

Reducing time to results with EUMETSAT's new Data Services

EGU 2020



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Underlined people will be available in the live session for Q&A.

Click [here](#) for this session abstract

Click [here](#) for the related Data Tailor session abstract





Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

The Current State

- EUMETSAT's operational Earth observation [data catalogue](#):
 - Spans over 35 years of meteorological satellite data, as well as climate and Copernicus marine products.
 - Adds new products 24/7/365; with consistency ensured by inter-calibration and reprocessing campaigns.
 - Offers 26% of Global Climate Observing System (GCOS) Essential Climate Variables (ECVs).
 - Is distributed to users through “push” (EUMETCAST) and “pull” (Long Term Archive/EUMETView) services.

The Challenge

- The data catalogue continues to grow:
 - Ingesting new satellite programmes and missions that increase complexity of the generated data products.
 - Making traditional workflows, where data holdings are present at user's premises, increasingly infeasible.

The Solution:

- EUMETSAT is reshaping its data services portfolio by:
 - Leveraging big data and on-premises cloud computing technologies.
 - Phasing in **new Data Services** during 2020 to facilitate near real-time data access, data visualisation, data transformation and customisation and cloud processing adjacent to the archive.

New data services for 2020



Transforming the data...

Data Tailor



Improving data access...

*EUMETSAT
Data store*



Viewing the data...

EUMETView

← Pull services

Push services →



Near-real time data delivery via terrestrial networks.

*EUMETCast
Terrestrial*

Further information:

<https://www.eumetsat.int/website/home/Data/DataDelivery/NewPilotDataServices/index.html>

Click the icons (here and on the slide header) to navigate to each service



Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

The **EUMETSAT Data Tailor** software makes it possible for users to subset and aggregate our data products in space and time, filter layers, generate quicklooks, project onto new coordinate reference systems, and reformat into common GIS formats (netCDF, GeoTIFF, etc.). It offers a uniform way to transform both historical and near real time satellite data provided by EUMETSAT.





Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

Pilot phase data collections

METOP



AVHRR RADIOMETRY PRODUCTS

IASI INTERFEROMETRY PRODUCTS

ASCAT SCATTEROMETRY PRODUCTS

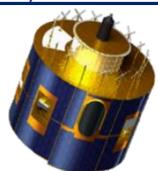
GOME SPECTROMETRY PRODUCTS

AMSU SOUNDING PRODUCTS

MHS SOUNDING PRODUCTS

HIRS SOUNDING PRODUCTS

MFG/MSG



MSG SEVIRI RADIOMETRY PRODUCTS

MFG MVIRI RADIOMETRY PRODUCTS

MSG CLOUD MASK PRODUCTS

Downstream products:



SST PRODUCTS

WIND PRODUCTS



LST PRODUCTS

EVAPOTRANS. PRODUCTS

PAR PRODUCTS



Transformation processes:

SUBSET ROI

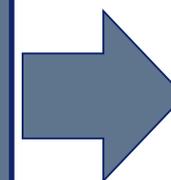
AGGREGATE

LAYER FILTERING

REPROJECT

REFORMAT

QUICK LOOK



Interfaces

Web UI interface

CLI interface

API interface

Web service interface

Planned Integrations



Apply transforms to the EUMETSAT Data Store cart



Generation of GeoTIFFs for EUMETView

* pilot service now available

Data Tailor

EUMETSAT Data store

EUMETView

EUMETCast Terrestrial

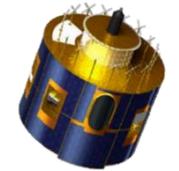
Pilot phase data collections

METOP



- AVHRR RADIOMETRY PRODUCTS
- IASI INTERFEROMETRY PRODUCTS
- ASCAT SCATTEROMETRY PRODUCTS
- GOME SPETROMETRY PRODUCTS
- AMSU SOUNDING PRODUCTS
- MHS SOUNDING PRODUCTS
- HIRS SOUNDING PRODUCTS

MFG/MSG

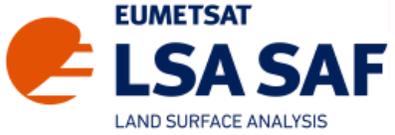


- MSG SEVIRI RADIOMETRY PRODUCTS
- MFG MVIRI RADIOMETRY PRODUCTS
- MSG CLOUD MASK PRODUCTS

Downstream products:

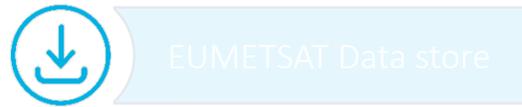


- SST PRODUCTS
- WIND PRODUCTS



- LST PRODUCTS
- EVAPOTRANS. PRODUCTS
- PAR PRODUCTS

Product	Platform	Format(s)	Data Layer Filter	Aggregate	ROI Extract	Reformat	Re-project	Sub-sample	Generate Quicklook
AVHRR Global Data Service L1b	Metop A, B, C	Native	x	x	x	x	x	x	RGB
GOME L1b	Metop A, B, C	Native	x	x	x	x	x	x	G
IASI L1c	Metop A, B, C	Native	x	x	x	x	x	x	G
ASCAT L1b	Metop A, B, C	Native	x	x	x	x	x	x	G
AMSU-A L1b	Metop A, B, C	Native	x	x	x	x	x	x	G
MHS L1b	Metop A, B, C	Native	x	x	x	x	x	x	G
HIRS L1b	Metop A, B, C	Native	x	x	x	x	x	x	G
Polar Multi Sensor Aerosol Optical Properties	Metop A, B, C	Native	x	x	x	x	x	x	G
IASI L2 Sounding Products	Metop A, B, C	Native	x	x	x	x	x	x	G
ASCAT Soil Moisture 12.5km & 25km (Native)	Metop A, B, C	Native	x	x	x	x	x	x	G
MSG L1.5 SEVIRI	0 deg., IODC, RSS	Native, HRIT	x	x	x	x	x	x	x
MSG L2 Cloud Mask	0 deg., IODC, RSS	HRIT, GRIB2			x	x	x	x	x
MSG L2 Optimal Cloud Analysis	0 deg., IODC, RSS	GRIB2			x	x	x	x	x
MSG L2 Multi-Sensor Precipitation Estimate	0 deg., IODC, RSS	GRIB2			x	x	x	x	x
MSG L2 Active Fire Monitoring	0 deg., IODC, RSS	GRIB2			x	x	x	x	x
MSG L2 Cloud Analysis	0 deg., IODC, RSS	BUFR			x	x	x	x	x
MSG L2 Atmospheric Motion Vectors	0 deg., IODC, RSS	BUFR			x	x	x	x	x
Global L3C AVHRR SST	Metop B	netCDF, GRIB2	x	x	x	x	x	x	
ASCAT L2 Coastal Winds 12.5 km	Metop A, B	netCDF	x	x	x	x	x	x	
ASCAT L2 25 km winds record rel. 1	Metop A	netCDF, BUFR	x	x	x	x	x	x	
ASCAT L2 12.5 km winds record rel. 1	Metop A	netCDF, BUFR							
ERS L2 25 km winds record rel. 1	ERS-1, ERS-2	netCDF, BUFR	x	x	x	x	x	x	
SeaWinds L2 25 km winds record rel. 1	QuikSCAT	netCDF, BUFR							
10-day composites of MSG Land Surface Temperature	0 deg.	HDF5			x	x	x	x	x
Evapotranspiration	0 deg.	HDF5			x	x	x	x	x
Reference Evapotranspiration	0 deg.	HDF5			x	x	x	x	x
Daily Fraction of Absorbed PAR	0 deg.	HDF5			x	x	x	x	x



Using the WebUI

Access to the Data Tailor, and further information on its installation and use, including “how to” videos can be found through this [link](#).

1 Drop down menus allow users to select input product type, output format type, or to load an existing configuration.

Supported output formats

BUFR	Binary Universal Form for the Representation of Meteorological Data
GeoTIFF	Geospatial Tagged Image File Format
HDF4/HDF5	Hierarchical Data Format – version 4/5
JPEG	Joint Photographic Experts Group
netCDF-4	Network Common Data Form
PNG	Portable Network Graphics
xarray Dataset	In-memory xarray library object of a netCDF file
Source format	The format of valid input data

2 Customisation tabs allow users to access and configure their method

3 Action buttons allow users to save configurations for later use, run the process and open the monitoring panel.

The screenshot shows the EUMETSAT Data Tailor web interface. At the top, there are navigation tabs: LAUNCHPAD, AGGREGATION, LAYER FILTER, REPROJECTION, ROI, QUICK LOOK, and OUTPUT OPTIONS. A red box labeled '1' highlights the 'Configuration panel' which includes dropdown menus for 'Product type' (set to AVHRR Level 1B), 'Output format' (set to JPEG (RGB)), and 'Configuration' (set to Natural color). Below this, there are two tables: 'Input products' and 'Export folder'. The 'Input products' table lists files with columns for file name, modification date, and size. The 'Export folder' table lists files with columns for file name, modification date, and size. At the bottom, there are customisation tabs: Aggregation, Layer Filter, Reprojection, ROI, Quick look, and Output Options. A red box labeled '2' highlights these tabs. At the bottom right, there are action buttons: 'SAVE AS...', 'SAVE', a play button, and an up arrow button. A red box labeled '3' highlights these buttons.



Using the WebUI (cont.)

4 Monitoring panel shows job queue and the current progress and the log for each run

The Data Tailor (v2.4) can be installed on:

- Linux Ubuntu 18.04 LTS 64 bit
- CentOS Linux 6 and 7 64 bit
- RedHat Enterprise Linux 7 64 bit
- Windows 10 (beta stage, feedback welcome)

Customisation ID	Status	Progress/Time
3404fea2	Running	
6d52aa52	Completed	3s
b2b39026	Failed	-
8dde55d4	Completed	2s
b9c51997	Failed	-
e85a3fea	Failed	-
8dc282d0	Inactive	

```
2020-04-24 10:18:30 - api - 194 - INFO - Submitted process 3404fea2
2020-04-24 10:18:30 - api - 317 - INFO - FUTURE: run_chain-683e6c627e6583488e19171d0f
2020-04-24 10:18:30 - chain_runner - 326 - INFO - Start process "3404fea2"
2020-04-24 10:18:30 - chain_runner - 330 - INFO - WORKER: tcp://10.12.83.3:36295
2020-04-24 10:18:30 - chain_runner - 331 - INFO - PID: 5784
2020-04-24 10:18:30 - chain_runner - 332 - INFO - backend: epct_gis_eps
2020-04-24 10:18:30 - chain_runner - 333 - INFO - user: None
2020-04-24 10:18:31 - preprocessing - 409 - INFO - Processing details - product: AVHRR
```

Using the CLI and API

- The Data Tailor can also be run using a **command line interface (CLI)**.
 - This functionality is installed by default and allows the Data Tailor to be exploited for batch processing.
 - More information on using the CLI can be found in the Data [User Guide](#).
- In addition, the Data Tailor features a Python **application programming interface (API)**, which
 - allows for external use to Data Tailor capability to be exploited externally
 - supports the use inclusion of the Data Tailor in more complex processing chains (e.g. with PyTroll)



The Web service

• the **Web Service Interface** provides a REST web interface than can be invoked from other applications





Data Tailor



EUMETSAT Data store

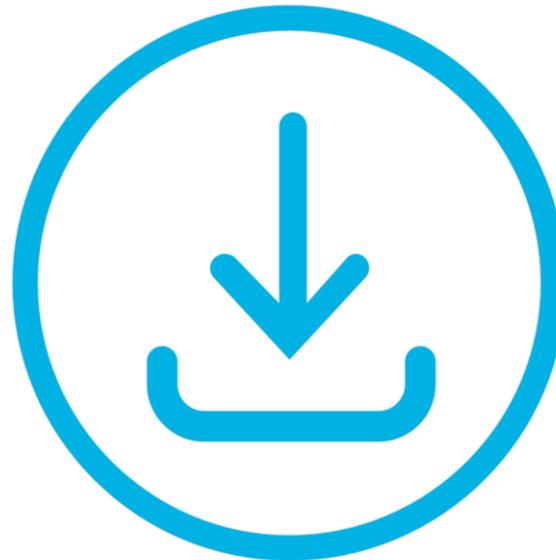


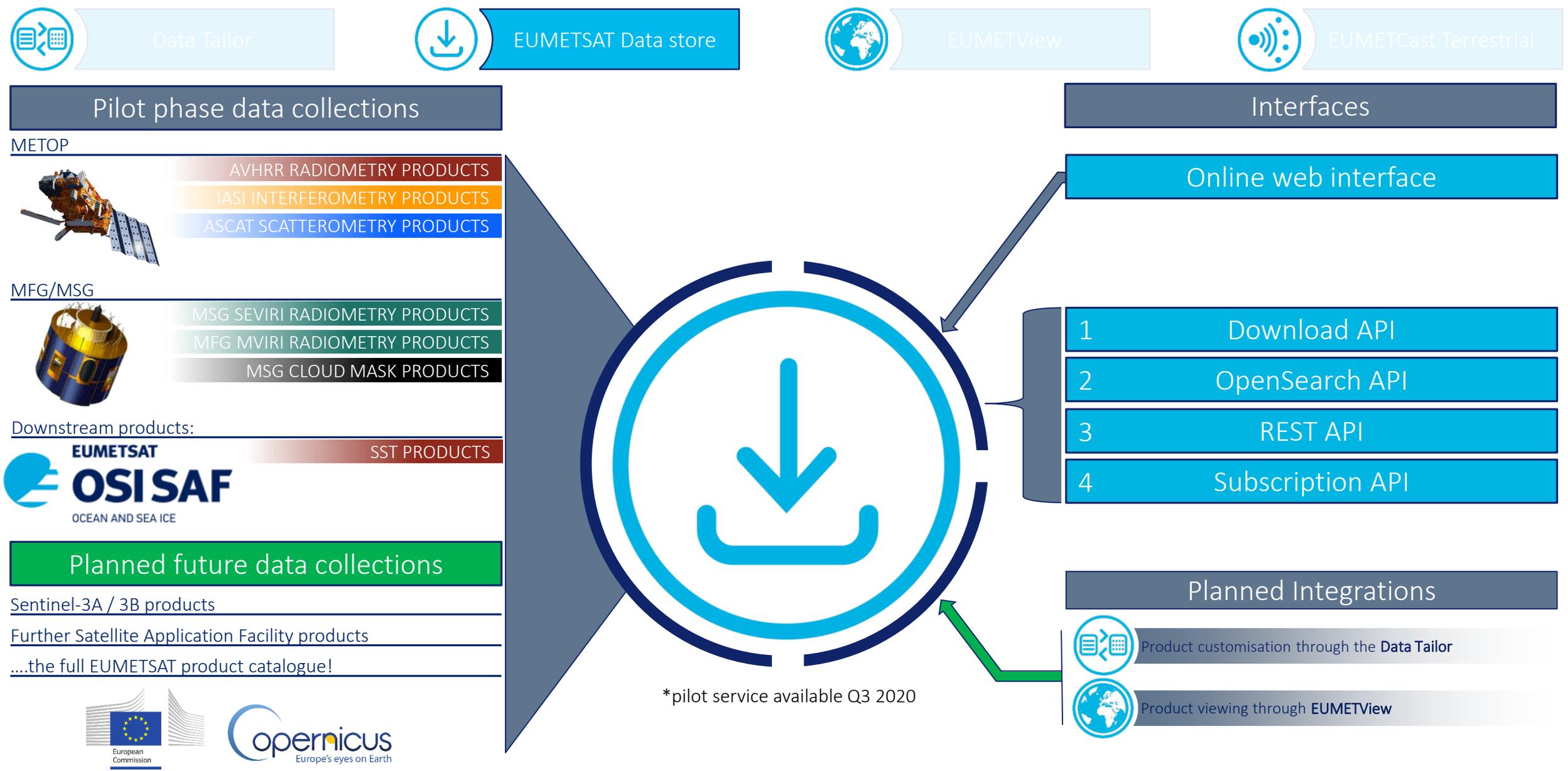
EUMETView



EUMETCast Terrestrial

The **EUMETSAT Data Store** provides users with a download and [linked data tailoring service](#) for online data; providing access through an online interface and via Application Programming Interface (API).





Data Tailor

EUMETSAT Data store

EUMETView

EUMETCast Terrestrial

Pilot phase data collections

METOP



- AVHRR RADIOMETRY PRODUCTS
- IASI INTERFEROMETRY PRODUCTS
- ASCAT SCATTEROMETRY PRODUCTS

MFG/MSG



- MSG SEVIRI RADIOMETRY PRODUCTS
- MFG MVIRI RADIOMETRY PRODUCTS
- MSG CLOUD MASK PRODUCTS

Downstream products:



SST PRODUCTS

Planned future data collections

Sentinel-3A / 3B products

Further Satellite Application Facility products

...the full EUMETSAT product catalogue!

Interfaces

Online web interface

- Download API
- OpenSearch API
- REST API
- Subscription API

Planned Integrations

- Product customisation through the Data Tailor
- Product viewing through EUMETView

*pilot service available Q3 2020





Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

Pilot phase data collections

METOP

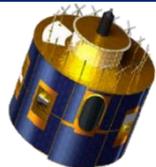


AVHRR RADIOMETRY PRODUCTS

IASI INTERFEROMETRY PRODUCTS

ASCAT SCATTEROMETRY PRODUCTS

MFG/MSG



MSG SEVIRI RADIOMETRY PRODUCTS

MFG MVIRI RADIOMETRY PRODUCTS

MSG CLOUD MASK PRODUCTS

Downstream products:

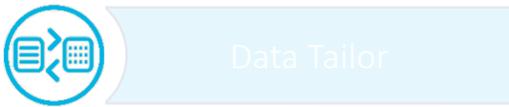


SST PRODUCTS

Product	Platform	Format (s)	Historic	NRT*	CDR**
AVHRR Global Data Service L1b	Metop A, B, C	Native	2019	2020	
IASI Global Data Service L1c	Metop A, B, C	Native & PDU	2019	2020	
IASI Combined Sounding Products	Metop A, B, C	Native	2019	2020	
ASCAT Soil Moisture at 12.5 km	Metop A, B, C	Native	2019	2020	
ASCAT Soil Moisture at 25 km	Metop A, B, C	Native	2019	2020	
MSG L1.5 SEVIRI Image Data	0 deg., IODC, RSS	Native	2019	2020	
MFG L1.5 MVIRI CDR	0 deg., 57 deg., 63 deg.	netCDF			63 years
MSG L2 Cloud Mask	0 deg., IODC, RSS	GRIB2	2019	2020	
Global AVHRR SST	Metop B	netCDF	2019	2020	
ASCAT L2 Coastal Winds at 12.5 km	Metop A, B	netCDF	2019	2020	
ASCAT L2 25 km winds record rel. 1	Metop A	netCDF			7 years
ASCAT L2 12.5 km winds record rel. 1	Metop A	netCDF			7 years

The Data Store will provide access to historic and near real-time (NRT*) data, as well as climate data records (CDRs**).

The pilot data streams are only the beginning. Much more is coming in the near future!



Interfaces

Online interface

Web UI based catalogue navigation

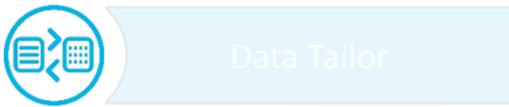
Download API

OpenSearch API

REST API

Subscription API

The screenshot displays the EUMETSAT Data Store web interface. At the top, there is a navigation bar with the EUMETSAT logo and 'DATA SERVICES'. On the right, there are links for 'Account and Cart options' and a shopping cart icon. Below the navigation bar, the page shows search results for 'ASCAT'. On the left side, there is a sidebar with search terms and filters, including 'Ocean', 'PLATFORM', 'SENSOR TYPE', 'SENSOR', 'ACCESS', 'USAGE RIGHTS', 'FORMAT', 'TIME', 'ORBIT', 'COLLECTION TYPE', 'STATUS', 'REGION', 'PARAMETER', and 'ORIGINATING CENTRE'. The main content area shows three search results, each with a title, description, and an 'Access Data' button. The results are: 'ASCAT L2 12.5 km winds data record release 1 - Metop', 'ASCAT L2 25 km winds data record release 1 - Metop', and 'ASCAT Coastal Winds at 12.5 km Swath Grid - Metop'. At the bottom of the page, there are links for 'CONTACT' and 'LEGAL INFORMATION'.



Interfaces

Online interface

Web UI based catalogue navigation

Download API

OpenSearch API

REST API

Subscription API

Account and Cart options

Search refinement filter

Search results

Download options

Selected product coverage

ROI filtering

Direct download

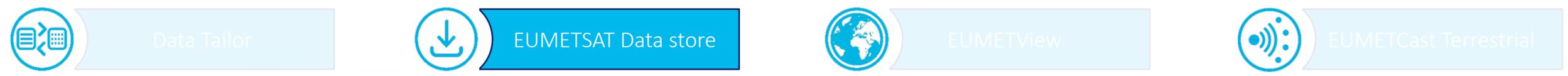
Command line

Cart

>> Interface with APIs

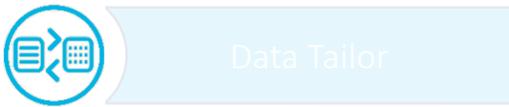


Data Tailor integration
>> product customisation



- 1 Download API
- 2 OpenSearch API
- 3 REST API
- 4 Subscription API

- 1 Download data using URL, command line and Python based options using ID or collection and sensing time
- 2 Search Data Store at product and collection levels. Filter selections by time, ROI, satellite, timeliness
- 3 Navigate/Browse products and collections by date and spatial coverage / footprint
- 4 Notification service for new product availability



Interfaces

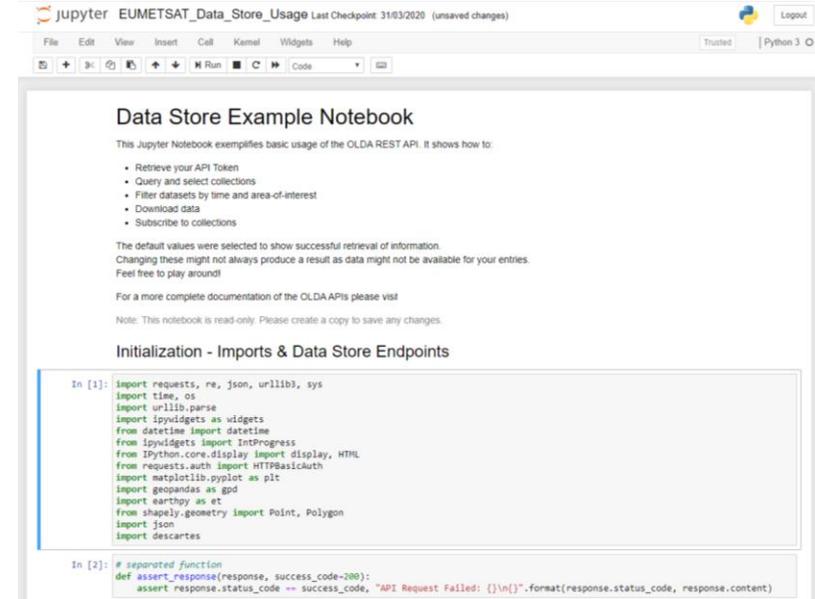
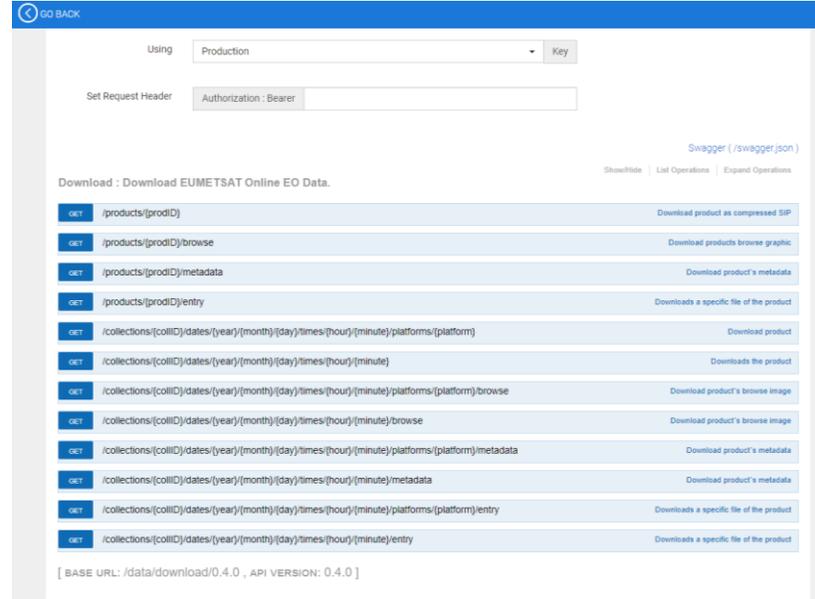
Online interface

1 Download API

2 OpenSearch API

3 REST API

4 Subscription API



Full Swagger definitions available for each API

Python and Jupyter notebook examples snippets available for each API



Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

EUMETView is an Online Map Service that provides visualisations of EUMETSAT products through a customisable web user interface and an enhanced set of Open Geospatial Consortium (OGC) standard APIs. EUMETView makes it possible to create and save maps using the user interface, or integrates with user's personal service, via the API.



*pilot service available Q3 2020



Data Tailor



EUMETSAT Data store



EUMETView



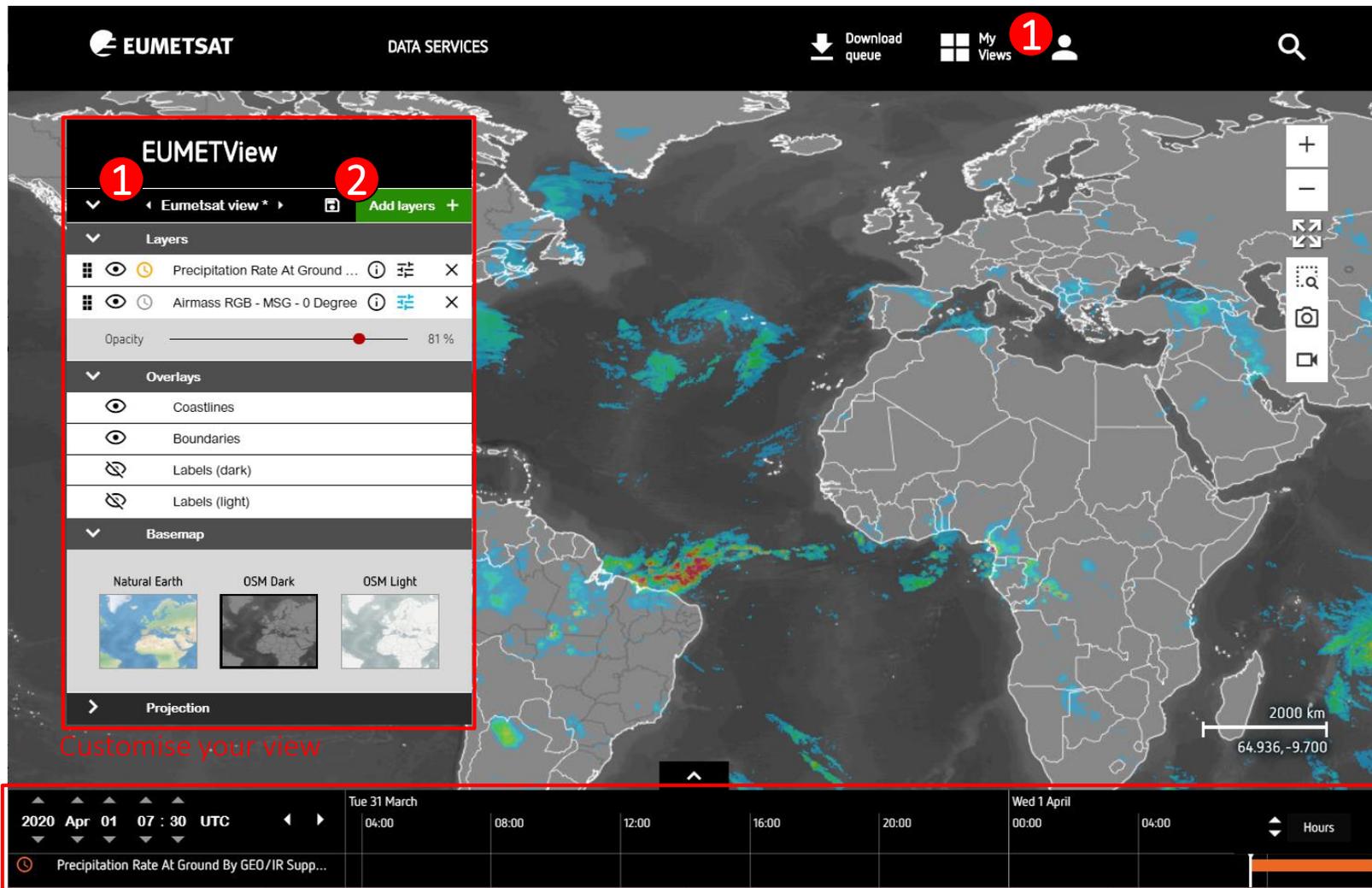
EUMETCast Terrestrial

The EUMETView web interface

> Customisable data viewing

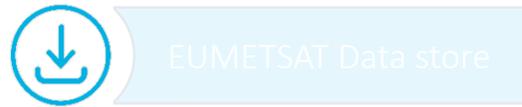
1 New: My Views functionality to customise and save maps. EUMETSAT visualisations tailored to users' needs.

2 Search and add data layers by satellite/theme



Customise your view

View your data timeline

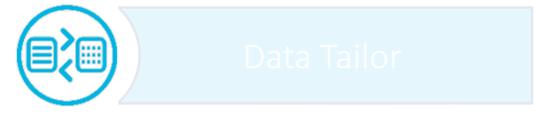


The EUMETView web interface

> Customisable map download

- 3 Create snapshots of the displayed maps or download the georeferenced products.
- 4 Animate and download maps
- 5 View data as point value information or time series
- 6 Account-based data policy for licensed visualisations

The new EUMETView will run in parallel with the existing service during the pilot phase (Q4 2020)



OGC API interfaces

- Each product has its available API services listed
- API access determined by user specific license.
- Full API capability documents provided
- Example OGC requests provided
- This will allow the users to be able to integrate EUMETView in their own applications and to be able to perform systematic images and products download without accessing the GUI

```
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  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.3.0" updateSequence="3529"
  xsi:schemaLocation="
    http://www.opengis.net/wms http://www.opengis.net/wms/1.3.0/wms.xsd
  ">
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    <KeywordList/>
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    ">
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    <AccessConstraints>none</AccessConstraints>
  </Service>
  <Capability>
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    </Request>
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  </Capability>
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```
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  <Abstract>EUMETSAT visualizations offering via WMS</Abstract>
  <!-- Limited list of EPSG projections: -->
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  <CRS>EPSG:900913</CRS>
  <CRS>EPSG:3995</CRS>
  <CRS>CRS:84</CRS>
  <EX_GeographicBoundingBox>...</EX_GeographicBoundingBox>
  <BoundingBox CRS="CRS:84" minx="-77.0" miny="-77.0" maxx="77.0" maxy="77.0"/>
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    <Name>h03b</Name>
    <Title>
      Precipitation rate at ground by GEO/IR supported by LEO/MW
    </Title>
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Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

Pilot phase data collections

METOP

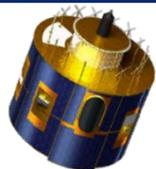
AVHRR RADIOMETRY PRODUCTS



MFG/MSG

MSG SEVIRI RADIOMETRY PRODUCTS

MSG CLOUD MASK PRODUCTS



Downstream products:

SST PRODUCTS

WIND PRODUCTS



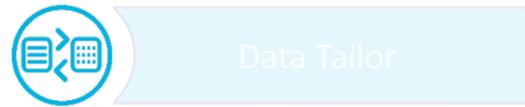
SENTINEL-3A / 3B

SLSTR RADIOMETRY PRODUCTS

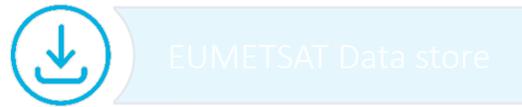
OLCI RADIOMETRY PRODUCTS



Product	Platform	OGC Service
Metop AVHRR RGB Clouds (accumulated orbits)	Metop A, B, C	WMS
Metop AVHRR Natural Colour + Fog (accumulated orbits)	Metop A, B, C	WMS
Metop AVHRR IR 10.8	Metop A, B, C	WMS
Metop AVHRR Orbital Footprints	Metop A, B, C	WMS, WFS
Meteosat single channel imagery (10.8, 3.9, 0.6, 6.2)	0 deg., IODC, RSS	WMS
RGB Day Microphysics; Ash; Dust; E-View, Fog, Convection, Natural Colour, Snow, Nat. Colour Enhanced, Tropical Airmass.	0 deg., IODC, RSS	WMS
Cloud products CTH, CLAI, CLM, GII	0 deg, IODC	WMS
Fire	0 deg., IODC, RSS	WMS
Precipitation (H03B)	0 deg.	WMS, WCS
Precipitation (MPE)	IODC	WMS, WCS
AMV	0 deg., IODC	WMS, WFS
Global AVHRR SST	Metop B	WMS, WCS
ASCAT L2 Coastal Winds at 12.5 km	Metop A, B	WMS, WFS
Sentinel 3 OLCI L1 RGB orbits	Sentinel 3A & B	WMS
Sentinel 3 OLCL L2 CHL Concentration orbits	Sentinel 3A & B	WMS
Sentinel 3 SLSTR L2 SST orbits	Sentinel 3A & B	WMS
Sentinel 3 OLCI L1 RGB accumulated orbits over a day orbits	Sentinel 3A & B	WMS
Sentinel 3 OLCL L2 CHL Concentration accumulated orbits / day	Sentinel 3A & B	WMS
Sentinel 3 SLSTR L2 SST accumulated orbits / day	Sentinel 3A & B	WMS



Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

EUMETCast is EUMETSAT’s primary “push” mechanism for the near real-time delivery of satellite data and products, delivering a wide range of products through a multi-service dissemination system based on multicast technology. The **EUMETCast Terrestrial** service augments the existing EUMETCast Satellite service, using the terrestrial National Research and Education Network (NREN) and GÉANT infrastructure as a delivery mechanism.



Data Tailor

EUMETSAT Data store

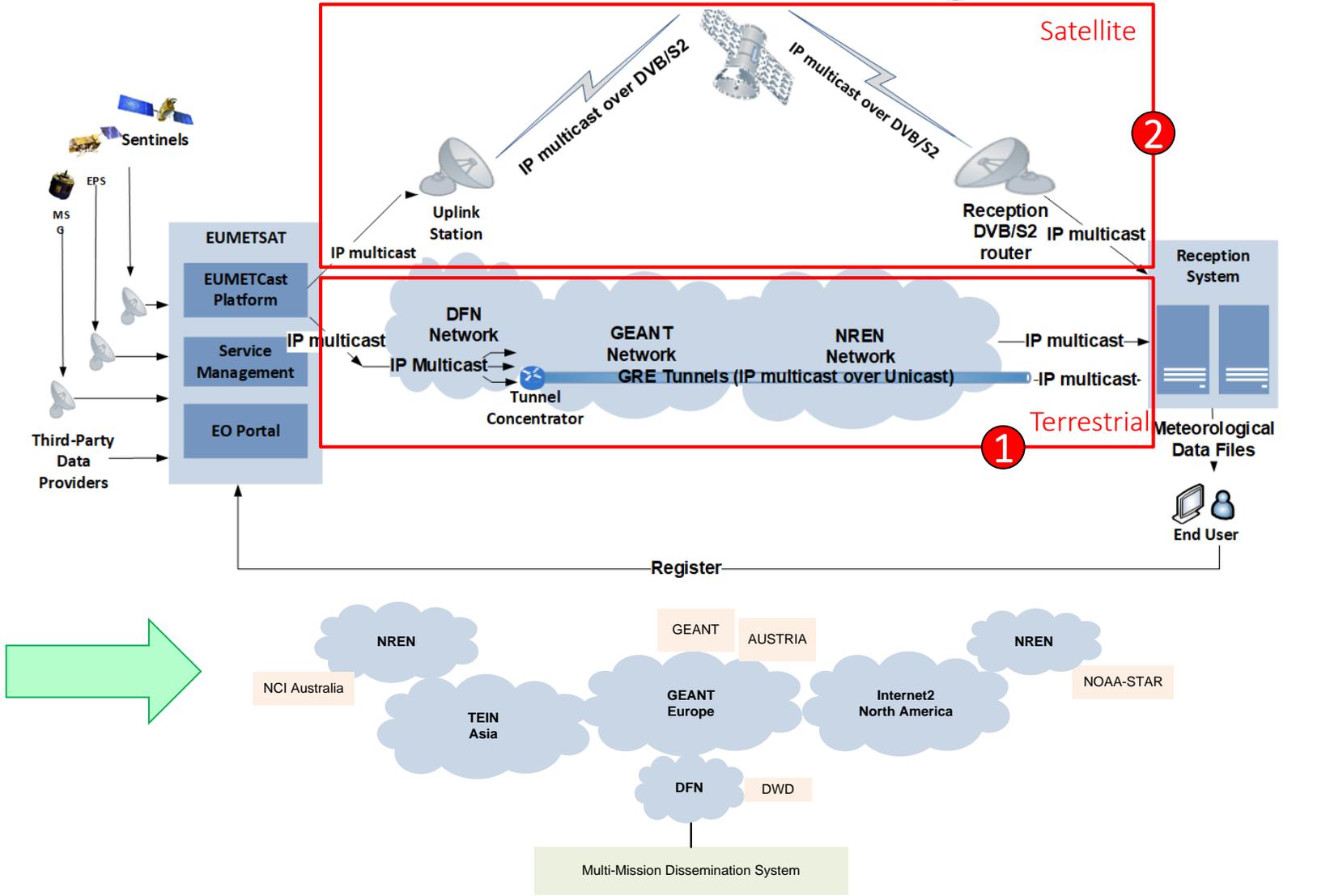
EUMETView

EUMETCast Terrestrial

EUMETCast Terrestrial

- EUMETCast Terrestrial services have been developed to be similar and consistent with its EUMETCast Satellite counterpart.
- All services provide a harmonised interface to the end-user, irrespectively of the EUMETCast service of choice.
- All services can be subscribed using one single interface (EO Portal) and the same EUMETCast Reception Station can be used for both Satellite and Terrestrial services.
- Data is distributed using National Research and Education Networks (NRENS).
- The NRENS use the GEANT worldwide network architecture as sole network service provider and interface point.

2 EUMETCast **Satellite** will remain the backbone service for safety critical applications of our data, complemented by EUMETCast Terrestrial and the EUMETSAT Data Store in line with a “multi-channel” data services strategy



Data Tailor

EUMETSAT Data store

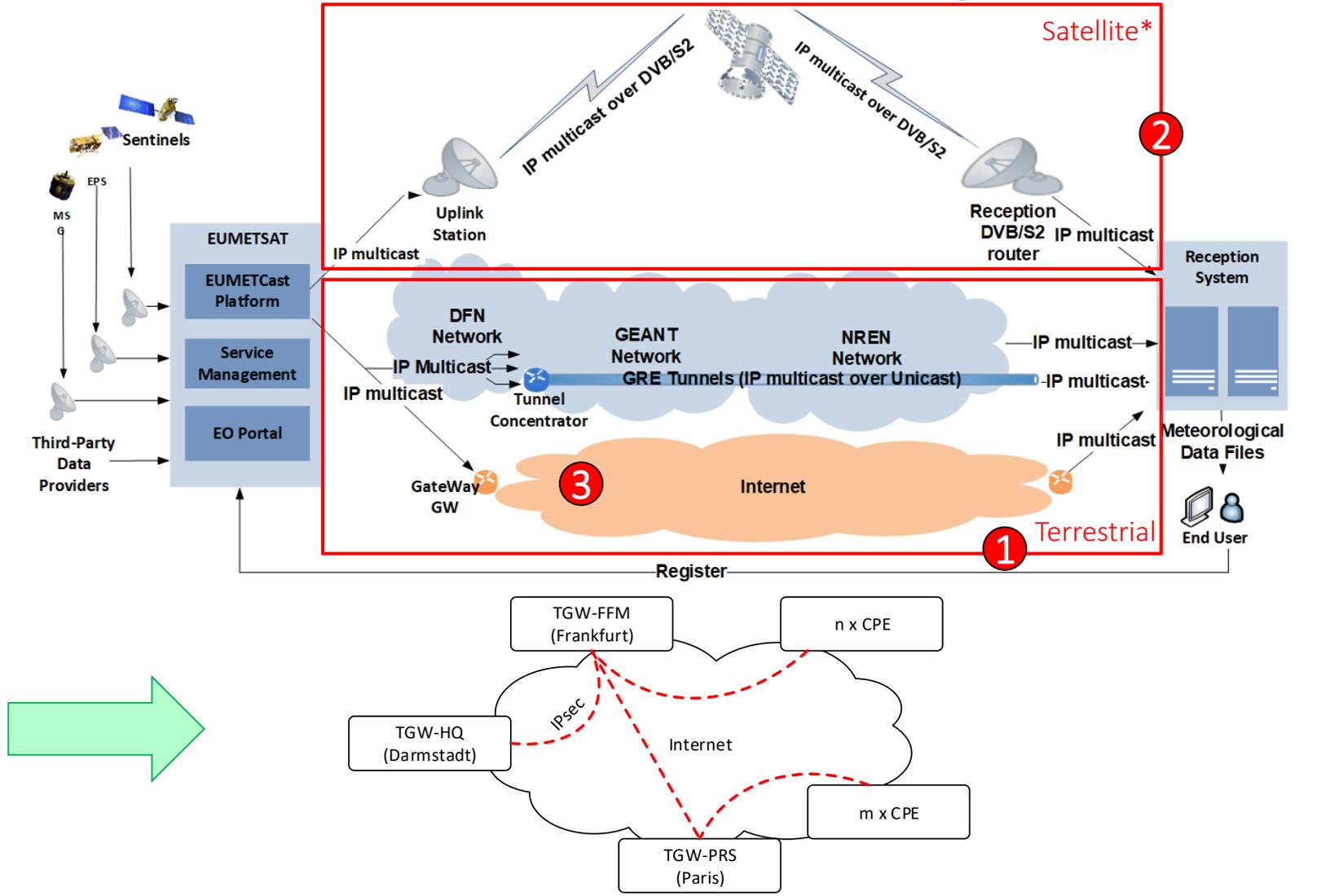
EUMETView

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Future augmentation of EUMETCast Terrestrial with an Internet based service are currently in the pilot phase.





Data Tailor



EUMETSAT Data store



EUMETView



EUMETCast Terrestrial

EUMETSAT is offering an array of new data services

- These will support an increased ability to receive, access, view and transform satellite data
- They will provide access to the full EUMETSAT product catalogue, including near real-time data, historic products and climate data records.
- Pilot phases are expected begin in Q3 2020. The Data Tailor is available for use now!

More information

- For more information on the data services, please follow this [link](#).
- More user support resources will be available soon! Please follow [@eumetsat](#) and [@eumetsat_users](#) on Twitter for up to date news, or contact our helpdesk via ops@eumetsat.int.