



(<http://open-services.net/>)

OSLC Architecture Management Specification Version 2.0

New here? [Sign up!](http://open-services.net/forums/member/register) (<http://open-services.net/forums/member/register>)

-
-
- [Recent changes](http://open-services.net/wiki/architecture-management/Special:Recentchanges) (<http://open-services.net/wiki/architecture-management/Special:Recentchanges>)
-
- [Architecture Management home](http://open-services.net/wiki/architecture-management) (<http://open-services.net/wiki/architecture-management>)
- [All pages](http://open-services.net/wiki/architecture-management/Special:Titles) (<http://open-services.net/wiki/architecture-management/Special:Titles>)
- [Categories](http://open-services.net/wiki/architecture-management/Special:Categories) (<http://open-services.net/wiki/architecture-management/Special:Categories>)
- [Random Page](http://open-services.net/wiki/architecture-management/Special:Random_page) (http://open-services.net/wiki/architecture-management/Special:Random_page)
-
-
-
- [Uploaded Files](http://open-services.net/wiki/architecture-management/Special:Files) (<http://open-services.net/wiki/architecture-management/Special:Files>)
-
- [RSS](http://open-services.net/wiki/architecture-management/rss/) (<http://open-services.net/wiki/architecture-management/rss/>)
-
- [Basic syntax guide](http://stackoverflow.com/editing-help) (<http://stackoverflow.com/editing-help>)
- [Linking and categories syntax](http://expressionengine.com/user_guide/modules/wiki/wiki_syntax.html) (http://expressionengine.com/user_guide/modules/wiki/wiki_syntax.html)

Want to contribute?

1. [Register](http://open-services.net/forums/member/register) ([/forums/member/register/](http://open-services.net/forums/member/register))
2. [Complete Members Agreement](http://open-services.net/legal-agreements/members-agreement/) ([/legal-agreements/members-agreement/](http://open-services.net/legal-agreements/members-agreement/))
3. [Complete WPA](http://open-services.net/legal-agreements/architecture-management-wpa) (<http://open-services.net/legal-agreements/architecture-management-wpa>)

[Mailing list](http://open-services.net/mailman/listinfo/oslc-am_open-services.net) (http://open-services.net/mailman/listinfo/oslc-am_open-services.net)

[Workgroup information](http://open-services.net/workgroups/architecture-management) (<http://open-services.net/workgroups/architecture-management>)

[History](http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/history) (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/history>) [View](http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0) (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0>) [Links to this page](http://open-services.net/wiki/architecture-management/Special:Associated_Pages/OSLC-Architecture-Management-Specification-Version-2.0) (http://open-services.net/wiki/architecture-management/Special:Associated_Pages/OSLC-Architecture-Management-Specification-Version-2.0) 2012 September 10 | 10:21 am

Status: 2.0 Specification - August 4, 2011

This Version

- <http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/> (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/>)

Latest Version

- <http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/> (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0/>)

Authors

- [JimConallen](http://open-services.net/bin/view/Main/JimConallen) (<http://open-services.net/bin/view/Main/JimConallen>)

Contributors

- [The OSLC Architecture Management Specification Workgroup](http://open-services.net/wiki/architecture-management/index) (<http://open-services.net/wiki/architecture-management/index>)

Table of Contents

Contents

- [Overview](#)
 - [Terminology](#)
- [Base Requirements](#)
 - [Compliance](#)
 - [Specification Versioning](#)
 - [Namespaces](#)
 - [Resource Formats](#)
 - [Resource Operations](#)
 - [Authentication](#)
 - [Error Responses](#)
 - [Pagination](#)
 - [Requesting and Updating Properties](#)
 - [Requesting a Subset of Properties](#)
 - [Updating a Subset of Properties](#)
 - [Updating Multi-Valued Properties](#)
- [AM Resource Definitions](#)
 - [Resource: Architecture Management Resource \(AMR\)](#)
 - [Resource: Link Type Resource \(LTR\)](#)
- [AM Service Provider Capabilities](#)
 - [Resource Shapes](#)
 - [Service Provider Resources](#)
 - [Creation Factories](#)
 - [Query Capabilities](#)
 - [Delegated UIs](#)
- [Appendix A: Samples](#)
- [Appendix B: Resource Shapes](#)
- [Appendix C: Notices and References](#)
 - [Authors and Contact Information](#)
 - [Reporting Issues on the Specification](#)
 - [Intellectual Property Covenant](#)
 - [References](#)



This work is licensed under a [Creative Commons Attribution License \(http://creativecommons.org/licenses/by/3.0/us/\)](http://creativecommons.org/licenses/by/3.0/us/).

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 [RFC-2119 \(http://www.ietf.org/rfc/rfc2119.txt\)](http://www.ietf.org/rfc/rfc2119.txt). This document is a mixture of normative and informative text. See the [the glossary \(http://open-services.net/bin/view/Main/OslcCoreSpecification#TheGlossary\)](http://open-services.net/bin/view/Main/OslcCoreSpecification#TheGlossary) below for definitions of these terms.

Overview

(this section is informative)

The general approach taken by the Architecture Management (AM) workgroup follows the OSLC Change Management team’s lead by not attempting to re-define model storage formats or even model or other architecture management resource notations, but rather extract out a least common denominator, that could be managed by an AM server, and still be useful to the overall goal of architecture management in a collaborative ALM environment. This does not prevent knowledgeable clients from getting and making use of internal resource content.

The AM resource properties are not limited to the ones defined in this specification. It is recommended to contribute resource properties in their own unique namespace. Service providers **MUST NOT** reuse or re-define properties or terms defined in this specification.

This specification is a [OSLC Core 2.0 \(http://open-services.net/bin/view/Main/OslcCoreSpecification\)](http://open-services.net/bin/view/Main/OslcCoreSpecification) compliant specification, as such most of its content are references to the Core 2.0 specification.

Terminology

Resource - An artifact used in the ALM space. A resource is directly addressable with an absolute URL.

Architecture Management Resource (AMR) - Directly addressable resources of some domain/notation (i.e. UML, BPMN, ER) that represent an abstraction of some behavior or construct of a system under development. An AMR maintains its identity after refactoring. In the semantic web, an AMR might correspond to a graph that is an instance of some vocabulary or micro-theory.

Link - A logical relationship from one resource to another resource. An OSLC AM Link is uni-directional. The subject (source) of a link represents the resource that ‘knows about’ and is referencing another resource (target). The type of relationship is given by a predicate URI (link type). In semantic web terminology, a link would correspond to an RDF statement with a subject (source) a predicate (type) and object (target). The predicate could be defined by property in an RDF schema.

Link Type (LT) - A URI that represents the type of a link. In semantic web terminology it is the predicate of an RDF triple. It clarifies the type of relationship between two resources. Link Type URIs may be defined locally, within the OSLC, or externally (i.e. Dublin Core terms). Link types could be defined in RDF Schemas.

Link Type Resource (LTR) - A resource that contains human consumable information about a Link Type, like its human readable name and description. The resource is managed by the AM provider. The information may be about a Link Type in a different domain (i.e. Dublin Core Terms or OWL). The main use of a LTR is for clients who want to build a UI for users that clearly labels potential link types.

Service Provider - An implementation of the OSLC Architecture Management specifications as a server. OSLC AM clients consume these service.

Service Description Resource - an informational resource describing the capabilities and contextual configuration needed for a set of Architecture Management-specific services.

Service Description Document - the representation of a Architecture Management Services Resource.

Base Requirements

The following is a summary of OSLC AM Service Provider Requirements.

Requirement	Level	Comment
Service provider resource (http://open-services.net/bin/view/Main/OslcCoreSpecification#Service_Provider_Resources)	MUST	Service providers MUST provide a service provider resource (http://open-services.net/ns/core#ServiceProvider) for clients to discover service endpoints.
Absolute URIs (http://open-services.net/bin/view/Main/OslcCoreSpecification#OSLC_Defined_Resource_Representa)	MUST	Service providers MUST use absolute URIs for all references to resources by properties.
RDF/XML format (http://open-services.net/bin/view/Main/OslcCoreSpecification#OSLC_Defined_Resource_Representa)	MUST	Service providers MUST provide RDF/XML representations for all resources. Service providers MUST accept valid GET requests with <code>application/rdf+xml</code> Accept headers.
HTTP REST services (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Operations)	MUST	Service providers MUST provide standard HTTP based REST services using standard HTTP responses for resource access.
HTTP If-Match use (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Operations)	MUST	If service providers support update and delete of resources MUST support the standard <code>HTTP If-Match</code> header in PUT and DELETE for concurrency protection of resources.
Resource Query Capability (http://open-services.net/bin/view/Main/OslcCoreSpecification#Query_Capabilities)	MUST	Service providers MUST support a query interface for <code>oslc_am:Resource</code> resources.
Authentication (http://open-services.net/bin/view/Main/OslcCoreSpecification#Authentication)	SHOULD	Service providers SHOULD provide at least one OSLC Core recognized form of authentication (Basic, Form, or OAuth).
Link Type Query Capability (http://open-services.net/bin/view/Main/OslcCoreSpecification#Query_Capabilities)	SHOULD	Service providers SHOULD support a query interface for <code>oslc_am:LinkType</code> resources that support a GET for all link type resources. Such a GET does not require any simple query syntax parameters. Service providers MAY support the full query syntax for Link Type resources.
Delegated selection UI (http://open-services.net/bin/view/Main/OslcCoreSpecification#Delegated_User_Interface_Dialogs)	SHOULD	Service providers SHOULD support the OSLC Core 2.0 Delegated UI specification for resource selection of <code>oslc_am:Resource</code> resources.
Error format (http://open-services.net/bin/view/Main/OslcCoreSpecification#Error_Responses)	SHOULD	Service providers SHOULD support the OSLC Core 2.0 common error response format.
Paging of queries (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Paging)	SHOULD	Service providers SHOULD support paging of query results.
HTTP resource PUT/DELETE (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Operations)	SHOULD	Service providers SHOULD support resource modifications with standard HTTP PUT and DELETE methods. Service providers MAY limit modifications in any way they want.
Service provider catalog (http://open-services.net/bin/view/Main/OslcCoreSpecification#Service_Provider_Resources)	MAY	Service providers MAY organize services they provide on a context or project basis and use the OSLC define catalog resource to organize them.
Creation Factory (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Operations)	MAY	Service providers MAY provide creation factories for resource formats that it supports. Service providers MAY support creation factories for OSLC AM defined resources formatted as <code>application/rdf+xml</code> . Service providers MAY support creation factories for other formats, and will indicate such with a non-default identifier in the <code>oslc:usage</code> property of the creation factory definition in the service provider document.
Ignore unknown content (http://open-services.net/bin/view/Main/OslcCoreSpecification#Unknown_properties_and_content)	MAY	Service providers MAY ignore unknown content, including link types that have not been registered with the server. Providers MAY discard such properties and continue the POST or PUT operation without warning to the client.
Partial update (http://open-services.net/bin/view/Main/OslcCoreSpecification#PartialUpdateDRAFT)	MAY	Service providers MAY support partial updates of resources (http://open-services.net/bin/view/Main/OslcCoreSpecification#PartialUpdateDRAFT) .
Paging of resource properties (http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Paging)	MAY	Service providers MAY page the results of a GET on a AM resource that contains a large number of properties.
Selective properties (http://open-services.net/bin/view/Main/OslcCoreSpecification#Selective_Property_Values)	MAY	Service providers MAY support selective properties on resource GET calls.
Delegated creation UI (http://open-services.net/bin/view/Main/OslcCoreSpecification#Delegated_User_Interface_Dialogs)	MAY	Service providers MAY support the OSLC Core 2.0 Delegated UI specification for resource creation.
Basic authentication (http://open-services.net/bin/view/Main/OslcCoreSpecification#HTTP_Basic_Authentication)	MAY	Service providers MAY support standard HTTP Basic authentication.
OAuth authentication (http://open-services.net/bin/view/Main/OslcCoreSpecification#OAuth_Authentication)	MAY	Service providers MAY support OAuth authentication.
Form authentication (http://open-services.net/bin/view/Main/OslcCoreSpecification#Form_Authentication)	MAY	Service providers MAY support standard HTTP Form based authentication.

The following is a summary of OSLC AM Client Requirements

Requirement	Level	Comment
Unknown properties and content	MUST	OSLC AM Clients MUST preserve unknown content when PUTing updates to resources.

Compliance

This specification is based on [OSLC Core Specification](http://open-services.net/bin/view/Main/OslcCoreSpecification). OSLC AM consumers and service providers **MUST** be compliant with both the core specification and this AM specification, and **SHOULD** follow all the guidelines and recommendations in both these specifications.

Specification Versioning

See [OSLC Core Specification Versioning section](http://open-services.net/bin/view/Main/OslcCoreSpecification#Specification_Versioning).

Service providers that support the resource formats and services in this specification **MUST** use HTTP response header of `OSLC-Core-Version` with a value of `2.0`. Consumers **MAY** request formats and services defined in this document by providing a HTTP request header of `OSLC-Core-Version` with a value of `2.0`.

Namespaces

In addition to the namespace URIs and namespace prefixes `oslc`, `rdf`, `dcterms` and `foaf` defined in the [OSLC Core specification](http://open-services.net/bin/view/Main/OslcCoreSpecification), this specification defines the namespace URI `http://open-services.net/ns/am#` with a namespace prefix of `oslc_am`.

Resource Formats

OSLC AM service providers **MUST** provide and accept RDF/XML formats in accordance with [OSLC Core Resource Formats](http://open-services.net/bin/view/Main/OslcCoreSpecification#Resource_Formats).

Resource Operations

OSLC AM clients **MUST** include the OSLC Core Version header (`OSLC-Core-Version: 2.0`) in all HTTP request to OSLC AM service providers.

OSLC AM service providers **MUST** support HTTP GET requests on [Architecture Management Resources \(AMR\)](#), with an Accept header of `application/rdf+xml`, and return the RDF/XML representation of the resource.

OSLC AM service providers **SHOULD** support HTTP GET requests on [Architecture Management Resources \(AMR\)](#), with an Accept header of an HTML type (`application/html`, `application/xhtml`), and return either an HTML/XHTML representation of the resource or redirect the client to another URL that can (i.e. 302 Redirect).

OSLC AM service providers **SHOULD** support HTTP GET requests for user interface (UI) preview of [Architecture Management Resources \(AMR\)](#) as defined by [UI Preview Guidance](http://open-services.net/bin/view/Main/OslcCoreUiPreview). (see [Delegated UIs](#)).

OSLC AM Service providers **SHOULD** support resource modifications on [Architecture Management Resources \(AMR\)](#) with standard HTTP PUT and DELETE methods. Service providers **MAY** limit modifications in any way they want. For example a service provider may limit updates to resources to simple link properties of link types already defined in the provider. Modification methods **SHOULD** use the If-Match header for concurrency management. Providers **MAY** discard such properties and continue a PUT operation without warning to the client.

OSLC AM Service providers **SHOULD** support resource modifications on Link Type Resources (LTR) with standard HTTP PUT and DELETE methods. Service providers **MAY** limit modifications in any way they want. For example a service provider may not support additional properties. Modification methods **SHOULD** use the If-Match header for concurrency management.

Authentication

See [OSLC Core Authentication section](http://open-services.net/bin/view/Main/OslcCoreSpecification#Authentication). OSLC AM puts no additional constraints on authentication.

Error Responses

See [OSLC Core Partial Update](http://open-services.net/bin/view/Main/OslcCorePartialUpdate). OSLC AM puts no additional constraints on error responses.

Pagination

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

Requesting and Updating Properties

Requesting a Subset of Properties

A service provider **MAY** support the `oslc.properties` 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, then all resource properties **MUST** be provided in the response.

Updating a Subset of Properties

A client **MAY** request that a subset of a resource's properties be updated by identifying those properties to be modified using the `oslc.properties` URL parameter on a HTTP PUT request.

Updating Multi-Valued Properties

A service provider **MAY** provide support for a partial update of the multi-valued properties as defined by [OSLC Core Partial Update](http://open-services.net/bin/view/Main/OslcCorePartialUpdate).

AM Resource Definitions

Property value types that are not defined in the following sections, are defined in [OSLC Core - Defining OSLC Properties](http://open-services.net/bin/view/Main/OslcCoreSpecification#Defining_OSLC_Properties).

There are two OSLC AM defined resources; Architecture Management Resource and Link Type Resource. OSLC AM defines a least common set of properties for resources, however service implementations are free to extend this set of properties. Clients **MUST** preserve properties it does not recognize when updating resources. Service providers **MAY** ignore properties that it does not recognize. Additional properties may come from existing vocabularies (ie. Dublin Core, OWL). When additional properties do not come from a known vocabulary, it is recommended that they exist in their own unique namespace, and providers **SHOULD NOT** reuse namespaces defined in these specifications.

All RDF/XML resources that include links with annotations **MUST** begin with an outer `<rdf:RDF>` element. This outer XML element is required to support the ability to include annotations on 'link' properties with additional `<rdf:Description>` elements [reifying statements](http://www.w3.org/TR/REC-rdf-syntax/#section-Syntax-reifying) about the link.

Service implementations and clients **MUST** be prepared to accept any form of valid RDF/XML. For example the following two resource forms are equivalent.

```

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslc_am="http://open-services.net/ns/am#"
  xmlns:dcterms="http://purl.org/dc/terms/">

  <oslc_am:Resource rdf:about="https://acme.com/resources/res1">
    <dcterms:title>Service Interface</dcterms:title>
    <dcterms:identifier>res1</dcterms:identifier>
    <oslc:serviceProvider rdf:resource="http://open-services.net/ns/am#" />
  </oslc_am:Resource>

</rdf:RDF></verbatim> is equivalent to <verbatim><rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/">

  <rdf:Description rdf:about="https://acme.com/resources/res1">
    <dcterms:title>Service Interface</dcterms:title>
    <dcterms:identifier>res1</dcterms:identifier>
    <rdf:type rdf:resource="http://open-services.net/ns/am#Resource" />
    <oslc:serviceProvider rdf:resource="http://open-services.net/ns/am#" />
  </rdf:Description>

</rdf:RDF>

```

Resource: Architecture Management Resource (AMR)

An Architecture Management Resource (AMR) is a generic resource format that can be used to represent any type of specific architecture resource like a UML Class, Use Case, or Business Process Diagram. Links from AMR resources are managed in accordance with the OSLC Core Guidance on [Links and Relationships](http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT) (<http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT>). They appear as simple properties in the resource. Links **MAY** include [inlined values for the target](http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT#Link_with_inlined_values_of_targ) (http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT#Link_with_inlined_values_of_targ) and **MAY** include [properties on the link itself](http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT#2_Anchor) (http://open-services.net/bin/view/Main/OSLCCoreLinksDRAFT#2_Anchor). Service providers **SHOULD** support Link Type Resources for clients to get a list of known and acceptable link properties.

- **Name:** Resource
- **Type URI** <http://open-services.net/ns/am#Resource>

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
dcterms:title	exactly-one	unspecified	XMLLiteral	n/a	n/a	Title (reference: Dublin Core) of the resource represented as rich text in XHTML content. 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. The resource type URIs. If the resource is not in the form where the XML element defines the <code>rdf:type</code> of the resource (i.e. uses <code>rdf:Description</code> instead of <code>oslc_am:Resource</code>) then a <code>rdf:type</code> element with a value of <code>http://open-services.net/ns/am#Resource</code> is required to type the resource.
oslc:serviceProvider	zero-or-many	unspecified	Resource	Reference	n/a	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.
dcterms:identifier	exactly-one	unspecified	String	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:description	zero-or-one	unspecified	XMLLiteral	n/a	n/a	A short string representation for the type, example 'Defect'.
dcterms:type	zero-or-many	unspecified	String	n/a	n/a	The resource URI a client can perform a get on to obtain the original non-OSLC AM formatted resource that was used to create this resource. The source resource is usually a binary or proprietary format that the service provider can consume and convert into an OSLC AM format. The service may use content negotiation with the Accept header to obtain the desired content type.
dcterms:source	zero-or-one	unspecified	Resource	Reference	any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#foaf_Person_Resource) but that is not necessarily the case.
dcterms:creator	zero-or-many	unspecified	Resource	Either	any	Contributor or contributors of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#foaf_Person_Resource) but that is not necessarily the case.
dcterms:contributor	zero-or-many	unspecified	Resource	Either	any	Timestamp of resource creation (reference: Dublin Core).
dcterms:created	zero-or-one	True	DateTime	n/a	n/a	Timestamp last latest resource modification (reference: Dublin Core).
dcterms:modified	zero-or-one	True	DateTime	n/a	n/a	The scope of a resource is a URI for the resource's OSLC Service Provider. oslc:ServiceProvider (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources)
oslc:instanceShape	zero-or-one	unspecified	Resource	Reference	oslc:ResourceShape (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#oslc_ResourceShape_Resource)	Resource Shape that provides hints as to resource property value-types and allowed values.

Resource: Link Type Resource (LTR)

A Link Type Resource (LTR) represents type of link that is or can be used when defining links from AM resources. The type has an ID (expressed as a string), whose universally accepted semantics may be defined elsewhere. This resource represents the definition as it is used by this service provider. This resource is meant as a convenience for clients to get a list of known/registered link types with human readable labels and definitions that can be used in client user interfaces when links are being created.

The resource defines the properties `rdfs:label` and `rdfs:comment` for the link type URI. The link type URI is made type: <http://open-services.net/ns/am#LinkType> (<http://open-services.net/ns/am#LinkType>) via an `rdf:type` property. The remaining properties may be properties of the link type URI, or on a separate resource managed by the service provider. In the case where the service provider owns the domain of the link type URI these can be the same, and all properties can be on the same link type URI.

- **Name:** LinkType
- **Type URI** <http://open-services.net/ns/am#LinkType>

Prefix Name	Occurs	Read-only	Value-type	Representation	Range	Description
rdfs:label	exactly-one	unspecified	String	n/a	n/a	The human readable name for this link type. This value is expected to be used in drop down lists and in tables where a link of this type is involved.
rdfs:comment	zero-or-one	unspecified	String	n/a	n/a	Descriptive text about link type. Provides a description of this link type that could be used in hover help or other areas of the UI where the user wants to understand more about what a link of this type means.

dcterms:identifier	exactly-one	unspecified String	n/a	n/a	A unique identifier for a resource. Assigned by the service provider when a resource is created. Not intended for end-user display.	
dcterms:creator	zero-or-many	unspecified Resource	Either	any	Creator or creators of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#foaf_Person_Resource) but that is not necessarily the case.	
dcterms:contributor	zero-or-many	unspecified Resource	Either	any	Contributor or contributors of resource (reference: Dublin Core). It is likely that the target resource will be an <code>foaf:Person</code> (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#foaf_Person_Resource) 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).
oslc:serviceProvider	zero-or-many	unspecified Resource	Reference		oslc:ServiceProvider (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources)	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 (http://open-services.net/bin/view/Main/OSLCCoreSpecAppendixA#oslc_ResourceShape_Resource)	Resource Shape that provides hints as to resource property value-types and allowed values.

AM Service Provider Capabilities

Resource Shapes

OSLC AM services providers **SHOULD** support [Resource Shapes](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Resource_Shapes) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Resource_Shapes) as defined in [OSLC Core Specification](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Resource_Shapes) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Resource_Shapes)

Service Provider Resources

OSLC AM service providers **MUST** provide a [Service Provider Resource](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources) that can be retrieved at a implementation dependent URI.

OSLC AM service providers **MUST** provide a [Service Provider Catalog Resource](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Catalog_Resources) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Catalog_Resources) that can be retrieved at a implementation dependent URI.

OSLC AM service providers **MUST** provide a `oslc:serviceProvider` property for their defined resources that will be the URI to a [Service Provider Resource](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Service_Provider_Resources). This does not prevent service providers from providing multiple service provider properties with different values, if the service provider supports multiple OSLC domain specifications, and the resource is applicable to multiple domains.

OSLC AM service providers **MUST** supply a value of `http://open-services.net/ns/am#` for the property `oslc:domain` on either `oslc:ServiceProvider` or `oslc:ServiceProviderCatalog` resources.

Creation Factories

OSLC AM service providers **MAY** support [Creation Factories](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Creation_Factories) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Creation_Factories) as defined by OSLC Core.

OSLC AM service Providers **MAY** discard properties it does not recognize and continue the POST operation without warning to the client. The returned resource will contain the accepted properties (and server generated properties like the `dcterms:identifier`) so clients will be able to confirm if required what was accepted.

If OSLC AM service providers support the creation of resources from the OSLC defined `oslc_am:Resource` format, there **MUST** be at least one [Creation Factory](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Creation_Factories) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Creation_Factories) entry in the Services definition, and its `oslc:usage` property **MUST** be set to `http://open-services.net/ns/core#default`. The `oslc:resourceType` **MUST** be set to `http://open-services.net/ns/am#Resource`.

If OSLC AM service providers support the creation of resources from a resource other than `oslc_am:Resource`, there **MUST** be a separate creation services definition whose `oslc:usage` property **MUST NOT** be set to `http://open-services.net/ns/core#default`.

Query Capabilities

OSLC AM service providers **SHOULD** support the [Query Capabilities](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Query_Capabilities) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Query_Capabilities) as defined by OSLC Core for both `oslc_am:Resource` and `oslc_am:LinkType` resources.

If the service provider supports query capability for `oslc_am:Resource` resources, it **MUST** support the following query parameters:

- `oslc.where`
- `oslc.searchTerms`

OSLC AM service providers **SHOULD** support query capability for `oslc_am:LinkType` resources. If supported then service providers **MUST** support a simple GET without any simple query parameters that returns all link type resources. Service providers **SHOULD** support the full simple query syntax.

Delegated UIs

OSLC AM service providers **SHOULD** support the selection of resources by delegated web-based user interface dialogs [Delegated UIs](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Delegated_User_Interface_Dialogs) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Delegated_User_Interface_Dialogs) as defined by OSLC Core.

OSLC AM service providers **MAY** support the creation of resources by delegated web-based user interface dialogs [Delegated UIs](http://open-services.net/bin/view/Main/OSLCCoreSpecification#Delegated_User_Interface_Dialogs) (http://open-services.net/bin/view/Main/OSLCCoreSpecification#Delegated_User_Interface_Dialogs) as defined by OSLC Core.

In `oslc:Dialog` elements, the two optional child elements; `oslc:hintWidth` and `oslc:hintHeight` specify the suggested size of the dialog or frame to render the HTML content in. Expected for the size values are defined by [CSS length units](http://www.w3.org/TR/CSS1/#length-units) (<http://www.w3.org/TR/CSS1/#length-units>).

Appendix A: Samples

See [OSLC Architecture Management 2.0 Appendix A: Samples](http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-2.0-Appendix-A%3A-Samples) (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-2.0-Appendix-A%3A-Samples>)

Appendix B: Resource Shapes

See [OSLC Architecture Management Specification Version 2.0 Appendix B: Resource Shapes](http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0-Appendix-B%3A-Resource-Shapes) (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-Specification-Version-2.0-Appendix-B%3A-Resource-Shapes>)

Appendix C: Notices and References

Authors and Contact Information

- [JimAmsden](http://open-services.net/bin/view/Main/JimAmsden) (<http://open-services.net/bin/view/Main/JimAmsden>) (IBM)
- [ChrisArmstrong](http://open-services.net/bin/view/Main/ChrisArmstrong) (<http://open-services.net/bin/view/Main/ChrisArmstrong>) (Armstrong Process Group)
- [AndyBerner](http://open-services.net/bin/view/Main/AndyBerner) (<http://open-services.net/bin/view/Main/AndyBerner>) (IBM)
- [ScottBosworth](http://open-services.net/bin/view/Main/ScottBosworth) (<http://open-services.net/bin/view/Main/ScottBosworth>) (IBM)
- [JimConallen](http://open-services.net/bin/view/Main/JimConallen) (<http://open-services.net/bin/view/Main/JimConallen>) (IBM, OSLC AM Lead)
- [DerryDavis](http://open-services.net/bin/view/Main/DerryDavis) (<http://open-services.net/bin/view/Main/DerryDavis>) (Accenture)
- [BrendaEllis](http://open-services.net/bin/view/Main/BrendaEllis) (<http://open-services.net/bin/view/Main/BrendaEllis>) (Northrop Grumman Corporation)
- [IanGreen](http://open-services.net/bin/view/Main/IanGreen) (<http://open-services.net/bin/view/Main/IanGreen>) (IBM, OSLC RM Lead)

- [JonathanHarclerode](http://open-services.net/bin/view/Main/JonathanHarclerode) (<http://open-services.net/bin/view/Main/JonathanHarclerode>) (Accenture)
- [SimonHelsen](http://open-services.net/bin/view/Main/SimonHelsen) (<http://open-services.net/bin/view/Main/SimonHelsen>) (IBM)
- [ClydeIcuspit](http://open-services.net/bin/view/Main/ClydeIcuspit) (<http://open-services.net/bin/view/Main/ClydeIcuspit>) (IBM)
- [WallyMcLaughlin](http://open-services.net/bin/view/Main/WallyMcLaughlin) (<http://open-services.net/bin/view/Main/WallyMcLaughlin>) (Armstrong Process Group)
- [ThomasPicolli](http://open-services.net/bin/view/Main/ThomasPicolli) (<http://open-services.net/bin/view/Main/ThomasPicolli>) (IBM)
- [VishyRamaswamy](http://open-services.net/bin/view/Main/VishyRamaswamy) (<http://open-services.net/bin/view/Main/VishyRamaswamy>) (IBM)
- [RenRenganathan](http://open-services.net/bin/view/Main/RenRenganathan) (<http://open-services.net/bin/view/Main/RenRenganathan>) (Citi Bank)

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 [Architecture Management Mailing List](http://open-services.net/mailman/listinfo/oslc-am_open-services.net) (http://open-services.net/mailman/listinfo/oslc-am_open-services.net).

Also the issues found with this specification and their resolution can be found at [OSLC Architecture Management v2.0 Specification Issues](http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-v2.0-Specification-Issues) (<http://open-services.net/wiki/architecture-management/OSLC-Architecture-Management-v2.0-Specification-Issues>).

Intellectual Property Covenant

The members of the Working Group (or as appropriate, their employers) have documented a Patent Non-Assertion Covenant for implementations of the AM 2.0 Specification, as described in the open-services.net [Terms of Use](#) ([/terms/](#)). Details of the Covenant may be found [here](http://open-services.net/bin/view/Main/AmSpecificationCovenantV2) (<http://open-services.net/bin/view/Main/AmSpecificationCovenantV2>).

References

- OSLC Core - [OSLC Core Specification 2.0](http://open-services.net/bin/view/Main/OslcCoreSpecification) (<http://open-services.net/bin/view/Main/OslcCoreSpecification>)
- OSLC UI Preview - [OSLC UI Preview Guidance](http://open-services.net/bin/view/Main/OslcUiPreviewDRAFT) (<http://open-services.net/bin/view/Main/OslcUiPreviewDRAFT>)
- Dublin Core - [Dublin Core Metadata Element Set, Version 1.1](http://dublincore.org/documents/dces/) (<http://dublincore.org/documents/dces/>)
- FOAF - [Friend of a Friend \(FOAF\)](http://xmlns.com/foaf/spec) (<http://xmlns.com/foaf/spec>)
- HTTP - [Hyper-text Transfer Protocol \(HTTP/1.1\)](http://tools.ietf.org/html/rfc2616) (<http://tools.ietf.org/html/rfc2616>)
- RDF/XML Concepts - [RDF/XML Concepts and Abstract Syntax](http://www.w3.org/TR/2004/REC-rdf-concepts-20040210/) (<http://www.w3.org/TR/2004/REC-rdf-concepts-20040210/>)
- RDF/XML Syntax - [RDF / XML Syntax Specification \(Revised\)](http://www.w3.org/TR/2004/REC-rdf-syntax-grammar-20040210/) (<http://www.w3.org/TR/2004/REC-rdf-syntax-grammar-20040210/>)
- URI Syntax - [URI Generic Syntax](http://tools.ietf.org/html/rfc3986) (<http://tools.ietf.org/html/rfc3986>)
- XML Namespaces - [Namespaces in XML 1.0 \(Third Edition\)](http://www.w3.org/TR/REC-xml-names/) (<http://www.w3.org/TR/REC-xml-names/>)
- XML Base - [XML Base \(Second Edition\)](http://www.w3.org/TR/xmlbase/) (<http://www.w3.org/TR/xmlbase/>)
- XSD Datatypes - [XML Schema Part 2: Datatypes Second Edition](http://www.w3.org/TR/xmlschema-2) (<http://www.w3.org/TR/xmlschema-2>)

All content [Creative Commons Attribution 3.0 US](http://creativecommons.org/licenses/by/3.0/us/) (<http://creativecommons.org/licenses/by/3.0/us/>) unless otherwise specified. See more [terms of use](#) ([/terms/](#)).