



EUMETSAT GSICS Actions Summary January 2009

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GSICS Data Working Group II Actions

Eumetsat Actions:

- WG 2 / 01 - Development of a GSICS data management server.
- WG 2 / 02 - Using the generic data flow definition; specify the set of data formats needed to support GSICS.
- WG 2 / 03 - Creation of the first set of source data sets.

Related Actions:

- WG 2 / 04 - Investigate the registration of the official GSICS domain name www.gsics.int.



WG 2 / 01 - Development of a GSICS data management (collaboration) server

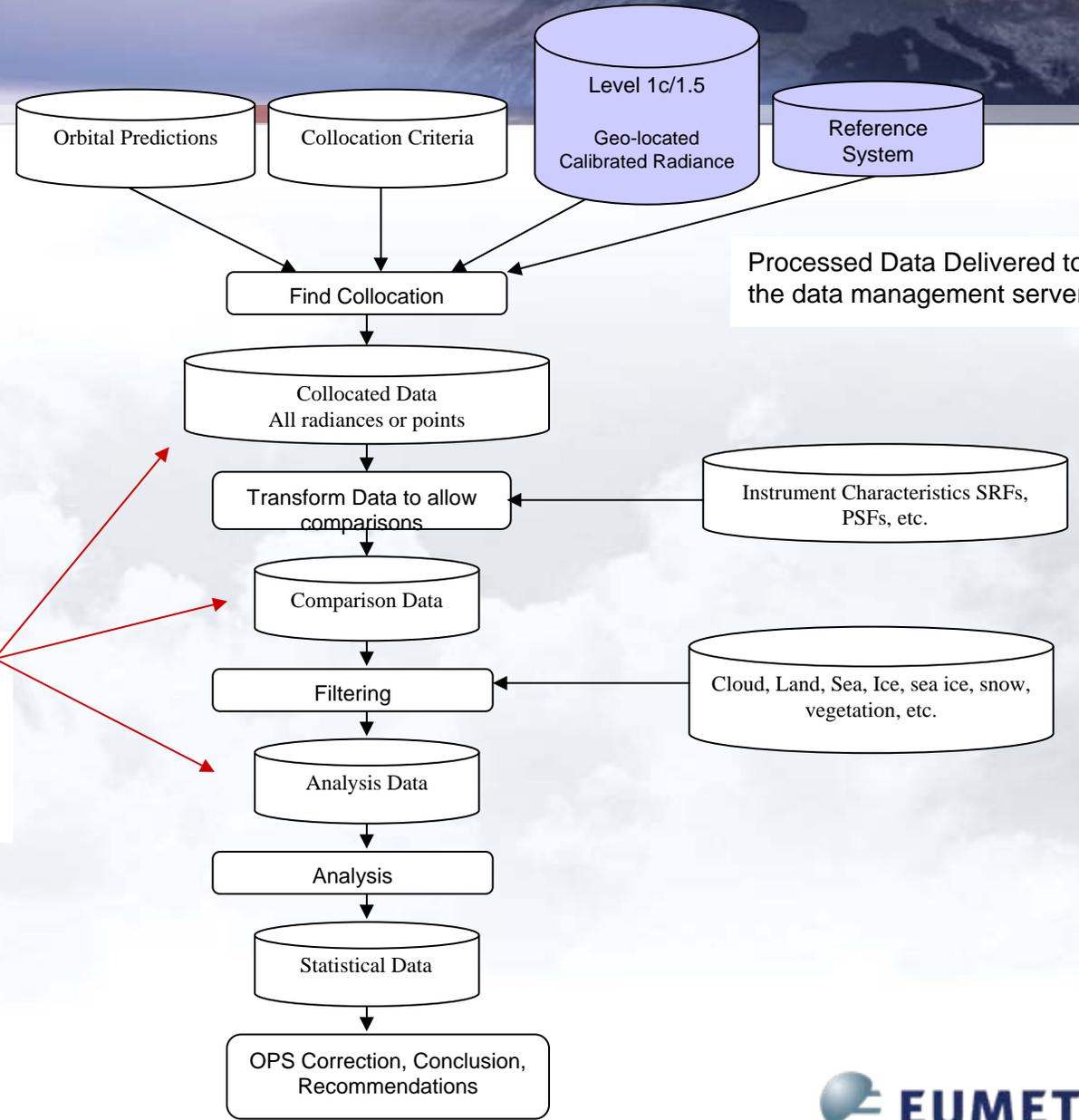
Planned Activities:

- Functional Requirements, Completed May 2008.
- Data Server Design, Completed Nov 2008.
- Implementation and Pre-operational Testing, Feb 2009.
- Operations, March 2009.

Overall Status : In Progress.



WG 2 / 02 - Using the generic data flow definition



Data downloaded from the data management server shall following these generic processing steps to create the inter-calibration products

- GRWG should define content of these intermediate datasets
- GRWG + GWDG should work together to define NetCDF formats



WG 2 / 03 - Creation of the first set of source data sets.

The following EUMETSAT source data sets have been created. Proposed WMO File Naming for each data set is also presented here.

- MTP MVIRI Native Radiance NetCDF Data Set.
 - **Proposed Filename Format:**
 - **W_xx-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MFGsat+product_C_EUMS_yyyyMMddhhmmss.nc**
 - **Example :**
 - **W_xx-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MET7+MTP15_C_EUMS_20080801210000.nc**
- MSG SEVIRI Native Radiance NetCDF Data Set.
 - **Proposed Filename Format:**
 - **W_xx-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSGsat+MSG15_C_EUMG_yyyyMMddhhmmss.nc**
 - **Example :**
 - **W_xx-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+MSG15_C_EUMG_20071231214523.nc**
- EPS IASI 1C Spectrum NetCDF Data Set.
 - **Proposed Filename Format:**
 - **W_xx-EUMETSAT-Darmstadt,HYPERSPECT+SOUNDING,EPSsat+IASI1C_C_EUMP_yyyyMMddhhmmss_orbitNumber_eps_o_I1.nc**
 - **Example :**
 - **W_xx-EUMETSAT-Darmstadt,HYPERSPECT+SOUNDING,METOPA+IASI1C_C_EUMP_20080228293041_00101_eps_o_I1.nc**

EUMETSAT source data sets shall be available from the EUMETSAT Archive from 1st Quarter of 2009:

<http://archive.eumetsat.int>

The NetCDF 4 Recommendation Define in GSICS Working Group on Data Management 2

Current EUMETSAT products are generated using NetCDF 3 APIs. Reasons:

- A limited NetCDF 4 library was released by Unidata in mid 2008; write and read APIs only.
- NetCDF 4 is no longer portable, it relies on C libraries compiled on the host platform.
- Unidata confirmed in Nov. 2008 that very few users (if any) are using NetCDF 4.
- There are currently no freely available tools that can use NetCDF 4 data sets. Users are required to write their own applications using the limited APIs to access the data.
- Due to these issues, we recommend to use NetCDF 3 instead. NetCDF 4 can be introduced in the future if needed.
- NetCDF 4 APIs are compatible with NetCDF 3 files.



WG 2 / 04 - Investigate the registration of the official GSICS domain name www.gsics.int.

Eumetsat provided support to this action and the following domain name is proposed to all partners to hold the official GSICS Web Portal:

<http://gsics.wmo.int>

All partner's GSICS related web pages can be discovered and accessed through this portal.

If all partners agree on this domain name, we need to initiate the following:

- Decide the location of the web server and its administrators.
- Request the WMO to configure its DNS to point to this server.
- Create the GSICS generic pages for the Portal (performed by the administrators).



Data Management Server Specification: Additional Information to the Service & Products Roster specifically for the Data Management Server?

We are close to an Operational System, GDWG need to formalise what service the server shall provide:

i.e. What does the users of the server (e.g GRWG) want/expect from the GSICS Data Management Servers ?

Some answers from previous meetings.

- Ease of access to the source data from one partner (or all partners, need clarification).
- Uploading of results, algorithms, code and documentation.
- Access to other partners' results, algorithms, code and documentation.
- Rolling archive specification; how long shall the data be available on the server before it is archived and/or deleted (functionality in place, but need to be defined).
- Data retention specification; what data requires permanent archiving (need to be defined).
- Automated method for the presentation of results (enhancement).
- A 24/7 Service (enhancement).



End of Presentation

Thank you for your attention, questions ?