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| WG FM | | FM(20)103 |
| 96th | |  |
| Web-meeting, 8-12 June 2020 | |  |
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# **1.** **Opening of the meeting**

1. The WG FM Chairman, Mr Vincent Durepaire, opened the 96th meeting of WG FM and welcomed all remote participants.
2. He thanked the Belgian Institute for Postal services and Telecommunications (BIPT) and Eurocontrol for having invited the 96th meeting of WG FM in Brussels. However due to the pandemic, the physical meeting in June 2020 was compromised and consequently replaced by web-meetings. He also informed the intention of BIPT and Eurocontrol to host WG FM in June 2022.
3. He also thanked Mr Robin Donoghue (ECO) for the web-meeting facilities and arrangements.
4. With sadness, the WG FM Chairman informed the meeting that Mr Alan March passed away on 30th of May 2020. He was a well-known participant to CEPT meetings related to PMSE and highly appreciated for his kindness and competence. Mr Matthias Fehr (APWPT) kindly said a few words in memory of Alan (Info 14). We all assure Alan’s family of our prayers and thoughts.
5. The meeting was attended by 154 delegates from 33 CEPT administrations and 21 partner organisations, including EC and ECO. The list of participants is given in **Annex 01**. The WG FM Chairman informed that individual invitations had been provided, by him, to Thomas Chatelet (ERA), Yves Amsler (UITP), Frederic Jans-Cooremans (UITP) and Jean-Pierre Faisan (UITP).

# **2.** **Adoption of agenda and schedule**

1. Mr Robin Donoghue (ECO) introduced ECC’s Q&A related to the coronavirus crisis. The document Info10rev1 which provides instructions on how to participate in such a web-meeting was then introduced.
2. The WG FM Chairman introduced the draft agenda and the schedule of the meeting. The agenda was adopted with minor amendments and can be found in **Annex 02** of these Minutes.
3. The list of input and information documents is provided in **Annex 03**.

# **3. Developments within CEPT**

***3.1*** ***Report from ECC Plenary***

1. The WG FM Chairman introduced the meeting report (FM(20)089) from the 52nd ECC Plenary, 3-6 March 2020, in Tallinn (Estonia), and highlighted the most relevant aspects. The WG FM meeting took into account the relevant ECC Plenary decisions.
2. The relevant annexes to the ECC meeting report were considered with regard to the specific agenda items.

***3.2*** ***Report from WG SE***

1. The WG FM Chairman introduced the meeting report (FM(20)090) from the 85th WG SE, 11-21 May 2020, by web-meeting, as well as the liaison statement (FM(20)078) and highlighted the most relevant aspects. The WG FM meeting took into account the relevant ECC Plenary decisions.
2. WG SE requested guidance from the WG FM on how to address maritime GSO ESIM. The FM44 Chairman explained that the next FM44 meeting will first discuss the regulatory measures for GSO maritime ESOMP and liaise with WG SE (SE40) if any additional technical analysis is needed. Discussions on NGSO may also be needed before requesting new technical analyses. An LS to the WG SE was approved to report this guidance (**Annex 23**).
3. The relevant annexes to the WG SE meeting report were considered with regard to the specific agenda items.

***3.3*** ***Report from PT1***

1. The meeting report (FM(20)091) from the 64th PT1, 14-16 January 2020, in Manchester (UK) were noted.
2. The WG FM Chairman introduced the draft ECC Recommendation on Frame structures for cross-border at 3400-3800 MHz (FM(20)084). WG FM approved it for public consultation (**Annex 05**).

***3.4*** ***ECO Bulletin and assistance to WG FM***

1. The ECO introduced the assistance to WG FM (FM(20)082).
2. In particular the ECO noted the revision to the Electronic Working Arrangements (EWA) and the Q&A developed by ECC regarding remote working in the present circumstances. ECO informed the meeting about enhancements to the meeting facilities at the ECO.
3. ECC had tasked ECO to organise a workshop on Satellite related topics (mega constellations, satellite M2M/IoT, ESIM, etc.). This workshop is planned to be held in Copenhagen from November 25th (full day) to 26th (half-day).
4. Finally, ECO noted an article in the May edition of the ECC Newsletter, relating to the work of FM58.

# **4. Developments in external bodies**

***4.1*** ***EC recent activity***

1. The EC Counsellor, Mr. Giuseppe Rizzo, informed WG FM about the main issues discussed at the latest RSC plenary (#70 of 11-12 March 2020) provided in Info12 and introduced two new Mandates to CEPT on RLAN at 5 GHz (FM(20)065) and on mm-wave bands (FM(20)066).
2. Notably:

* the text of a new ITS Decision(5875-5935 MHz,based on CEPT Report 71) will be submitted for vote to the next RSC on 8 July;
* the proposed Commission Implementing Decision on paired 2 GHz (based on CEPT Report 72) received a positive vote and was subsequently adopted by the Commission ([EU/2020/667](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020D0667&qid=1591693745396&from=EN) of 6 May 2020);
* the proposed Commission Implementing Decision on 2.6 GHz (also based on CEPT Report 72) received a positive vote and was subsequently adopted by the Commission ([EU/2020/636](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020D0636&qid=1591693832817&from=EN) of 8 May 2020);
* the proposed Commission Implementing Decision on 26 GHz (based on the CEPT letter of 6 March 2020) amending Commission Implementing Decision 2019/784 received a positive vote and was subsequently adopted by the Commission ([EU/2020/590](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020D0590&qid=1591694042004&from=EN) of 6 May 2020);
* via a written procedure, the RSC gave their final approval for two mandates to CEPT about mm-wave bands above 24 GHz (40.5-43.5 GHz & 66-71 GHz) and on WAS/RLAN in the 5 GHz band, and the Commission sent the Mandates to ECC on 14 April.

***4.2*** ***ETSI recent activity***

1. The ETSI Liaison Officer, Mr Edgard Vangeel, presented document FM(20)102rev1 containing information on ETSI System Reference Documents recently being published and ETSI System Reference Documents still in drafting stage. The System Reference Documents recently published (TR 103 593 and TR 103 664) had already been introduced to WG FM during the Malta meeting in February 2020.
2. The ETSI Liaison Officer presented document FM(20)064 which is a liaison statement to SE21 on Signal Interferer Handling. Attached to this document was draft EN 303 883-2 which will be a European Norm covering Measurement Techniques for transmitter requirements following the ‘interferer handling concept’. ETSI TG UWB is seeking feedback from SE21 on the draft EN 303 883-2 in particular and the signal interferer handling concept in general.

# **5.** **FM Project Teams, Maintenance Groups and Forum Groups**

***5.1*** ***FM22 – Monitoring***

**5.1.1 Progress report**

1. The Chairman of FM22, Mr Ralf Trautmann (D), presented the progress report of the Project Team (FM(20)071). This was noted by the meeting.

**5.1.2 HF monitoring campaign in 3-30 MHz**

1. Mr Trautmann thanked the administration of the Netherlands for the progress made regarding the web portal (section 3 of doc. FM(20)071).

**5.1.3 Radio interference statistics**

1. The summary of the answers to the questionnaire on interference cases in 2019 was presented (FM(20)072). Mr Trautmann suggested to publish the results on the webpage not before the next meeting of FM22. This gives the opportunity to improve the design of the presentation.
2. Some figures of the questionnaire were scrutinised. Due to differences in the reporting methods being used in CEPT countries, the total number of interference cases may need to be analysed. There are countries that have not provided answers every year. Some countries have modified their way to count interference cases. Hungary, for example, stated in document FM(20)072 that the figures regarding interference caused by 5 GHz RLAN for 2018 and 2019 are not comparable with the figure provided for 2017.
3. Some delegates made proposals for an improved documentation of changes of figures from one year to the next. Colours could be used to indicate an increase by 25% or more. FM22 will discuss this at its next meeting.

**5.1.4 Other issues**

1. Germany asked if there had been additional considerations with regard to the SatMoU after the issue had been discussed at the last ECC Plenary. The Chairman of FM22 clarified that there had been no additional work but that FM22 confirms its analysis already provided to the last meeting of WG FM.

***5.2*** ***FM44 – Satellite***

**5.2.1 Progress report**

1. Mr Amar Saidani (France), the FM44 Chairman, presented the progress report of the Project Team (FM(20)086). He reported that due to the pandemic situation some FM44 works are postponed to the next WG FM #97.

**5.2.2** **HIRF protection of aircraft from earth stations: new ECC Recommendation (20)02**

1. PC comments resolution will be done in a dedicated FM44 web-meeting on 19th of June 2020.

**5.2.3 NGSO aircraft ESOMP in Ka band: revision of ECC Decision (15)04**

1. PC comments resolution will be done in a dedicated FM44 web-meeting on 19th of June 2020.

**5.2.4 New ECC Decision to designate the frequency bands 1164-1215 MHz, 1237-1300 MHz and 1559-1620 MHz for GALILEO and GLONASS**

1. Not addressed at this meeting.

**5.2.5 Coexistence between amateur service / amateur-satellite service and the radionavigation satellite receivers in 1240-1300 MHz: new ECC Decision**

1. Not addressed at this meeting.

**5.2.6 GSO and NGSO maritime and aeronautical ESOMP in the entire 27.5-29.5 GHz**

1. Not addressed at this meeting.

**5.2.7 MSS below 1 GHz: revision of ERC Decision (99)06 Annexes 1 and 2**

1. The FM44 Chairman presented the draft amended Annex 1 and Annex 2 of the ERC Decision (99)06 (FM(20)086Annex1). WG SE has completed the technical studies for HIBERBAND, ARGOS/KINEIS and SWARM systems. WG SE’s ECC Report is in public consultation and their minutes indicate that possible mitigation techniques are expected for Hiberband and Swarm systems (FM(20)090 and FM(20)078).
2. The Russian Federation informed the meeting that some technical issues are still under consideration at WG SE level and may be finalised after the public consultation. Those final results could have an impact on the Annex 2 of the ERC Decision and so the final adoption of the amended ERC Decision will have to take them into account.
3. The modifications to this Decision will not be finally approved and published by ECC before the associated technical justifications from WG SE are fully adopted and published.
4. The FM44 Chairman explained that the last WG FM meeting agreed to undertake several public consultations of the Annexes 1 and 2 for each new satellite candidate system. He also presented the reasons to adopt for public consultation the draft amended Annexes:

* To submit the numerous deletions of obsolete satellite candidate systems added 20 years ago but that no longer exist;
* To add new satellite candidate systems.

1. The public consultation is also used to collect views from contributors outside CEPT. Some satellite systems, included in the Annex 1, are filed to the ITU through administrations located outside CEPT and deletion of obsolete satellite systems may help to clean the CEPT framework.
2. The meeting adopted the draft amended Annex 1 and Annex 2 for public consultation (**Annex 06**). The FM44 Chairman proposed to mention on the ECO web site that the public consultation is limited to Annex 1 and Annex 2 of the ERC Decision. FM44 will only consider comments related to Annex 1 and Annex 2 for the resolution of comments.
3. The FM44 Chairman also mentioned that some downlink operational restrictions are included in the Annex 2 and these conditions could only be enforced by the notifying Administration of the satellite candidate system. For those satellite systems that have a CEPT country as a notifying administration, no specific measures are needed; but for others it has to be clarified. The meeting tasked the FM44 to study and propose the possible specific measures and validation process for satellite candidate systems filed to ITU through non-CEPT administrations, taking into account the milestones of Annex 3 of the Decision.
4. Germany noted that information from WG SE on the completion of the technical studies should be more explicit and include the operational conditions in the format of the tables in Annex 2 of ERC/DEC/(99)06 for each specific satellite candidate system. The meeting agreed the proposal and it will be reported in WG FM progress report to ECC.
5. WG SE is kindly asked to check if the operational conditions defined in the draft amended Annex 2 of ERC/DEC/(99)06 are in-line with the technical results.

**5.2.8 Protection of the Radioastronomy Service in 1610.6-1613.8 MHz by Iridium in 1616.0-1626.5 MHz**

1. The FM44 Chairman presented the proposal for a questionnaire to administrations on Iridium’s licences in CEPT countries as requested by the last WG FM meeting (FM(20)086Annex5). The meeting approved the questionnaire (**Annex 07**).
2. The ECO was tasked to make the questionnaire available online. The questionnaire remains open until the 4th of September.

**5.2.9 Other issues**

1. Germany presented a proposal for a questionnaire to administrations on Globalstar’s licences in CEPT countries (FM(20)096rev1) in order to improve the implementation information on ECC/DEC/(09)02. The meeting approved the questionnaire (**Annex 08**).
2. The ECO was tasked to make the questionnaire available online. The questionnaire remains open until the 4th of September.
3. ETSI informed the meeting of current work on a possible additional standard concerning NGSO earth stations (FM(20)073). The meeting noted ETSI will inform WGFM when the work is finalised.
4. The FM44 Chairman informed the meeting that the ECC Decisions (17)04 and (18)05 will be revised in 2021 for other purposes and a reference to the new ETSI Harmonised Standard can be added if finalised. Otherwise, it can be indicated that a new standard is under development by ETSI.

***5.3 FM51 – PMSE***

1. Not addressed at this meeting.

***5.4*** ***FM56 – RMR***

**5.4.1 Progress report**

1. The FM56 Chairman, Mr Vincent Durepaire (France) presented the progress report of the project team (FM(20)069) as well as the LS from PT1 (FM(20)085) giving the result of the resolution of the comments received on draft ECC Report 318.

**5.4.2 EC Mandate on FRMCS**

5.4.2.1 CEPT Report 74 on tasks 1 to 4

1. The draft CEPT Report 74 (FM(20)069Annex2) as submitted by FM56 after the resolution of the comments received during public consultation was introduced, as well as a contribution from UK (FM(20)101).
2. Following drafting, draft CEPT Report 74 (**Annex 20**) was endorsed by WG FM for submission to the ECC for publication.

5.4.2.2 CEPT Report #B on task 5

1. The draft CEPT Report #B (FM(20)069Annex3) as submitted by FM56 was introduced, as well as a contribution from UK (FM(20)100).
2. Following drafting, draft CEPT Report #B (**Annex 18**) was endorsed by WG FM for submission to ECC for public consultation.

**5.4.3 New ECC Decision on RMR**

1. The draft ECC Decision on RMR (FM(20)069Annex4) as submitted by FM56 was introduced, as well as a contribution from UK (FM(20)099).
2. Following drafting, the draft ECC Decision on RMR (**Annex 17**) was endorsed by WG FM for submission to ECC for public consultation in order to retain consistency with draft CEPT Report #B.
3. ETSI expressed general concern with ECC Decisions which appear to specify equipment requirements, as this is not the purpose of an ECC Decision. As discussed at the ECC-ETSI coordination meeting, the MoU expects ECC to provide “guidance on the related regulatory conditions (e.g. spectrum sharing criteria) that ETSI could consider when specifying parameters in Harmonised Standards”. The detailed wording can be addressed in PC to avoid any difficulties with the MoU, noting that the general form of such wording for this guidance is under review.
4. WG FM tasked the ECO to prepare an editorial update of the ECC Decision on RMR to add a reference to the corresponding Commission Decision once it is published.
5. The Russian Federation noted that *decides 4* has very general nature, allowing the administrations to deviate from the technical conditions established in the Annexes of the draft ECC Decision without implementing any mandatory measures for ensuring compatibility with other systems or services. It was proposed to modify this paragraph or to exclude it completely from the draft ECC Decision. This proposal was not supported by the meeting.
6. Germany questioned whether provisions to allow free circulation and use of RMR mobile terminals as well as to exempt from individual licensing RMR mobile terminals were still needed.
7. Sweden raised concerns about the need to define an out-of-band emission limit or mask for RMR BS above 925 MHz.
8. Consequently, a cover note (**Annex 19**) was endorsed by WG FM for submission to ECC.
9. Upon FM56’s proposal, an LS to ETSI (**Annex 21**) requesting the update of the MFCN BS Harmonised European Standards with respect to BS receiver characteristics in 1900-1910 MHz when operating in 1920-1980 MHz was agreed.
10. Upon France’s proposal, an LS to ETSI (**Annex 22**) requesting to include the wideband RMR receiver parameters, defined in the draft ECC Decision on RMR, in the future wideband RMR Harmonised European Standards was agreed. A confirmation of the final parameters will be sent at the next WG FM meeting.
11. Finally, the WG FM Chairman noted that, with respect to the *considering s)* on coexistence with DECT, a consistent approach is required with PT1 which is revising the regulatory framework for MFCN at 1800 MHz. The meeting agreed this point will be raised at ECC.

**5.4.4 Work related to ITU-R**

1. WG FM agreed that Germany would submit on behalf of CEPT the proposed draft new study question on RSTT (**Annex 12**) to ITU-R Study Group 5.

**5.4.5 Other issues**

1. None

***5.5*** ***FM57 – WAS/RLAN above 5 GHz***

**5.5.1** **Progress report**

1. Document FM(20)070 was introduced. In presentation the FM57 Chairman noted that 5 online meetings had been held since the last WG FM #95 meeting. The meeting was informed that one of these meetings was an administration only meeting (to discuss the matter of the OOBE limits applied to below 5935 MHz), and that meeting #10 of FM57 was required to be extended by two days to complete the work.
2. The FM57 Chairman identified the need to extend the deadlines for work items FM57\_02 (“review of ECC/DEC(04)08”) and FM57\_03 (“ECC Report on national measures for WAS/RLAN in 5725-5850 MHz”) as no work could be done on these two items due to the more immediate requirements for the draft CEPT Report B and parallel ECC Decision. The meeting was reminded that the work on draft CEPT Report B (Task 2) had been delayed by one meeting cycle, as endorsed by ECC #52.

**5.5.2 EC Mandate on WAS/RLAN at 6 GHz**

1. FM(20)070Annex1: The FM57 Chairman introduced draft CEPT Report B (Task 2). He pointed out that, following extensive discussion, the main conclusions were:

* A 2-stage implementation process for Low Power Indoor (LPI) devices, where stage 2 would see the introduction of geo-location capabilities for administrations who required WAS/RLAN management for national fixed service point-to-point planning needs.
* Two categories of Very Low Power (VLP) devices.
* A difference of view by administrations on the appropriate figure for OOBE limits below 5935 MHz to protect CBTC applications.
* A difference of view by administrations on which power spectral density limit should be applied to VLP devices.

1. The FM57 Chairman noted that the CEPT Report B contained all the relevant information for the consideration of the European Commission for both stage 1 and stage 2 implementations, while the draft ECC Decision only covers stage 1 implementation.
2. Document FM(20)088rev1 (France) was introduced. In discussions, together with document FM(20)098 (United Kingdom), the meeting decided to predominately proceed with the document submitted to the meeting by FM57 (FM(20)070Annex1). The draft CEPT Report B on WAS/RLAN at 6 GHz (**Annex 13)** was endorsed by WG FM for public consultation by ECC, but a liaison statement is to be sent to WG SE (copied SE45) to address some of the key technical questions that could not be concluded on between administrations (**Annex 16**). The documents from Wi-Fi Alliance (FM(20)097rev1) and UITP (Info13) were also considered.

**5.5.3 New ECC Decision on WAS/RLAN at 6 GHz**

1. The meeting was informed that, whilst the draft CEPT Report B covered details for stage 1 and stage 2 implementations, this was different to the content in the draft ECC Decision. The draft ECC Decision only covers the first stage of WAS/RLAN harmonisation, allowing for some administrations to go early with implementation, with a future revision to take account of the expected standardisation process (i.e. geo-location capability functionality) to be enabled in future devices.
2. Noting that the technical annexes of the draft ECC Decision were identical to those in the draft CEPT Report B, the meeting agreed that the draft ECC Decision (**Annex 14**) would be forwarded to ECC #53 for public consultation in order to retain consistency of those annexes. The meeting agreed on a cover letter (**Annex 15**) for the consultation process for the draft ECC Decision, which asked for views on some of the technical questions.
3. WG FM tasked the ECO to prepare an editorial update of the ECC Decision on WAS/RLAN at 6 GHz to add a reference to the corresponding Commission Decision once it is published.

**5.5.4** **Revision of ECC Decision (04)08 on WAS/RLAN at 5 GHz**

1. An extension of the deadline date was agreed.

**5.5.5 New ECC Report on WAS/RLAN in 5725-5850 MHz**

1. An extension of the deadline date was agreed.

**5.5.6 Other issues**

1. Where the meeting agreed to the liaison statement to WG SE on confirmation of PSD and OOBE limits (**Annex 16**), the FM57 Chairman noted that he would discuss with the Chairman of SE45 as to the possibility to a joint meeting between FM57 and SE45 for the FM57 meetings in July and October (i.e. as implicit in the terms of reference of FM57).

***5.6*** ***FM58 – Maritime***

**5.6.1 Progress report**

1. Ms Aire Siinvert (Estonia), the Chair of the FM58, presented the group’s progress report (FM(20)075), covering three web-meetings (27 March, 15-16 April, 28 May 2020).

**5.6.2** **Digital voice radio telephony in the VHF maritime mobile band**

1. WG FM noted the current status of the draft ECC Report on digitization of voice radiotelephony in the VHF maritime mobile band.

**5.6.3 Questionnaire on earth stations recorded on “Ship Station Licenses”**

1. WG FM approved the questionnaire to CEPT administrations on the Ship Station Licence (**Annex 25**). The ECO was tasked to make the questionnaire available online. The questionnaire remains open until the 4th of September.

**5.6.4 Other issues**

1. Questionnaire on Licensing for Personal Radio Equipment: The aim of the questionnaire was to see if there were opportunities for harmonisation of personal radio equipment. Analysis of the results is still ongoing. Proposals from the administrations are expected at next FM58 meeting in September.
2. Interference to GMDSS distress frequencies: FM58 noted the information provided by FM22 at WG FM #95 about the generally limited access to sea-going capability. From the view of maritime safety and in particular the safety of life, FM58 believes that this situation is not satisfactory and cannot be overcome merely by additional administrative regulations.
3. LS from MarED on requirements for marine equipment (FM(20)059): This LS was not discussed at WG FM #96 meeting. FM58 was asked to discuss the LS at its next meeting and report to WG FM #97 on its findings.
4. Possible Agenda Item for the civil-military meeting: WG FM noted that FM58 agreed to keep the proposed text unchanged.

***5.7 FM59 – UAS***

1. Not addressed at this meeting.

***5.8*** ***SRD/MG – Short Range Devices***

**5.8.1 Progress report**

1. The Chairman of SRD/MG, Mr Andrew Gowans (UK) introduced the progress report of SRD/MG (FM(20)087).

**5.8.2 ERC/REC 70-03**

**5.8.2.1** **Main text**

1. The SRD/MG Chairman presented FM(20)087Annex1 with the proposed changes agreed by SRD/MG to ERC/REC 70-03 main body after reviewing the results of the public consultation.
2. WG FM approved the proposals as presented by SRD/MG for the amendment of ERC/REC 70-03 main body to go for final publication (**Annex 26**).

**5.8.2.2** **Annex 1 on non-specific SRD**

1. The SRD/MG Chairman presented FM(20)087Annex3 with the proposed changes agreed by SRD/MG to ERC/REC 70-03 Annex 1 after reviewing the results of the public consultation.
2. WG FM approved the proposals as presented by SRD/MG for the amendment of ERC/REC 70-03 Annex 1 to go for final publication (**Annex 27**).
3. The Russian Federation informed the meeting that it will submit to ECO information on national implementation of Annex 1 for updating Appendixes 1 and 3 of ERC/REC 70-03.

**5.8.2.3** **Annex 5 on road transport**

1. The SRD/MG Chairman presented FM(20)087Annex5 with some proposed changes to ERC/REC 70-03 Annex 5 for approval to be sent for the public consultation. The changes presented aim to update the notes and footnotes presented in band c1 of Annex 5 to reflect the latest status regarding automotive Short Range Radar (SRR) in the 21.65-26.65 GHz band.
2. WG FM approved the proposals as presented by SRD/MG for the amendment of ERC/REC 70-03 Annex 5 to go for public consultation (**Annex 28**).
3. The SRD/MG Chairman also noted that a new work item could be created to reflect the same changes in the corresponding ECC Decision (04)10. WG FM tasked SRD/MG to review ECC/DEC/(04)10 and to make any necessary work item proposal to WG FM.

**5.8.2.4** **Annex 9 on inductive applications**

1. The Chairman of SRD/MG introduced FM(20)087Annex6rev1 for information, which presented some proposed changes to update the introductory text in ERC/REC 70-03 Annex 9 which highlights some of the types of uses and applications that are considered within the scope of the annex. These proposals had not been agreed by SRD/MG and a call for further inputs had been made so the issue can be discussed further at the next SRD/MG meeting.
2. SRD/MG Chairman introduced FM(20)087Annex8 which sets out a proposal how administrations could show use of devices operating below 9 kHz in EFIS. In discussion it was agreed to add a new category of “NA - not applicable or not regulated“ to the designations represented in EFIS so CEPT administrations could indicate the status in their countries for use below 9kHz. ECO and EFIS/MG were tasked to implement these changes.

**5.8.2.5** **WPT**

1. The Chairman of SRD/MG, introduced the part of his progress report which covered the discussions that took place in SRD/MG on WPT.
2. He informed WG FM that no consensus could be reached at SRD/MG on the proposal to list WPT as an example of the applications under ERC/REC 70-03 Annex 9.
3. He also informed WG FM that, as previously requested, SRD/MG had produced a document which he presented as FM(20)087Annex7rev1 for information. He indicated that the document was produced to highlight some of the questions and issues that would need to be addressed in order to take forward any harmonisation measures for WPT within CEPT. After some queries for clarification the meeting noted the document.
4. The WG FM Chairman then noted that there had been some discussion in SE24 on whether WPT devices that meet the existing limits for inductive devices should be covered by their studies. He also noted that WG FM had received two input documents FM(20)61rev1 (EBU) and FM(20)081 (IARU) on the same subject and that the meeting (as indicated in its previous LS to WG SE) should clarify further what should be studied by WG SE on this particular issue.
5. There were diverging views expressed on whether WPT devices that meet the existing limits for inductive devices should be studied within WG SE. It was apparent that the majority view was that these types of devices should be studied within the work of WG SE. As a consequence, the meeting agreed to develop a liaison statement to give WG SE further guidance (**Annex 32**) to study all types of WPT applications below 30 MHz (excluding WPT-EV) independently of the Annex 9 of the ERC/REC 70-03.
6. Switzerland made a general remark on WPT: It looks like that WPT intends to use the frequency ranges that are also used by the military. This should be taken into account in the studies, the problem is then to get the information because they are mostly secret.
7. Some countries raised the issue that there may be possible legal issues regarding changing their national regulations for products that were already placed on the European market in accordance with the relevant EU Directives, especially if they have been operating without causing interference to incumbent services.
8. It was decided to task SRD/MG to prepare a questionnaire for the next WG FM meeting to get more information on WPT devices that are currently available in the European market. WG FM decided to send a liaison statement to ETSI and LPRA (**Annex 31**) to see if they could provide an update to SRD/MG before their next meeting on the types of WPT products that are already on, or planned to be placed on, the European market.
9. The intent is to collect some additional information on what type of WPT devices are already being used or developed within Europe and also what regulations and/or standards they have been placed on the market under. The intention is also to collect information in order to have an estimate of the actual numbers of the different WPT products and devices that have already been placed either on national or/and European markets. The results of the questionnaire will also be used as an input to the further work on WPT.

**5.8.3 EC permanent Mandate on SRD**

1. SRD/MG Chairman called for further contributions to this activity in preparation for the next SRD/MG meeting.

**5.8.4 EC permanent Mandate on UWB**

1. Not addressed at this meeting.

**5.8.5 HD-GBSAR in 74-81 GHz**

1. Not addressed at this meeting.

**5.8.6 Radiodetermination in 116-260 GHz**

1. Not addressed at this meeting.

**5.8.7 Other issues**

1. The LS from ETSI indicating that the work item on surveillance radars inside a ground based vehicle had been stopped was noted by the meeting.

***5.9*** ***EFIS/MG***

**5.9.1 Progress report**

1. Mr Stefan Mayer-Bidmon (D), Chairman of the EFIS/MG, presented document FM(20)080, incl. Annexes 1 to 8.

**5.9.2 Update of ERC Report 25, ECA Table**

1. A draft revised ERC Report 25 (ECA Table) was provided to WG FM for PC approval (Annexes 4 to 8 to FM(20)080).
2. WG FM tasked EFIS/MG and ECO to investigate the number of Broadcasting allocations early 2021 in order to have a basis to decide to delete the Broadcasting allocation in the band 694-790 MHz in the ERC Report 25 (ECA Table) as a major allocation.
3. WG FM approved the draft revised ERC Report 25 (ECA Table) for public consultation (**Annex 24** with appendixes for information only). The public consultation period is scheduled to end on 19th August 2020. The revised list of amendments to ERC Report 25 (ECA Table) will be published together with the draft revised ECA Table.
4. The WG FM Chairman invited all Project Teams to inform EFIS/MG, when revising an existing or preparing a new ECC Decision, about the revisions to be made in the ERC Report 25 (ECA Table).

*Statement of the Russian Federation*

*The Russian Federation proposed to keep allocation for Broadcasting Service in the frequency band 694-790 MHz, noting that this band is used nationally for digital broadcasting and is planned for such usage for the future. It was also stressed that the deletion of allocation from the ECA should be consistent with the previously established principles regarding the required number of administrations supporting such deletion.*

*The Russian Federation opposed the inclusion into the ECA of a new European footnote proposed by EFIS/MG and allowing to use of MFCN networks for UAV C&C and payload links. It was noted that at least the relevant footnote should explicitly contain the appropriate parameters for such use in order to protect other radio systems and services.*

**5.9.3 Update of ECC Decision (01)03**

1. Not addressed at this meeting.

**5.9.4 RIS models**

1. With FM(20)086Annex6, FM44 provided a RIS-Template to ECC/DEC/(19)04. WG FM decided to send this RIS-Template to the EFIS/MG for cross-check.
2. WG FM reminded all Project Teams that they should create a RIS-Template when revising an existing or preparing a new ECC Decision or Recommendation which relates to an application term.

**5.9.5 EFIS software developments**

1. Work was done to patch some errors and implement further improvements of EFIS by the ECO to ensure that the system works more correctly and efficiently (Annex 3 to FM(20)080).

**5.9.6 Other issues**

1. The ECO Report 05 provides a mapping between CEPT, ECC and EC Deliverables and application terminology specified in the EFIS ECC Decision (01)03 Annex 2. ECO proposed an automated download from the DocDB to replace the information currently listed in ECO Report 05. This way forward was agreed by WG FM.

***5.10 Radio Amateur Forum Group***

1. WG FM had received a late contribution from Romania, a proposal for a “questionnaire on the issuance of amateurs’ certificates and licences in electronic format”. WG FM requested the RA-FG to review this proposal and to advise the WG FM #97 on the appropriate action.
2. ECO introduced an amendment to T/R 61-02 (FM(20)074), the recommendation for Harmonised Amateur Radio Examination Certificate (HAREC). Ukraine had requested to be listed in Annex 2 of this recommendation, setting out their equivalence of Amateur Radio Certificate. WG FM agreed this was an editorial change and therefore requested ECO to publish this amendment with immediate effect (**Annex 30**).

# **6. Other topics and work items**

***6.1 Fixed Service***

1. Not addressed at this meeting.

***6.2*** ***Civil / Military Forum***

1. The representative from NATO informed that the draft agenda as per FM(20)056Annex35 remains the latest version for the upcoming Civil/Military meeting. There may be additional agenda items and these should be sent to NATO (Mr Poplawski or Mr Tarnow). NATO noted the meeting had been postponed to 2021. Administrations interested in hosting the meeting should contact the WG FM Chairman. NATO indicated this is usually a two-day meeting.

***6.3*** ***Review of ECC/ERC/ECTRA deliverables***

1. The general review of ECC/ERC/ECTRA deliverables was considered. The meeting reviewed the list and made proposals. An updated list for subsequent endorsement by ECC is provided in **Annex 04**.
2. ECO requested national administrations to ensure that their national implementation status is up to date.
3. Following the question raised on free circulation and use as well as on exemption from individual licensing of RMR mobile terminals (see section 5.4.3), the meeting agreed to prepare a questionnaire (**Annex 29**) to get a better view whether these provisions are still needed in the ECC Decisions. It will be submitted to ECC for final approval.

***6.4 Potential introduction of new terrestrial applications in 2483.5-2500 MHz***

1. The work item deadline has been extended, following the LS received from WG SE.

***6.5*** ***WRC 2019 follow-up activities***

1. At the last meeting of WG FM (WG FM #95, Sliema, Malta) it was noted that “With regard to the agenda items of WRC-19 it should be identified which follow-up activities are needed, as well as required amendments of regulations and the need for new regulations (ECC Decisions / Recommendations). This will be reported to the ECC Plenary.” In addition, at the most recent ECC meeting (ECC #52, Tallinn, Estonia) “WG FM, WG SE and ECC PT1 were invited to study which ECC deliverables may be impacted by the result of WRC-19.“
2. At WG FM #95, Germany volunteered to submit a corresponding proposal to WG FM #96 as a basis for discussions in WG FM. The resulting contribution FM(20)095 was introduced by Germany. It assesses the actions and possible amendments to ECC deliverables, outside updating of the ECA, WG FM might be required to do in light of the outcome of WRC-19.
3. After some discussions the meeting agreed to continue working on this document until the next WG FM meeting in October 2020, noting the need to focus on items that have a direct impact on ECC deliverables with the requirement for action. Stephen Talbot ([stephen.talbot@ofcom.org.uk](mailto:stephen.talbot@ofcom.org.uk)) and Silvio Schwarz ([silvio.schwarz@bnetza.de](mailto:silvio.schwarz@bnetza.de)) agreed to be coordinators for this work and all project team chairs as well as all administrations were invited to identify which ECC deliverable may need to be revised.
4. The WG FM Chairman will inform the ECC Plenary about the ongoing work regarding this topic.

# **7. WG FM organisation**

***7.1*** ***New work items***

**7.1.1** **New work item to revise ECC/DEC/(06)10**

1. The FM44 Chairman presented the draft new work item for the revision of the ECC Decision (06)10 (FM(20)086Annex2) The meeting agreed a Swedish proposal to add comments on the terrestrial usages and adopted the document (**Annex 09**).
2. The draft new work item is sent to ECC for final approval.

**7.1.2** **New work items in the Q & V bands**

1. The FM44 Chairman presented draft new work items prepared by the FM44 (FM(20)086Annex3 and FM(20)086Annex4). He recalled that FM44 prepared them as requested by ECC #52.
2. Sweden expressed the view that they did not support a new work item covering the harmonised FS band 37.5-39.5 GHz, given the current regulatory status of FS in the band 37.5-39.5 GHz and that FS is widely used throughout Europe. Sweden is of the view that not many countries would be expected to implement a possible ECC Decision where FSS can claim protection from FS. And an FSS designation without right of protection would not add any value for FSS compared to the current regulatory status.
3. The FM44 Chairman reported to the meeting that UK opposed the proposed work items at FM44 level, but a large number of administrations supported the draft work item taking into account that opposition was very well understood and linked to IMT issues. As a work item had been opened in PT1 on 40.5-43.5 GHz, it was well understood that these work items have to be prepared for the next WG FM, but ECC is entitled to approve them and coordinate work between PT1 and WG FM.
4. UK presented a multi-country contribution (Denmark, Finland, Latvia, Lithuania, Slovenia, United Kingdom) to remove the 40.5-43.5 GHz band from both work items (FM(20)083). The proposal was discussed and divergent views were expressed by administrations.
5. Luxembourg and Norway are of the view not to restrict the band under study at this stage.
6. The WG FM Chairman recalled that those work items cannot be approved by WG FM and will necessarily be discussed at ECC level. He proposed to send the FM44 initial documents to ECC or to upgrade the wording and invited administrations to provide proposals.
7. With respect to the proposed new work item on satellite uplinks in Q&V bands, a possible two-step approach including an ECC Report was added to the FM44 proposal (**Annex 10**). This work item is supported by Russian Federation, France, Germany, Luxembourg, Switzerland, Spain, Norway, The Netherlands, Greece and Cyprus. Administrations of Finland, Latvia, Lithuania, Sweden and UK objected to the WI since it mentions the band 42.5-43.5 GHz.
8. With respect to the proposed new work item on satellite downlinks in Q&V bands, a revised scope was prepared based on proposals made by some administrations (**Annex 11bis**). Administrations of Russian Federation, France, Germany, Luxembourg, Switzerland, Spain, Norway, The Netherlands, Greece, Cyprus agreed to adopt the document as a compromise. Administrations of Finland, Latvia, Lithuania, Sweden and UK objected to the WI since it mentions the band 40.5-42.5 GHz.
9. As a consequence, the WG FM Chairman decided to raise the subject to ECC for further discussion and final decision, taking into account coordination with PT1 where applicable. The draft work items are sent to ECC: **Annex 10** on satellite uplinks; **Annex 11** on satellite downlinks as prepared by FM44; and **Annex 11bis** with a revised scope drafted at WG FM based on proposals made by some administrations.
10. WG FM noted that countries in the multi-country contribution will submit their proposal to ECC.

***7.2*** ***Work program***

1. The WG FM work program is available at <https://eccwp.cept.org/>.
2. ECO introduced a copy of the Work Programme Database FM(20)076. WG FM reviewed the list of Work Items with particular attention to completion dates. WG FM revised the Work Items where necessary. The ECO was tasked with updating the Work Programme Database.

***7.3*** ***Next meetings***

1. WG FM invited the meeting to note the calendar of the next meetings which is available at <https://www.cept.org/ecc/groups/ecc/wg-fm/client/meeting-calendar/>.
2. He also invited CEPT administrations to consider the opportunity to host a WG FM meeting in 2022 and beyond. Contact should be taken with the WG FM Chairman and/or the WG FM Secretary.
3. The next WG FM meetings are planned as follows:
   * WG FM #97, 19-23 October 2020, Dublin, Ireland
   * WG FM #98, 8-12 February 2021, Athens, Greece
   * WG FM #99, 25-28 May 2021, tbd, Sweden
   * WG FM #100, 4-8 October 2021, Berlin, Germany

***7.4*** ***WG FM and FM56 chairmanship***

1. WG FM has two vacant vice-chair positions: one from WG FM #96 and one from WG FM #97.
2. The WG FM Chairman received two nominations for the WG FM vice-chairmanship in this order: Mr Daniel Bielefeld (Germany) and Mr Alexey Shurakhov (Russian Federation). The two candidates introduced themselves.
3. Mr Daniel Bielefeld was appointed as WG FM vice-chair from WG FM #96 by acclamation. He took immediately over as second WG FM vice-chair during this meeting.
4. Mr Alexey Shurakhov was appointed as WG FM vice-chair from WG FM #97 by acclamation.
5. The FM56 chairmanship is vacant, following the appointment of Mr Vincent Durepaire (France) as WG FM Chair.
6. The WG FM Chairman informed the meeting that he had not received any nomination of a candidate for the FM56 chairmanship from a CEPT administration. But he received the application of Mr Dirk Schattschneider (Deutsche Bahn, state-owned railway company), with the blessing of the German administration. Mr Schattschneider introduced himself.
7. The WG FM Chairman informed the meeting that in general from his point of view candidates for all entities of WG FM should preferably be provided by CEPT administrations. However, if no nomination is available from any administrations then another solution should be found which is acceptable for WG FM.
8. The meeting appointed Mr Dirk Schattschneider as Chairman of FM56 by acclamation. As former FM56 Chairman, the WG FM Chairman wished him a successful chairmanship with FM56.

# **8.** **Any other business**

1. The meeting noted the LS from ITU-R WP 5D on IMT for PPDR.

# **9.** **Summary of the deliverables**

***9.1 Approved by WG FM for publication***

1. Questionnaire to CEPT administrations on Iridium MSS licences (**Annex 07**)
2. Questionnaire to CEPT administrations on Globalstar MSS licences (**Annex 08**)
3. Questionnaire to CEPT administrations on earth-stations recorded on "Ship Station Licence" (**Annex 25**)
4. Revised Main text of ERC Recommendation 70-03 on SRD (**Annex 26**)
5. Revised Annex 1 of ERC Recommendation 70-03 on SRD (**Annex 27**)
6. Editorial update of T/R 61-02 on Harmonised Amateur Radio Examination Certificate (**Annex 30**)

***9.2*** ***Approved by WG FM for public consultation***

1. Draft ECC Recommendation on Frame structures to facilitate cross-border coordination of TDD MFCN in the frequency band 3400‑3800 MHz (**Annex 05**)
2. Draft amended Annexes 1 and 2 of ERC/DEC/(99)06 on the harmonised introduction of satellite personal communication systems operating in the bands below 1 GHz (**Annex 06**)
3. Update of the ECA Table (ERC Report 25) (**Annex 24**)
4. Draft revision of Annex 5 of ERC Recommendation 70-03 on SRD (**Annex 28**)

***9.3*** ***Endorsed by WG FM for publication by ECC***

1. Draft CEPT Report 74 on FRMCS (**Annex 20**)
2. Draft questionnaire on free circulation and use as well as on exemption from individual licensing (**Annex 29**)

***9.4 Endorsed by WG FM for public consultation by ECC***

1. Draft CEPT Report #B on WAS/RLAN at 6 GHz (**Annex 13**)
2. Draft ECC Decision on WAS/RLAN at 6 GHz (**Annex 14**) and its cover note (**Annex 15**)
3. Draft ECC Decision on RMR (**Annex 17**) and its cover note (**Annex 19**)
4. Draft CEPT Report #B on FRMCS (**Annex 18**)

***9.5 New work items and review of ECC Decisions***

1. Draft new WI to revise ECC/DEC/(06)10 on MSS 2 GHz (**Annex 09**)
2. Draft new WI for a new ECC Decision on satellite uplinks in Q&V bands (**Annex 10**)
3. Draft new WI to revise ECC/DEC/(00)02 and (02)04 on satellite downlinks in Q&V bands (**Annex 11** as prepared by FM44 and **Annex 11bis** with a revised scope drafted at WG FM)
4. Review of ECC Decisions (**Annex 04**)

***9.6 LS out***

1. LS to WG SE on confirmation of PSD and OOBE limits (**Annex 16**)
2. LS to ETSI on enhanced selectivity for MFCN BS at 2 GHz (**Annex 21**)
3. LS to ETSI on wideband RMR receiver characteristics (**Annex 22**)
4. LS to WG SE on maritime GSO ESIM (**Annex 23**)
5. LS to ETSI and LPRA on WPT - call for inputs (**Annex 31**)
6. LS to WG SE on WPT studies (**Annex 32**)

# **10.** **Minutes of the meeting**

1. WG FM approved the minutes of the meeting. It was agreed that the WG FM Chairman and the Secretariat could improve the text and correct mistakes as necessary following the meeting.
2. It was agreed that the WG FM Chairman would prepare a report based on the conclusions of this meeting and present it to the next ECC Plenary meeting.

# **11.** **Closure of the meeting**

1. The WG FM Chairman thanked all participants for their contributions and theirs spirit of compromise leading to the success of meeting.
2. The meeting warmly thanked Mr Stephen Talbot (UK) for his continuous support and his work as vice-chairman over the past six years.
3. The meeting warmly thanked Mr Edgard Vangeel for his work as ETSI liaison officer throughout the past 19 years and wished him a fun-filled and relaxing retirement.
4. The meeting thanked Mr Vincent Durepaire (France) for his work as FM56 Chairman.
5. The WG FM Chairman also thanked all the sub-group chairs, the drafting groups, the ECO, his vice-chairmen and his technical secretary for their valuable support during this meeting.
6. The WG FM Chairman recalled the memory of Alan March whose funeral took place on the on Friday the 12th of June 2020: “May Alan rest in peace and will always be remembered.”
7. With that the WG FM Chairman wished all participants a nice summer vacation.

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