



RTCA Paper No. 186-23/SC242-012 EUROCAE Paper No. 310-23/WG124-012 July 27, 2023

Summary of the 6th Meeting Summary of the 6th Meeting Spectrum Compatibility

RTCA Special Committee 242 (SC-242) EUROCAE WG-124

Executive Summary

The joint RTCA SC-242 / EUROCAE WG-124 Plenary #6 meeting was held on July 27, 2023. The meeting was held in hybrid format with both in-person at RTCA facilities and virtual attendees.

- Briefings were presented on the following topics:
 - o Risk Register
 - Subgroup 1 Update to Plenary
 - o Subgroup 2 Reporting Activity to Plenary
 - o Draft Report 2

Meeting materials are available as follows (link may need to be copied into browser):

- See RTCA AerOpus July 27, 2023 Plenary Meeting #6 folder for the Risk Register, Subgroup 1 Update to Plenary, and Subgroup 2 Reporting Activity to Plenary:
 https://aeropus.i3cloudservices.com/Group/GroupLanding/10010?tab=Documents&folder=Plenary+Sessions%2F2023+Sessions%2F6-July+27%2C+2023
- See EUROCAE Workspace July 27, 2023 Plenary Meeting #6 folder for the Risk Register, Subgroup 1 Update to Plenary, and Subgroup 2 Reporting Activity to Plenary: https://eurocae.sharepoint.com/sites/strato/143ce6de-838d-ec11-b400-000d3ab41693/ad3ed61e-c311-ee11-8f6c-000d3ab689d0/SitePages/Documents.aspx
- See RTCA AerOpus Report 2 folder for the "DRAFT Report 2.docx" (see specifically Document Revision 1.0):
 https://aeropus.i3cloudservices.com/Group/GroupLanding/10010?tab=Documents&folder=Report+2+-+Aviation+Systems+and+Their+Use
- Next Meeting:
 - o Joint RTCA SC-242 / EUROCAE WG-124 Plenary #7
 - October 17, 2023 (to be finalized September 19, 2023) virtual
 - Joint RTCA SC-242 / EUROCAE WG-124 Plenary #8
 - February 27-29, 2024 in Europe (tentatively EUROCAE in Saint-Denis France but location to be confirmed)

Joint Plenary Meeting Summary

The joint RTCA SC-242 / EUROCAE WG-124 Plenary #6 meeting was held on Thursday July 27, 2023. The meeting was held in hybrid format with both in-person at RTCA facilities and virtual attendees.

Meeting materials are available as follows (link may need to be copied into browser):

- See RTCA AerOpus July 27, 2023 Plenary Meeting #6 folder for the Risk Register, Subgroup 1 Update to Plenary, and Subgroup 2 Reporting Activity to Plenary:
 https://aeropus.i3cloudservices.com/Group/GroupLanding/10010?tab=Documents&folder=Plenary+Sessions%2F2023+Sessions%2F6-July+27%2C+2023
- See EUROCAE Workspace July 27, 2023 Plenary Meeting #6 folder: for the Risk Register, Subgroup 1 Update to Plenary, and Subgroup 2 Reporting Activity to Plenary https://eurocae.sharepoint.com/sites/strato/143ce6de-838d-ec11-b400-000d3ab41693/ad3ed61e-c311-ee11-8f6c-000d3ab689d0/SitePages/Documents.aspx
- See RTCA AerOpus Report 2 folder for the "DRAFT Report 2.docx" (see specifically Document Revision 1.0):
 https://aeropus.i3cloudservices.com/Group/GroupLanding/10010?tab=Documents&folder=Report+2+-+Aviation+Systems+and+Their+Use

Thursday, July 27th Plenary

The Plenary convened at approximately 0830 EDT / 1430 CEST

- 1. Host and Co-Chairs Welcome and Introductions
 - Ed Hahn and John Micallef welcomed participants.
 - Ed managed the participant introductions.
 - Attachment A lists the combined participants for the Plenary and subgroup meetings that occurred on July 25-27, 2023.
- 2. Administrative Matters RTCA & EUROCAE Policies
 - Mark Watson and Rebecca Morrison presented the EUROCAE and RTCA mandatory slides on Russian participation prohibition, anti-trust, proprietary/intellectual property, committee participation membership, and GDPR privacy policies.
- **3.** Agenda Review
 - Ed Hahn presented the meeting agenda. Ed asked if there were other agenda items, and none were offered.
- **4.** Approval of Plenary #5 Meeting Minutes
 - Clay Barber presented the draft April 20, 2023 plenary minutes noting a few editorial change since the draft was posted.
 - Clay asked if there were any amendments to the minutes and none were offered.
 - The minutes were approved.

Post meeting note: The final minutes were posted to the April 20, 2023 Plenary Meeting #5 folder on AerOpus and Workspace.

- **5.** Review of Prior Actions and Risk Register
 - Review of Actions: The open actions from the April 20, 2023 plenary minutes were reviewed.
 - o March 20, 2022 plenary #1:
 - Action 1: It was noted that efforts continue to be made to identify a WG-124 Secretary. It was agreed to keep Action 1 open and extend the due date to Plenary Meeting #7.
 - Action 2: It was agreed to keep Action 2 partially open and extend the due date to identify document editors to Plenary Meeting #7.
 - o April 20, 2023 plenary #5:
 - Actions 22, 24, 25, and 26: Agreement to close.
 - Risk Register: John Micallef presented the risk register.
 - O John provided an update on each risk and noted the changes to some of the risk impacts and probability of occurrence.
 - Agreement to change the status on survey responses risk from Red to Green due to
 the combination of receipt of all expected survey responses, closure of survey
 response period, and the proposed change to the TOR delivery date for Report 1
 which will be discussed later in this agenda.
 - Agreement to close lack of system expertise risk to cover survey gaps due to closure of survey response period.
 - o John will continue to maintain the risk register and requests any additional risks be communicated to him and Ed.
- **6.** Internal Coordination and Subgroup Reports to Plenary
 - a. Status of Work by Subgroup Leads
 - Subgroup 1 (SG1):
 - O Andy Roy led the discussion of the SG1 slides (attached).
 - o There was discussion of:
 - Distribution to other SCs/WGs: Is it just leadership or the entire committee?
 Suggestion to send to committee rosters and offer entire committee the opportunity to review and comment. Distribution can include suggested instructions to focus their review.
 - Suggestion to only send to committees and/or committee working groups that have relevance. e.g., only a couple of SC-228 WGs are relevant and other committees, like SC-231 (TAWS) and SC-236 (HTAWS), have no documents included in the survey.
 - Subgroup 2 (SG2):
 - o Olivier Pellay led the discussion of the SG2 slides (attached).
 - b. Personnel Needs
 - Ed Hahn led discussion of personnel needs related to SG2, particularly the need to involve system/equipment designers.
 - o Suggestion to produce a targeted call for participation rather than a general "all" call.
 - O Suggestion to identify the particular expertise needed to support the targeted call.

- O Suggestion to recirculate to other SCs/WGs the goal of the DO-XXX guidance.
- <u>ACTION</u>: Ed Hahn / John Micallef to work with RTCA/EUROCAE staff to produce an additional call for participation for system/equipment designers.

c. Report 2 Draft

- Ed Hahn briefed the current state of Report 2, showing the progress made since Plenary #5.
 - O John Micallef noted consideration should be given to mentioning the digitalization of aviation services and potential need to grow spectrum needs and perhaps even release of current spectrum for non-aviation uses.
 - Wes Googe suggested mention of APNT needs.
 - Dave Redman suggested mentioning high-power/low-power spectral zoning concerns.

7. External Coordination

- a. Correspondence and Announcements on Input Material from Other RTCA/EUROCAE SCs/WGs
 - A summary of the survey responses received was provided by Andy Roy during the SG1 briefing, so it wasn't repeated during this agenda item.
- b. Status from Other External Groups (e.g., CEPT, ICAO, FCC, etc.)
 - Andy Roy provided a summary of the ICAO FSMP.
 - o FSMP is the interface with ITU and has drafted the ICAO WRC23 position that is now being reviewed within other ICAO panels.
 - FSMP now hopes to turn to policy work including planned updates to ICAO Handbook.
 - o FSMP is also tasked with developing radar altimeter SARPs.
 - o The next FSMP meeting is in late August-early September 2023. An SC-242/WG-124 briefing should be planned for this next meeting.
 - John Mettrop provided a summary of the ICAO ICNSS Task Force efforts related to its CNS modernization roadmap and efforts to identify what should be included in ICAO Annexes for SARPs (e.g., can RTCA/EUROCAE MOPS be directly referenced?) with a goal of speeding up the approval of SARPs. Some States have expressed concern with referencing MOPS because of perceived inequality of some States' civil aviation authority ability to influence MOPS content.
 - John Mettrop noted that ITU Study Group 1 intends to look more closely at transmit and receive masks during its next cycle that may be relevant to SC-242/WG-124 DO-XXX guidance.
- **8.** Approval of Report 1 for Review and Comment by Other RTCA/EUROCAE SC/WG Members (Contingent on Completion of Identified Edits) and Dates of RAC (not public FRAC)
 - Ed Hahn led discussion of this agenda item. This will not be a public review process but only for review within RTCA/EUROCAE SCs/WGs.
 - For EUROCAE, only WG approval is required, not TAC approval.
 - For RTCA, this will be the first report issued using the RR-XXX nomenclature.
 - The proposed timeline for the SC-242/WG-124, other SC/WG, and approval timeline and workplan were reviewed (see SG1 slides for details).

- A motion was made by Wes Googe and seconded by Chris Tourigny to approve the timeline and workplan.
- The committee approved the motion.

9. Documentation of Actions

- Clay Barber provided the list of actions he had captured from the July 27 Plenary. The actions were amended as suggested by the committee and are captured in the following table.
- Current SC-242/WG-124 Plenary Action Item list
 - o Action Items closed during this Plenary are shaded in grey in the following table.
 - New Action Items identified during this Plenary are shaded in green in the following table.
 - o Actions closed in previous Plenary sessions are not listed.

#	Owner	Action	Date	Due Date	Status
1	Mark Watson / John Micallef	Identify WG-124 Secretary	Mar 10, 2022	Oct 17, 2023	Open
2	Ed Hahn / John Micallef	Identify subgroup leads and document editors • Subgroup leads identified Apr 20, 2022	Mar 10, 2022	Oct 17, 2023	Partially Open
22	All	Review RF-specific areas of WAIC MOPS	Apr 20, 2023	May 15, 2023	Closed
23	Ed Hahn / John Micallef			Per FSMP Meeting Schedule	Open
24	Ed Hahn	Provide update on the Survey Report delay at Jun 2023 PMC meeting	Apr 20, 2023	Jun 22, 2023	Closed
25	Ed Hahn / John Micallef	Determine document identifier nomenclature for reports available through the RTCA Store	Apr 20, 2023	Jun 22, 2023	Closed
26	Ed Hahn / John Micallef	Add SC-242 & WG-124 TOR amendment on the Plenary #6 agenda	Apr 20, 2023	Jul 27, 2023	Closed
27	Ed Hahn / John Micallef	Work with RTCA/EUROCAE staff to produce an additional call for participation for system/equipment designers	Jul 27, 2023	Nov 1, 2023	Open
28	John Micallef	Amend the WG-124 TOR to align with the SC-242 TOR changes	Jul 27, 2023	Aug 1, 2023	Open
29	Ed Hahn / John Micallef	Brief the RTCA PMC and EUROCAE TAC, respectively, on the TOR updates	Jul 27, 2023	Sep 21, 2023 (PMC) / Sep 14, 2023 (TAC)	Open
30	Ed Hahn / John Micallef	Finalize the date for virtual Plenary #7	Jul 27, 2023	Sep 19, 2023	Open

#	Owner	Action	Date	Due Date	Status
31	John Micallef / Mark Watson	Identify a location for in person Plenary #8	Jul 27, 2023	Oct 17, 2023 Plenary #7	Open

10. Review Work Plan and Update the Terms of Reference

- SG1 and SG2 work plans were reviewed in prior agenda items, so were not discussed again.
- Ed Hahn brings up draft Terms of Reference to update the three deliverable due dates. Adjustments were made to the due dates based on discussion during the meeting.
- A motion was made by Andy Roy and seconded by Wes Googe to approve the TOR change.
- The committee approved the motion.
- <u>ACTION</u>: John Micallef to amend the WG-124 TOR to align with the revised SC-242 TOR.
- <u>ACTION</u>: Ed Hahn and John Micallef to brief the RTCA PMC and EUROCAE TAC, respectively, on the TOR updates.

11. Date and Venue of Next Meeting

- The committee agreed to resume subgroup weekly meetings on August 1, 2023.
- The committee agreed to have a virtual Plenary #7 to approve Report 1. The date was tentatively set for Oct 17, 2023 with final determination to be determined as progress is made on finalizing the report.
- The committee agreed to meet for an in-person Plenary #8 during the week of February 27-29, 2024 in Europe. There will be a hybrid option.
- **ACTION**: Finalize the date for Plenary #7.
- **ACTION**: Identify a location for in person Plenary #8.

Meeting Dates	Locations (Hosts)	Meeting Goal
October 17, 2023 (to	Virtual (RTCA/EUROCAE)	1. Approve Report #1 for publication
be finalized September		
19)		
February 27-29, 2024	Europe (tentatively	1. Progress Guidance document
	EUROCAE but location to be	2. Progress Report #2
	confirmed) (hybrid)	2

12. Any Other Business

None discussed

13. Adjournment

• The Plenary adjourned at approximately 1115 EDT / 1715 CEST on Thursday July 27, 2023.

CERTIFIED as a true and accurate summary of the meeting.

Clay Barber, SC-242 Secretary

TBD, WG-124 Secretary

Ed Hahn, SC-242 Chair

John Micallef, WG-124 Chair

Attachment A – Participants

Leadership

Name	Organization
Ed Hahn	ALPA
SC-242 Chair	
John Micallef	EUROCONTROL
WG-124 Chair	
Clay Barber	Garmin
SC-242 Secretary	
Chris Tourigny	FAA
SC-242 Government	
Authorized Representative	
Rebecca Morrison	RTCA
SC-242 Program Director	
Mark Watson	EUROCAE
WG-124 Technical	
Programme Manager	
Andrew Roy	ASRI
Subgroup 1 Lead	
Olivier Pellay	Airbus
Subgroup 2 Lead	

Membership

Name	Organization			
Bob Ireland	A4A			
Dave Redman	AVSI			
Donny Morrow	United Airlines			
Earle DePass	TCCA			
Guillaume Novella	DGAC/DSNA			
Jessie Turner	Boeing			
John Mettrop	UK CAA			
John Moore	Aura Network Systems			
Kambiz Rahnavardy	FCC			
Kathryn Bernazzani	DOT Volpe Center			
Kim Kolb	Boeing			
Mauro Pagliarini	EASA			
Naruto Yonemoto	Electronic Navigation Research Institute (ENRI), Japan			
Sai Kalyanaraman	Collins Aerospace			
Sam Weich	Ligado Networks			
Sasa Jankovic	Bundesaufsichtsamt für Flugsicherung, Germany			
Wes Googe	American Airlines			
Yahya Golestani	Honeywell			

Guests

Name	Organization				
Sergio Mochado	ANAC				

	RISK MANAGEMENT LOG				
Column	Instructions For Completing This Document				
	Complete the Project Name, NC, Project Manager Name, and Project Description fields				
	For each risk identified, complete the following:				
Α	ID: A unique ID number used to identify the risk in the risk tracking log.				
В	Current Status: This column should be populated with the risk's current status.				
	o Open: The risk is currently open but is not yet an issue.				
	o Closed: The risk is no longer considered an active project threat and can be closed with or without resolution.				
С	Risk Impact: This column should be populated with the potential impact of the risk if it did become a project issue. Valid options include the				
	following: High, Medium, Low. These are defined as follows:				
	o High: Risk that has the potential to greatly impact project cost, project schedule or performance.				
	o Medium: Risk that has the potential to slightly impact project cost, project schedule or performance.				
	o Low: Risk that has relatively little impact on cost, schedule or performance.				
D Probability of Occurrence: This column should be populated with the estimated probability that the risk will at some point be					
	issue.				
E	Risk Map: This is a calculated field based on the values selected for both Risk Impact and Probability of Occurrence.				
	o Green: LL (Low Probability, Low Impact), LM (Low Probability, Medium Impact), ML (Medium Probability, Low Impact)				
	o Yellow: LH (Low Probability, High Impact), LiM (Medium Probability, Medium Impact), HL (High Probability, Low Impact)				
	o Red: MH (Medium Probability, High Impact), MM (Mediant Probability Mediant Impact), HH (High Probability, High Impact)				
F					
	Risk Description: This column should be populated with a description of the risk.				
_	Project Impact: This column should be populated with a description of the potential project impact as a result of the risk. Risk Area: This column should be populated with the appropriate risk area.				
	Symptoms: This column should be populated with the symptoms of risk that may eventually lead to the execution of a risk contingency plan.				
!	Symptoms. This column should be populated with the symptoms of risk that may eventually lead to the execution of a risk contingency plan.				
J	Trigger: This column should be populated with the triggers that would indicate the requirement to execute contingency plans.				
	Risk Response Strategy: This column should be populated with the preferred risk response strategy.				
L	Response Strategy: This column should be populated an appropriate response strategy to prevent the risk from becoming an issue.				
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М	Contingency Plan: This column should be populated with a description of the risk contingency plan.				
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Column	Instructions For Changing the Contents of Drop-Down Menus						
C, D, H	Highlight the cell of which you wish to change the content of the drop down menu.						
	From the file menu click "Data" -> "Validation" and change the content of the source field						

Column	Instructions For Filtering Data					
Any	lighlight the header of the cell you wish to filter data on					
	From the file menu click "Date" -> "Filter" -> "Auto Filter"					
	Then select your filter criteria from the drop down menu that appears on your header cell					

RIS	RISK MANAGEMENT LOG RISK MANAGEMENT LOG											
Proje	ect Name:		SC242/WG124					Project Name:	SC242/WG124			
_	Project Manager Name:		Chair	hair			Project Manager Name:	Chair	1			
Project Description:		Spectrum efficiency	•				Project Description:	Spectrum efficiency				
ID	Current Status	Risk Impact	Probability of Occurrence	Risk Map	Risk Description	Project Impact	Risk Area	Symptoms	Triggers	Risk Response Strategy	Response Strategy	Contingency Plan
P3	Open	Medium	High	Green	Survey outcome ineffective or late.		Schedule	Lack of timely responses, or no responses from committee chairs	Four weeks prior to scheduled start date if no resource is identified with required skill set implement contingency plan.	Mitigation	(i) Guidance clarifying instructions for survey respondees (ii) Segmentation of responses into compulsory and optional entries (iii) New delivery dates to be proposed to the PMC.	Agree a sequential delivery of responses.
P3	Open	Medium	High	Red	Lack of internal (SG) expert resource	SG1 and SG2 delivery slippage.	Resources	Lack of committee member contributions		Avoidance	Sequential sequencing of tasks. Allocation of experts' time through resource register managed at SG level.	Find resource that meets required skill set through external hiring sources.
P3	Closed	Low	Low	Closed	Lack of system expertise to cover gaps in survey	Inability to substantiate gaps for specific systems, leading to incomplete SG2 guidance.	Expertise	Incomplete survey submissions		Contingency		
P4	Open	Low	Low	Green	Impact of WRC23 preparations on committee's calendar	Busy spectrum calendar in 2023 impacting on availablity of key experts	Schedule	Key experts inability to attend meetings or to contribute to deliverables in a timely manner.	Meeting clashes with other spectrum committees related to ICAO and to ITU WRC23	Contingency	active tracking of external spectrum committee meetings vs key experts	
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UP Template Version: 11/30/06

SC-242/WG-124 Jul 2023 Plenary - SG1 Update to Plenary

27 Jul 2023

Objectives for Jul 2023 WG-W SG1 Activities

- Review status of RF survey responses
 - What has been received
 - What is outstanding
- Report status
- Review timelines/workplan
 - Future meetings/timeline planning
- Finalize material for Plenary

RF Survey Statistics

- Up to 51 total documents expected in report
 - Plus an additional 7 from SC-159 which will be a consolidated into a single response
- 44 reviewed by committee and complete
- 2 responses have been received by not reviewed
 - ED-052
 - DO-224D
- 5 of those documents have not received any response and will be removed
 - DO-210D
 - ED-104A
 - ED-235
 - ED-265
 - ED-266

SG1 Report Status

- See uploaded report Rev.26 Jul
- Exec summary
- 1. Introduction
- 2. Background
- 3. RF survey of RTCA and EUROCAE minimum performance standards
- 4. Questions raised during the survey
- 5. Summary
- Appendix A Summary of RF Surveys
- Appendix B Reviews of RF surveys received
- Appendix C letter for survey request to SC/WGs and experts
- Appendix D Sunset Special Committee / Working Group Documents for RF Performance Requirements Survey
- Report additions
 - Supplemental material package of survey responses (limited only to parameter questions and references, not contextual questions or remarks)

Timelines/Workplan

- Jul
 - 27 Jul Document issued out for SC-242 comments
- Aug
 - 14 Deadline for comments from committee
 - 15(/16?) Committee reviews comments*
 - 21 Open for RAC with SC/WGs
- Sep
 - 18 Deadline for RAC comments
 - 19 Committee review RAC comments*
 - 26 Committee review RAC comments*
- Oct
 - 2 Completed RAC comment review Document available for SC-242/WG-124 final comments
 - 9 SC-242 comment review deadline
 - 10 Committee review final comments*
 - 16 Plenary to approve document ready for PMC/TAC*

^{*} Note that there may be slippage of a week or two depending on responses/workload

Actions for SC-242/WG-124 Plenary

- SG-1 intends to finish the text of the document after the main plenary for first complete draft*
- SG-1 are requesting that the Plenary approve in principle the release of Report 1 for RAC (subject to completion after the Plenary)
 - Would include SC-242/WG-124 comment period before releasing for RAC to participating SCs and WGs
 - Then a final SC-242/WG-124 comment period before approval
- Intending to have a complete report ready for PMC/TAC by late Oct 2023

SG2 Reporting activity to plenary 25th-27th July 2023

RTCA SC-242 / EUROCAE WG-124 Spectrum Compatibility

SG2 activity in Brief

Meeting session

Tuesday, 25 July 2023, 13:00-17:00

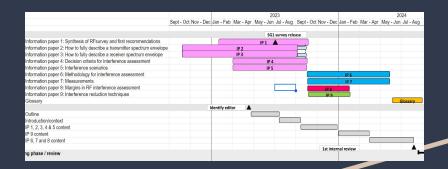
Working papers and contributions

- 5 ongoing IPs
- 1 separate contribution on "spectrum regulation requirements"

Objectives

- Quick look on timeplan
- Revise progress on each IPs
- Seek guidance on how to progress on IPs
- Collect views on some new proposals
- Clean document are available on AerOpus

Timeplan



Objective: Provide spectrum guidelines for new aviation RF systems to prevent from RF interference

Minor Modification: at this stage, proposal to align time finalising IP2 (Transmitter) and IP3 (Receiver) with IP1, IP4 and IP5 with a target date to October 2023.

To note that first internal review is planned during WRC-23 and End year break. This may be not a suitable time to initiate such review.

IP1: Synthesis of RF survey and first recommendations

Additions from the last plenary

- Initial list of RF parameters to be considered
- Further responses have been brought to survey questions
- Some considerations on adverse impact from high receiver performances
- Some preliminary consideration on spectrum related standards from other SDOs (e.g.ETSI)

Further to the next meeting ...

- ⇒ Consolidate RF parameters (see tables)
- ⇒ Continue the work comparing ETSI and RTCA/EUROCAE standard
- ⇒ Think on how to reflect activity from other SDOs
- ⇒ Consider contribution shared on "Regulatory requirements on spectrum"

IP2: How to fully describe a transmitter spectrum envelope

Additions from the last plenary

- update on figures
- new text was added
- Consideration proposal to separate "Transmitter theory" and a new section on " Spectrum regulatory requirement for transmitter"

Further to the next meeting ...

- ⇒ Reformat the document taken into account a new section on regulatory requirements related to spectrum
- ⇒ seek for guidances from system manufacturer to evaluate the relevance on "transmitter theory" section.

IP3: How to fully describe a receiver spectrum envelope

Additions from the last plenary

 proposal for new text, new section and new architecture

Further to the next meeting ...

- ⇒ check definitions and clean up the document to avoid redundancy of information with IP2 some material will be moved to IP2
- ⇒ New material providing examples on how receiver parameters may influence the result of compatibility studies and, on the other side, how those parameters may also challenge interoperability and operation of a system is proposed to be developed.

IP4: Decision criteria for interference assessment

IP5: Interference scenarios

- No progress at this stage, those two IPs were supposed to progress after the summer break.
- The group was informed that those topics are also under analysis in ICAO (Handbook revision). Need to check what is available to avoid duplication of work.

- IP 6: Methodology for interference assessment
- IP7: Measurements
- IP8: Margins in RF environment
- IP9: Interference reduction techniques

The work on that IPs is supposed to start after finalising IP1 to IP5. The group confirm this time plan mentioning that there is a need to look at related ongoing activities in ICAO FSMP.