



Best Practices in support to Local and Regional Processing of LEO Direct Broadcast data - latest version and new proposals

Presented to CGMS-51 WG-I, Agenda Item 5.5

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**Coordination Group for
Meteorological Satellites**



Action to be completed for CGMS-51

- Action: combined action for “Coordination of LEO Orbits” & “Direct Broadcast Systems” Task Groups

WGI/A50.10	<p>Task Group on the Coordination of LEO Orbits and Task Group on Direct Broadcast Systems to review the overlap between the proposed (BP) for the Coordination of Data Acquisition for Low Earth Orbit (LEO) Satellite Systems and the already published Best practices in support to local and regional processing of LEO direct broadcast data (CGMS/DOC/18/1008274), and propose a way forward for both best practices.</p> <p>The updated best practices drafts should be sent for review before CGMS-51 and presented to CGMS-51.</p>
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Further information related to action A50.10:

- The published BPs in support to local and regional processing of LEO direct broadcast data are provided through the following link: [CGMS/DOC/18/1008274](https://www.cgms.eu/CGMS/DOC/18/1008274)
- The BPs proposed for the Coordination of Data Acquisition for Low Earth Orbit (LEO) Satellite Systems are provided in the following link: [CGMS-50-NOAA-WP-05](https://www.cgms.eu/CGMS-50-NOAA-WP-05)

List of Best Practices

Direct Broadcast Best Practices		Endorsement
01	Global Specification for Direct Broadcast	CGMS-44
02	Timely Provision of Space-to-Ground Interface Control Documents	CGMS-44
03	Provision of Current Orbit Information	CGMS-45
04	Provision and Maintenance of Product Processing Packages	CGMS-45
05	Provision of Auxiliary Data for Instrument Product Processing	CGMS-44
06	Recommendations of Hyperspectral Channel Selection	CGMS-44
07	Spacecraft and Instrument Operational Status	CGMS-45
08	Operational Announcements	CGMS-45
09	Satellite Direct Broadcast and Reception Station Performance	CGMS-45
10	Monitoring of the Direct Broadcast Downlink	CGMS-48

- No change proposed on “Direct Broadcast Best Practices” document
- “Direct Broadcast Best Practices” available at the following link: [CGMS/DOC/18/1008274](https://www.cgms.eu/CGMS/DOC/18/1008274)

List of Best Practices

Coordination of Data Acquisition for LEO Satellite Systems		Endorsement
01	Preparation of Multi-Mission Ground Stations and Sizing Data Communication Networks	Draft
02	Definition of Operational Concepts for Satellite Downlink Efficiency	Draft
03	Analysis and Operational Planning Related to Avoidance of Radio Frequency Interference	Draft

- “Best Practices for Coordination of Data Acquisition for LEO Satellite Systems” ready for endorsement. However proposal is to wait for formal publication until merge with direct broadcast best practices is completed.
- LEO BP available at the following link: [CGMS-50-NOAA-WP-05](#)

Proposal for Evolution of Best Practices

Way forward recommendation to WGI for evolution of best practices:

- Close action WGI/A50.10: Best Practices for Coordination of Data Acquisition for LEO Satellite Systems ready for endorsement
- Open new action to merge the LEO and direct broadcast best practices into a new best practices document covering low latency data access from LEO satellites structured as follow:
 - Section 1: Common best practices for both global and regional services
 - Section 2: Best practices specific for global services
 - Section 3: Best Practices specific for regional services