DAIL / HMA-E Implementation Overview

• DAIL Interfaces / Topics:
  – Discovery (Advertisement)
    • *No significant change since potsdam*
  – Product Schema
  – Catalogue
  – Ordering
  – Programming
  – User (identity) Management
  – On-line Access –
    • *No significant change since potsdam*
  – Information Security
    • *Minor updates to DAIL requirements due to ISMS review*
Product Schema

- **Title:** GML 3.1.1. Application Schema for Earth Observation Products
- **Editor:** CNES
- **Scope:** A data dictionary and schema for EO product attributes, also used for GSC-DA metadata reports
- **Status:** Stable
- **Version:** 0.9.3 – update from RIDS presented at Potsdam
  - WRS Grid schema fix
  - Planning status addition
- **Issues (no change):**
  - # degrees of freedom to express footprint geometries in GML
  - expectation for more attributes to be identified, and other thematic extensions to be defined (altimetry and meteo)
• Title: OGC™ Catalogue Services Specification 2.0 Extension Package for ebRIM (ISO/TS 15000-3) Application Profile: Earth Observation Products
• Editor: IONIC
• Scope: A standard protocol and XML serialisation for <EO product> catalogue
• Status: Prototype “standard” implementations
• Version: 0.2.0 25-06-2008– update from RIDS presented at Potsdam
  – Grouping of objects in registry package
  – Others “mostly editorial” plus additional examples and explanations
• Standards Working Group set up in OGC
  – Target March 2009
• Issues (after editorial fixes):
  – flexibility/complexity of “filter syntax”
  – Complexity of schema
  – Possible optimisations
Order

- Title: Ordering Services for Earth Observation Products
- Editor: Datamat
- Scope: Classic order, E-OA, subscription for catalogued products or collections
- Status: Relatively stable
- Version: 0.9.4 05-09-2008 – update from RIDS presented at potsdam
- Issues:
  - Use of OGC “common” approach for parameter definition
Title: OpenGIS® Sensor Planning Service Application Profile for EO Sensors

Editor: SPOT

Scope: Future acquisitions and coverage order programming (feasibility and submission)

Version: 0.9.5 with RIDS

Status: Some evolution expected, early prototype implementations

Issues:
- High degree of flexibility of schema and lack of “concrete” implementation in specification
- Documentation quality (examples)
- Link with ordering specification
- Standardisation
User Management

- **Title:** User Management Interfaces for Earth Observation Services
- **Editor:** Spacebel
- **Scope:** Federated user management and security context for HMA services
- **Version:** 0.2.0
- **Status:** Stable
- **Issues:**
  - Update of schema after implementation
HMA Implementation in ESA-GS

- A “native” implementation of HMA IF/s in ESA-GS
  - Catalogue
  - Order
  - WMS
  - User Management
- A “prototype” implementation of
  - Programming
- Update of clients (including MMOHS) to support HMA Interfaces
- Major evolution of “user access facility”
- De-commissioning of MUIS (retirement of DSM, OFS, GIP, UMS)
- Simpler configuration to ease management of significant number of datasets
Overall status and schedule

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**EO DAIL Phase - 1**
- SRR
- PDR
- CDR
- AR/FAT
- PORR

**EO DAIL Phase-2**
- DAIL ready for GSC integration with early avail GS

**HMA-E Phase - 2**
- PDR
- CDR-a
- CDR-b

Reference implementations of HMA interfaces at ESA-GS based on COTS and re-use prototype, ready for DAIL I&V