



OSLC PROMCODE Version 1.0. Part 2: Vocabulary

OASIS Standard

11 March 2022

This stage:

<https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-vocab.html> (Authoritative)
<https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-vocab.pdf>

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<https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/cs03/promcode-vocab.html> (Authoritative)
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<http://tools.oasis-open.org/version-control/browse/wsvn/oslc-promcode/shape/trunk/vocab.html>

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Additional artifacts:

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

- *OSLC PROMCODE Version 1.0. Part 1: Specification.* <https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-spec.html>.

Standards Track Work Product

- *OSLC PROMCODE Version 1.0. Part 2: Vocabulary* (this document). <https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-vocab.html>.
- *OSLC PROMCODE Version 1.0. Part 3: Constraints*. <https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-shapes.html>.
- Machine-readable vocabulary terms: <https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-vocab.ttl>.
- Machine-readable constraints: <https://docs.oasis-open.org/oslc-promcode/promcode/v1.0/os/promcode-shapes.ttl>.

Related work:

This document is related to:

- *OSLC PROMCODE Use Cases Version 1.0*. Edited by Mikio Aoyama, Yoshio Horiuchi, Tom Kamimura, Shinji Matsuoka, Shigeaki Matsumoto, Masaki Wakao, Kazuo Yabuta, and Hiroyuki Yoshida. Latest stage: <https://docs.oasis-open.org/oslc-promcode/usecase/v1.0/usecase-v1.0.html>.

Abstract:

This document describes vocabulary terms of the OSLC PROMCODE specification.

Status:

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Citation format:

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1. Introduction

This section is non-normative.

This specification describes the vocabulary of OSLC PROMCODE specification. Class as defined in [rdf-schema] is used as a grouping of resources in PROMCODE. Every PROMCODE resource is a member of some class defined in PROMCODE. Properties are instances of Class `rdf:Property` defined in [rdf-schema] and describe a relation between subject resources and object resources. PROMCODE specification introduces fourteen classes and twenty nine properties. Among the fourteen classes, two classes are used as "abstract class" of other classes as "subclasses". More specifically, `ManagedItem` is an abstract class that has `Scopeltem`, `WorkItem`, `Artifact`, `Issue` and `Risk` classes as subclasses. Also, `ManagedItemCollection` is an abstract class with `Plan`, `Report`, `RiskCollection` and `IssueCollection` classes as subclasses.

2. Terminology

This section is non-normative.

Terminology is based on OSLC Core Overview [[OSLCCore3](#)], W3C Linked Data Platform [[LDP](#)], W3C's Architecture of the World Wide Web [[WEBARCH](#)], Hyper-text Transfer Protocol [[HTTP11](#)]. Terminology for this specification is defined in part 1 of the multi-part specification.

3. Vocabulary

3.1 Vocabulary Details

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

All vocabulary URIs defined in The OSLC PROMCODE namespace.

3.1.1 RDFS Classes in this namespace

[Artifact](#), [Issue](#), [IssueCollection](#), [ManagedItem](#), [ManagedItemCollection](#), [Measure](#), [Measurement](#), [Plan](#), [Project](#), [Report](#), [Risk](#), [RiskCollection](#), [Scopeltem](#), [WorkItem](#)

3.1.2 RDF Properties in this namespace

[actualEndDate](#), [actualSize](#), [actualStartDate](#), [belongsTo](#), [collects](#), [correspondsTo](#), [identifiedBy](#), [identifiedDate](#), [includes](#), [isPartOf](#), [measures](#), [metricOfMeasure](#), [metricOfScopeltemSize](#), [observes](#), [plannedEndDate](#), [plannedSize](#), [plannedStartDate](#), [producedFor](#), [raisedBy](#), [raisedDate](#), [representedBy](#), [requiredBy](#), [sequenceNumber](#), [stateOfIssue](#), [stateOfRisk](#), [targets](#), [unitOfMeasure](#), [unitOfScopeltemSize](#), [valueOfMeasure](#)

3.1.3 Artifact

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

Artifact is an RDFS class.

Artifact is a subclass of *ManagedItem* class. An Artifact resource is a work product that is produced in a project such as design documents, source code, test report, and so on.

3.1.4 Issue

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

Issue is an RDFS class.

Issue is a subclass of *ManagedItem*. An Issue resource represents a situation that must be resolved in order to meet the objectives of a project. Issue resources shared between an acquirer and a supplier must be managed. Internal issues which must be resolved by a supplier alone may not be shared. Failure to resolve the situation may result in negative consequences for the project, such as a schedule delay.

3.1.5 IssueCollection

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

IssueCollection is an RDFS class.

IssueCollection is a subclass of *ManagedItemCollection*. An IssueCollection resource is a collection of Issue resources. Once an Issue resource is collected, it continues to be included in the collection regardless of its state value. Depending on the situation, a collection may collect all Issues resources to be shared in the project on a specific date, or it may collect only certain Issues resources of some categories, such as certain status, priority, those related to a *Scopeltem* resource, and so on.

3.1.6 ManagedItem

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

ManagedItem is an RDFS class.

ManagedItem is a super class which abstracts its five concrete subclasses, that are, *Scopeltem*, *WorkItem*, *Artifact*, *Issue*, and *Risk*.

3.1.7 ManagedItemCollection

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

ManagedItemCollection is an RDFS class.

A *ManagedItemCollection* resource is a collection of *ManagedItem* resources of a specific interest. A resource in the collection can be a resource of any subclass of *ManagedItems*, that is, *Scopeltem*, *WorkItem*, *Artifact*, *Issue*, or *Risk*. *ManagedItemCollection* has four concrete subclasses which are *Plan*, *Report*, *IssueCollection*, and *RiskCollection*. A *ManagedItemCollection* resource is linked to a *Project* resource it belongs to.

3.1.8 Measure

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

Measure is an RDFS class.

A *Measure* resource represents an observation of some measurable aspect of an *Artifact*.

3.1.9 Measurement

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

Measurement is an RDFS class.

A *Measurement* resource has a link to an *Artifact* resource and a link to *measure* resources that represent actual measures of the *Artifact*. It also has the date on which the measures are taken.

3.1.10 Plan

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

Plan is an RDFS class.

A *Plan* resource is a collection of *Scopeltem* resources, *WorkItem* resources and *Artifact* resources with associated *Measure* resources. A *Plan* resource represents a project plan that is agreed on between an acquirer and a supplier at project initiation. *Plan* is a subclass of *ManagedItemCollection*.

3.1.11 Project

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

Project is an RDFS class.

A *Project* resource represents the information on the project including the name of the project, the descriptions of the project, and start and end dates, both planned and actual, of the project. A *Project* resource also specifies the metric and the unit of size of *Scopeltem* resources, each of which is unique in the project.

3.1.12 Report

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

Report is an RDFS class.

A Report resource represents a project status information reported by a supplier to an acquirer at agreed timing as a project report. It is a ManagedItemCollection resource that collects Scopeltem resources, WorkItem resources, and Artifact resources whose properties are reported in the report. It is also linked to Measurement resources that represent the quality data of the Artifact resources collected in the ManagedItemCollection resource.

3.1.13 Risk

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

Risk is an RDFS class.

Risk is a subclass of ManagedItem. A Risk resource represents a potential problem that must be controlled in order to meet the objectives of a project. Shared risks between an acquirer and a supplier must be managed. Internal risks which must be resolved by a supplier alone may not be shared. Failure to control the potential problem may result in negative consequences for the project, such as a schedule delay.

3.1.14 RiskCollection

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

RiskCollection is an RDFS class.

RiskCollection is a subclass of ManagedItemCollection. A RiskCollection resource is a collection, or a snapshot of shared risks. Shared risks of resolved status continue to be included in the collection. Only Risk resources can be collected in a RiskCollection resource. Examples are a collection of all Risk resources of the project on a specific date, a collection of Risk resources of some category, such as certain status, certain priority, related Scopeltem, and so on.

3.1.15 Scopeltem

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

Scopeltem is an RDFS class.

Scopeltem is a subclass of ManagedItem. A Scopeltem resource defines the scope of the work to be included in a project. It defines the binding between an acquirer and a supplier for the project.

3.1.16 WorkItem

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

WorkItem is an RDFS class.

WorkItem is a subclass of ManagedItem. A WorkItem resource describes the work to be performed in a contract. It defines the work to be performed to create a (part of) content described by a Scopeltem. The work may typically include cost, schedule, and resource requirements. The set of all WorkItem resources in a project might form a work breakdown structure.

3.1.17 actualEndDate

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

actualEndDate is an RDF property.

actualEndDate is either a property of a WorkItem resource or a Project resource. It is the actual end date of the work described by the WorkItem resource or of the project described by the Project resource. Its value is a dateTime.

3.1.18 actualSize

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

actualSize is an RDF property.

actualSize is a property actual development size of the scope described by the *Scopeltem* resource.

3.1.19 *actualStartDate*

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

actualStartDate is an RDF property.

actualStartDate is either a property of a *WorkItem* resource or a *Project* resource. It is the actual start date of the work described by the *WorkItem* resource or of the project described by the *Project* resource. Its value is a *dateTime*.

3.1.20 *belongsTo*

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

belongsTo is an RDF property.

belongsTo is a relation between *ManagedItemCollections* and a *Project* resource. An acquirer and a supplier may operate multiple projects in parallel. This relation is used to identify which collection belongs to which project.

3.1.21 *collects*

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

collects is an RDF property.

collects is a relation between a *ManagedItemCollection* resource and *ManagedItem* resources. A *Plan* resource and a *Report* resource collect any combination of resources of *Scopeltem*, *WorkItem* and *Artifact*. An *IssueCollection* resource collects only *Issue* resources and a *RiskCollection* collects only *Risk* resources.

3.1.22 *correspondsTo*

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

correspondsTo is an RDF property.

correspondsTo is a relation between a *Plan* resource and a *Report* resource. A *Report* resource has at most one *correspondsTo* relation to a *Plan* resource. If a new *Plan* resource is created, a *Report* resource may need to be related to the new *Plan* resource.

3.1.23 *identifiedBy*

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

identifiedBy is an RDF property.

identifiedBy is a relation between a *Risk* resource and *ManagedItem* resources. A *Risk* may be identified by one or more *ManagedItem* resources.

3.1.24 *identifiedDate*

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

identifiedDate is an RDF property.

identifiedDate is an optional property of a Risk resource. It is the identified date of the Risk resource. Its value is a dateTime.

3.1.25 includes

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

includes is an RDF property.

includes is a relation between a Report resource and Measurement resources. A Measurement resource linked from the Report resource measures a quality value of the Artifact resource in the collection of the ManagedItem resources of the Report resource.

3.1.26 isPartOf

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

isPartOf is an RDF property.

isPartOf is a relation between a resource of type Artifact, ScopeItem or WorkItem and other resources of the same type. It represents the parent and child relationship of ManagedItem resources of the same type.

3.1.27 measures

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

measures is an RDF property.

measures is a relation between a Measurement resource and an Artifact resource. A Measurement measures an Artifact.

3.1.28 metricOfMeasure

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

metricOfMeasure is an RDF property.

metricOfMeasure is a relation between a Measure resource and a Metric resource. It defines a metric of Measure.

3.1.29 metricOfScopeItemSize

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

metricOfScopeItemSize is an RDF property.

metricOfScopeItemSize is a relation between a Project resource and a Metric resource. It defines a metric of the size which all the ScopeItem resources in the project refer to.

3.1.30 observes

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

observes is an RDF property.

observes is a relation between a Measurement resource and a Measure resource. One Measurement observes zero or many Measures.

3.1.31 plannedEndDate

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

plannedEndDate is an RDF property.

plannedEndDate is either a property of a *WorkItem* resource or a *Project* resource. It is the planned end date of the work described by the *WorkItem* resource or of the project described by the *Project* resource. Its value is a *dateTime*.

3.1.32 *plannedSize*

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

plannedSize is an RDF property.

plannedSize is a property on the estimated development size of the scope described by a *Scopeltem* resource.

3.1.33 *plannedStartDate*

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

plannedStartDate is an RDF property.

plannedStartDate is either a property of a *WorkItem* resource or of a *Project* resource. It is the planned start date of the work described by the *WorkItem* resource or of the project described by the *Project* resource. Its value is a *dateTime*.

3.1.34 *producedFor*

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

producedFor is an RDF property.

producedFor is a relation between an *Artifact* resource and a *Scopeltem* resource or a *WorkItem* resource. *Artifact* resources are produced as deliverables of the scope defined by a *Scopeltem* resource or the result of implementing the work described by a *WorkItem* resource.

3.1.35 *raisedBy*

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

raisedBy is an RDF property.

raisedBy is a relation between an *Issue* resource and *ManagedItem* resources. An *Issue* may be raised by one or more *ManagedItem* resources.

3.1.36 *raisedDate*

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

raisedDate is an RDF property.

raisedDate is an optional property of an *Issue* resource. It is the raised date of the *Issue* resource. Its value is a *dateTime*.

3.1.37 *representedBy*

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

representedBy is an RDF property.

`requiredBy` is a relation between a `WorkItem` resource and a person in charge. A work item may be represented by a person who acts as the contact for the work item. This person is responsible for the progress of the work described by the `WorkItem` resource. This person may or may not actually do the required work.

3.1.38 `requiredBy`

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

`requiredBy` is an RDF property.

`requiredBy` is a relation either between a `WorkItem` resource and an `Artifact` resource, or between a `WorkItem` resource and a `Scopeltem` resource. A `WorkItem` resource, such as reviewing the design, is required for producing an `Artifact` resource such as a review record. A `WorkItem` resource may also be required to implement the scope described by a `Scopeltem` resource.

3.1.39 `sequenceNumber`

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

`sequenceNumber` is an RDF property.

`sequenceNumber` is a unique number which represents the position of the resource in a sequential order of all the resources of each subclass of `ManagedItem`.

3.1.40 `stateOfIssue`

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

`stateOfIssue` is an RDF property.

`stateOfIssue` is a relation between an `Issue` resource and a `State` resource. The `State` resource defines a set of values which represent the state of an issue resource.

3.1.41 `stateOfRisk`

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

`stateOfRisk` is an RDF property.

`stateOfRisk` is a relation between a `Risk` resource and a `State` resource. The `State` resource defines a set of values which represent the state of a `Risk` resource.

3.1.42 `targets`

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

`targets` is an RDF property.

`targets` is a relation between an `Artifact` resource and a `Measure` resource. The `Measure` resource represents a target goal of quality measure of the `Artifact` resource.

3.1.43 `unitOfMeasure`

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

`unitOfMeasure` is an RDF property.

`unitOfMeasure` is a relation between a `Measure` resource and a `Unit` resource. It is a unit of volume. If an acquirer sums

up the same type of measures in a report, the value should be converted according to the unit.

3.1.44 **unitOfScopeltemSize**

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

unitOfScopeltemSize is an RDF property.

unitOfScopeltemSize is a relation between a Project resource and a Unit resource. It defines a unit of size which all the Scopeltem resources refer to in the project.

3.1.45 **valueOfMeasure**

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

valueOfMeasure is an RDF property.

valueOfMeasure is a property that represents a value for a Measure resource.

4. Conformance

PROMCODE servers **MUST** use the vocabulary terms defined here where required, and with the meanings defined here.

PROMCODE servers **MAY** augment this vocabulary with additional classes, properties, and individuals.

Appendix A. References

A.1 Normative references

[HTTP11]

R. Fielding, Ed.; J. Reschke, Ed.. *Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing*. June 2014. Proposed Standard. URL: <https://httpwg.org/specs/rfc7230.html>

[LDP]

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

[OSLCCore3]

Jim Amsden; Martin Sarabura. *OSLC Core 3.0*. URL: <https://docs.oasis-open-projects.org/oslc-op/core/v3.0/oslc-core.html>

[WEBARCH]

Ian Jacobs; Norman Walsh. *Architecture of the World Wide Web, Volume One*. 15 December 2004. W3C Recommendation. URL: <https://www.w3.org/TR/webarch/>

[rdf-schema]

Dan Brickley; Ramanathan Guha. *RDF Schema 1.1*. 25 February 2014. W3C Recommendation. URL: <https://www.w3.org/TR/rdf-schema/>