Ground Segment Coordination Body (GSCB) Workshop 2007

ESA ESRIN, 19/20th June 2007
ESRIN hosts:

96 staff in Earth Observation
14 in the Vega Department
42 in Informatics
34 in the supporting services
445 industry staff

- Directorate of Earth Observation
- EO Ground Segment Development
- Management of EO Mission in Operations and Exploitation
  - Satellite and Instruments
  - End to End Ground Segment Mgt
  - ESA Third party Mission
- EO Science and Applications Projects
Ground Segment Coordination

Why?
Ground Segment Coordination

Why?

We share
> a set of common goals:
  > Make Earth Observation grow
  > Make Earth Observation sustainable on the medium term

> a set of common challenges
  > Respond to the evolving user requirements
  > Respond to the financial challenges
  > Respond coherently to evolving technology
  > Establish the ‘image’ of Earth Observation as reliable, sustainable Earth Information source
Coordination Body?

See next presentation

Main achievements

- much better understanding of respective goals and constraints across these agencies
- a number of technical priorities to deal with together (interface standards, networks) for short and medium term developments and its sharing have been agreed
- established a forum to share resources & expertise
- within everybody’s constraints managed to direct our respective GS designs and operations concept towards a common direction (basis to attract funding)
- managed to jointly oversee a common project (Heterogenous mission accessibility) with ‘public, joint reviews’ not by only ESA or one agency
Workshop Objectives

• Inform about
  
  ➢ the GSCB (and its workplan)
  
  ➢ the approach taken in the different Earth Observation missions (interoperability)
  
  ➢ the status and next steps of the joint HMA Project and the approach towards GMES

• Discuss the different approaches

• Complement the ideas and workplan of the GSCB
Welcome & Introduction to the GSCB

Session 1: The Heterogeneous Mission Accessibility (HMA)
   a) Requirements and Standardization Activities
   b) HMA & its implementation by ESA/GSCB towards GMES
   c) HMA & its implementation in GSCB missions

Session 2: Round Table & Open Discussion

Session 3: Payload Data ground segment Interoperability Aspects of European Mission

Wrap Up
Presentations
> Upload (or leave USB)
> Keep time (5 & 2 minutes warning)
> ‘Mission’ presentation to focus on the Interoperability aspects
  o User interface, the catalogue, data ordering, data distribution/download.
  o The mission archive and access to the archive
  o Long-term data preservation strategy
  o Is there any innovative technology/schemes used in the ground segment.

Discussion in blocks
  Q&A concerning on presentations &
  Round Table & Open Discussion at 16.00

Publishing of outcome (presentations and summary on the WS Web-Site)

Lunch Arrangement at 13.40
Dinner Arrangement Bus from 20.00 from hotels to Villa Grazioli

Help (folder in your hotel, help desk)
9:00 Welcome
G. Kohlhammer (ESA)

9:15 The Ground Segment Coordination Body – Status, objectives and work plan:
Gunter Schreier (DLR)

Session 1: The Heterogeneous Mission Accessibility
Chair: G. Kohlhammer (ESA)

a) The HMA Project and its implementation by ESA/GSCB and towards GMES
9:45 The HMA Project status and achievements & next steps
P.G. Marchetti (ESA)
10:15 GMES Data Access
B. Hoersch (ESA)
10:45 ESA Missions and Sentinels GS Approach
H. Laur (ESA)
11:05 Coffee Break

b) Requirements and Standardisation Activities
11:30 Status of the INSPIRE Directive
H. De Groof (EC)
11:50 Interoperability Requirements for Security and Defence
L. Colaiacomo (EUSC)
12:10 Architecture and Data Management aspects for data access and interoperability through GEO
M. Rast (Geo Secretariat)
12:30 c) The HMA Project and its implementation in other GSCB Missions
12:50 EUMETSAT Missions
G. Mason (Eumetsat)
13:05 Radarsat – 2
P. Meisl (MDA)
13:10 TerraSAR, TanDEM-X, EnMAP
G. Schreier (DLR)
13:30 Questions & Answers

Lunch
Session 1: The Heterogenous Mission Accessibility (HMA) – Status and Outlook

14:30  Pleiades & Spot  
JP. Gleyzes (CNES)

14:50  Cosmo Skymed  
F. Battazza (ASI)

15:10  Questions & Answers

15:30  Coffee Break

Session 2: Round Table and open discuss on HMA (interoperability)

15:50  Wrap-up of main points and open discussion on:
-Approach to Data Access: order, planning, data access inc. catalogue,
-Approach for interoperability. Participation in HMA.
-GSCB work scope in interoperability / cooperation
### Session 3: Payload Ground Segments Interoperability Aspects of major European and Canadian Missions

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:45</td>
<td>ATSR Archive (contact W. Lengert)</td>
<td>M Pritchard (RAL/NERC)</td>
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<td>17:10</td>
<td>KSAT licensed missions</td>
<td>J.P Pedersen (KSAT)</td>
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<td>17:30</td>
<td>ODIN mission</td>
<td>Martin Krynitz (SSC)</td>
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<td>17:50</td>
<td>Questions &amp; Answers &amp; Adjourn</td>
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<td>20:30</td>
<td>ESA Hosted Dinner has been organised at the Park Hotel Villa Grazioli in Grottaferrata. Courtesy transport has been arranged from the meeting hotels to the restaurant and back.</td>
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Session 3: Payload Ground Segments Interoperability Aspects of major European and Canadian Missions

8:30   DMC Mission  
     D. Hodgson (DMCII)
8:50   TopSat  
     Ian Pilling (Qinetiq)
9:10   The RapidEye System  
     M. Vitale (RapidEye)
9:30   DEIMOS 1: A fully Commercial Earth Observation Mission  
     I. Lopez (Deimos)
9:50   SEOSAT: The Spanish Earth Observation Mission  
     J. Urena (CDTI)
10:10  Questions & Answers
10:25  **Coffee Break**
10:55  IKONOS & GeoEye  
     A. Zevenbergen (EUSI)
11:15  Quickbird and WorldView-1  
     A. Apponi (Eurimage)
11:35  Formosat-2, Kompsat-2 and Astroterra  
     I. Lampin (Spot Image)
11:55  IRS Program and Products  
     R. Haydn (EuroMap)

Session 4: Workshop Wrap-up

12:15   -Summary from previous presentations: Discussion on next steps in ground segment cooperation  
     -Questions & Answers
13:00  End of Workshop