capability, providers **SHOULD** use the following guidance to represent query results:

- For RDF/XML and XML, use `rdf:Description` and `rdfs:member` as defined by [Core Specification Appendix B: Representations and Examples - RDF/XML Examples](#).
- For JSON the query results are contained within `oslc:results` array. See [Core Specification Appendix B: Representations and Examples - Guidelines for JSON](#).

The stability of query results is OPTIONAL (see [Core Specification Version 2.0 - Stable Paging](#)).

Delegated UIs

OSLC RM service providers **MUST** support the selection and creation of resources by delegated web-based user interface dialogs [Delegated UIs](#) as defined by OSLC Core.

OSLC RM service providers **MAY** support the pre-filling of creation dialogs based on the definition at [Delegated UIs](#).

Usage Identifiers

OSLC RM service provider **MAY** identify the usage of various services with additional property values for the [OSLC Core](#) defined `oslc:usage` property on `oslc:Dialog`, `CreationFactory` and `QueryCapability`. The `oslc:usage` property value of `http://open-services.net/ns/core#default` **SHOULD** be used to designate the default or primary service to be used by consumers when multiple entries are found.

There are no additional usage identifiers defined by this specification. OSLC Providers **MAY** provide their own usage URIs. Such usage URIs **MUST** be in a non-OSLC namespace.

Version Compatibility with 1.0 Specifications

The goal is to provide a smooth transition to 2.0 for both Consumers and Providers. This section will clarify the usage of 1.0 media types so that Providers can support both 1.0 and 2.0 Consumers when HTTP requests are made for a resource with the same URI.

Network addressable resource URIs used for 1.0 resources for these types: Requirement, RequirementCollection, ServiceDescriptor and ServiceProviderCatalog, should not have to change. Consumers who support both 1.0 and 2.0, should only preserve these resource URIs. When a Provider starts to serve 2.0 resource formats, for instance the ServiceProvider resource, it is recommended to update its locally stored or cached information about the contents of the ServiceProvider resource as the URIs to various capabilities may have changed (query, delegated UIs, factories, etc.).

Media Types

To identify a format of RDF/XML, the media type used for RM resource representations **MUST** be `application/rdf+xml`. The usage of the OSLC RM 1.0 defined media types of `application/x-oslcrm-requirement-1.0+xml`, `application/x-oslcrm-requirement-collection-1.0+xml`, `application/x-oslcrm-service-description-1.0+xml` and `application/x-oslcrm-service-provider-catalog+xml` is deprecated.

Requesting formats

RM 1.0 consumers wanting to request 1.0 resource formats will not need to change if they used 1.0 defined media types (`application/x-oslcrm*`), see OSLC-RM 1.0. RM 2.0 consumers should use media types as defined in this specification for requests, excluding the OSLC RM 1.0 specific media types (`application/x-oslcrm*`). RM consumers supporting both 1.0 and 2.0, should request both 1.0 and 2.0 media types on HTTP GET requests as usually done with HTTP request parameter `Accept` giving appropriate quality (See HTTP Accept) weighting to help distinguish their preferred content.

For additional guidance, a RM 2.0 consumer or provider **MAY** reference the `OSLC-Core-Version` HTTP header with a value of `2.0`.

Appendix A: Samples

See [RmSpecificationV2Samples](#)

Appendix B: Resource Shapes

See [RmSpecificationV2Shapes](#)

Appendix C: Notices and References

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Reporting Issues on the Specification

The working group participants who author and maintain this working draft specification, monitor a distribution list where issues or questions can be raised, see [Requirements Management Mailing List](#)

Known issues and resolutions relating to this specification may be found at [RmSpecificationV2Issues](#).

Intellectual Property Covenant


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References

- OSLC RM 1.0 - [OSLC Requirements Management Specification 1.0](#)
- OSLC Core - [OSLC Core Specification 2.0](#)
- OSLC-SCM 1.0 - [OSLC Software Configuration Management Specification 1.0](#)
- OSLC-QM 2.0 - [OSLC Quality Management Specification 2.0](#)
- OSLC-CM 2.0 - [OSLC Change Management Specification 2.0](#)
- Dublin Core 1.1 - [Dublin Core Metadata Element Set, Version 1.1](#)
- FOAF - [Friend of a Friend \(FOAF\) v0.98](#)
- HTTP 1.1 - [Hyper-text Transfer Protocol \(HTTP/1.1\)](#)
- OAuth 1.0a - [RFC5849 - The OAuth 1.0 Protocol](#)
- Media-Type - [application/rdf+xml Media-Type](#)
- RDF/XML Concepts - [RDF/XML Concepts and Abstract Syntax](#)
- RDF/XML Syntax - [RDF / XML Syntax Specification \(Revised\)](#)
- URI Syntax - [URI Generic Syntax](#)
- XML Namespaces - [Namespaces in XML 1.0 \(Third Edition\)](#)
- XML Base - [XML Base \(Second Edition\)](#)
- XSD Datatypes - [XML Schema Part 2: Datatypes Second Edition](#)
- RDFS Schema of the OSLC RM V2.0 Specification Vocabulary - [RDFS for RM](#). This is for information purposes only and is non-normative.
- HTML presentation of the RDFS Schema of the OSLC RM V2.0 Specification Vocabulary -

Topic revision: r57 - 21 Sep 2012 - 10:41:43 - [IanGreen](#)

Main.RmSpecificationV2 moved from Main.RmSpecificationV2DRAFT on 10 Sep 2010 - 11:18 by [IanGreen](#) - [put it back](#)

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