HMA for Science Kickoff Meeting

KO Meeting
24 January 2013, ESRIN Frascati

Yves Coene, SPACEBEL
Pierre Denis, SPACEBEL
Overview

- **Specification Activities**
  - Task 2: Identity Management

- **Demonstrators**
  - Task 2: Identity Management
  - Task 3: EO Metadata
  - Task 5: Enhancement ebRIM EP

- **Task 8: HMA-S Testbed**

- **Technical Coordination**
  - Task 9: Coordination and harmonisation
Task 3: Demonstrator EO Metadata

➢ Task inputs:
  • D3000.1: Updated OGC EO Metadata Profile of O&M
  • D4000.1: Opensearch extension for EO with O&M response.

➢ Tasks:
  • ERGO catalog server: allowing to import and serve O&M metadata (Inteces) via HMA-S OpenSearch (WP8300).
  • Catalog client derived from SMAAD catalog clients
Task 3: Demonstrator EO Metadata

- Open-source client
  - Shares DAIL/SSE source code for Catalog clients (same stylesheets)
  - Shares "light" MapViewer with DAIL/SSE (OpenLayers).
  - Same source code as Task 5 Catalog client, different configuration files.
  - Allows access to multiple catalogues from a list including Task 5
  - Advantages:
    - Deploy HMA-S clients on DAIL/SSE Portal with minimal effort.
    - HMA-S client maintained as part of DAIL/SSE.
Task 3: Demonstrator EO Metadata

- Open-source HMA-S Client (prototype) accessing G-POD OpenSearch catalog
Task 3: Demonstrator EO Metadata

- Open-source client
  - Endpoints configurable by user
  - GUI will be built based on OpenSearch Description document which is accessed at run-time.

```xml
<service>
  <id>2</id>
  <name>Task 3 Catalogue</name>
  <idc>ogc-09-084-v01</idc>
  <operation name="Search">
    <xsl>Task_3_Catalogue_Search.XSL</xsl>
    <binding>
    </binding>
  </operation>
  <aoiRequired>false</aoiRequired>
</service>
```
Task 3: Demonstrator EO Metadata

- Technology
  Task 3 and 5 Client

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux ES</td>
<td>Open Source Operating system</td>
<td>Subscription</td>
</tr>
<tr>
<td>Apache Tomcat 6.0.35</td>
<td>Servlet Container</td>
<td>Apache license</td>
</tr>
<tr>
<td>JSF Mojarra (v2.0.2)</td>
<td>JSF Reference Implementation</td>
<td>CDDL-GPL</td>
</tr>
<tr>
<td>RichFaces (v 3.3.3)</td>
<td>Open source AJAX engine and component library for JSF</td>
<td>LGPL</td>
</tr>
<tr>
<td>PrimeFaces (v1.1)</td>
<td>Open source AJAX engine and component library for JSF; used for the collection picker...</td>
<td>Apache license 2</td>
</tr>
<tr>
<td>Xalan For Java (v 2.7.1)</td>
<td>XSLT processor for transforming XML documents into HTML, text, or other XML document types</td>
<td>Apache license</td>
</tr>
<tr>
<td>Xerces For Java (v 2.9.0)</td>
<td>XML Parser package of the Apache XML based project</td>
<td>Apache license</td>
</tr>
<tr>
<td>Log4j (v 1.2.14)</td>
<td>Component that provides logging functions for Java application</td>
<td>Apache license</td>
</tr>
<tr>
<td>IO Package (v 2.1)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>BeanUtils Package (v 1.5)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Collections Package (v 3.1)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Digester Package (v 1.7)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Lang Package (v 2.4)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Logging Package (v 1.0)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>HTTP Package (v 4.1)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Net Package</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>Codec Package (v 1.4)</td>
<td>Component of the Apache Commons</td>
<td>Apache license</td>
</tr>
<tr>
<td>jQson 1.9.2</td>
<td>JSON Serializer/Deserializer</td>
<td>Apache 2.0</td>
</tr>
<tr>
<td>jsong-simple 1.1</td>
<td>JSON Parser</td>
<td>Apache 2.0</td>
</tr>
<tr>
<td>jQuery (v 1.3)</td>
<td>Javascript Framework</td>
<td>MIT license</td>
</tr>
</tbody>
</table>
Task 3: Demonstrator EO Metadata

- Open-source server
  - Update of Buddata Catalog (Intecs) available on http://rssportal.esa.int/tiki-index.php?page=Open Software
  - Extended with OpenSearch interface (Task 4 compliant).
  - Extended with EO O&M (Task 3 compliant) file import.
Task 3: Demonstrator EO Metadata

_outputs:

- D3000.1: Open-source Demonstrator
  - Updated ERGO Catalog server (Intecs)
  - OpenSearch O&M Catalog client (Spacebel)
- D3000.2: Demonstrator TN including
  - Description of native interfaces
  - User Manual