

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

CGMS 42

WG-I

# Topics of Interest to Plenary

## Scope of WG-I

### Topics covered by WG-I during CGMS-42:

I/2	Frequency management matters: SFCG, ITU and WRC activities	✓
I/3	Direct broadcast/readout services	✓
I/4	Data Collection Systems	✓
I/6	HLPP and Inter-Sessional meetings towards CGMS-43	✓

# Purpose

Address items requiring detailed discussions by the relevant CGMS telecommunications experts. Provide technical assessments and recommendations to the plenary session supporting:

- Optimizations, best practices and standardisation of satellite telecommunication systems including Direct Broadcast and Regional Services,
- Coordinated CGMS position on frequency protection and frequency management (for telecommunications, and for active/passive remote sensing).
- Working by consensus, WG I makes recommendations and proposes actions which are reported to the plenary session.
- It is the prerogative of the CGMS plenary to review the WG I report and to endorse, or decide differently, on the actions and recommendations made by the WG I members.

# Topics of Interest to Plenary

## I/2 Frequency management matters: SFCG, ITU and WRC activities

- WRC-15 preparatory activities progressing according to established regional agendas.
- WRC-15 will have as one of the main focuses the decision on:
  - additional spectrum allocations to the mobile service;
  - spectrum requirements and possible additional spectrum allocations for the Mobile-Satellite Service;
  - identification of additional frequency bands for International Mobile Telecommunications (IMT) and to facilitate the development of terrestrial mobile broadband applications;
  - new allocations to the Maritime Mobile Satellite Service;
  - additional allocation of spectrum to support Fixed Satellite Service;

All related or threatening bands and allocations of MetSats, Earth Exploration Satellite Service (EESS) or Science Research Service.

- Reports from CGMS organizations confirm status of preparation for WRC-15.
- Space Frequency Coordination Group (SFCG) is actively supporting CGMS in the area of Frequency Management matters using the designated CGMS Liaison officer for addressing dedicated topics needing specific attention by CGMS WG-I and/or SFCG.
- Status of preparation of WRC-15 at SFCG in line with the positions of the different CGMS members (as they are also present in SFCG)

# Topics of Interest to Plenary

## I/2 Frequency management matters: SFCG, ITU and WRC activities (cont)

- WG-I also noted the resolution of WMO Executive Council asking its CBS to pursue an intensive preparation for WRC-15, in collaboration with other relevant international bodies, in particular, CGMS and SFCG.
- WG-I noted the detailed positions reported and confirm that these positions are fully in line to the ones adopted by the different CGMS members in the different regional areas in which the preparatory activities of WRC-15 are taking place.
- WG-I was also re-iterating the need of CGMS members to closely and regularly liaise with their national frequency management/regulation authorities on the importance of the frequency bands assigned/associated to CGMS systems and the need to protect/preserve them. These regular activities shall ensure that adequate awareness is raised, and maintained, with the national authorities that will convey the national positions to the WRC.



# Topics of Interest to Plenary

## I/3 Direct broadcast/readout services

- WG-I addressed proposals for possible recommendations seeking affordable receiving stations (both GEO and LEO systems), work agreed to be progressed by dedicated Inter-Sessional meetings (including seeking industry feedback);
- WG-I and WG-IV have agreed in better delimitate the areas of work of both WGs on these aspects and WG-I focuses on Direct Broadcast and Direct Readout Services in the following aspects:
  - Coordination of related system solutions and services and global standards (e.g. CGMS Global Specs 03 and 04 –recently updated by WG-I)
  - Direct Read-out stations
  - RARS like systems and their operational evolution with the aim to derive “best practices”
  - Transition to new direct readout systems

# Topics of Interest to Plenary

## I/3 Direct broadcast services (cont) for RARS systems/services

- NOAA and EUMETSAT have proposed a set of recommendations in a co-authored paper presented at CGMS 42 (answering an action from CGMS 41) aiming at **deriving “best practices” for RARS systems (implementation and operations)**.
- WG-I proposes to work via Inter-Sessional meetings with identified focal points from the different CGMS members to support this activity.
- **WMO** has proposed a recommendation to creating a Direct Readout, Acquisition and Relay of Satellite Data (**DRARS**) **Implementation Group** to support the **definition and implementation of community agreed operational procedures for LEO satellite data direct read-out, acquisition, and relay** (specially for regions 1, 3 and 5 (of WMO)).
- Both approaches are considered to be congruent and can be handled under the same series of Inter-Sessional meetings on RARS topics identified by WG-I, **provided that focal points from (at least) EUM, NOAA, CMA, Roshydromet and WMO are confirmed and have the necessary resources within their organizations to support the activities.**



# Topics of Interest to Plenary

## I/3 Direct broadcast services (cont) for RARS systems/services

- HLPP focus priority on regional services for sounders based data (for NWP), and now-casting (based on the new imagers like VIIRS in S-NPP) but also scatterometers data (e.g. like EARS) with due consideration of the need of tuning formats and products for adapting to available bandwidths for data repatriation, circulation and dissemination.
- Exchange of data (data transfers) between regions is considered also part of the RARS service implementation (timeliness requirements to be considered).
- The concept of RARS in the different regions shall also encompass pre-operational and R&D satellites.
- Dedicated presentation on RARS is provided under plenary agenda topic E.1.2.





# Topics of Interest to Plenary

## I/4 Data Collection Systems

- A proposal is agreed by WG-I to have dedicated Inter-Sessional meetings to prepare the first SATCOM Forum in the context of Data Collection Systems (for 2015)
- Also a proposal is made by EUMETSAT to work (via the Inter-Sessional meeting) to progress in the harmonisation of global Data Collection Systems (work to be done also in the context of the preparatory activities for the first SATCOM Forum)
- WG-I agree in having dedicated quaterly Inter-Sessional e-meetings for the purpose of discussing these topics. First IS meeting is aimed August 2014

# HLPP and Inter-Sessional Meetings

## HLPP

- HLPP reviewed during WG-I meeting and dedicated presentation on HLPP organised by CGMS Secretariat (for all HLPP topics)
- Main themes to be covered by WG-I are handled by Inter-Sessional meetings:

## Inter-Sessional meetings to prepare for CGMS 43

- WG-I.IS-1.x: First group of Inter-sessional meetings will be dedicated to Global Specs for direct broadcast and direct readout, it is agreed to have also a quarterly frequency, starting mid-Sept 2014.
- WG-I.IS-2.x: Second group of Inter-sessional meetings will be dedicated to RARS best practices, and it is agreed to have a quarterly frequency, starting mid-August 2014.
- WG-I.IS-3.x: Third group of Inter-sessional meetings will be dedicated to preparation of the first SATCOM Forum (2015) and harmonisation of global Data Collection Systems, it is agreed to have also a quarterly frequency, starting early Oct 2014.
- WG-I.IS-4.x: Fourth group of Inter-sessional meetings will be dedicated to User preparation and Freq coordination topics, it is agreed to have also a quarterly frequency, starting early-Sept 2014.

