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Abstract:

Core Vocabulary defines the OSLC Core RDF vocabulary terms and resources, that have broad applicability across various domains.

Status:

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Evolving editor's working draft, expect changes. Feedback welcome.

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1. Introduction

This section is non-normative.

Various resources and properties may be so commonly used or apply so broadly that it makes sense to define them in one place so they can be easily reused. Some common examples are short names or labels, error messages, discussion threads, traceability/impacts relationship behavior or annotating other vocabulary terms.

2. Conformance

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].

3. 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].

Archived Resource

A resource in which an explicit action has been performed to mark the resource as no longer active and may be removed from typical user interactions. As a consequence, an archived resource should be considered immutable.

4. Motivation

This section is non-normative.

Archived Resources are typically found in large systems in which an immutable copy of the state of a resource at a given time is captured. The purpose may vary in that it could be simply a way to facilitate access to a backup or snapshot of a resource at a particular point in time. Another use may be to indicate that a resource has been deleted, but is saved by the system for historical or legal reasons. Having a consistent way to indicate that a resource, or a set of them, has been archived helps when defining certain views of the resources or queries. Archived Resources may be identified by having a property `oslc:archived`, with value `true`.

Many different kinds of applications have a way to provide comments or notes related to a given resource. These take the form of a discussion, with a sequence of comments. As there are various applications that often need to easily add to a comment to a discussion thread or navigate a thread, it would be valuable to have a common way to express this discussion.

Error responses from HTTP request often take the form of HTML pages intended for a human to read, even though these requests are often initiated from applications that don't have a human actively monitoring it. A consistent way to request error responses of a certain format, and a prescribed interaction model can help clients better handle errors automatically.

Consider a user interface for a query builder that allows users to build queries about test cases. It is natural for the query builder to present the user with a list of the properties that apply to test cases that could be used in the query. Suppose the user wants to build a query that returns all that requirements that are validated by a test case. The query builder should describe the available properties from the point of view of the test case. This implies that the query builder should describe the inverse relation asserted by any triple that has the test case as an object. In this example, the query builder should describe `requirement oslc_rm:validatedBy test case` as test case `validates` requirement.

Some RDF properties express dependency relations between artifacts, and it is often very valuable to trace the impact of a change in an artifact to those artifacts that depend on it directly or indirectly. The concept of dependency is very general. For example, the concept of trace relations is described in [SysML]: "A generic trace requirement relationship provides a general-purpose relationship between a requirement and any other model element. The semantics of trace include no real constraints and therefore are quite weak." As a general guideline, if any triple that uses a given predicate may become invalid if the state of either its subject or object resources change, then we may legitimately regard that predicate as expressing a dependency relation, in which case it may be useful to explicitly describe the nature of the dependency.

5. Resource Shape

Constraints on OSLC Core and Domain resources **SHOULD** be described using [ResourceShapes] which is included as part of the OSLC Core multi-part specifications. Servers **MAY** use other constraint languages such as [SHACL] to define resource constraints. The shape of an RDF resource is a description of the set of triples it is expected to contain and the integrity constraints those triples are required to satisfy. Applications of shapes include validating RDF data, documenting RDF APIs, and providing meta-data to tools, such as form and query builders, that handle RDF data.

6. Common Properties

Unlike the rest of the Core specification, these properties change and grow as new common properties are added by the Core TC. The

properties that we list here are **available for use in OSLC specification** in defining OSLC resources, but this does not mean that they are required to be in OSLC resources. OSLC domain specifications decide which properties are allowed and required for each **resource use case**.

6.1 Properties on Any Resource

- **Name:** Any
- **URI:** <http://open-services.net/ns/core#Any>
- **Summary:** Defines common properties that may be applicable to any OSLC resource.

Any Properties

<i>Prefixed Name</i>	Occurs	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	Range	<i>Description</i>
<code>dcterms:contributor</code>	Zero-or-many	unspecified	AnyResource	Either	Unspecified	Contributor or contributors to the resource. It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
<code>dcterms:created</code>	Zero-or-one	unspecified	dateTime	N/A	Unspecified	Timestamp of resource creation
<code>dcterms:creator</code>	Zero-or-many	unspecified	AnyResource	Either	Unspecified	Creator or creators of the resource. It is likely that the target resource will be a foaf:Person but that is not necessarily the case.
<code>dcterms:description</code>	Zero-or-many	unspecified	XMLLiteral	N/A	Unspecified	Descriptive text about resource represented as rich text in XHTML content.
<code>dcterms:identifier</code>	Zero-or-many	unspecified	string	N/A	Unspecified	A unique identifier for a resource. Typically read-only and assigned by the service provider when a resource is created. Not typically intended for end-user display.
<code>dcterms:modified</code>	Zero-or-many	unspecified	dateTime	N/A	Unspecified	Timestamp of latest resource modification.
<code>dcterms:relation</code>	Zero-or-many	unspecified	AnyResource	Either	Unspecified	Relation which identifies a related resource.
<code>dcterms:subject</code>	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.
<code>dcterms:title</code>	Zero-or-many	unspecified	XMLLiteral	N/A	Unspecified	Title of the resource represented as rich text in

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
						XHTML content.
<code>oslc:discussedBy</code>	Zero-or-many	unspecified	Resource	Either	Unspecified	A series of notes and comments about this resource.
						The URI of a Resource Shape that describes the possible properties, occurrence, value types, allowed values and labels. This shape information is useful in displaying the subject resource as well as guiding clients in performing modifications. Instance shapes may be specific to the authenticated user associated with the request that retrieved the resource, the current state of the resource and other factors and thus should not be cached.
<code>oslc:instanceShape</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	
						The URI of a resource describing the entity that most recently modified the subject resource. The link target is usually a foaf:Person or foaf:Agent, but could be any type. This is modeled after dcterms:creator, but Dublin Core currently has no equivalent property.
<code>oslc:modifiedBy</code>	Zero-or-many	unspecified	Resource	Either	Unspecified	
						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
<code>oslc:serviceProvider</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
						property.
<code>oslc:shortId</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Shorter form of dcterms:identifier for the resource, such as a number.
<code>oslc:shortTitle</code>	Zero-or-many	unspecified	XMLLiteral	N/A	Unspecified	Shorter form of dcterms:title for the resource represented as rich text in XHTML content.
<code>rdf:type</code>	Zero-or-many	unspecified	Resource	Reference	Unspecified	The resource type URIs.
<code>rdfs:member</code>	Zero-or-many	unspecified	Resource	Either	Unspecified	OSLC domains might define a number of member or contains relationships between resources. The rdfs:member property is suitable for use when only one such relationship needs to be defined, or when no additional semantics need to be implied by the property name

6.2 Person Properties

- **Name:** *Any*
- **URI:** `http://open-services.net/ns/core#Any`
- **Summary:** Person is a common resource because a Person resource **is required as the value** for a dcterms:creator or dcterms:contributor property.

Any Properties

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
<code>foaf:familyName</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Family name of person expressed as simple text string.
<code>foaf:givenName</code>	Zero-or-many	unspecified	string	N/A	Unspecified	Given name of person expressed as simple text string.
<code>foaf:name</code>	Zero-or-many	unspecified	string	N/A	Unspecified	The full name of a person expressed as simple text string.

6.3 Implementation Conformance

6.3.1 Changes to the OSLC Core Vocabulary **MUST** be approved by the OASIS OSLC Core TC. The OSLC Core Vocabulary is assigned the namespace URI of the `http://open-services.net/ns/core#`.

6.3.2 Domain TCs and other extensions **MUST** contribute their vocabulary terms in a namespace which is assigned to them as an authority.

6.3.3 OSLC Core, domain and other extensions **SHOULD** reuse existing vocabulary terms from stable vocabularies such as [DC-TERMS], RDF [rdf11-concepts], RDF Schema [rdf-schema], [FOAF], [skos-reference] and OSLC. New vocabulary terms should only be created when there is no clear existing choice available. See the [LDP] [similar clause on reuse](#).

See [section A. Terms](#) for details on common property terms.

7. Discussion

7.1 Shape: Discussion

It is common to collect a series of comments on a lifecycle resource, often referred to as a discussion. For example: tasks, bug reports, requirements, assets and so on, are often collected across various types of resources such as project. This Discussion resource definition provides a minimal shape describing the needed properties.

- **Name:** Discussion
- **URI:** <http://open-services.net/ns/core#Discussion>
- **Summary:** OSLC Core Discussion Shape

Discussion Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>oslc:comment</code>	Zero-or-many	false	AnyResource	Either	<code>oslc:Comment</code>	Comment about resource
<code>oslc:discussionAbout</code>	Exactly-one	false	Resource	Reference	Unspecified	Reference to associated resource

7.2 Shape: Comment

Used in conjunction with [Shape: Discussion](#) to provide a minimal resource definition for a collection of comments.

- **Name:** Comment
- **URI:** <http://open-services.net/ns/core#Comment>
- **Summary:** OSLC Core Comment Shape

Comment Properties

Prefixed Name	Occurs	Read-only	Value-type	Representation	Range	Description
<code>dcterms:created</code>	Exactly-one	unspecified	dateTime	N/A	Unspecified	When the comment resource was created.
<code>dcterms:creator</code>	Exactly-one	unspecified	AnyResource	Either	<code>foaf:Person</code>	The person who created the comment.
<code>dcterms:description</code>	Exactly-one	unspecified	XMLLiteral	N/A	Unspecified	Details or body of the comment. SHOULD include only content that is valid and suitable inside an XHTML <code><div></code> element.
<code>dcterms:identifier</code>	Exactly-one	unspecified	string	N/A	Unspecified	A service defined identifier
<code>dcterms:title</code>	Zero-or-one	unspecified	XMLLiteral	N/A	Unspecified	A brief title for the comment. SHOULD include only content that is valid and suitable inside an XHTML <code></code> element.
<code>oslc:inReplyTo</code>	Zero-or-one	unspecified	Resource	Reference	<code>oslc:Comment</code>	Reference to the comment to which this comment replies.

See [section A. Terms](#) for details on discussion property terms.

8. Errors

8.1 Implementation Conformance

8.1.1 When an OSLC Server incurs an error, it is **RECOMMENDED** that useful information be provided to clients in the body of the HTTP response.

8.1.2 OSLC Servers **SHOULD** use the [Error resource](#) defined below as the basis for forming error responses.

8.1.3 OSLC Servers **SHOULD** return an [Error resource](#) using the same representation format requested by the client via the HTTP **Accept**

request header. [HTTP11]

8.1.4 OSLC Servers **SHOULD** return an [Error resource](#) using the same representation format requested by the client via the HTTP [Accept request](#) header. [HTTP11]

8.1.5 OSLC Clients **SHOULD** treat the `oslc:statusCode` as a String that starts with digits, but may contain non-digit text.

8.2 Shape: Error

Used when servers may need a consistent shape to communicate error messages.

- **Name:** `Error`
- **URI:** `http://open-services.net/ns/core#Error`
- **Summary:** OSLC Core Error Shape

Error Properties

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
<code>oslc:extendedError</code>	Zero-or-one	true	AnyResource	Either	<code>oslc:ExtendedError</code>	Extended error information
<code>oslc:message</code>	Exactly-one	true	string	N/A	Unspecified	An informative message describing the error that occurred.
<code>oslc:statusCode</code>	Exactly-one	true	string	N/A	Unspecified	The HTTP status code reported with the error.

8.3 Shape: ExtendedError

Additional details about an error the server had when processing the request.

- **Name:** `ExtendedError`
- **URI:** `http://open-services.net/ns/core#ExtendedError`
- **Summary:** OSLC Core ExtendedError Shape

ExtendedError Properties

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
<code>oslc:hintHeight</code>	Zero-or-one	true	string	N/A	Unspecified	Values MUST be expressed in relative length units as defined in the W3C Cascading Style Sheets Specification (CSS 2.1) Em and ex units are interpreted relative to the default system font (at 100% size).
<code>oslc:hintWidth</code>	Zero-or-one	true	string	N/A	Unspecified	Values MUST be expressed in relative length units as defined in the W3C Cascading Style Sheets Specification (CSS 2.1) Em and ex units are interpreted relative to the default system font (at 100% size)
<code>oslc:moreInfo</code>	Zero-or-one	true	Resource	Reference	Unspecified	A resource giving more information on the error SHOULD be of an HTML content-type.
<code>oslc:rel</code>	Zero-or-one	true	string	N/A	Unspecified	If present and set to 'alternate' then indicates that work-around is provided, behavior for other values is

<i>Prefixed Name</i>	<i>Occurs</i>	<i>Read-only</i>	<i>Value-type</i>	<i>Representation</i>	<i>Range</i>	<i>Description</i>
						undefined.

See [section A. Terms](#) for details on error property terms.

9. Terms for describing vocabularies

9.1 Inverse Labels

The [W3C RDF Schema vocabulary](#) defines the vocabulary annotation property `rdfs:label`. This property is intended to provide a human-readable description for a resource's name. It is often used to provide a label for RDF properties. [\[LinkGuidance\]](#) discourages the creation of inverse predicates. However, there is still a need for a property, like `rdfs:label`, to specify an inverse label for a predicate.

For example, consider the OSLC Requirements Management (RM) property `oslc_rm:validatedBy`. When used as the predicate of a triple, this property is used to assert that the subject resource, e.g. a Requirement, is validated by the object resource, e.g. a TestCase. The `rdfs:label` for this property is “validatedBy”.

Now consider the user interface of a query builder that allows users to build queries about TestCases. It is natural for the query builder to present the user with a list of the properties that apply to TestCases. Suppose the user wants to build a query that returns all **that Requirements** that are validated by a TestCase. The query builder should describe the available properties from the point of view of the TestCase. This implies that the query builder should describe the inverse relation asserted by any triple that has the TestCase as an object. In our example, the query builder should describe `oslc_rm:validatedBy` as “validates”.

The `oslc:inverseLabel` property provides a human-readable label for the inverse of the subject property.

For example, the following triple (in Turtle notation) would be added to the OSLC RM vocabulary:

EXAMPLE 1

```
oslc_rm:validatedBy oslc:inverseLabel "validates".
```

It should be noted that the use of inverse labels is independent of the existence of explicit RDF inverse properties. However, if an inverse property is defined by some vocabulary, then a consistent label should be used in order to avoid confusion. In general, it is good practice to avoid the creation of inverse properties since it creates redundant information and complicates SPARQL queries. Instead, a single property should be wherever possible and it should be given an inverse label in order to describe the property from the perspective of the object.

For example, the [OSLC Quality Management \(QM\) vocabulary](#) defines two properties that are approximately inverse to `oslc_rm:validatedBy`. These are `oslc_qm:validatesRequirement` and `oslc_qm:validatesRequirementCollection`. In this case the choice of inverse label “validates” for `oslc_rm:validatedBy` is consistent with the actual labels of the inverse properties, namely “validatesRequirement” and “validatesRequirementCollection”.

9.2 Traceability and Impact type

This section is non-normative.

Some RDF properties express dependency relations between artifacts, and it is often very valuable to trace the impact of a change in an artifact to those artifacts that depend on it directly or indirectly. The concept of dependency is very general. For example, the concept of trace relations is described in SysML: “A generic trace requirement relationship provides a general-purpose relationship between a requirement and any other model element. The semantics of trace include no real constraints and therefore are quite weak.”

As a general guideline, if any triple that uses a given predicate may become invalid if the state of either its subject or object resources change, then we may legitimately regard that predicate as expressing a dependency relation, in which case it may be useful to explicitly describe the nature of the dependency.

In a dependency relationship, the dependent resource is said to be downstream from the artifact it depends on. The artifact it depends on is said to be upstream from the dependent artifact. This terminology reflects the normal flow of work in the sense that artifacts flow downstream where new dependent artifacts are created.

For example, a requirement is said to be upstream from a testcase that validates it because the requirement is normally created before the testcase. Of course, it is possible that the testcase gets created first and then the requirement is abstracted from it. However, the conceptual relation between requirements and testcases is that requirements are prior and drive the creation of testcases.

The property `oslc:impactType` asserts that the subject property is a dependency relation and gives the direction of impact. The resources `oslc:UpstreamImpact` and `oslc:DownstreamImpact` identify the upstream and downstream directions. In addition, `oslc:SymmetricImpact` describes a symmetric dependency relation in which there is no clear upstream or downstream direction. Finally, it may in some cases be useful to assert that two artifacts are independent. The latter is described using `oslc:NoImpact`.

For example, the following triple (in Turtle notation) would be added a vocabulary:

EXAMPLE 2

```
ex:validatedBy oslc:impactType oslc:DownstreamImpact .
```

The following triples would be added to a vocabulary:

EXAMPLE 3

```
ex:validatesRequirement oslc:impactType oslc:UpstreamImpact .
ex:validatesRequirementCollection oslc:impactType oslc:UpstreamImpact.
```

10. Discovery

No additional discovery needs. Vocabulary terms are discovered via published vocabulary documents at the OSLC Core namespace and shapes at advertised URLs.

A. Terms

A.1 Vocabulary Details

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

All vocabulary URIs defined in the OSLC Core namespace.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>
- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/oslc-core.html>

A.1.1 RDFS Classes in this namespace

[AttachmentContainer](#), [AttachmentDescriptor](#), [Comment](#), [Compact](#), [CreationFactory](#), [Dialog](#), [Discussion](#), [Error](#), [ExtendedError](#), [OAuthConfiguration](#), [PrefixDefinition](#), [Preview](#), [Publisher](#), [QueryCapability](#), [ResponseInfo](#), [Service](#), [ServiceProvider](#), [ServiceProviderCatalog](#),

A.1.2 RDF Properties in this namespace

[allowedValue](#), [allowedValues](#), [archived](#), [attachment](#), [attachmentSize](#), [authorizationURI](#), [comment](#), [creation](#), [creationDialog](#), [creationFactory](#), [defaultValue](#), [describes](#), [details](#), [dialog](#), [discussedBy](#), [discussionAbout](#), [domain](#), [executes](#), [extendedError](#), [futureAction](#), [hidden](#), [hintHeight](#), [hintWidth](#), [icon](#), [iconAltLabel](#), [iconSrcSet](#), [iconTitle](#), [impactType](#), [inReplyTo](#), [instanceShape](#), [inverseLabel](#), [isMemberProperty](#), [label](#), [maxSize](#), [message](#), [modifiedBy](#), [moreInfo](#), [name](#), [nextPage](#), [oauthAccessTokenURI](#), [oauthConfiguration](#), [oauthRequestTokenURI](#), [occurs](#), [partOfDiscussion](#), [prefix](#), [prefixBase](#), [prefixDefinition](#), [property](#), [propertyDefinition](#), [queryBase](#), [queryCapability](#), [range](#), [readOnly](#), [rel](#), [representation](#), [resourceShape](#), [resourceType](#), [results](#), [selectionDialog](#), [service](#), [serviceProvider](#), [serviceProviderCatalog](#), [shortId](#), [shortTitle](#), [statusCode](#), [totalCount](#), [usage](#), [valueShape](#), [valueType](#),

A.1.3 RDF Descriptions(Individuals) in this namespace

[DownstreamImpact](#), [NoImpact](#), [SymmetricImpact](#), [UpstreamImpact](#),

A.1.4 AttachmentContainer

<http://open-services.net/ns/core#AttachmentContainer> *AttachmentContainer* is an RDFS class.

An LDP-C that contains attachments for a resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/attachments.html>

A.1.5 AttachmentDescriptor

<http://open-services.net/ns/core#AttachmentDescriptor> *AttachmentDescriptor* is an RDFS class.

An LDP-RS that contains additional data about an attachment.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/attachments.html>

A.1.6 Comment

<http://open-services.net/ns/core#Comment> *Comment* is an RDFS class.

A Comment resource represents a single note, or comment, in a discussion thread.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.7 Compact

<http://open-services.net/ns/core#Compact> *Compact* is an RDFS class.

A resource describing how to display a link and Preview for another, associated resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.8 CreationFactory

<http://open-services.net/ns/core#CreationFactory> *CreationFactory* is an RDFS class.

The CreationFactory definition included in a ServiceProvider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.9 Dialog

<http://open-services.net/ns/core#Dialog> *Dialog* is an RDFS class.

Describes information about a dialog such as its title and dimensions.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/dialogs.html>

A.1.10 Discussion

<http://open-services.net/ns/core#Discussion> *Discussion* is an RDFS class.

A Discussion resource is intended to represent a sequence of comments or notes regarding the associated resource

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.11 Error

<http://open-services.net/ns/core#Error> *Error* is an RDFS class.

Basis for forming an error response.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.12 ExtendedError

<http://open-services.net/ns/core#ExtendedError> *ExtendedError* is an RDFS class.

Extended error information.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.13 OAuthConfiguration

<http://open-services.net/ns/core#OAuthConfiguration> *OAuthConfiguration* is an RDFS class.

The OAuthConfiguration definition included in ServiceProvider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.14 PrefixDefinition

<http://open-services.net/ns/core#PrefixDefinition> *PrefixDefinition* is an RDFS class.

The PrefixDefinition definition included in ServiceProvider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.15 Preview

<http://open-services.net/ns/core#Preview> *Preview* is an RDFS class.

TAn HTML representation of a resource that can be embedded in another user interface.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.16 Publisher

<http://open-services.net/ns/core#Publisher> *Publisher* is an RDFS class.

The Publisher definition included in ServiceProvider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.17 QueryCapability

<http://open-services.net/ns/core#QueryCapability> *QueryCapability* is an RDFS class.

The QueryCapability definition included in a ServiceProvider.

See Also:

- http://open-services.net/bin/view/Main/OslcCoreSpecification#Query_Capabilities

A.1.18 ResponseInfo

<http://open-services.net/ns/core#ResponseInfo> *ResponseInfo* is an RDFS class.

The ResponseInfo included in query results.

See Also:

- http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_ResponseInfo

A.1.19 Service

<http://open-services.net/ns/core#Service> *Service* is an RDFS class.

The Service definition included in a ServiceProvider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.20 ServiceProvider

<http://open-services.net/ns/core#ServiceProvider> *ServiceProvider* is an RDFS class.

The Service Provider resource

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.21 ServiceProviderCatalog

<http://open-services.net/ns/core#ServiceProviderCatalog> *ServiceProviderCatalog* is an RDFS class.

The Service Provider Catalog resource

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.22 allowedValue

<http://open-services.net/ns/core#allowedValue> *allowedValue* is an RDF property.

value allowed for a property.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.23 allowedValues

<http://open-services.net/ns/core#allowedValues> *allowedValues* is an RDF property.

Resource with allowed values for the property being defined. Range of `oslc:AllowedValues`

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.24 archived

<http://open-services.net/ns/core#archived> *archived* is an RDF property.

Indicates whether the subject has been marked as archived, no longer an actively updating resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.25 attachment

<http://open-services.net/ns/core#attachment> *attachment* is an RDF property.

An attachment associated with a resource. May be used as a membership predicate for an attachment container.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/attachments.html>

A.1.26 attachmentSize

<http://open-services.net/ns/core#attachmentSize> *attachmentSize* is an RDF property.

Size in bytes of the attachment content.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/attachments.html>

A.1.27 authorizationURI

<http://open-services.net/ns/core#authorizationURI> *authorizationURI* is an RDF property.

URI for obtaining OAuth authorization.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.28 comment

<http://open-services.net/ns/core#comment> *comment* is an RDF property.

Comment about the resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.29 creation

<http://open-services.net/ns/core#creation> *creation* is an RDF property.

To create a new resource via the factory, post it to this URI.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.30 creationDialog

<http://open-services.net/ns/core#creationDialog> *creationDialog* is an RDF property.

Enables clients to create a resource via UI.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/dialogs.html>

A.1.31 creationFactory

<http://open-services.net/ns/core#creationFactory> *creationFactory* is an RDF property.

Enables clients to create new resources.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.32 defaultValue

<http://open-services.net/ns/core#defaultValue> *defaultValue* is an RDF property.

A default value for property, inlined into property definition.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.33 describes

<http://open-services.net/ns/core#describes> *describes* is an RDF property.

This shape describes resources that are of the RDF type given by the object of the `oslc:describes` predicate. Formally, a shape *S* applies to a resource *R* if there is a triple *R* `rdf:type` *T* and there is a triple *S* `oslc:describes` *T*.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>
- <http://open-services.net/ns/core#ResourceShape>

A.1.34 details

<http://open-services.net/ns/core#details> *details* is an RDF property.

A URL that may be used to retrieve a resource to determine additional details about the service provider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.35 dialog

<http://open-services.net/ns/core#dialog> *dialog* is an RDF property.

The URI of the HTML dialog.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/dialogs.html>

A.1.36 discussedBy

<http://open-services.net/ns/core#discussedBy> *discussedBy* is an RDF property.

A series of notes and comments about this resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.37 discussionAbout

<http://open-services.net/ns/core#discussionAbout> *discussionAbout* is an RDF property.

Reference to associated resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.38 domain

<http://open-services.net/ns/core#domain> *domain* is an RDF property.

Namespace URI of the specification that is implemented by this service. In most cases this namespace URI will be for an OSLC domain, but other URIs **MAY** be used.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.39 executes

<http://open-services.net/ns/core#executes> *executes* is an RDF property.

Link from a currently available action to the future action it realizes.

See Also:

- <http://open-services.net/wiki/automation/OSLC-Automation-Specification-Version-2.1/#Future-actions>
- <http://open-services.net/wiki/core/Actions-2.0/#Future-actions>

A.1.40 extendedError

<http://open-services.net/ns/core#extendedError> *extendedError* is an RDF property.

Extended (additional) error information.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.41 futureAction

<http://open-services.net/ns/core#futureAction> *futureAction* is an RDF property.

A predicate that links to an action that is not currently executable on the subject resource, but may be executable in the future and/or on other resources. For example, in OSLC Automation this is expected to link from an `oslc_auto:AutomationPlan` to an `oslc:Action` resource with zero bindings (as it is not executable), with the meaning that the executable form of the action may be available on `oslc_auto:AutomationResult` resources generated by executing that Automation Plan. Similarly, resource shapes can allow discovery of actions available on the output of a creation factory.

See Also:

- <http://open-services.net/wiki/automation/OSLC-Automation-Specification-Version-2.1/#Future-actions>
- <http://open-services.net/wiki/core/Actions-2.0/#Future-actions>

A.1.42 hidden

<http://open-services.net/ns/core#hidden> *hidden* is an RDF property.

A hint that indicates that property **MAY** be hidden when presented in a user interface.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.43 hintHeight

<http://open-services.net/ns/core#hintHeight> *hintHeight* is an RDF property.

Preferred height of a delegated user interface. Values must be expressed using length units as specified in Cascading Style Sheets 2.1.

See Also:

- <http://www.w3.org/TR/CSS2/>
- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.44 *hintWidth*

<http://open-services.net/ns/core#hintWidth> *hintWidth* is an RDF property.

Preferred width of a delegated user interface. Values must be expressed using length units as specified in Cascading Style Sheets 2.1.

See Also:

- <http://www.w3.org/TR/CSS2/>
- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.45 *icon*

<http://open-services.net/ns/core#icon> *icon* is an RDF property.

URI of an image applicable to the resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.46 *iconAltLabel*

<http://open-services.net/ns/core#iconAltLabel> *iconAltLabel* is an RDF property.

Alternative label used in association with the `oslc:icon`, such as HTML `img` tag's `alt` attribute.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.47 *iconSrcSet*

<http://open-services.net/ns/core#iconSrcSet> *iconSrcSet* is an RDF property.

Specification of a set of images of different sizes based on HTML `img` element `srcset` attribute.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.48 *iconTitle*

<http://open-services.net/ns/core#iconTitle> *iconTitle* is an RDF property.

Title used in association with the `oslc:icon`, such as HTML `img` tag's `title` attribute.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.49 *impactType*

<http://open-services.net/ns/core#impactType> *impactType* is an RDF property.

Asserts that the subject property is a dependency relation and gives the direction of impact.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.50 *inReplyTo*

<http://open-services.net/ns/core#inReplyTo> *inReplyTo* is an RDF property.

Reference to comment this comment is in reply to.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.51 *instanceShape*

<http://open-services.net/ns/core#instanceShape> *instanceShape* is an RDF property.

The URI of a Resource Shape that describes the possible properties.

See Also:

- <http://open-services.net/ns/core#ResourceShape>
- http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#OSLC_Properties

A.1.52 *inverseLabel*

<http://open-services.net/ns/core#inverseLabel> *inverseLabel* is an RDF property.

Provides a human-readable label for the inverse of the subject property.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.53 *isMemberProperty*

<http://open-services.net/ns/core#isMemberProperty> *isMemberProperty* is an RDF property.

Used to define when a property is a member of a container, useful for query.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.54 *label*

<http://open-services.net/ns/core#label> *label* is an RDF property.

Very short label for use in menu items.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.55 *maxSize*

<http://open-services.net/ns/core#maxSize> *maxSize* is an RDF property.

For String properties only, specifies maximum characters allowed. If not set, then there is no maximum or maximum is specified elsewhere.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.56 *message*

<http://open-services.net/ns/core#message> *message* is an RDF property.

An informative message describing the error that occurred.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.57 *modifiedBy*

<http://open-services.net/ns/core#modifiedBy> *modifiedBy* is an RDF property.

The URI of a resource describing the entity that most recently modified this resource. The link target is usually a foaf:Person or foaf:Agent, but could be any type. This is modeled after dcterms:creator, but Dublin Core currently has no equivalent property.

See Also:

- <http://dublincore.org/documents/dcmi-terms/#terms-creator>
- http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#OSLC_Properties

A.1.58 moreInfo

<http://open-services.net/ns/core#moreInfo> *moreInfo* is an RDF property.

A resource giving more information on the error **SHOULD** be of an HTML content-type.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.59 name

<http://open-services.net/ns/core#name> *name* is an RDF property.

Name of property being defined, i.e. second part of property's Prefixed Name. For all other uses, consider dcterms:title, rdfs:label, oslc:shortTitle or oslc:label

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.60 nextPage

<http://open-services.net/ns/core#nextPage> *nextPage* is an RDF property.

Link to next page of response.

See Also:

- http://open-services.net/bin/view/Main/OslcCoreSpecification#Response_Information

A.1.61 oauthAccessTokenURI

<http://open-services.net/ns/core#oauthAccessTokenURI> *oauthAccessTokenURI* is an RDF property.

URI for obtaining OAuth access token.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.62 oauthConfiguration

<http://open-services.net/ns/core#oauthConfiguration> *oauthConfiguration* is an RDF property.

Defines the three OAuth URIs required for a client to act as an OAuth consumer.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.63 oauthRequestTokenURI

<http://open-services.net/ns/core#oauthRequestTokenURI> *oauthRequestTokenURI* is an RDF property.

URI for obtaining OAuth request token.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.64 occurs

<http://open-services.net/ns/core#occurs> *occurs* is an RDF property.

MUST be either <http://open-services.net/ns/core#Exactly-one>, <http://open-services.net/ns/core#Zero-or-one>, <http://open-services.net/ns/core#Zero-or-many> or <http://open-services.net/ns/core#One-or-many>.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.65 partOfDiscussion

<http://open-services.net/ns/core#partOfDiscussion> *partOfDiscussion* is an RDF property.

Reference to owning Discussion resource .

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.66 prefix

<http://open-services.net/ns/core#prefix> *prefix* is an RDF property.

Namespace prefix to be used for this namespace.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.67 prefixBase

<http://open-services.net/ns/core#prefixBase> *prefixBase* is an RDF property.

The base URI of the namespace.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.68 prefixDefinition

<http://open-services.net/ns/core#prefixDefinition> *prefixDefinition* is an RDF property.

Defines a namespace prefix for use in JSON representations and in forming OSLC Query Syntax strings.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.69 property

<http://open-services.net/ns/core#property> *property* is an RDF property.

The properties that are allowed or required by this shape.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.70 propertyDefinition

<http://open-services.net/ns/core#propertyDefinition> *propertyDefinition* is an RDF property.

URI of the property whose usage is being described.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.71 queryBase

<http://open-services.net/ns/core#queryBase> *queryBase* is an RDF property.

The base URI to use for queries. Queries may be invoked either by HTTP GET or HTTP POST. For HTTP GET, a query URI is formed by appending a key=value pair to the base URI. For HTTP POST, the query parameters are encoded as content with media type application/x-www-form-urlencoded and sent in the request body. The base URI **MAY** accept other query languages and media types in the request body, e.g. application/sparql-query for SPARQL queries.

See Also:

- http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Query_Capability

A.1.72 queryCapability

<http://open-services.net/ns/core#queryCapability> *queryCapability* is an RDF property.

Enables clients query across a collection of resources.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.73 range

<http://open-services.net/ns/core#range> *range* is an RDF property.

For properties with a resource value-type, Providers **MAY** also specify the range of possible resource types allowed, each specified by URI. The default range is <http://open-services.net/ns/core#Any>.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.74 readOnly

<http://open-services.net/ns/core#readOnly> *readOnly* is an RDF property.

true if the property is read-only. If omitted, or set to false, then the property is writable. Providers **SHOULD** declare a property read-only when changes to the value of that property will not be accepted after the resource has been created, e.g. on PUT/PATCH requests. Consumers should note that the converse does not apply: Providers **MAY** reject a change to the value of a writable property.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.75 rel

<http://open-services.net/ns/core#rel> *rel* is an RDF property.

If present and set to 'alternate' then indicates that work-around is provided, behavior for other values is undefined.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.76 representation

<http://open-services.net/ns/core#representation> *representation* is an RDF property.

Should be <http://open-services.net/ns/core#Reference>, <http://open-services.net/ns/core#Inline> or <http://open-services.net/ns/core#Either>

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.77 resourceShape

<http://open-services.net/ns/core#resourceShape> *resourceShape* is an RDF property.

A Creation Factory **MAY** provide Resource Shapes that describe shapes of resources that may be created.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.78 resourceType

<http://open-services.net/ns/core#resourceType> *resourceType* is an RDF property.

The expected resource type URI of the resource that will be created using this creation factory. These would be the URIs found in the result resource's `rdf:type` property.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.79 results

`http://open-services.net/ns/core#results` *results* is an RDF property.

Used to hold the results of dialog action or JSON query results (default). The JSON query result attribute 'oslc:results' is used whenever a provider doesn't have a suitable property already in its model for such purposes.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/dialogs.html>

A.1.80 selectionDialog

`http://open-services.net/ns/core#selectionDialog` *selectionDialog* is an RDF property.

Enables clients to select a resource via a UI.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/dialogs.html>

A.1.81 service

`http://open-services.net/ns/core#service` *service* is an RDF property.

Describes a service offered by the service provider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.82 serviceProvider

`http://open-services.net/ns/core#serviceProvider` *serviceProvider* is an RDF property.

A link to the resource's OSLC Service Provider.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.83 serviceProviderCatalog

`http://open-services.net/ns/core#serviceProviderCatalog` *serviceProviderCatalog* is an RDF property.

Additional service provider catalog.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.84 shortId

`http://open-services.net/ns/core#shortId` *shortId* is an RDF property.

Shorter form of `dcterms:identifier` for the resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.85 shortTitle

`http://open-services.net/ns/core#shortTitle` *shortTitle* is an RDF property.

Shorter form of `dcterms:title` for the resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/resource-preview.html>

A.1.86 statusCode

<http://open-services.net/ns/core#statusCode> *statusCode* is an RDF property.

The HTTP status code reported with the error.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.87 totalCount

<http://open-services.net/ns/core#totalCount> *totalCount* is an RDF property.

This optional property indicates the total number of results across all pages, its value should be non-negative. In the context of a query resource, this value **SHOULD** be the total number of results, i.e. the number of resources that match the query. In the context of other resources, the value **SHOULD** be the total number of property values (i.e. RDF triples) of the resource. Unless Stable Paging is in effect, the total count **MAY** vary as a client retrieves subsequent pages.

See Also:

- http://open-services.net/bin/view/Main/OslcCoreSpecification#Response_Information

A.1.88 usage

<http://open-services.net/ns/core#usage> *usage* is an RDF property.

An identifier URI for the domain specified usage of this creation factory. If a service provides multiple creation factories, it may designate the primary or default one that should be used with a property value of <http://open-services.net/ns/core#default>.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/discovery.html>

A.1.89 valueShape

<http://open-services.net/ns/core#valueShape> *valueShape* is an RDF property.

if the value-type is a resource type, then Property **MAY** provide a shape value to indicate the Resource Shape that applies to the resource.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.90 valueType

<http://open-services.net/ns/core#valueType> *valueType* is an RDF property.

A URI that indicates the value type, for example XML Schema or RDF URIs for literal value types, and OSLC-specified for others. If this property is omitted, then the value type is unconstrained.

See Also:

- <http://open-services.net/bin/view/Main/OslcCoreSpecification>

A.1.91 DownstreamImpact

<http://open-services.net/ns/core#DownstreamImpact> *DownstreamImpact* is an RDF description.

Subject resources, indicated by triples of the subject property, have a downstream impact from the object resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.92 NoImpact

<http://open-services.net/ns/core#NoImpact> *NoImpact* is an RDF description.

Asserts that two artifacts are independent.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.93 SymmetricImpact

<http://open-services.net/ns/core#SymmetricImpact> *SymmetricImpact* is an RDF description.

Dependency relation in which there is no clear upstream or downstream direction.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

A.1.94 UpstreamImpact

<http://open-services.net/ns/core#UpstreamImpact> *UpstreamImpact* is an RDF description.

Subject resources, indicated by triples of the subject property, have an upstream impact from the object resource.

See Also:

- <https://tools.oasis-open.org/version-control/svn/oslc-core/trunk/specs/core-vocab.html>

B. Acknowledgments

This section is non-normative.

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C. References

C.1 Normative references

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