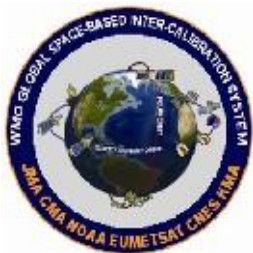


Common Directory Structure for GSICS Data and Product Servers

Peter Miu

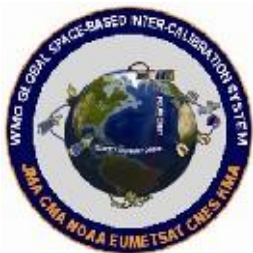
CMA, EUMETSAT, JMA, KMA, NOAA/NESDIS, WMO



Proposed Solution

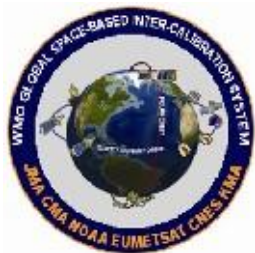
- ❖ The EUMETSAT GSICS Data and Products server provides HTTP and FTP services for the uploading and the downloading of source data and products.

- ❖ Three prime directories have been defined under the THREDDS public directory:
 - Upload directory, temporary staging directory where all uploaded data are validated as a GSICS source data set or product.
 - Source data directory, validated source data sets are moved here. The directory is scanned by THREDDS and data found are shown as Source Data Sets.
 - GSICS products directory, validated products are moved here. The directory is scanned by THREDDS and data found are shown as GSICS products.



Upload Directory

- ❖ The directory contains no further directories.
- ❖ Accessed via a standard FTP user account where the upload directory is the root. Data can only be uploaded here.
- ❖ Uploaded source data sets and products must follow agreed WMO file naming conventions.
- ❖ Validated data sets and products are moved to the THREDDS scanned Source Data or GSICS Products directories.
- ❖ Invalid data are immediately deleted.



Source Data and GSICS Product Directories

- ❖ These directories are scanned by THREDDS and expected data are displayed and accessible in the THREDDS web pages.

- ❖ Actual directory structure proposed as follows:

- **GPRC**

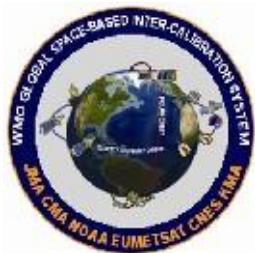
↳ **Space Programme, satellite or instrument.**

Example:

- **JMA**

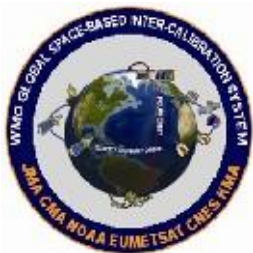
↳ **MTSAT1R**

- ❖ THREDDS can be configured to provide **additional meta data information** in the “Dataset” tree and the Data Set pages.



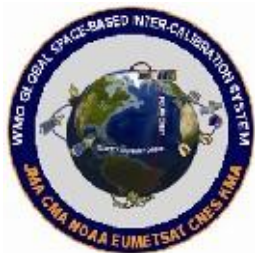
Additional Meta Data Information

- ❖ THREDDS can be configured to display additional branches in the Dataset tree providing further meta-data information for the data set found under the branch.
- ❖ THREDDS filter can also be used to organise different data sets in the same directory and display them under separate directories in the Dataset tree.

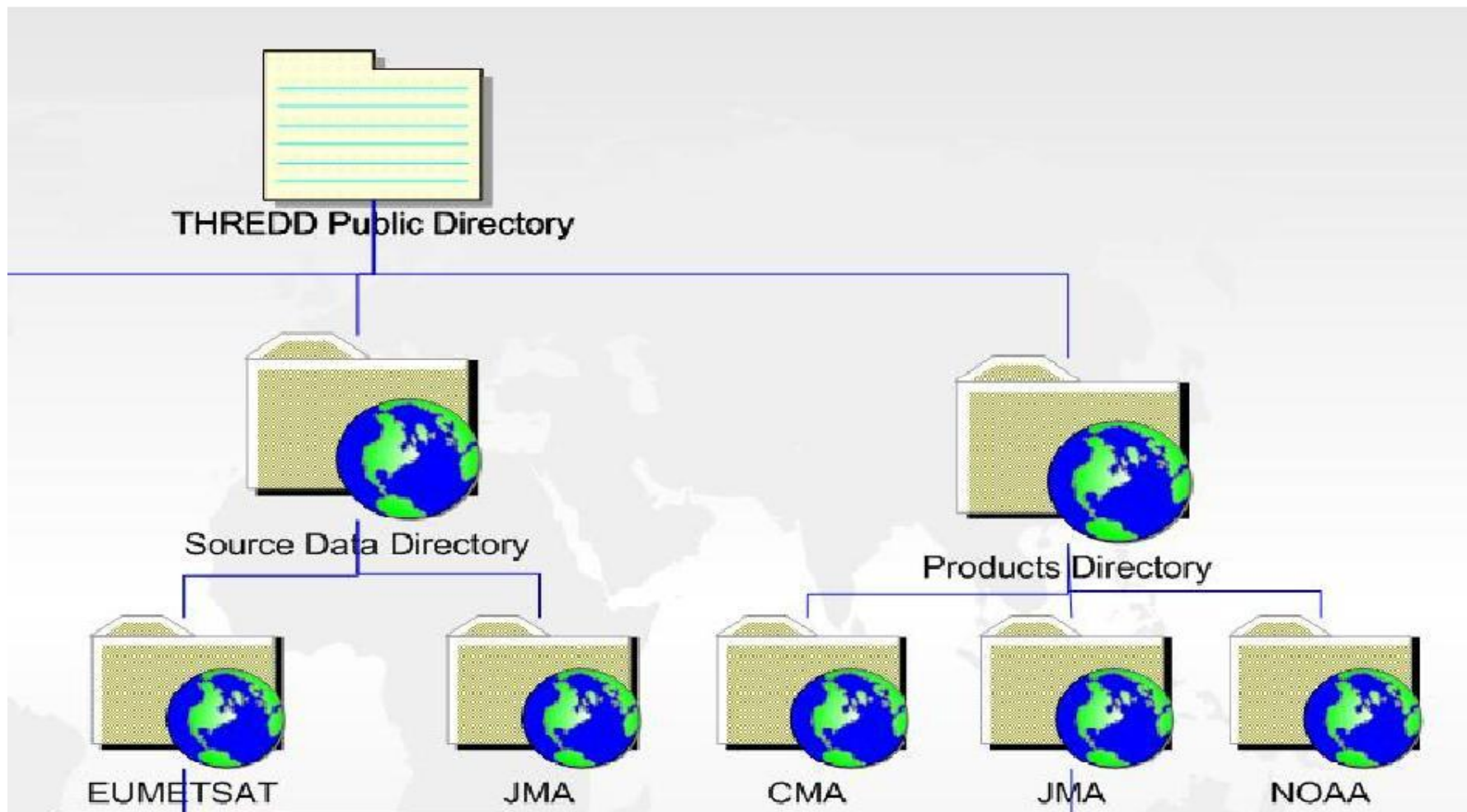


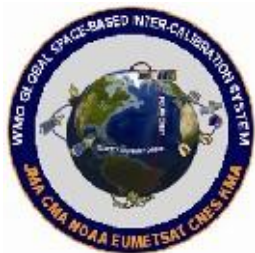
Proposed Directory Structure



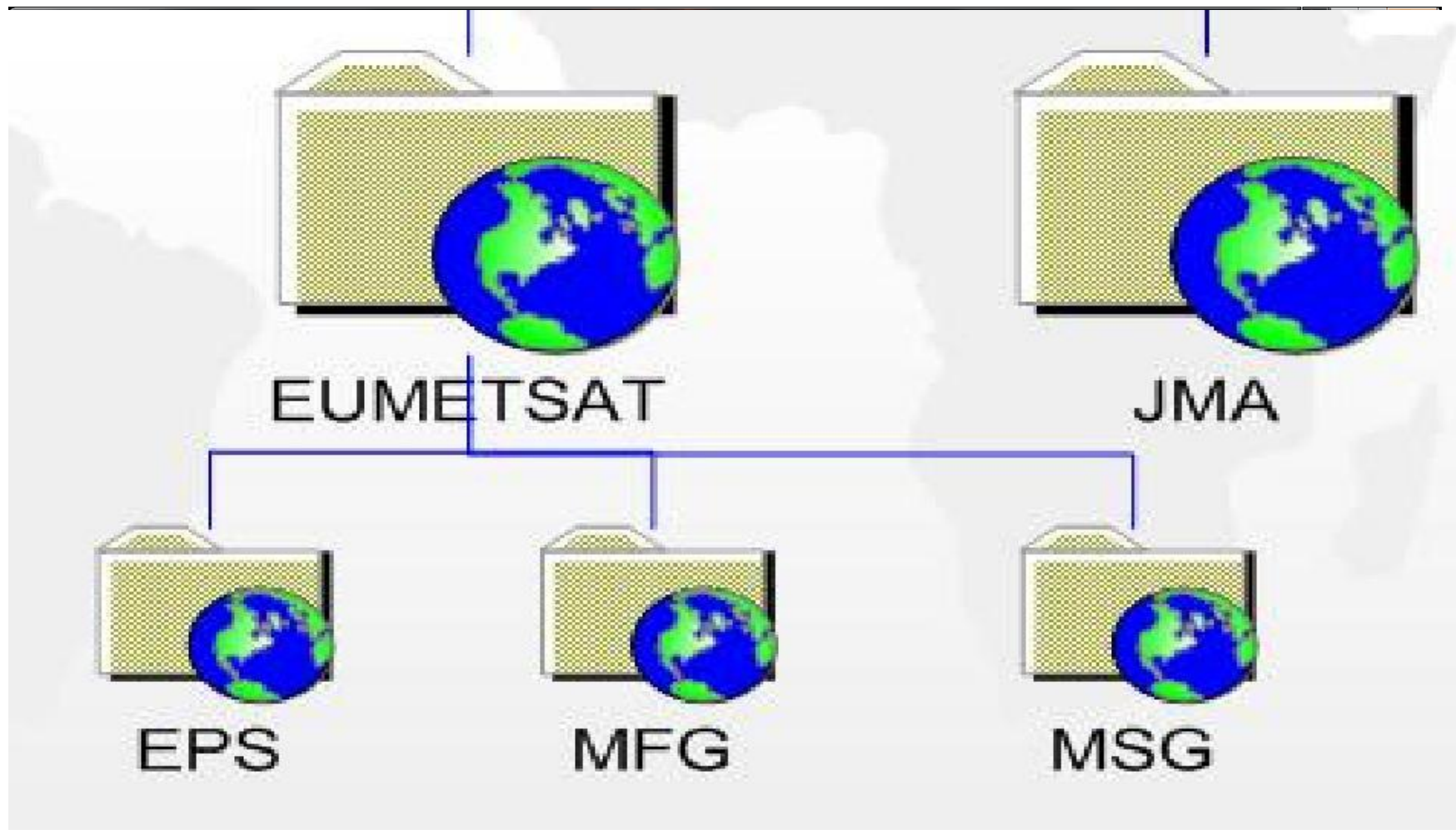


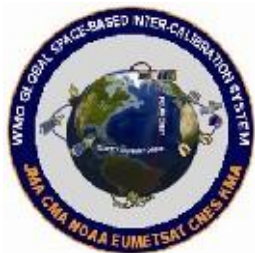
GSICS Dataset Tree





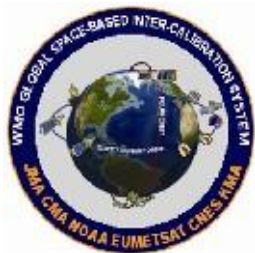
GPRC Dataset Tree





MSG15 netCDF Directory Scanned

Dataset	Size	Last Modified
MSG15_NetCDF		--
latest		--
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131221510.nc	103.2 Mbytes	2010-01-31 22:53:22Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131220010.nc	103.2 Mbytes	2010-01-31 22:53:02Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131214510.nc	103.2 Mbytes	2010-01-31 22:53:29Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131213010.nc	103.2 Mbytes	2010-01-31 22:53:16Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131211511.nc	103.2 Mbytes	2010-01-31 22:52:58Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131210010.nc	103.2 Mbytes	2010-01-31 22:52:45Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100131204510.nc	103.2 Mbytes	2010-01-31 22:52:37Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130221511.nc	103.2 Mbytes	2010-01-30 22:52:45Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130220011.nc	103.2 Mbytes	2010-01-30 22:52:32Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130214510.nc	103.2 Mbytes	2010-01-30 22:52:10Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130213010.nc	103.2 Mbytes	2010-01-30 22:52:26Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130211510.nc	103.2 Mbytes	2010-01-30 22:51:52Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130210010.nc	103.2 Mbytes	2010-01-30 22:51:56Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100130204511.nc	103.2 Mbytes	2010-01-30 22:51:37Z
W_XX-EUMETSAT-Darmstadt,VIS+IR+IMAGERY,MSG2+SEVIRI_C_EUMG_20100129221510.nc	103.2 Mbytes	2010-01-29 22:53:24Z

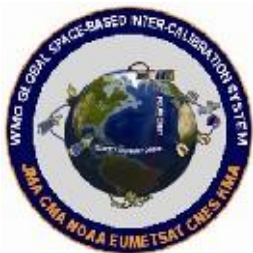


Example of Data in the same Directory organised as two data sets

Catalog /thredds/jmaResults.html

Dataset	Size	Last Modified
Japan Meteorological Agency Resultant Products	--	--
GeoStationary Satellites	--	--
MTSAT1R GSICS Product	--	--
MTSAT1R JAMI/EPS IASI GSICS Product(s)/	--	--
MTSAT1R JAMI/NOAA AIRS GSICS Product(s)/	--	--

EUMETSAT Catalogue at www.eumetsat.int
THREDDS Data Server [Version 4.0.24 - 20090724.2259] Documentation

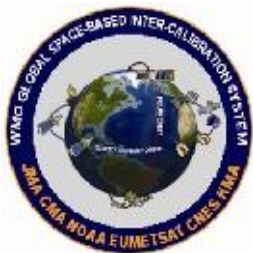


Data Sets are filtered in the same directory according to Wild Card 1

Filtered on **WP_JP-JMA-MSC*IASI*C_RJTO*.nc**

Dataset	Size	Last Modified
MTSAT1R JAMI/EPS IASI GSICS Product(s)		--
latest		--
W_JP-JMA-MSC, COLLOC+IR, MTSAT1R-JAMI+MetopA-IASI_C_RJTD_20090814110456_20090814110552.nc	28.68 Kbytes	2009-11-10 12:38:05Z
W_JP-JMA-MSC, COLLOC+IR, MTSAT1R-JAMI+MetopA-IASI_C_RJTD_20090814000606_20090814000856.nc	127.8 Kbytes	2009-11-10 12:38:05Z
W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+MetopA-IASI_C_RJTD_20090815000000.nc	4.124 Kbytes	2009-11-10 12:38:04Z
W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+MetopA-IASI_C_RJTD_20090814000000.nc	4.124 Kbytes	2009-11-10 12:38:04Z
W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS+MetopA-IASI_C_RJTD_20090815000000.nc	4.148 Kbytes	2009-11-10 12:38:03Z
W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS+MetopA-IASI_C_RJTD_20090814000000.nc	4.148 Kbytes	2009-11-10 12:38:03Z

EUMETSAT Catalogue at www.eumetsat.int
THREDDS Data Server [Version 4.0.24 - 20090724.2259] [Documentation](#)

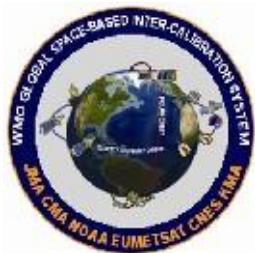


Data Sets are filtered in the same directory according to Wild Card 2

Filtered on **WP_JP-JMA-MSC*AIRS*C_RJTO*.nc**

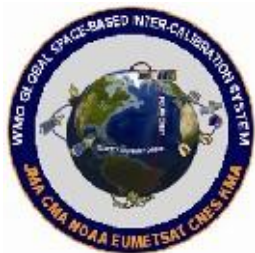
Dataset	Size	Last Modified
<u>MTSAT1R JAMI/NOAA AIRS GSICS Product(s)</u>		--
<u>latest</u>		--
<u>W_JP-JMA-MSC, COLLOC+IR, MTSAT1R-JAMI+Aqua-AIRS_C_RJTD_20090814160531_20090814160935.nc</u>	364.4 Kbytes	2009-11-10 12:38:04Z
<u>W_JP-JMA-MSC, COLLOC+IR, MTSAT1R-JAMI+Aqua-AIRS_C_RJTD_20090814034131_20090814034730.nc</u>	559.7 Kbytes	2009-11-10 12:38:04Z
<u>W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS_C_RJTD_20090815000000.nc</u>	4.124 Kbytes	2009-11-10 12:38:04Z
<u>W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS_C_RJTD_20090814000000.nc</u>	4.124 Kbytes	2009-11-10 12:38:03Z
<u>W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS+MetopA-IASI_C_RJTD_20090815000000.nc</u>	4.148 Kbytes	2009-11-10 12:38:03Z
<u>W_JP-JMA-MSC, CALIB+CORRCTN, MTSAT1R-JAMI+Aqua-AIRS+MetopA-IASI_C_RJTD_20090814000000.nc</u>	4.148 Kbytes	2009-11-10 12:38:03Z

EUMETSAT Catalogue at www.eumetsat.int
THREDDS Data Server [Version 4.0.24 - 20090724.2259] [Documentation](#)



Points for Discussion

- ❖ Is the proposed directory structure sufficient for our needs?
- ❖ Are there Alternatives?
- ❖ Goal: Recommendation for an agreed directory structure for all GSICS Data and Product servers?



End of Presentation: Thank you for your attention

Questions ?