

# Low Latency Data Access status report + status of implementation of best practices (EUMETSAT)

Presented to CGMS-52 Working Group I session, agenda item 5.3

## Operational Direct Broadcast Systems

The Status of Operational Direct Broadcast Systems at EUMETSAT is summarised in the Table below:

Instruments	METOP-B	METOP-C
AMSU-A	Operational	Operational
ASCAT	Operational	Operational
AVHRR	Operational	Operational
GOME	Operational	Operational
GRAS	Operational	Operational
HIRS	Degraded since 17/03/2023	N/A
IASI	Operational	Operational
MHS	Operational	Operational

## List of Best Practices

This presentation describes the implementation status at EUMETSAT for the CGMS Agency Best Practices in support to Local and Regional Processing of LEO DB data (latest version endorsed by CGMS-48, August 2020). (\*) EPS-Sterna subject to approval of the programme targeted in mid-2025.

Direct Broadcast Best Practices		METOP	EPS-SG	Sterna *
01	Global Specification for Direct Broadcast	Compliant	Compliant	Compliant
02	Timely Provision of Space-to-Ground Interface Control Documents	Compliant	Compliant	Will be C.
03	Provision of Current Orbit Information	Compliant	Will be C.	Will be C.
04	Provision and Maintenance of Product Processing Packages	Compliant	Will be C.	In preparation
05	Provision of Auxiliary Data for Instrument Product Processing	Compliant	Will be C.	In preparation
06	Recommendations of Hyperspectral Channel Selection	Compliant	Will be C.	N/A
07	Spacecraft and Instrument Operational Status	Compliant	Will be C.	Will be C.
08	Operational Announcements	Compliant	Will be C.	Will be C.
09	Satellite Direct Broadcast and Reception Station Performance	Compliant	Compliant	N/A
10	Monitoring of the Direct Broadcast Downlink	Partially C.	Will be C.	Under assessment

## BP.01 Global Specification for Direct Broadcast

No changes since CGMS-51

BP.01 version endorsed by the CGMS-44 plenary

### METOP

- Compliant.

Details available in: [METOP Space-to-Ground Interface Control Document](#);

### EPS-SG

- Compliant.

Details available in: [EPS-SG Space-to-Ground Interface Control Document](#);

### EPS-Sterna

- Compliant.

EPS-Sterna Space to Ground ICD to be provided.

## BP.02 Timely Provision of Space-to-Ground ICDs

No changes since CGMS-51

BP.02 endorsed by the CGMS-44 plenary

### METOP

- Compliant.

Details available in: [METOP Space-to-Ground Interface Control Document](#) ;  
[TD 18 METOP Direct Readout AHRPT Technical Description](#);

### EPS-SG

- Compliant.

Details available in: [EPS-SG Space-to-Ground Interface Control Document](#);

### EPS-Sterna

- Will be compliant.

EPS-Sterna Space to Ground ICD to be provided.

## BP.03 Provision of Current Orbit Information

No changes since CGMS-51

BP.03 endorsed by the CGMS-45 plenary

### METOP

- Compliant.
- See [METOP TLE](#) webpage;

### EPS-SG

- Will be compliant.
- to be established prior to launch of the first EPS-SG;

### EPS-Sterna

- Will be compliant.
- to be established prior to launch of the first EPS-Sterna.

## BP.04 Provision and Maintenance of Product Processing Software Packages

No changes since CGMS-51

BP.04 endorsed by the CGMS-45 plenary

### METOP

- Compliant.

Software available in: <http://nwp-saf.eumetsat.int> for AAPP & OPS-LRS (HIRS, AVHRR, AMSU, MHS and IASI):

<http://osi-saf.eumetsat.int> for ASCAT;

<http://nwc-saf.eumetsat.int> for PPS (NWC);

### EPS-SG

- Will be compliant;

EPS-SG software packages will be made available in a similar way to the METOP software packages.

### EPS-Sterna

- In preparation.

## BP.05 Provision of Auxiliary Data for Instrument Product Processing

No changes since CGMS-51

BP.05 endorsed by the CGMS-44 plenary

### METOP

- Compliant;
- Data is provided by the EUMETSAT SAFs, see previous BP.04.

### EPS-SG

- Will be compliant;
- Scope and provision of auxiliary data for instrument product processing under consideration.

### EPS-Sterna

- In preparation.
- Scope and provision of auxiliary data for instrument product processing under consideration.



## BP.06 Recommendations of Channel Selection for Hyperspectral Instruments

No changes since CGMS-51

BP.06 endorsed by the CGMS-44 plenary

### METOP

- Compliant;

The channel selection for the IASI hyperspectral sounder is provided in the [EUMETSAT Product Navigator](#) under [IASI reduced products](#)

### EPS-SG

- Will be compliant;

To be provided starting from the launch of the first EPS-SG.

### EPS-Sterna

- N/A.

## BP.07 Spacecraft and Instrument Operational Status

BP.07 endorsed by the CGMS-45 plenary

Link updated since CGMS-51

### METOP

- Compliant;

The EUMETSAT user portal was recently migrated to a new [dashboard](#). The Spacecraft and Instrument Operational Status is available in the [News & Events panel](#).

### EPS-SG

- Will be compliant;

To be provided starting from the launch of the first EPS-SG.

### EPS-Sterna

- Will be compliant.

To be provided starting from the deployment of the EPS-Sterna constellation.

## BP.08 Operational Announcements

BP.08 endorsed by the CGMS-45 plenary

Link updated since CGMS-51

### METOP

- Compliant;

The EUMETSAT User Notification Service (UNS) is accessible at <https://uns.eumetsat.int>.

To receive email notifications provided through the UNS, register via the Earth Observation Portal (EOP), <https://eoportal.eumetsat.int/>. Once your account has been created, login to UNS (or follow the link from the EOP) to manage your email subscriptions via “My Subscriptions”.

### EPS-SG

- Will be compliant;

To be provided starting from the launch of the first EPS-SG.

### EPS-Sterna

- Will be compliant.

To be provided starting from the deployment of the EPS-Sterna constellation.

## BP.09 Satellite Direct Broadcast and Reception Station Performance Requirements

No changes since CGMS-51

BP.09 endorsed by the CGMS-45 plenary

### METOP

- N/A as METOP Direct Broadcast is in L-Band;

### EPS-SG

- Compliant;  
See link budget analysis in “Implementation of CGMS Best Practices for LEO Direct Broadcast Data at EUMETSAT.docx” [CGMS-50-EUMETSAT-WP-06].

### EPS-Sterna

- N/A as EPS-Sterna Direct Broadcast is in L-Band.

## BP.10 Monitoring of the Direct Broadcast Downlink

BP.10 endorsed by the CGMS-48 plenary

No changes since CGMS-51

### METOP

- Partially compliant;
  - a) N/A;
  - b) Partially compliant. Monitoring is performed manually in case of anomalies;
  - c) Compliant;

### EPS-SG

- Will be compliant;  
To be provided starting from the launch of the first EPS-SG.

### EPS-Sterna

- Under assessment.

## Summary

- WG-I members are invited to take note and comment on the status of operational direct broadcast systems and implementation of the CGMS Best Practices at EUMETSAT in support to local and regional processing of LEO direct broadcast data.