

Resource Usage Service

OGF20 Working Group Session

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Agenda

- Core RUS Specification Comments (60")
 - XPath expression restrictions
 - IDL & WS-I/WS-RF rendering status
 - Batch processing
 - Audit Information and <RecordHistory>
 - Handling of Mandatory Elements
- Requirements for Advanced RUS (20")
- Project Presentations (10")

Core RUS: XPath expressions

- XPath can select parts of a UR.
- RUS Core returns only whole URs.
- Suggestion 1:
 - Allow RUS Core to return parts of a UR.
 - advantage: full compliance with XPath; user gets only what he wants
 - disadvantage: complex queries are less scalable (RUSQueryTooComplexFault?)
- Suggestion 2:
 - Restrict the allowed XPath expressions.

Core RUS: IDL and renderings

- Currently: only WS-I
- Idea: have interface description independent of exact rendering (see Byte I/O WG)
 - advantage: specification more easily adaptable
 - disadvantage: lack of interoperability!?
- Interface Description Language (IDL) for describing methods, etc.

```
module RUS {  
  interface RUS { [...]  
    rus:OperationResult insertUsageRecords(in ur:UsageRecords record);  
    [...] }; };
```

- Renderings planned for WS-I & WS-RF.

Core RUS: Batch Processing (1)



- Current status:
 - insert: input is a list of URs
 - modify: currently only single records can be modified (*requires change*)
 - replace: list of records to replace
 - delete: XPath or id-list to select records
 - query: Result is returned as one big message: *needs an extension!*

Core RUS: Batch Processing (2)



- Additional *WS-Enumeration*-based method to get query results in small pieces?
 - Need also WS-Addressing!
 - Has the standard drawbacks?
- Client can request a limited number of records?
- Server returns a kind of RUSReplyTooBigFault?

Core RUS: Audit Information (1)



- Currently recorded for:
 - Insertion
 - Modification (replace, increment, modify)
 - Candidate: deletion
- What is recorded:
 - Message, Signature, Timestamp, Operation, Requestor
 - Also record undo information, certificates?
 - Information on concurrency protection?

Core RUS: Audit Information (2)

- Returned as RecordHistory in each RUSUsageRecord (upon query)
- Always returned, even if not wanted.
- Can only be returned as long as UR exists in RUS.
- Proposal: add a extractRecordHistory method.
- [Proposal: completely remove wrapping RUS-UR]

Core RUS: Mandatory Elements

- Currently UR elements can be declared mandatory.
 - Can only declare elements from UR spec.
 - Cannot put restrictions on content.
- Proposal: Allow for other elements (UR Resource extensions) to be listed.

MandatoryElementsType

- Currently a list of UR elements:

```
<MandatoryElementsType>  
  <MachineName />  
  ...  
</MandatoryElementsType>
```

- Make it a list of XML names:

```
<MandatoryElementsType>  
  <Element>MachineName<Element />  
  ...  
</MandatoryElementsType>
```

- Requirements gathering:
 - aggregation (discuss with UR-WG)
 - notification service for changes?
 - interesting for data replication via RUS interface
 - other ideas?

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