Status review of CGMS-52 actions and recommendations, and any CGMS-52 plenary actions relevant to WGI

Presented to CGMS-53 WG-I session, agenda item 8.4

Coordination Group for Meteorological Satellites

EUMETSAT CGMS

Executive summary of the WP

This presentation provides a status of WGI actions and recommendations in the lead up to CGMS-53.

The purpose is to:

- <u>Review all existing actions and update them</u> based on the inputs and discussions throughout today's WGI meeting

- <u>Agree on new actions to be opened</u> based on the inputs and discussions throughout today's WGI meeting

Action items review – RFI

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
TGRFI	3.1	WGI/A51.04	Analyse the inputs provided by CMA, EUMETSAT, KMA and NOAA on spectrum concerns and activities on RFI detection, monitoring and mapping, and pursue the establishment of a draft set of best practices, based on the common aspects of the approaches already adopted by members.	**2025 Feb 11: Best practice will be presented in WGI meeting.** 2024 Nov 26: Best Practices for RFI. The group has determined that 2 BPs are needed - passive sensor RFI (which will be addressed in BP being worked on at the moment) + active sensors (which will be addressed in a future BP) 2024 Apr 22 (WGI): The draft best practice was presented and well received. The completed best practice will be presented for endorsement in CGMS-53. 2024 Mar 15: Best Practice preparation progressing, to be finalised after intersessional on 26 March. 2024 Jan 24: A draft Best Practice is being prepared and will be presented to WGI in April. 2023 Sep 26: Action on this will be taken following first TG on RFI intersessional, expected in October 2023.	CGMS-53	**OPEN**	2.2.3
TGRFI	3.1	WGI/A51.05	Explore the potential / existing uses of AI/ML and pattern recognition in the area of RFI detection	**2025 Feb 11: Progress will be presented in WGI meeting.** 2024 Nov 26: AI/ML use in RF interference, detection and mitigation. A draft document has been started. It would be beneficial here to explore what each agency is already working on, that can tie into this topic. E.g. Scott Leonard is working on related topics. 2024 Apr 22 (WGI): The group will place more focus on this action in the lead up to CGMS-53. Markus highlighted that uses of AI/ML may be relevant for RFI management in view of large constellations. 2024 Jan 24: To be discussed in more detail in next intersessional. 2023 Sep 26: Action on this will be taken following first TG on RFI intersessional, expected in October 2023.	CGMS-53	**OPEN**	
SFCG Rep	2.1	WGI/A52.01	Identify mechanisms to ensure long term continuity in information/knowledge transfer/exchange between SFCG and CGMS, including WMO, on frequency management topics of common interest.	**2025 Feb 11: Markus will continue to be the SFCG Representative reporting updates to CGMS. Markus will include in his report some information SFCG – CGMS channel and how the SFCG Rep acts as a link.**	CGMS-53	**OPEN**	

Action items review – LLDA

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
LLDA TG	5.5	WGI/A51.09	Merge the LEO (Global) and DB (regional) best practices into a single "Low Latency Best Practices" document proposed to be structured as follow: · Common BPs for both regional and global missions · BPs specific for DB · BPs specific for global mission Present the merged BPs for endorsement to CGMS-52.	**2025 Feb 11: Keep global and regional separate, and keep global in draft.** 2024 Nov 26: 2 Combining Best practices for global + low latency BPs. There's a bit of pushback to combine these. It may need to be reassessed whether these two BPs are merged. Andy will come to WGI with a proposal to the next intersessional, and discuss way forward for the BPs. 2024 9 Sep: In progress, The concept of merging the best practices is under discussion. 2024 Apr 22 (WGI): A draft was presented to CGMS-52. TG will continue work on the merged best practices in the lead up to CGMS-53 and present them for endorsement in CGMS-53. Once endorsed, the agencies can begin to present on their status against the updated best practices in CGMS-54. In CGMS-53, EUMETSAT would already present against the proposed merged best practices, to serve as a template for all agencies in CGMS-54. 2024 Mar 15: Draft will be presented to CGMS-52 WGs, final iteration will be presented to CGMS-53. *2024 Jan 24: First draft under preparation – ongoing.* 2023 Sep 26: Work underway.	CGMS-52	**OPEN**	2.3.3
LLDA TG	5.6	WGI/A52.02	Identify concrete CGMS actions based on the LLDA SWOT, including priority areas and demonstration cases in agencies. E.g. cloud, TT&C, relation with private sector, etc.	***2025 Feb 11:** List of questions will be sent to TG members to stimulate inputs ahead of the WGI* *2024 Nov 26: Identify concrete actions from SWOT analysis. Overlap with Future Directions themes on technological considerations being reviewed (with Kathryn Shontz, although she is moving into a new role, to be replace Chris O'Connors). Andy and Nick will work out how to prepare for next intersessional and how to progress on this, and how to bring Chris into this. It has also been realised that within the organisations, there's activities ongoing, that can be linked to this. An effort should be / is being made to collect information from within the organisation.* 2024 9 Sep: In progress. Plan is to contact future programmes. NOAA point of contact on programme side needed.	CGMS-53	**OPEN**	

Action items review – Space Environment Sustainability

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
TG on Space Environment Sustainability	5.1	WGI/A50.07	Deliver a Best Practice document on Space Environment Sustainability, with supporting presentation to CGMS WGI, for recommendation for endorsement in CGMS-52.	***2025 Feb 11: Same status as 26 Nov 2024. High level input on BPs provided by several agencies, but experts need to be identified to provide further inputs.*** 2024 Nov 26: Too early to deliver a Best Practice. Still working on gather critical mass for inputs from all agencies. A report on the activities will be included in the TG Report. 2024 Apr 22 (WGI): To be developed in the lead up to CGMS-53. 2024 Mar 15: Target continues to be CGMS-53. 2024 Jan 24: The TG activities are starting and ToR being prepared, but best practice will not be ready for CGMS-52. Target would be CGMS-53. *2023 26 Sep: Action on this will be taken following first intersessional of the TG (expected November 2023).* 2023 24 Apr (CGMS-51 WGI): Action to be kept open, and pursued by TG in the lead up to CGMS-52. This should be based on previous inputs from EUMETSAT and NOAA, and seek wider participation from CGMS agencies. 2023 21 Mar: No updates, way forward to be discussed in CGMS-51 WGI. 2023 24 Jan: No updates. Tom will follow up with Brian Walling. 2022 27 Sep: Task Group meeting to be held	CGMS-53	**OPEN**	2.6.2

Action items review – Satellite Data and Codes

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
TG SDC, WMO	WGIV/5	WGIV/A49.02	The CGMS Task Group on Satellite Data and Codes to work closely with WMO on addressing the following points: i. Linking between OSCAR/Space and the WSI and/or CCT C-5 identifiers (WMO internal) ii. Potential extension of the use of the Issue Number in the WSI for satellites in order to explicitly indicate metadata which are otherwise only implicitly embedded in the Local Identifier (CGMS-50) iii. Identification of when and how the WSI should be included in the satellite products exchanges in the context of the WIGOS (CGMS-50) (ref CGMS-49-WMO-WP-08)	***2024 Nov 26: Visible progress on WMO OSCAR. WIGOS station identifiers have been included for satellites on WMO OSCAR (not for all satellites, but for some).*** 2024 9 Sep: Work in progress. Implemented, but not yet on the operational server. Some testing is still pending. 2024 Apr 22 (WGI): C-5 identifiers completed, C-8 identifiers in progress. 2024 Jan 24: Ongoing 2023 26 Sep: Well in progress. Should be implemented before INFCOM-3. Submission expected to INFCOM-3 in April 2024. 2023 24 Apr (CGMS-51 WGI): Action is progressing and expected to be closed soon. 2023 21 Mar: No update 2023 24 Jan: Simon is in discussion with Heikki, who is working on this. Progress on this action will be reported in the TGSDC report for CGMS-51. 2022 27 Sep: First intersessional meeting was held in September 2022. Participation was very low. Broader participation in intersessional meetings is encouraged, but communication is handled also via offline email communication. CGMS-50: The Task Group is continuing to work on the use of WIGOS Station identifiers for satellite products. CGMS-50-CGMS-WP-14 includes text prepared by WMO Secretariat for the guide on the WIGOS explaining the use of WIGOS Station Identifiers for satellites. The Task Group continues to assess the best use the Issue Number (currently fixed to 0) in the future. 2022 11 Apr: Transferred to WGI. To be discussed with WMO (Simon, Chair, to follow up). WMO will first complete the ongoing WSI for satellites design and documentation in WIGOS Guide and its implementation in OSCAR/Space. CCT-C5 will be tentatively covered by that work. 2022 18 Jan: WMO to address latest on 27 October, ongoing work, done through WGI	CGMS-53 WGI	**OPEN**	2.4

Action items review – DCS (1/3)

| TG on DCS | 5.1 | WGI/A49.03 | Analyse existing DCP standards taking into account user feedback, and propose a common standard that could be used as a future IDCS standard. This would be an evolution of an existing standard.
Following approval of the new EDCP standard, develop an implementation plan including prototyping, validation and outreach to users. | *2024 Apr 22 (WGI): The EDCP Standard proposal was presented. WGI agreed to present the draft EDCP Standard, prototype development and related funding requirements for endorsement by CGMS-52 Plenary, noting that the report would need further work in the lead up to CGMS-52 Plenary to further detail the use cases for the new EDCP (not related to international use), as well as how this new standard would be introduced into operations (e.g. alongside or in addition to existing standards, as well transition plans). If this is endorsed by CGMS-52 Plenary, this action will be closed and a new action will be opened to track the development of the EDCP prototype.*
2024 Mar 15: EDCP Standard progressing. To be finalised after final intersessional on 28 March.
2024 Jan 24: A draft EDCP Standard document has been prepared and sent for review. To be discussed in upcoming intersessional on 25 Jan. NOAA and EUMETSAT looking into funds for prototype. FTS may also support the activity.
2023 26 Sep: Progressing well. Microcom and Sutron have been joining DCS intersessionals, which contributes to the definition of the standard.
2023 24 Apr (CGMS-51 WGI): Action description updated. The plan is for the new EDCP standard to be proposed for endorsement in CGMS-52.
2023 21 Mar: Progress has been made and will be presented as part of the task group report. The main topic for WGI will be how to move forward.
2023 24 Jan: DCS Workshop in October 2022, in conjunction with Satcom Forum. Some progress has been made on EDCP Standard discussions. A further Manufacturers workshop was held on 19 January to continue the EDCP Standard discussions. OTT, Microcom and Dr. Paul Crawford were present. This involved also a discussion on whether there is still the need for the EDCP standard, and the feedback was positive. Target is to have a draft outline and timeline for the EDCP standard for CGMS-51. | CGMS-52 Plenary | **CLOSED** | 2.1.2 |

Action items review – DCS (2/3)

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
DCS TG	7.2	WGI/A52.03	Work on the five proposals for DCS improvements based on the SWOT analysis, including work with RFI Task Group and DCS RFI register, DCS promotional materials presenting global view of DCS, improved DCS outreach via DCS introduction video, further work on EDCP standard, improvements to DCS user information across agencies.	*11 Feb 2025: Ongoing, but difficult in terms of group resources.* 26 Nov 2024: Progressing well with Enhanced DCP Standard. Progress to be reported in WGI.	CGMS-53	**OPEN**	
DCS TG	7.2	WGI/A52.04	Propose an interagency approach for DCS data access via WIS 2.0. Review also related changes to the Data Access Best Practice document.	*11 Feb 2025: Same status as 26 Nov 2024.* 26 Nov 2024: Early discussions. Wouldn't be in a position to have a separate report / BP by CGMS-53 WGI. Update on WIS 2.0 discussions in context of DCS will be included in the DCS TG report.	CGMS-53	**OPEN**	

Action items review – DCS (3/3)

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
DCS TG	7.2	WGI/A52.05	Present an overview of the various applications of DCS known across CGMS Operators.	***11 Feb 2025: Same status as 26 Nov 2024.*** 26 Nov 2024: Has not been started yet. Attempt will be made to include something in DCS TG report, but EDCP is focus.	CGMS-53	**OPEN**	
DCS TG	7.11	WGI/A52.06	The Task Group on DCS Satellite Operators to report on how their policies affect the usage of Smallsat.	***11 Feb 2025: Same status as 26 Nov 2024.*** 26 Nov 2024: Two aspects: 1. UHF spectrum used by DCS is allocated only for ground-to-space agreement and space-to-ground, but not space-to-space (which is what Smallsat uses). If CGMS agrees this should be pursued, then this can be done via SFCG. 2. Each agency has use of conditions of DCS. Need to describe how these affect Smallsat, e.g. do policies have anything against it. The above two aspects will be covered in the DCS TG Report in WGI, with a proposal for next steps.	CGMS-53	**OPEN**	
DCS TG	7.11	WGI/A52.07	The Task Group on DCS to work on DCS Handbook updates related to Smallsat, EDCP, international DCP capability, scintillation.	***11 Feb 2025: The IDCS guide update would need to go hand in hand with DCS Handbook update.*** 26 Nov 2024: Still too early to include something on Smallsat in the DCS Handbook, as Smallsat is not operational yet and more work to be done on defining possible use cases. Another Smallsat launch planned in 2025 and actions on clarifying policies. DCS Handbook updates can be made for CGMS-54 earliest.	CGMS-54	**OPEN**	

Coordination Group for Meteorological Satellites

EUMETSAT *CGMS*

Action items review – WGI overall

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLPP ref
WGI Co-Chairs / Rapporteur / WGI Task Group Chairs	1.1	WGI/A51.01	Propose an updated WGI Terms of Reference, based on the CGMS Future Directions Project outcomes and inputs from the WGI Task Groups, to be presented for endorsement to CGMS-52. The WGI Terms of Reference will be based on inputs from the WGI Task Groups on their latest Terms of Reference.	***2024 9 Sep: The WGI Terms of Reference were endorsed by CGMS-52 Plenary. Action closed.*** 2024 Apr 22 (WGI): WGI approved the updated WGI Terms of Reference. A summary will be presented to CGMS-52 Plenary for endorsement. 2024 Mar 15: Draft reviewed in WGI intersessional on 15 March. Draft will be presented in CGMS-52 WGI. 2024 Mar 15: Draft reviewed in WGI intersessional on 15 March. To be presented to CGMS-52 WGs. 2024 Jan 24: Updated ToR to be presented in WGI in April. Draft to be distributed beforehand. 2023 26 Sep: Sean and Karolina will prepare WGI ToRs, with inputs from the TG ToRs and support from TG Chairs.	CGMS-52	**CLOSED**	

Coordination Group for Meteorological Satellites

EUMETSAT CGMS

Action items review – CGMS Members

Actionee	AGN item	Action #	Description	Action feedback/closing document	Deadline	Status	HLP P ref
CGMS Members	5.1	WGI/A50.08	All CGMS Members involved in spacecraft operations are strongly encouraged to nominate participants for the CGMS WGI Task Group on **Space Environment Sustainability**. The names of nominated participants are to be provided to the Task Group lead and CGMS WGI Co-chairs / rapporteur before CGMS-51 Plenary, so that the names of members can be reported to CGMS-51 plenary. This is to allow the formulation of the initial Best Practice on collision avoidance and debris mitigation before CGMS-52.	***2024 9 Sep: Call for membership was made in CGMS-52 Plenary. TG Chairs to report on current needs of membership within the Task Groups.*** 2024 Apr 22 (WGI): A formal call for membership will be made by WGI in CGMS-52 Plenary. 2024 Mar 15: Andy sent out an email to CGMS WGI, Plenary, SWCG mailing lists. We should continue to encourage membership in WGs and Plenary. 2024 Jan 24: Andy Monham will send out to CGMS mailing lists with a call for members, including CGMS plenary. 2023 26 Sep: There is also a CGMS plenary action on this. Sean/Karolina to follow up with Anne to communicate to all CGMS members and encourage participation. Past activities: 2023 24 Apr (CGMS-51 WGI): Action still valid. Due date updated. 2023 21 Mar: No updates, way forward to be discussed in CGMS-51 WGI. 2023 24 Jan: No updates. 2022 27 Sep: KMA have nominated a member for the task group. Reminder for further nominations to be sent.	CGMS-52	**OPEN**	2.6.2

New actions based on CGMS-52 WGI meeting

Discuss and agree new actions based on the inputs and discussions throughout the CGMS-53 WGI meeting.

These will be included in the CGMS-53 WGI report and were reviewed in the meeting.