

SOA – Repository Artifact Model and Protocol Specification (S-RAMP)

Issues List

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Preface

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1.3 Abstract

This document provides a summary of open issues for S-RAMP 1.0, to be submitted to the selected standards body organization. Resolution of these issues should be considered for the first release of the standard, but it is not a mandatory requirement that all issues be addressed in the first release.

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Summary of Issues

Issue-001. Representing Relationships

Prior Issue ID

001C

Description

How to properly represent relationships as they not fully represented in schema

Comments

Some relationships are not easily modeled or can not be modeled at all in XML Schema. We should explore other mechanisms to better model these relationships.

Issue-002. Extensibility

Prior Issue ID

001E

Description

Extensibility statement based on namespace

Comments

During the course of the work on version 1.0 of the specification, there were issues with namespaces. It was finally decided that we should have everything be in the same s-ramp namespace instead of a separate namespace for each schema that was defined. From an implementation perspective, having everything in the same namespace is easier to implement, but will this guarantee we will not have clashes? We should revisit this and make sure this is the correct decision.

Issue-003. RDF/OWL

Prior Issue ID

001A

Description

Should we create an RDF/OWL based meta model view. This would provide a better way to leverage semantics to create new types of artifacts, etc., allow clients lacking full S-RAMP knowledge to get more value out of these documents. It would also provide an alternative description of the spec using RDF/OWL.

Comments

This would change the specification significantly. Needs careful consideration, but does increase ease of extensibility. This has also been added to the charter as a possible enhancement to the specification.

Issue-004. Problematic Statements

Prior Issue ID

002E

Description

Problematic statements, such as @@.

Comments

Some of the problematic statements were fixed in the submission to the standards body. Additional changes may be needed.

Issue-005. Conformance

Prior Issue ID

002

Description

Conformance statements, conformance implications, and conformance targets are unclear. This includes @@.

Comments

Conformance targets still could use clarification, but this can be deferred until after submission to the standards organization.

Issue-006. Derived Artifact Type

Prior Issue ID

003

Description

Core model has DerivedArtifactType extend BaseArtifactType - denormalized?

Comments

Some of this may have been fixed in the submission. Additional changes can be deferred for now.

Issue-007. Arbitrary Boundaries

Prior Issue ID

004

Description

Arbitrary boundaries to XSD model. "

Comments

There is a lot of debate to be had to answer this question.zzzzzzzz

Issue-008. Zip Publishing

Prior Issue ID

006

Description

Use of ZIP publishing suggests "package" model.

Comments

Issue-009. Dependencies

Prior Issue ID

007

Description

Dependencies required first? If X depends on Y, can you delete Y? Eric wants X and Y to exist indep. Spec requires dependency resolutions.

Comments

Issue-010. Open Search

Prior Issue ID

0013

Description

Decision on Open Search.

Comments

This will require time and work to close on from legal perspective, then also in its impact to the specification. The recommend is that this be left for a future version of the specification. That means S-RAMP still have the built-in paging mechanism in Atom for feeds, but none for returning a single full entry.

Issue-011. Additional S-RAMP Models

Prior Issue ID

0014

Description

Additional S-RAMP Models (BPEL, SCA, etc.).

Comments

Additional models will be deferred to a subsequent version of the specification.

Issue-012. AppliesTo Examples

Prior Issue ID

0016

Description

Need to add concrete examples of appliesTo in text of the specification for the Policy Model.

Comments

Issue-013. Setting Derived Artifact Attributes

Prior Issue ID

0017

Description

Describe how attributes in Derived Artifact Types are to be set

Comments

Partially done in the submission to the standards body. This needs to be addressed in the Technical Committee.

Issue-014. Supporting History

Prior Issue ID

019

Description

Upgrade lastModified... attributes to support longer history of changes.

Comments

Both lastModifiedTimestamp and lastModifiedBy currently are required and have a default cardinality of 1. The question is should we change these attributes in the Core Model to their own type and then have a sequence of them in the BaseArtifactType?

Issue-015. URL Type Encoding

Prior Issue ID

n/a

Description

Artifact URLs have the type encoded in them. Having /s-ramp/{artifactModel}/{artifactType} should not be required. Instead this should be inferred from the ServiceDocument and would allow for implementers to define their own URL's.

Comments

Issue-016. Inheritance Queries

Prior Issue ID

n/a

Description

How to handle inheritance on a query. When we perform a query do we return just that level or do we also return all inherited levels?

Comments

Issue-017. UUID Statement

Prior Issue ID

n/a

Description

Clarification of UUID statement for atom:id in section 2.3.5.1 of Atom Doc. When doing a POST it states If a UUID is not supplied, the server SHALL create one. This needs to be clarified with respect to atom:id and possibly other required atom required properties.

Comments

This should be looked in to further. There is a possibility that we may have some inconsistencies with the ATOM specs and we should verify that we have not missed any.

Issue-018. UML Generation

Prior Issue ID

n/a

Description

Update/Replace UML Diagrams. We may want to consider using a tool such as XMLSpy to create diagrams from the XML Schemas. Only make changes that are typos.

Comments

Look at doing this post submission to the standards organization.

Issue-019. Organization Placement

Prior Issue ID

0014

Description

Organization is currently in the ServiceImplementation Model. It should be in the SOA Model.

Comments

Make sure the models are updated appropriately and the text in the spec is correct.

Issue-020. Publishing of Multiple Artifact Entries

Prior Issue ID

n/a

Description

Section 2.3.5.2 of Atom Doc - Publishing of multiple artifact entries. How to properly deal with relatively referenced imported artifacts when not doing a batch POST. Further clarification is needed.

Comments

Issue-021. HTTP Response Codes

Prior Issue ID

n/a

Description

Need to add HTTP response codes

Comments

Need to include a table that brings together all of the various response codes that could be returned when performing HTTP operations against an S-RAMP compliant repository with a description of why they could occur.

Issue-022. Error Responses

Prior Issue ID

n/a

Description

HTTP responses returned in error situation need to have a structure defined

Comments

Need to define the structure, if any, of the body of HTTP responses returned from S-RAMP HTTP methods in error situations in order to ensure that they can be programmatically consumed by S-RAMP clients.

Issue-023. Editing of Existing Relationships Prohibited

Prior Issue ID

n/a

Description

Section 2.4.1.6 in the Atom Binding Document prohibits editing an existing Relationship Entry

Comments

Section 2.4.1.6, "Editing a Relationship Instance". This section prohibits the editing of an existing Relationship Entry instance document in S-RAMP, forcing S-RAMP clients to replace an existing relationship target by deleting the existing Relationship Entry document and POSTing a new one. Forcing this to be a two step process in S-RAMP may cause issues with relationships that are defined in a business model with the same min/max cardinalities, e.g., 1. The S-RAMP client would not be permitted to remove the existing target because it would violate the min cardinality constraint, so it would not be possible to replace the target of the relationship with another object using the fine grained approach. S-RAMP clients would be forced to use the coarse grained approach to achieve this (using a PUT).

Issue-024. Table to Define Which Properties are Read Only

Prior Issue ID

n/a

Description

We should create a table that defines which system properties are read-only and which are editable

Comments

Section 2.4.2, "S-RAMP Properties" states that "System defined properties are usually read-only". We should probably include a table that defines which system properties are read-only and which are editable. The example in section 2.4.2.1 includes the "name" system property which is not read-only in WSRR, even for document type objects