

# SPASE Data Model

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## Update

- Release of version 1.2 on *May 22, 2007*



## New Issues

- Masterless Samurai (Lee Bargatze)
- Model resource (Aaron Roberts)
- Document resource (Todd King)
- Software resource (Todd King)
- Service resource Enhancement (Lee/Todd)
- Instrument Types (Ed Bell)
- Data Types for Parameters (Chris Perry)



## Masterless Samurai

- <Extension> lacks linkage to other resources.

Suggestion:

- Add
  - <AssociationID> : Resource link
  - <ResourceID> (?): A handle
  - <Content> : For extension data



## Model Resource

We have been describing all the VSPO resources in SPASE terms, and we need to describe Model entries (e.g. at CCMC and "ModelWeb"). We do not currently have anything for these in SPASE. Should we start a Model Resource definition with a simple set of terms? We have been entering these with a basic set of Header terms, almost like an observatory.

Aaron

```
<Model>  
  <ResourceID> (1)  
  <ResourceHeader> (1)  
  <AccessURL> (1)  
  <MeasurementType> (+)  
  <ObservedRegion> (+)  
  <Caveats> (0)  
  <Keyword> (*)  
</Model>
```



## Document Resource

- Goal:
  - Describe documents so that they can be associated with more than one resource.

Consider:

- Do we want embeddable documents?
  - **OpenDocument** or **ODF: ISO/IEC 26300:2006**
  - Dublin core
- Or external links? Or both?
  - Add document formats to <Format> or have <DocumentFormat>
  - Document formats: PDF, ODF, ???
- Document Type classification?
  - Paper, Presentation, White Paper, User's Guide, ...
- Use of Granule?

<Document>

<ResourceID> (1)

<ResourceHeader> (1)

<AccessURL> // With <Format> and <Encoding> added

<DocumentType> (1)

<ODF> (0) // For embeddable documents

</Document>

[http://en.wikipedia.org/wiki/Comparison\\_of\\_document\\_markup\\_languages](http://en.wikipedia.org/wiki/Comparison_of_document_markup_languages)



## Software Resource

- Two forms: executable and source code.
- How different is software from documents?
- DCMI (Qualified Dublin Core)
- Use of Granule?



## Service resource Enhancements

- Goal:
  - Tie services to access
  - Map SPASE elements to service interface.

Changes to <AccessInformation>

- Add <AccessorID>

Changes to <Service>

- Add <Input>
  - <Format> (maybe <Encoding>)
  - <Map>
    - <ParameterKey> ("Message" name in WSDL)
    - <Element> (XPath to SPASE element)
  - </Map></Input>
- Add <Output>
  - <Format> (maybe <Encoding>)</Output>
  - To know what formats can be returned



# Instrument Types



## Data Types for Parameters

- Add data type tag to PhysicalParameter
- Use Cluster value type?