

# Working Group I: Global Issues on Satellite Systems and Telecommunication Coordination

CGMS 45

WG-I



# Topics of Interest to Plenary

Topics covered by WG-I during CGMS-45 (27 Working papers):

I/2	Review of actions and Recommendations from previous meetings	✓
I/3	Frequency management matters: SFCG, ITU and WRC activities (including topics related to Space Weather)	✓
I/4	Optimisation/harmonization of direct readout dissemination (CGMS DB global specs)	✓
I/5	Data Collection Systems	✓
I/6	Best practices for operators support to LEO local processing (Direct Readout/DBNet/RARS)	✓
I/7	HLPP and Inter-Sessional meetings towards CGMS-46	✓



# Topics of Interest to Plenary

## I/3 Frequency management matters: SFCG, ITU and WRC activities

- Increasing importance of SFGC liaison in support of technical frequency management aspects for CGMS
- Protection of passive sensing bands from adjacent bands under various WRC-19 agenda items is of paramount importance to CGMS in relation to spectrum allocations for IMT 2020 (5G).

**Action.** WGI chair to draft a letter, on behalf of CGMS, to ITU Secretary-General emphasizing the need for protecting EESS and passive bands necessary for remote sensing. Beyond the agreed HLPP, WGI did not identify the need of new recommendations on this agenda item.

## Aspects for HLPP and WRC19 (unchanged from CGMS 44)

- Issues with relation to DCS (1.2, 1.3 and 1.7),
- Impact of 1.13 on the band 25.5 – 27 GHz,
- Passive sensor band protection under various agenda items and
- RLAN under 1.16.



# Topics of Interest to Plenary

## I/3 .1 Space Weather and Frequency management matters

- CGMS 44 Recommendation CGMS agencies to inform their Freq Managers on the space weather activities to ensure the necessary protection and coordination at Freq level is kept
  - Not all agencies have included in their reports sections related to Space Weather, but WMO informed WGI on a survey on Space Weather that will close in August-17
  - SFCG liaison officer informed WGI on a preliminary Draft New Recommendation ITU-R RS.[SPACE\_WEATHER\_SENSORS] that will be addressed by ITU-R WP-7C meeting in Oct-17 for confirming this topic to be in the agenda of WRC-23
- Agreed to have dedicated Inter-sessional meeting on 7 Sept ( at the time of yearly meeting of SFCG) for preparing the inputs for WP-7C. Agreed In having a preparatory teleconf with WMO to assess outcome of survey (30 Aug 17)

# Topics of Interest to Plenary

## I/4 Optimisation/harmonization of direct readout dissemination (CGMS DB global specs)

- For future: → Confirmed use of netCDF
- Creation of Best practices, via dedicated inter-sessional meetings, for the representation of satellite imagery data in netCDF.
- BPs aimed at getting these reflected in the future evolution of the CF convention.
- Nominate/confirm points of contact participating in the related inter-sessional meetings.

# Topics of Interest to Plenary

## I/5 Data Collection Systems

- Existing HLPP properly covers the related agenda item topics. Consequently, WGI sees no need to assign further recommendations on the Data Collection Systems.
- WGI also decided to progress in the activities related to this agenda item by specific inter-sessional meetings (x2) on DCS covering the following topics:
  - User requirements on Data Access
  - lessons learnt and feedback on certification process,
  - preparations for SATCOMForum 2018,
  - status of progress on the EDCP design and development
- Continuation of participation in SATCOM Forum and use of splinters during SATCOM Forum to consolidate DCS related mid term plans.



# Topics of Interest to Plenary

## I/6 Direct broadcast/readout services

- WGI endorsed BPs (with the following amendments) the proposed changes to or new Best Practices
  - **BP-03 , 04\*** , **07** and **08** (update) agreed
    - \*to differentiate between a pre-launch **test** version of the processing package and the operational version after end of commissioning of the satellite and as soon as feasible for the related CGMS member.
  - **BP-09** (new) although the idea proposed under the BP is agreed by WGI it is considered that the BP as presented needs further elaboration to subsume the purpose of a BP without unnecessary detailing and constraining technical aspects of mission specific implementations.
- WGI agreed evaluating additional topics proposed for consideration as Best Practices (Section 11) –via inter-sessional
- Agreed to follow up status of implementation of BP by each one of the agencies with satellites with a Direct Broadcast service (operational or planned)



# Recommendations

- At a joint session, WGI and IV discussed the need to review the scope of both working groups to address overlap and to consider adding relevant topics related to satellite and ground system operational topics not currently covered in either of the two working groups
- It is recommended to the CGMS plenary that a small task team be established to examine the current Terms of Reference in light of the thematic areas covered by both working groups and to report to CGMS-46
- The team should propose additional operational topics as well as possible alternatives for realignment of the themes for both working groups to include the possible merger of the two working groups (including the topics discussed in the Space Weather Task Team)





# Back up slides



# Topics of Interest to Plenary

## I/2 Review of actions and Recommendations from previous meetings (left open)

A43.06 is proposed to be kept open

- WMO to assess the impact of improved data latency from polar orbiters on NWP (WMO Impact Workshops) and other applications  
Action was raised in CGMS 43 to support decisions on Direct Broadcast networks

A44.05

- CGMS agencies to provide prior to CGMS 45 a report on the space weather activities (including spacecraft and instruments) of relevance on Freq Management and freq protection topics
- Refer to details on AI 3

A44.08

- CGMS agencies with satellites with DB and RO occultation sensors to assess the technical feasibility of a RARS/DBNet RO occultation service in support of the Space Weather community.
- Topic considered not mature yet and needing some more time on IROWG to better prepare for an input to WGI at CGMS 46

A44.09

- From CGMS-44 WGII: CGMS operators and WMO to work with GODEX-NWP to explore options for optimal data exchange of advanced data from next-gen GEOs
- Topic considered not mature yet and needing some more time for development and consolidation by GODEX-NWP to better prepare for an input to WGI at CGMS 46



# HLPP and Inter-Sessional Meetings

**HLPP** reviewed during WG-I meeting and dedicated presentation on HLPP organised by CGMS Secretariat (for all HLPP topics)

## Inter-Sessional meetings to prepare for CGMS 46

- WGI-IS-Space Weather Frequency related topics for WRC-19. Currently only one inter-sessional meeting is agreed and proposed around the SFCG 2017 meeting (6-13 Sept). Currently the proposed date is 7 Sept 2017 (12:00 UTC).
- WGI-IS-DCS. Theme is DCS and SATCOM Forum Direct and it is proposed to organise x2 inter-sessional meetings with the following dates:
  - 18 October 2017 (12:00 UTC)
  - 21 February 2018 (12:00 UTC)
- WGI-IS-Formats. Theme is Data formats and Formatting standards and it is proposed to organise them every 3 months with the following dates:
  - 13 September 2017 (12:00 UTC)
  - 13 December 2017 (12:00 UTC)
  - 14 March 2018 (12:00 UTC)
- WGI-IS-DB. Theme is Direct Broadcast Best Practices and it is proposed to organise them quarterly with the following dates:
  - 6 September 2017 (12:00 UTC)
  - 17 January 2018 (12:00 UTC)
  - 11 April 2018 (12:00 UTC)
- Frequency related topics, if necessary to be addressed in specific Inter-Sessional meeting will be organised around the DB and DCS related on.



# Topics of Interest to Plenary

## I/6 Direct broadcast/readout services

### Actions agreed

- WGI to re-assess during the dedicated inter-sessional meetings the aspects of S/W delivery and installation needs in BP.04 for avoiding, if considered adequate, making explicit reference to any tool or package. (CGMS 46)
- CGMS member with satellites with a Direct Broadcast service to evaluate the draft template for reporting status of implementation and to address possible updates in the first of the inter-sessional meeting on DB topics identified above. (October 17)



# WG-I nominations for CGMS 46 (proposed to plenary)

- Co-chairs:  
Vanessa Griffin (NOAA)  
Sergey Uspensky (Roshydromet)
- Rapporteur:  
J. Gonzalez (EUMETSAT)
- CGMS Liaison officer with SFCG  
M.Dreis (EUMETSAT)
- CGMS Representative at SATCOM Forum  
S. Burns (EUMETSAT)

