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| Working Group FM | | Doc. FM(18)190 | | |
| 92nd Meeting | | | |  |
| Vilnius / Lithuania  24 – 28 September 2018 | | | |  |
|  | | | |  |
| Date issued: | | 06 October 2018 | | |
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| Group membership required to read? (Y/N)  **N** | | | | |

**1. Opening of the Meeting**

1. The WG FM Chairman, Mr Thomas Weilacher (D), opened the 92nd meeting of WG FM and welcomed the participants to Vilnius.
2. He thanked the Communications Regulatory Authority of the Republic of Lithuania (RRT) for inviting WG FM.
3. Mr Feliksas Dobrovolskis, Director General of RRT, welcomed the WG FM delegates to Lithuania.
4. He highlighted the importance of frequency management in a global and regional framework, where CEPT is playing an important role.
5. Further he mentioned that there are many important topics on the agenda for this WG FM meeting such as SRD, RLAN at 6 GHz, WPT and future spectrum for railways or cross border issues.
6. Finally Mr Dobrovolskis wished the group a smooth meeting and proposed to also enjoy Vilnius if time permits.
7. The meeting was attended by 90 delegates from 33 CEPT administrations and 15 company representatives, international organisations (LoU/MoU partners), including EC, ECO and ITU. The list of participants is given in **Annex 02**.
8. The list of input documents is in **Annex 03**. The list of abbreviations is in **Annex 04**.

**2. Adoption of the agenda, schedule of work**

1. The WG FM Chairman introduced the draft agenda and the schedule of the meeting, as provided in document FM(18)114R4. The references to the latest contributions were added, then the agenda was adopted without further amendments and can be found in **Annex 01** of these Minutes.

**3. Report from ECC entities**

***3.1 Report from ECC Plenary***

1. The WG FM Chairman introduced the meeting report from the 48th ECC meeting, 03 – 06 July 2018, in Rome / Italy (FM(18)125) and highlighted the most relevant aspects. The WG FM meeting took into account the relevant plenary decisions.
2. Document FM(18)125 - Annex 4 (overview on chairmanship) was also introduced. The other 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 referred to the meeting report of the 80th WG SE meeting, 10 - 14 September 2018, in Valladolid / Spain (FM(18)186). The meeting report was not introduced in detail, because WG SE had provided liaison statements for the most relevant items. However, he indicated that the WG FM meeting would refer to specific sections in the meeting report if necessary. The liaison statements from WG SE were introduced and discussed under the relevant agenda items.

**4. Work Items in Progress within PTs, FGs and MGs**

***4.1 FM PT 22 (Monitoring)***

**4.1.1 Progress Report**

1. The Chairman of FM22, Mr Ralf Trautmann (D), presented doc. FM(18)144, the progress report of the Project Team.
2. FM 22 proposed a new work item FM22\_36 on the revision of ERC Recommendation 54-01 on “Method of measuring the maximum frequency deviation of FM broadcast emissions in the band 87.5 to 108 MHz at monitoring stations”. With the support of France, Germany, Greece, Lithuania and Portugal, the meeting approved the new [work item](https://eccwp.cept.org/WI_Detail.aspx?wiid=685) with a few modifications (**Annex 24**).

**4.1.2 HF monitoring campaign**

1. The automated HF monitoring campaign is continued as usual.

**4.1.3 Radio interference statistics**

1. No action.

**4.1.4 Interference at meteorological radars caused by 5 GHz RLANs**

1. The FM22 Chairman reported in doc. FM(18)144 - section 3.1 that EUMETNET raised several concerns regarding the handling and solving of interference cases. EUMETNET also indicated possible inconsistencies in the answers to the FM22 questionnaire on interference cases in 2017. The last FM22 meeting concluded that the 18 administrations identified in doc. FM22(18)44 will respond to EUMETNET.
2. The FM22 Chairman was requested to report to WG FM in February 2019 on these activities.
3. ECO mentioned that some results of an ADCO/RED market surveillance campaign on 5 GHz RLANs would become available at the end of October 2018 and will be reported in TCAM in December 2018.

**4.1.5 Work related to ITU-R**

1. None.

**4.1.6 Revision of ECC/REC/(12)03 (field strength measurements within 400 - 6000 MHz)**

1. The draft revision of ECC Recommendation (12)03 is contained in doc. FM(18)144 - Annex 1.
2. The FM22 Chairman introduced the draft revision of ECC Recommendation (12)03 on Field strength measurements within 400 - 6000 MHz including the extension of the frequency range to 30 – 6000 MHz. He explained the shortcomings of the existing Recommendation and the structure of the revised version.
3. He also mentioned that ECC Recommendation (16)04 on the determination of the radiated power from FM sound broadcasting stations through field strength measurements in the frequency band 87.5 – 108 MHz can be suppressed once the revision of ECC Recommendation (12)03 is approved.
4. The meeting approved the draft revision of Recommendation (12)03 for public consultation (**Annex 25**). The clean version will be used within the consultation process.

**4.1.7 Mobile spectrum monitoring**

1. The FM22 Chairman introduced doc. FM(18)144 - Annex 2, the draft ECC Report on Mobile spectrum monitoring units.
2. The meeting approved draft ECC Report 293 on mobile spectrum monitoring units for public consultation (**Annex 26**).

**4.1.8 BEM measurements**

1. Doc. FM(18)123 contains an LS from PT1 on TRP measurements including an annexed LS from PT1 to 3GPP RAN 4. The meeting noted the document.

**4.1.9 Questionnaire on GNSS jamming**

1. Document FM(18)144 - Annex 3, the draft questionnaire on GNSS jamming was discussed.
2. The Russian Federation and the Czech Republic questioned the benefit of the questionnaire and further steps after the answers are available.
3. France introduced doc. FM(18)170, providing further information on the motivation for all questions in the questionnaire.
4. With these modifications the meeting approved the questionnaire for submission to administrations (**Annex 27**) with a link to an explanatory paper (**Annex 28**).

**4.1.10 Other Issues**

1. None.

***4.2 FM PT 44 (Satellite issues)***

**4.2.1 Progress Report**

1. Mr Amar Saidani (France), the FM44 Chairman, presented the progress report of the PT as in document FM(18)145.

**4.2.2 M2M/IoT via satellite**

1. The PT Chairman presented an overview of the draft ECC Report on M2M/IoT via satellites (document FM(18)145 - Annex 12). As suggested by the SRD/MG Chairman, the draft ECC Report will be submitted to SRD/MG and updated by FM44 before the next WG FM meeting.
2. In order to finalise the document, the PT Chairman encouraged the many CEPT administrations that have ITU filings and M2M/IoT satellite projects with start-up companies or universities to contribute to the next FM44 meeting by providing input to the draft ECC Report.

**4.2.3 Airborne earth stations, 12.75 – 13.25 GHz**

1. The PT Chairman explained that a preliminary draft ECC Decision had been prepared and discussed in FM44. He indicated that a web meeting dedicated to the preparation of this draft ECC Decision, especially for Appendix 30B RR issues, is organised for the 23rd of October 2018.

**4.2.4 New ECC Recommendation on “Guidance and method of calculating HIRF level from high e.i.r.p. fixed earth station located outside of the wedge shaped area of an airport or helipad”**

1. The PT Chairman informed the meeting that a preliminary draft of this new ECC Recommendation will be discussed at the next FM44 meeting.

**4.2.5 Other issues**

1. The meeting noted the on-going activities of SE40 related to work-item FM44\_34 and the draft update of ECC Report 271 dealing with the SPACE X satellite constellations (doc. FM(18)184) FM44 will consider the information at its next meeting.

***4.3 FM PT 51 (PMSE)***

**4.3.1 Progress Report**

1. The Chairman of FM51, Mr Lindsay Cornell (UK), presented the progress report from the Project Team (doc. FM(18)146) which covered the 30th meeting of FM51, held at the invitation of the Netherlands administration in Amersfoort, 13 and 14 September 2018.
2. Mr Cornell reported that FM51 has followed the decision of the 91st meeting of WG FM and so has paused work on work item FM51\_10 on the 960 - 1164 MHz topic, dedicating the 30th FM51 meeting to resolution of the comments to the public consultations for draft ECC Reports 285 and 286.
3. FM51 has reviewed its work programme and will begin a revision of ECC Report 204 "Spectrum use and future requirements for PMSE" which was approved in February 2014. This work comes under work item FM51\_01.
4. The next meeting of FM51 will be held on 12 - 13 December 2018, at BNetzA in Bonn.

**4.3.2 Spectrum for PMSE**

**4.3.2.1 Low power audio PMSE in the band 960 – 1164 MHz**

1. The FM PT51 Chairman reported that there has been no further activity in FM PT51 on this work item. However, following the outcome of the last WG FM meeting, the topic had been discussed at ECC in July 2018 and WG FM and WG SE had been tasked to contribute further information to the ECC meeting in October 2018.
2. France introduced doc. FM(18)156, which provided some information on the differences of aeronautical use of the bands 960 - 1164 MHz and 2700 - 2900 MHz: one of the key issue is the pilot environment impact of interference which only affects the 960 - 1164 MHz band. The input included links to an informative video (English version: <https://youtu.be/Gq-E-xBRuiA>, French commented version: <https://youtu.be/QNO9I2hwjqM>).
3. France introduced doc. FM(18)157, which provides a history of the work on the 960 - 1164 MHz band and proposes to amend work item FM51\_10. France explained that they had a concern about the parallel process that was agreed, and gave the view that it is too early for technical studies in WG SE. France also has concerns about the demands placed on resources in WG SE to carry out the studies. The proposal changes the output of work item FM51\_10 from an ECC Report to a report to ECC, and proposes a reduction in the scope of the technical studies in WG SE and changes the output of work item SE07\_28 from an ECC Report to a report to WG FM. FM51 would be tasked with streamlining the report to WG FM from May 2018, whilst WG FM would produce a short report to ECC with annexes containing the proposed output from FM51 and SE7.
4. Germany introduced doc. FM(18)167, which addresses the issues raised at ECC and proposes to maintain work item FM51\_10 and SE07\_28. Germany explained that the current work item in WG FM lead to an ECC Report that contains both the legal and regulatory issues and the results of the technical studies from WG SE: as such there is an open and transparent process with the public consultation. Germany also emphasised that any future work, for example harmonisation, could only happen after discussion and the approval of a new work item.
5. The WG FM Chairman informed the meeting that it was not necessary to open doc. FM(18)179 as it simply refers to the LS from SE7 to ECC, copied to WG FM as doc. FM(18)185.
6. The WG FM Chairman introduced doc. FM(18)185. He summarised the content, noting that no agreement had been reached on propagation models, and so on, and that the topic is clearly very controversial.
7. Switzerland and Italy stated that they support the proposal from France, and confirmed again that they wish the work item to be stopped.
8. ICAO expressed a concern about an apparent disconnect in the studies of the 960 - 1164 MHz band for PMSE. Aeronautical radionavigation systems within the band operate in accordance with very stringent international performance provisions, requiring availabilities of those systems to be measured with numbers like 99.9999%. ICAO noted that some of the on-going studies postulate the use of statistical methods, using median values at worst, and 1% of the time at best. This approach is not compatible with the requirements for the incumbent aeronautical radionavigation systems.
9. ICAO noted that all Member States have undersigned an MOU with ICAO, obliging the Member States to a regulatory framework for safety oversight, to ensure the continued safe operations of international aircraft within its airspace. ICAO further noted that due to the provisions of those safety oversight regulations, UK Ofcom is still finding it difficult to complete the safety support assessment of PMSE operations in the 960 - 1164 MHz band, as a required first step to enable Air Navigation Service Providers and Aeronautical Operators in the UK to develop the required safety cases and assess any potential operational mitigations.
10. Finally, ICAO expressed a concern that, although a number of states have expressed interest in studying the 960 - 1164 MHz band for PMSE use, the majority of those states are not participating in the on-going FM51 or SE7 studies.
11. Sweden stated that, although administrations have initially supported starting the work, that position may have changed. Sweden supported the proposal from France to downsize the task of SE7 and to ensure that the resources of FM51 were not over spent. Sweden also indicated that the FM51 activities should be finalised until May 2019.
12. APWPT stated that they support the ongoing studies.
13. Greece stated that they support the proposal from France on the way forward. Greece also noted that 1350 - 1400 MHz cannot be used for audio PMSE in Greece due to military uses.
14. EUROCONTROL reminded WG FM that they are an intergovernmental organisation with 41 Members and 2 Comprehensive Agreement States working for the public interest to ensure safe and efficient air traffic. They stated that the aeronautical systems in use in the 960 - 1215 MHz band are safety critical. They reminded that it is already possible to purchase on the internet illegal PMSE equipment using the 960 - 1215 MHz band. They invited administrations to take precautions to avoid repeating the same problem as the meteorological radars are currently facing from RLAN. Highlighted the importance of precise communication on the subject in order not to mislead administrations. For instance in the UK, the current PMSE trials make use of the 960 - 1164 MHz band; the PMSE safety case is not approved and by no means it can be used at national level.
15. In APWPT’s view, the equipment referred to above is not regarded as “PMSE equipment”. For one the equipment referred to does not conform to ETSI harmonised standard EN 300 422 which is the reference document for professional Audio PMSE equipment.
16. The Netherlands stated that they understood the important nature of the existing services in the 960 - 1164 MHz band. But they were also aware that wireless microphones were now available which operate in the band and that those products are in use in the UK. The Netherlands stated that it is important for them to understand the impact of operation of audio PMSE equipment in the band, and so they support the proposal from Germany to continue the work item as previously agreed.
17. The UK stated that they support the proposal from Germany. The output of this work item is not for a recommendation but for information.
18. The FM51 chairman noted that doc. FM(18)157 suggested that finalising the work will be simple, but the experience thus far in FM51 meetings and in other CEPT meetings suggests that this is unlikely to be the case.
19. Germany said that it is important not to mix the discussion of the 1350 - 1400 MHz band use for audio PMSE with that for 960 - 1164 MHz.
20. France disagreed, saying that a justification to begin work on the 960 - 1164 MHz band had been the uncertainty of availability of the 1350 - 1400 MHz band.
21. The WG FM Chairman said that WG FM is tasked with providing a view to ECC and so it is not appropriate for WG FM to change the current process. Therefore, the meeting report should clearly present the two options that have been proposed and the discussion in WG FM to enable further consideration in ECC. The two options which were presented and discussed are tabulated below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Current Work Programme** | **Status** | **Proposal from France** | **Proposal from Germany** |
| FM51\_10  Output: ECC Report, other  Target: 15-05-2020  Scope: Consideration of possible usage of low power audio PMSE in the band 960-1164 MHz |  | Output: Report to ECC  Target: May 2019  Scope: Consolidation of CEPT investigations on possible usage of low power audio PMSE in the band 960-1164 MHz | No change. |
| 1. Identify and scope out the requirements for possible compatibility and sharing studies by WG SE to be presented to the 87th meeting of WG FM for consideration | 1. Complete: LS sent to WG SE |  |  |
| 2. Carry out preliminary investigati**o**ns on regulatory and legal issues and on the feasibility in the band by May 2018 - in a draft internal report to WG FM | 2. Complete: Report provided to WG FM #91 in May 2018 |  |  |
| 3. Produce ECC Report | 3. Not yet started: requires output from WI SE07\_28 | 3. Report would be produced by WG FM with two annexes: Annex 1 from FM51 as a "streamlining" of item 2, based on the Executive Summary; Annex 2 from SE07 is the output from the proposed revised task for SE07 (see below). |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Current Work Programme** | **Status** | **Proposal from France** | **Proposal from Germany** |
| SE07\_28  Output: ECC Report  Target: 01-09-2019  Scope: To study the possible use of low power audio PMSE (excluding airborne use) in the aeronautical frequency band 960-1164MHz. | In progress | Output: Report to WGFM  Target: 05-2019  Scope: Overview of sharing issues of low power audio PMSE (excluding airborne use) with aeronautical applications in the frequency band 960-1164 MHz.  (Note: Objective should not be to try and demonstrate technical compatibility or incompatibility, as it would deliver a very incomplete picture on the matter of the effective “usability” of the band by audio PMSE.) | No change. |

**4.3.2.2 Body effect of handheld and body worn audio PMSE equipment**

1. The FM51 Chairman reported that the PT had completed the review of comments from the public consultation of draft ECC Report 286 and had prepared the review table, doc. FM(18)146 - Annex 1. Extensive changes to the draft Report were proposed by France and these comments required extensive discussion to resolve. Nevertheless, FM51 was able to agree the resolution table.
2. The FM51 Chairman explained the nature of the substantive comments.
3. France introduced doc. FM(18)188 which detailed concerns related to publication of ECC Report 286 and stated that the draft Report was not yet ready for publication and should be sent to WG SE for comments since FM51 does not have the necessary expertise.
4. The FM51 Chairman noted that the work item was approved 2 years ago and that France has participated in FM51 throughout the development of the draft ECC Report.
5. The UK reminded the meeting that the period of the public consultation had been extended at the request of France at the last WG FM meeting, and that there was no need for further delay. The UK proposed to proceed to publication of draft ECC Report 286.
6. This position was supported by APWPT who elaborated that the Report was the conclusion of long standing work in SE7 to provide measurement data for wireless audio devices. The measurements were made according to the procedure agreed in SE7. APWPT further stated that France had participated in the WG SE work: the term "body loss" has been used in earlier studies; the term "body effect" was adopted for later work.
7. Germany stated that they support final publication. Extensive measurements and simulations have been performed and the data has been carefully analysed; the results of this considerable work are presented in the draft Report.
8. Switzerland asked for publication to proceed immediately.
9. The Russian Federation asked France to explain how their difficulty with the draft Report could be resolved.
10. The UK noted that there has been good co-operation between WG FM and WG SE on this matter.
11. The WG FM Chairman summarised the situation: a lot of work has been done in relation to draft ECC Report 286 (he also reflected that it is sometimes difficult to receive contributions, but in this case there has been a lot of input and that failing to publish could be demotivating to future contributors); that the involvement of WG SE within a short timeframe is not feasible and with WRC-19 the final approval would not be possible before 2020; as an ECC deliverable, it can be revised in future if issues are exposed. Therefore the WG FM Chairman proposed that the draft ECC Report 286 should be approved for publication as proposed by FM51.
12. The meeting finally approved ECC Report 286 for publication (**Annex 58**).

Statement from France

*France expressed major concerns about the publication of the Draft ECC Report 286 in its current state and that WG FM should formally ask WG SE for its opinion on this Report in order to allow more comprehensive technical analysis and consensus.*

*France recognizes that significant work has been done to perform measurements of audio PMSE in different configurations in anechoic chambers. However, the conclusions based on their present technical analysis cannot be agreed without understanding some discrepancies in measurement results. There also remain open questions on the usability of the newly introduced concept of “body effect” defined with reference to a dipole antenna in comparison with that of a “body loss”. It has besides to be emphasized that the notion of “body effect” cannot be enforced in the regulations.*

*The body loss has consequences on the other usages sharing spectrum with wireless microphones and needs as such careful and neutral handling. From France’s point of view, conditions to enable a technical contradictory debate were not met, given the limited number of contributors and the core objectives of FM51 (handling spectrum demand for PMSE).*

*France did not oppose to the adoption of Draft ECC Report 286 in the absence of support expressed by other administrations during WG FM meeting. France is however of the view that the work performed in FM51 cannot be directly used by WG SE and will need to be completed by further investigations by WG SE on the impact provided by human bodies in various configurations. The aim would be to allow acceptance for the use of measurements results in the context of compatibility studies performed within WG SE.*

**4.3.2.3 Best practises for video PMSE in the 2.7 – 2.9 GHz band**

1. The FM51 Chairman reported that the PT had completed the review of comments from the public consultation of draft ECC Report 285 and has prepared the review table, doc. FM(18)146 - Annex 3. The majority of the comments were editorial in nature. France had proposed a new annex containing information relating to the authorisation process in France. This annex was accepted into the draft report and corresponding editorial modifications were made.
2. The WG FM Chairman introduced the revised draft ECC Report 285, doc. FM(18)146 - Annex 4.
3. The meeting finally approved ECC Report 285 for publication (**Annex 19**).

**4.3.3 Work related to ITU-R**

1. The FM51 Chairman reported that some progress in ITU-R was expected before the next meeting of FM51.

**4.3.4 Other issues**

1. None.

***4.4 FM PT 54 (PMR, PAMR)***

**4.4.1 Progress Report**

1. The FM54 Chairman, Mr Kuha Sithamparanathan (UK), presented the group’s progress report, covering meetings held in Helsinki (FM54#19) in June 2018, Vienna (FM54#20) in September 2018 and two web meetings in August 2018.

**4.4.2 Draft ECC Report 292 on current use, future opportunities and guidance to administrations for the 400 PMR/PAMR frequencies**

1. See **section 4.4.3**.

**4.4.3 Draft new ECC Decision (19)02 on land mobile systems and draft ECC Report 292**

1. On introduction and review by the plenary with respect to the above two headings, 4.4.2 and 4.4.3, WG FM approved the following draft deliverables for public consultation:

* new draft ECC Report 292 on the current use, future opportunities and guidance to administrations for the 400 MHz PMR/PAMR frequencies (**Annex 05**);
* new draft ECC Decision (19)02 for land mobile systems in the frequency ranges 68 - 87.5 MHz, 146 - 174 MHz, 406.1 - 410 MHz, 410 - 430 MHz, 440 - 450 MHz and 450 - 470 MHz (**Annex 06**), which also will withdraw the ECC Decisions (04)06 and (06)06.

1. For further ECC deliverables in the responsibility of FM54, see also **agenda items 5.2.1, 5.2.2 and 5.2.3**.

**4.4.4 Revision of Recommendation T/R 25-08**

1. On introduction and review by the plenary, WG FM approved the revised Recommendation T/R 25-08 for publication (**Annex 11**).

**4.4.5 Work related to ITU-R, Contribution to Revision of Report ITU-R SM2351-2 on Smart Grid utility management systems**

1. WG FM noted that the CEPT contribution was received well. The EUTC representative who is fronting the CEPT contribution continues to engage and provide input to this Report via the WP1A on-line Rapporteurs Group. No further action is required from WG FM.

**4.4.6 Other issues**

1. As a result of the work to introduce broadband systems in the band 410 - 430 MHz for both PMR/PAMR and PPDR purposes, an LS was adopted to inform and make ETSI/3GPP aware that standardization work was likely to be required soon. It was agreed that the LS would be sent just after the two-week administration consultation phase of the public consultation process for the related draft deliverables (**Annex 07**).
2. WG FM also agreed to start the public consultation process on the package of related FM 54 deliverables as early as 27 September 2018. See also related **sections 5.2.1, 5.2.2 and 5.2.3**.
3. FM 54 will meet in London in December 2018 to handle responses to the five deliverables that would have been consulted on. Web meetings may be required depending on responses received to the public consultation process and any outstanding matters.
4. FM54 will seek final approval of the deliverables post PC at the 93rd WG FM plenary and then seek to close the PT down based on the conclusion of all work items set out.

***4.5 FM PT 56 (RMR)***

**4.5.1 Progress Report**

1. The FM56 Chairman, Mr Vincent Durepaire (F), presented documents FM(18)148 and 176.

**4.5.2 Draft ECC “Report A” (draft ECC Report 294) on spectrum needs for future railway communication**

1. The latest draft ECC Report #A was presented to WG FM and proposed for public consultation approval. WG FM agreed to send the draft ECC Report 294 (**Annex 30**) to public consultation on 27 September 2018.
2. In this perspective, WG FM agreed to send an LS to ETSI and UIC (**Annex 13** (with Annex 31 attached)) to inform them about the next steps.

**4.5.3 Studies on RMR**

1. As decided at its previous meeting, WG FM discussed the exact range to be studied within   
   2290 - 2400 MHz. Feedback from some administrations showed a tendency in favour of the 2290 - 2300 MHz band but no consensus was reached. Thus WG FM agreed that the whole 2290 - 2400 MHz range should be studied.
2. Upon FM56’s proposal, WG FM agreed to send an LS to GSMA and ETNO (**Annex 29**) to invite them to participate to the ongoing work on RMR.

**4.5.4 Work related to ITU-R (WRC-19)**

1. None.

**4.5.5 Mandate to CEPT on spectrum for FRMCS**

1. The EC Counsellor Mr Giuseppe Rizzo introduced the EC Mandate on FRMCS (doc. FM(18)118).
2. On the basis of this Mandate, the FM56 Chairman proposed a work plan to be endorsed by WG FM. Following the discussion, the work plan was amended and agreed by WG FM (**Annex 31**).
3. This work plan was then translated into two liaison statements which update the scope of the studies and their timeline: one to PT1 (**Annex 14**) and one to WG SE / SE7 (**Annex 15**).

**4.5.6 Other issues**

1. None.

***4.6 FM PT 57 (WAS/RLAN at 6 GHz)***

**4.6.1 Progress Report**

1. The FM57 Chairman noted that the group had held three web meetings since the last WG FM meeting. These meetings were primarily concerned with production of the CEPT Interim Report as required under the EC Mandate to CEPT. This was provided in doc. FM(18)149 - Annex 1. With respect to the Interim Report, the PT Chairman reflected that no conclusions could be drawn from the Interim Report. The study work was continuing in SE45 and an extension to the respective work item had been approved in WG SE (WG SE #80).

**4.6.2 Draft Interim CEPT Report (Mandate on WAS/RLAN in 5925-6425)**

1. In discussions some amendments were approved and are reflected in **Annex 12**. This CEPT Interim Report will be presented to ECC#49, for adoption and submission to the Radio Spectrum Committee meeting in December 2018. In discussions it was agreed to align the work item FM57\_01 with the Mandate. The public consultation for the first CEPT Report is foreseen by WG FM for public consultation approval in July 2019 (instead of March 2019). This was acknowledged by the EC Counsellor.

**4.6.3 Other issues**

1. Document FM(18)168 (Proposal for work item on ECC Decision (04)08 on 5 GHz WAS-RLAN – France) was introduced. The proposal suggested that an update to this Decision was timely (last reviewed in 2009) and this would take account of some of the subsequent changes to the technical and regulatory environment.
2. In discussions it was pointed out that decisions under WRC-19 AI 1.16 and Issue 9.1.5 would have a direct linkage to any revision and therefore any proposed changes would have to take account of WRC-19 conclusions on both matters. Work item [**FM57\_02**](https://eccwp.cept.org/WI_Detail.aspx?wiid=687), in **Annex 63** was supported by France, Czech Republic, Norway, Germany, Switzerland.
3. The Russian Federation proposed to delay the revision of ECC Decision (04)08 until WRC-19 to avoid overlapping with CPG-19 studies on AI 1.16 and 9.1.5.
4. From a practical handling aspect, the meeting agreed to assign this task to FM57. As a result, the title and Terms of Reference for the group were revised accordingly (**Annex 65**).

Statement from the Russian Federation

*The Russian Federation is on the view that revision of ECC Decision (04)08 should be aligned with WRC-19 results on AI 1.16 and 9.1.5 taking into account Radio Regulations provisions agreed by WRC-19 for RLAN in 5 GHz range as well as ITU-R Reports in regards to RLAN characteristics and studies.*

***4.7 Short Range Devices / Maintenance Group (SRD/MG)***

**4.7.1 Progress Report**

1. Mr Thomas Weber (ECO, Chairman of SRD/MG) presented the progress report of SRD/MG as in document FM(18)143. WG FM endorsed the actions of the SRD/MG on the items reported under section 4.7 of the present report.

**4.7.2 ECC Decisions**

1. See **sections 4.7.4.2 and 5.2.7**.

**4.7.3 Status of ERC/REC 70-03**

1. WG FM approved revisions of the Annexes 2 and 3 of ERC Recommendation 70-03 for publication (**Annexes 52 and 53**).
2. WG FM approved the new Annex 13 of ERC Recommendation 70-03 (medical data acquisition) for publication (**Annex 51**).
3. WG FM approved revisions of the Annexes 3, 5, 9, and 10 of ERC Recommendation 70-03 for public consultation (**Annexes 60, 55, 56 and 57**).
4. Finland indicated to possibly comment on the draft revised Annex 3 of ERC Recommendation 70-03 with regard to the 600 kHz minimum bandwidth restriction in entries a1) and a2). It was explained that this restriction was agreed to be added in SRD/MG in line with the compatibility studies.
5. Document FM(18)138 contains a liaison statement from ETSI ERM TG28 to SRDMG in response to the call for comments on the proposal to simplify entries h1.1 to h1.7 of Annex 1 of ERC/REC 70-03 related to the 863 - 870 MHz band. This document was already considered by SRD/MG.
6. WG FM agreed to attach an explanatory paper (**Annex 46**) to these Minutes which can be used by CEPT administrations to better understand and analyse the intended changes in Annex 1 of ERC/REC 70-03.
7. WG FM postponed the approval for public consultation of Annexes 1, 2, and 11 of ERC Recommendation 70-03. WG FM agreed guidance to SRD/MG to be used for drafting of the entries for the frequency bands 870 - 876 MHz and 915 - 921 MHz (**Annex 47**).
8. With this information and guidance to SRD/MG, it is the clear intention to approve the draft revised Annexes 1, 2, and 11 of ERC Recommendation 70-03 at the next WG FM meeting for public consultation. SRD/MG is tasked to organise the work accordingly, so that the publication of the changes will not be later than approved at WGFM#94 in June 2019.
9. France underlined that considerable work has been performed towards a “simplification” of 863 - 870 MHz in Annex 1 of ERC/REC 70-03 since end of 2017 and that SRD/MG has received clear positive feedback from ETSI ERM TG28 in this exercise. In parallel, France recognizes that discussions in WG FM have shown that the proposals for “alignment” need further careful consideration to reflect the existing implementations by some administrations and that public consultation should be postponed. The postponing of the proposed “simplification” of Annex 1 of ERC/REC 70-03 is however a missed opportunity. SRD/MG should ensure that this delay will not hinder positive discussion on the proposals for “alignment” with the EC framework.
10. An extraordinary SRD/MG meeting to draft the revisions of Annexes 1, 2 and 11 of ERC Recommendation 70-03 is scheduled for the 12 - 13 November 2018 (Copenhagen, ECO).
11. WG FM endorsed the SRD/MG proposal for studies within the 8th update cycle on a potential revision of the 2.4 GHz entry in Annex 3 of ERC Recommendation 70-03. Several administrations indicated support for new studies in SRD/MG (Slovenia, Denmark, United Kingdom, the Netherlands, Germany, Italy, France, Austria). WG FM delegated authority to inform / consult ETSI and request studies in SE24 with regard to proposed changes.
12. WG FM endorsed the SRD/MG investigations for the need of studies between non-specific SRD and wideband data transmission systems in 57 - 66 GHz. Such studies were so far not performed in any ECC Report. No decision is agreed at this stage to conduct such studies.

**4.7.4 EC related activities**

**4.7.4.1 Permanent Mandate on SRDs, draft CEPT Report 70**

1. Document FM(18)116 contains a liaison statement and a Systems Reference document TR 103 441 on Smart Tachograph, weight and dimension applications operating in 5.795 GHz to 5.815 GHz. For the EU, the radio technology to be used in this band for the remote enforcement of the tachograph is regulated by the Commission Implementing Regulation 2016/799 and for the weights and dimensions enforcement in the Directive 2015/719. WG SE approved the related draft ECC Report 291 for public consultation at their last meeting. SRD/MG had taken this into account.
2. WG FM adopted the draft CEPT Report 70 in response to the permanent Mandate on SRD (Seventh Update) from the European Commission to CEPT for submission to the ECC for public consultation approval and sending it to the EC (**Annex 17**). During the WG FM meeting, based on the input documentation, changes were agreed in the draft CEPT Report 70 for entry 79A (76 - 77 GHz), WLAM and for the 57 - 66 GHz proposal for wideband data transmission systems.
3. Document FM(18)130 contains a liaison statement from ETSI in which it expresses the preference of TC ITS to move the existing ITS allocation as defined in ECC Decision (09)01 to the MGWS channel 4 (63.72 GHz to 65.88 GHz). This would significantly improve the possible sharing mechanisms by preventing ITS from overlapping two MGWS channels. By this re-arrangement further harmonisation between the different applications in the 57 - 71 GHz band could be facilitated. More detailed technical information will be included in the ETSI SRdoc TR 103 583.
4. WG FM approved a liaison statement from WG FM to ETSI related to the proposed new regulatory approach for 57-66 GHz wideband data transmission systems (**Annex 54**). WG FM considered it as helpful to have the final ETSI SRdoc in hands when conducting final considerations and WG FM requested ETSI to finalise and publish the SRdoc TR 103 583.

**4.7.4.2 Permanent Mandate on UWB, draft CEPT Report 69**

1. WG FM adopted the draft CEPT Report 69 in response to the permanent Mandate on UWB from the European Commission to CEPT for submission to the ECC for final approval and sending it to the EC (**Annex 16**) with minor modifications. After PC, a ready-text proposal for the changes in the EC Decision for UWB was added as requested in the last ECC meeting by the EC and some corrections were needed in the limits tables.
2. In relation to draft CEPT Report 69,

- WG FM approved the draft revised ECC Decision (06)04 (Generic UWB regulation) for public consultation (**Annex 49**);

- WG FM approved the draft revised ECC Decision (07)01 (Material Sensing Devices) for public consultation (**Annex 48**).

1. The Russian Federation noted that due to special requirements for UWB devices in the national regulation, comments on the revised ECC Decision (06)04 may be provided during public consultation.

**4.7.4.3 Mandate on ITS, draft CEPT Report 71**

1. Document FM(18)117 contains a liaison statement from ETSI informing WG FM and WG SE regarding the progress of the ETSI work related to the ITS Mandate which is performed by the joined task force RT JTFIR (TC ITS and TC RT). This task force is further supported by TC ERM TG37.
2. The LS informs that the group’s focus is on the development of a common technical sharing solution applicable to both Urban Rail ITS and Road ITS in the 5.9 GHz frequency range. ETSI TR 103 580 will further detail these sharing solutions. In the meantime also a Special Task Force (STF) has been established to support the work to be done by the joined task force RT JTFIR. They will produce TS 103 518.
3. In the same LS, ETSI requests the ECC to clarify on whether “priority” between different applications in the band mentioned in the EC Mandate should be defined at regulatory level (i.e. CEPT) or at standardisation level (i.e. ETSI). The ECC response to ETSI from the last ECC meeting was noted.
4. In addition to the information already provided in document FM(18)117, document FM(18)135 contains additional and most recent information regarding the ETSI work on the ITS Mandate. This was already taken into account by SRD/MG.
5. The Annex 2 to this LS further provides information on possible solutions for spectrum sharing between the different Road-ITS technologies as was requested by the ECC. Sharing seems to be challenging, no final solution has been found. This was already taken into account by SRD/MG.
6. Document FM(18)131 contains a liaison statement from ETSI informing WG FM on its progress of its work on ITS interoperability. WG FM noted this information. As this material is provided to WG FM mainly for information only; it is not directly related to the Mandate on ITS.
7. An ACEA/CLEPA position paper on draft CEPT Report 71 (doc. FM(18)175) was introduced by Mr Friedbert Berens (CAR 2 CAR) and noted by WG FM.
8. WG FM adopted the draft CEPT Report 71 in response to the EC Mandate to CEPT to study the extension of the Intelligent Transport Systems (ITS) safety-related band at 5.9 GHz for submission to the ECC for public consultation approval and sending it to the EC (**Annex 18**). During the WG FM meeting, changes were incorporated based on requests and then discussed in a drafting group, mainly in the executive summary and in section 5.1 of the draft CEPT Report.
9. WG FM agreed to send a liaison statement to WG SE and SE45 in response on questions from them, to inform on working assumptions set out in draft CEPT Report 71, and request to define limits for the protection of Urban Rail ITS and Road ITS from WAS/RLAN (**Annex 59**).
10. WG FM agreed to send a reply liaison statement to ETSI on the work progress within ETSI on ITS and including some questions to ETSI (**Annex 44**).
11. Germany questioned the need for the liaison statement, which asks for various technical details of ITS technologies, noting that it was agreed that the regulation should be technology neutral and the technical sharing solution is to be found in ETSI anyway.
12. WG FM agreed to the SRD/MG proposal to stop the work on an additional ECC Report on sharing between Urban Rail ITS and Road ITS since the essential information is included in draft CEPT Report 71 and draft ECC Report 290.

Statement from Italy

*The industry should be encouraged to agree on interim measures in the absence of agreement at ETSI for the moment.*

Statement from France

*The draft CEPT Report 71 clearly states that “solutions for the coexistence between Road ITS and Urban Rail ITS applications should not impose the use of a specific Road ITS or Urban Rail ITS technology”. This comes from the principle of technology neutrality which is applied in spectrum regulation. Hence, France is of the view that making mandatory the use of Road ITS access layer and/or full integration into Road ITS protocol is not compliant with the requirement above.*

Statement from the European Commission

*In view of the results so far of the work at CEPT/ETSI following the Commission's relevant Mandate on the extension of the ITS safety-related band at 5.9 GHz and having in mind the main justification for the above Mandate, namely to cope with multiple technologies and increased traffic management requirements, the Commission is considering all options as regards the further regulation of the band.*

**4.7.5 Coexistence of RLANs in vehicles**

1. Based on a proposal from Germany (FM(18)166), WG FM tasked the SRD/MG to update the explanatory paper on 5 GHz RLAN usage in vehicles taking into account the new information about usage of RLAN in high speed trains in the range 5150 - 5250 MHz.

**4.7.6 SRDs in UHF**

1. WG FM noted the new work items SE24\_67, SE24\_68 and SE24\_69 following the request for studies to WG SE from WG FM #91.
2. With regard to the request from WG SE to provide clarifications on the issues of studies within work item SE24\_69 (additional studies for the spectrum in-between the RFID interrogator channels), WG FM decided to task SRD/MG to discuss this at the next meeting and not to reply to WG SE at this stage.
3. The proponents of such an additional study item are encouraged to provide additional information to the SRD/MG to address the concerns of those which see the priority in keeping the existing balance between low power SRD and 500mW SRD data networks.
4. The WG FM Chairman expressed that he sees a clear distinction between technical studies in SE24 on one hand and, on the other hand, whether or not study results would be used for any harmonisation later on, which could change the balance between the various applications concerned. This is a different discussion and study results could be useful in this regard.
5. WG FM noted that the proposal is now limited to the upper band 915 - 919.4 MHz (input from the United Kingdom, doc. FM(18)163). Finland supported the proposal from UK.
6. France presented in their input document (FM(18)171) detailed considerations why the current balance should be kept. Switzerland and Italy supported the views provided by France.
7. The subject is not time-critical since any studies in this regard will fall within the 8th update cycle. SRD/MG is requested to report back to the next WG FM with a proposal for the requested feedback to WG SE / SE24.

**4.7.7 Wireless Power Transmission (WPT)**

1. WG FM already agreed to the development of a new Annex 14 in ERC/REC 70-03 for non-beam WPT.
2. The progress in WG SE / SE24 was noted in particular to the results about non-beam WPT for electrical vehicles in 79 - 90 kHz.
3. SRD/MG will discuss at the next meeting the introduction of these first limits in the new Annex 14 and will come back to WG FM in February 2019 with a first release of this new Annex 14 in ERC/REC 70-03 to be sent to public consultation. More limits will be added to the new Annex when they become available in the future, i.e. when studies will have been finalised.
4. ETSI SRdoc TR 103 493 for non-beam WPT below 30 MHz was presented at the WG FM meeting. WG FM decided that SRD/MG should first conduct initial considerations. It is noted that WI SE24\_60 on WPT already exists and SRD/MG may provide additional information to SE24 from their next meeting.
5. The SRD/MG Chairman informed about a contribution at the last SRD/MG meeting from Abbott Laboratories with a request to discuss exemption of neuromodulation AIMD (active implantable medical device) WPT chargers (in 50 - 500 kHz) from the generic non-beam WPT regulation. In this case the charging device is placed at the head to charge the battery of an implant located within the head. During the discussions in SRD/MG, it was made clear that the application is covered in principle by ETSI SRdoc TR 103 493 and can be seen as a contribution (a specific case) of a non-beam WPT medical application. The application uses other radio interfaces to convey information (next to the charging link) while the optimization of the charging efficiency (to avoid heating up human tissue) requires additional circuitry to follow the moving charging frequency (optimised coupling to reach a much higher efficiency of the charging). SRD/MG is of the view that an exemption from the generic non-beam WPT regulation should not be granted. Such precedence could be misused for much different applications, e.g. in the field of WPT for electric vehicles. It was noted that studies in SE24 are expected to commence in December 2018 on TR 103 493.

**4.7.8 Wideband Data Transmission Systems in 57 - 66 GHz**

1. See **section 4.7.4.1**.
2. The proposed regulatory framework in 57 - 66 GHz for wideband data transmission systems will be used as a starting point for considerations when SRD/MG will be looking into the whole band 57 - 71 GHz. The spectrum above 66 GHz shows significant differences compared to the 57 - 66 GHz range (see also item D.4 in the CEPT Roadmap on 5G, doc. FM(18)125 - Annex 3).

**4.7.9 SRDs operating below 9 kHz**

1. Document FM(18)139 contains a response liaison statement from ETSI containing comments on the proposed regulation for SRD applications operating below 9 kHz. With regard to the antenna size, ETSI TG28 has the view that the limit shall be more in the range of < 1/20 λ. With regard to the frequency range over which the limit for maximum field strength shall apply, ETSI ERM TG28 is of the view that the lower limit should be set to 100 Hz instead of 10 Hz. This was already taken into account by SRD/MG.
2. The feedback from ETSI was taken into account by SRD/MG and WG FM approved revisions of the Annexes 9 and 10 for public consultation. See **section 4.7.3**.
3. WG FM was informed that the SRD/MG had discussed another contribution from Johnson Controls in SRD/MG about the use below 9 KHz for the deactivation of security tags in shops. The application only uses pure CW electromagnetic impulses in one direction but at field strength levels which are above the proposed limits in ERC/REC 70-03 - Annex 9. SRD/MG did not see this application as a radio application, and this opinion was endorsed by WG FM.

**4.7.10 ITU-R contributions**

1. None.

**4.7.11 SRD/MG Chairmanship**

1. WG FM re-appointed Mr Thomas Weber (ECO) as acting Chairman of the SRD/MG until the end of 2018. Administrations are encouraged to nominate a candidate for the SRD/MG chairmanship.

**4.7.12 Other issues**

1. None.

***4.8 ECC PT1 (MFCN)***

**4.8.1 Progress report**

1. It was noted that ECC PT1 had most recently met; Dublin, Republic of Ireland on 17 - 21 September (ECC PT1#60) and in Edinburgh, UK on 16 - 20 July 2018. (ECC PT1#59). A summary of the main outcomes is available here; <https://cept.org/ecc/groups/ecc/ecc-pt1/client/introduction/>.

**4.8.2 Revision of ERC/ECC Decisions and Recommendations**

**4.8.2.1 Review of ECC Recommendation (08)02 (cross-border coordination for MFCN in 900 MHz, 1800 MHz)**

1. The WG FM Chairman noted that, following an understandable delay due to its workload regarding 5G issues, ECC PT1 had now provided WG FM with a revision to ECC Recommendation (08)02. This was approved for public consultation at **Annex 64**. See also **Annex 69**, the Cover Note.

**4.8.2.2 Other cross-border coordination issues**

1. None.

**4.8.3 Other issues**

1. None.

***4.9 EFIS Maintenance Group (EFIS/MG)***

**4.9.1 Progress Report**

1. The Chairman of the EFIS/MG, Mr Stefan Mayer-Bidmon (D), presented document FM(18)150, the progress report from the 42nd EFIS/MG meeting, held in Madrid / Spain, 19 - 20 September 2018.

**4.9.2 Review of ECC/DEC/(01)03 on EFIS**

1. The Annex 2 (list of searchable applications) of the ECC Decision (01)03 for EFIS was finally revised in the PMSE part and submitted to WG FM for administration consultation approval. WG FM approved the draft revised Annex 2 of ECC Decision (01)03 for administration consultation (**Annex 67**).

**4.9.3 Update of ERC Report 25 (ECA Table)**

1. In revising the ERC Report 25 (ECA Table) the EFIS/MG and the ECO took into account all responses received during the public consultation.
2. WG FM discussed a proposal from Germany to include a new footnote ECA38 in the ECA Table to define that the restriction "except for aeronautical mobile" does not apply to applications of the mobile service as part of MFCN on a national basis. France and the Russian Federation argued that this proposal is still premature and cannot be implemented in the ECA Table at this point in time. ECC PT1 is currently evaluating the use of MFCN for the command and control and payload links of UAS within the current MFCN harmonised regulatory framework for the different MFCN bands. Nevertheless, WG FM agreed, that connectivity to and from UAVs as an MFCN application under the existing MFCN harmonised framework may be enabled on a national basis. However, the respective CEPT administrations are urged to take all required measures to protect neighbouring countries from harmful interference.
3. WG FM agreed to reconsider the German proposal for adding a footnote to the ECA Table when the results from ECC PT1 are available.
4. The revised list of amendments (comments resolution table) of ERC Report 25 (ECA Table) is set out in Annex 6a of the EFIS/MG progress report.
5. The revised ERC Report 25 (ECA Table) was approved for publication (**Annex 43**). Publication by the ECO will take place after the meeting of ECC in October 2018.
6. The next ECA Table revision is scheduled for submission to WG FM after the WRC-19.

**4.9.4 RSCOM/TCAM RIS Template**

1. WG FM approved two RIS templates for ECC Decisions (11)06 and (13)01 for publication in EFIS (**Annexes 68 and 41**).
2. The RIS template for ECC Decision (18)06 on MFCN in the frequency band 24.25 - 27.5 GHz should be sent back to ECC PT1 because of lack of important technical information (FS allocation, reference to ECC Decision (18)06 missing, emission limits, etc.).
3. A liaison statement was sent to ECC PT1 by WG FM with a request to revise the RIS template and to send it again to the EFIS/MG (**Annex 42**).

**4.9.5 EFIS software developments**

1. Work was done to debug errors and implement further improvements of EFIS by the ECO. Further details to the work done and the assessments out of the questionnaire on EFIS can be found in Annex 4 of the EFIS/MG progress report.
2. The initial API was set up and can be used to export information from the EFIS about radio service allocations (incl. frequency band and allocation footnotes) and about radio applications. The used terminology, as defined in ECC Decision (01)03 - Annexes 1 and 2, can also be extracted. Users can select the region (i.e. country, ITU-R1 or Europe) and decide whether they want the whole information or only for a specific defined frequency range.
3. Mr Thomas Weber (ECO) informed that ECO will first conduct a general review of the data structures of the documentation database, EFIS and API, before continuing with the addition of new features in the information databases.

**4.9.6 ECO Report 05**

1. No action.

**4.9.7 ECC Report 180**

1. No action.

**4.9.8 Action points for the administrations**

1. Administrations are requested to note the action points relevant for them as described in the EFIS/MG progress report.

**4.9.9 Questionnaire on usage of EFIS**

1. The summery of the questionnaire on EFIS and the assessments of the EFIS/MG is set out in Annex 8 of the EFIS/MG progress report. In general, the answers were very positive.
2. Mr Thomas Weber (ECO) explained that one answer, an ergonomics check on EFIS, performed by Ms Jacquemine Garel (ANFR) is very much appreciated and valuable. This will be used by ECO to improve EFIS.
3. The assessments also led to action items in the action item list set out in Annex 4 of the EFIS/MG progress report.

**4.9.10 Other issues**

1. The next meeting of EFIS/MG will take place in Dublin / Ireland, 2 - 3 April 2019, followed by a meeting in September 2019 in Riga / Latvia.

***4.10 Maritime Forum Group (MAR/FG)***

**4.10.1 Progress report**

1. The progress report of the MAR/FG (FM(18)151) was introduced by Mr Jaap Steenge (acting chairman of the Forum Group) and provided the meeting with some highlights of discussion from the latest meeting of MAR/FG.
2. Special focus this time was related to the development of the draft ECC Decision (19)03 (based on the WI’s FG\_08 and FG\_09), the treatment of personal maritime radio equipment, L-band issues and an update on activities in ETSI ERM TG26.
3. WG FM approved the new draft ECC Decision (19)03 on the harmonised usage of the channels of the Radio Regulations Appendix 18 (transmitting frequencies in the VHF maritime mobile band) for public consultation (**Annex 20**). An informative cover letter will be sent out together with the draft ECC Decision in the consultation process (**Annex 21**).
4. WG FM furthermore approved a questionnaire to CEPT administrations on the licensing of personal radio equipment in the maritime field (**Annex 22**).
5. WG FM also agreed to an liaison statement to ETSI with questions on the related harmonised European standard for maritime communications below 526.5 kHz (**Annex 23**).
6. WG FM requested the group to have a closer look at doc. FM(18)158, originating from CIRM on the implementation of analogue/digital VHF channels on board ships before 1st of January 2024. The group was asked to discuss the document at its next meeting and report to WG FM #93 on its findings.
7. WG FM agreed to change the Forum Group to a new Project Team FM58 (Maritime Group of WG FM). WG FM appointed Ms Aire Siinvert from the Estonian Regulatory Authority (TJA) as the Chairman of Project Team FM58, by acclamation. The terms of reference of FM58 are identical with those used for the Maritime Forum Group of WG FM. WG FM thanks Mr Jaap Steenge from the Netherlands for his chairmanship of the Maritime Forum Group of WG FM (and its predecessors RR2, RA2, ECC PT 9 and FM PT46).
8. The acting Chairman thanked WG FM for its support in the past years and expressed its confidence in the new Project Team with a hopefully glorious future.

***4.11 Radio Amateur Forum Group (RA/FG)***

**4.11.1 Progress Report**

1. Mr Thomas Weber (ECO) presented a short progress report in doc. FM(18)152.
2. He informed about the reconfirmed interest from Brazil and the new request from the Philippine Amateur Radio Association in joining the European framework.
3. WG FM tasked Mr Thomas Weber to approach EURAO with regard to their new frequency guide because some entries in the guide do not correspond to the allocations to the amateur radio service valid in Europe or the Region 1, or denote frequencies that are not assigned to the amateur radio service worldwide.

**4.11.2 New entry level licence**

1. Input document FM(18)161 from IARU-R1 was withdrawn. IARU-R1 may come back with a proposal in the future.

**4.11.3 RA/FG Chairmanship**

1. No administration has provided a candidate for the RA FG Chairmanship so far. WG FM decided that Mr Thomas Weber, ECO, should continue as acting Chairman of RA FG until the end of 2018. CEPT administrations are requested to provide a candidate for chairing the RA FG and to inform the WG FM Chairman.

**4.11.4 Other issues**

1. None.

**5. Work Items in progress within WG FM**

***5.1 Civil-Military meeting***

1. No action.

***5.2 General review of ECC/ERC/ECTRA deliverables***

1. The general review of ECC/ERC Deliverables was considered (doc. FM(18)125 - Annex 1). An updated list, for presentation at ECC#49, is provided in **Annex 66**.

**5.2.1 New draft ECC Decision (19)01 for the withdrawal of ECC/DEC/(11)04 on PMR/PAMR/PPDR terminals**

1. On introduction and review by the plenary, WG FM approved draft new ECC Decision (19)01 for public consultation (**Annex 08**).

**5.2.2 Revision of ECC Decision (08)05 on digital PPDR NB an WB radio applications in 380 – 470 MHz**

1. On introduction and review by the plenary, WG FM approved draft revised ECC/DEC/(08)05for public consultation (**Annex 09**).

**5.2.3 Revision of ECC Decision (16)02 on BB-PPDR at 700 MHz and 400 MHz**

1. On introduction and review by the plenary regarding the inclusion of the band 410-430 MHz, WG FM approved draft revised ECC/DEC(16)02 for public consultation (**Annex 10**).

**5.2.4 Revision of ECC Decisions based on ECC Report 272**

1. The FM44 Chairman explained that all the ECC Decisions proposed for revision at the last WG FM meeting were amended with ECC Report 272 results; except the ECC Decision (06)02. He explained that this Decision could be merged in the future with the amended ECC Decision (06)03.
2. He recalled the meeting that the task of FM44 was only focused on the removal of unnecessary coordination workload in those ECC Decisions by limiting explicitly the maximum e.i.r.p of earth station exempt of individual licence.
3. As mentioned and requested by some administrations during previous WG FM meetings, FM44 had planned to study in 2019 whether satellite ECC Decisions for GSO or NGSO, C, Ku or Ka band, fixed, aircraft, maritime, land-based in-motion earth stations, could be merged in a limited number of documents.
4. The meeting agreed on the initiative to simplify the regulatory CEPT framework on satellite bands and tasked FM44 to propose a way forward for the next WG FM meeting.
5. The FM44 Chairman presented the comments resolution table prepared by FM44 for the draft amended ECC Decision (13)01, that was subject to public consultation (doc. FM(18)145 - Annex 1).
6. All the comments were accepted, except the proposal for replacing “ESOMP” by “ESIM”. As explained by the PT Chairman, such kind of modification could be done in a global harmonisation of the satellite ECC Decisions in 2019.
7. The draft amended ECC Decision (13)01 was adopted by the meeting for submission to the ECC for final approval and publication (**Annex 32**).
8. The PT Chairman presented the general modifications that had been made to ECC Decisions (03)04, (05)01, (05)11, (06)03, (15)04, (17)04 (see Annex 4, 5, 8, 9, 10, 11 of doc. FM(18)145). It was noted that the proposed modifications are similar and harmonised with the ECC Decision (13)01 approved by the meeting.
9. The PT Chairman presented the very limited modifications proposed for ECC Decisions (05)09 and (05)10 (see Annexes 6 and 7 of doc. FM(18)145). References to ECC Report 66 had been removed and just replaced by a reference to ECC Report 272. The PT Chairman explained that those limited modifications are sufficient to take into account the results of ECC Report 272.
10. Lithuania proposed to remove the 70 dBW maximum e.i.r.p. of the ECC Decision (15)04 and to align it to 60 dBW with the other satellite ECC Decisions. The PT Chairman explained that the 70 dBW value was already taken into account in the previous version of the document, because it corresponded to the maximum e.i.r.p. of the only NGSO satellite constellation from O3B at the time of this Decision. He recalled that some administrations have already granted licences to O3B with such a value for the exemption of individual licence.
11. The FM44 Chairman proposed that Lithuania can provide comments during the public consultation and encouraged administrations that have already implemented ECC Decision (15)04 and granted licences for such NGSO systems to contribute at the next FM44 by providing the maximum e.i.r.p. already authorised in their countries for such earth station exempt of individual licence.
12. The meeting approved ECC Decisions (03)04, (05)01, (05)09, (05)10, (05)11, (06)03, (15)04, (17)04 for public consultation (**Annexes** **34, 35, 36, 37, 38, 39, 40, 33**).

**5.2.5 Revision of ECC Decision (06)04 on UWB below 10.6 GHz**

1. See **section 4.7.4.2**.

**5.2.6 Revision of ECC Decision (07)01 on UWB, specific Material Sensing devices**

1. See **section 4.7.4.2**.

**5.2.7 Editorial correction on ECC Decision (06)08 on GPR/WPR**

1. WG FM adopted an editorial update of ECC Decision (06)08 (Ground- and Wall Probing Radars) for submission to the ECC for publication approval (**Annex 50**).

**5.2.8 Revision of ECC Decision (04)08 on WAS/RLANs at 5 GHz**

1. See **agenda item 4.6.3**.

**5.2.9 Review of ECC/ERC Recommendations**

1. The FM44 Chairman explained that no additional information or views were express concerning the withdrawal of Recommendations T/R 75-04, ECTRA/REC/(99)02, ECTRA/REC (01)02 and ERC/REC 11-01.
2. WG FM decided to withdraw Recommendations T/R 75-04 (“*Exchange of data between Administrations and between Administrations and international organisations relating to space systems*”), ECTRA/REC/(99)02 (“*Milestone compliance of Satellite Personal Communications Services (S-PCS) in Europe, operating within the bands 1525-1544/1545-1559 MHz, 1626.5-1645.5/1646.5-1660.5 MHz*”), ECTRA/REC(01)02 (“*Milestone compliance of Satellite Personal Communications Services (S-PCS) in Europe) in Europe, operating within the bands 1525-1544/1545-1559 MHz, 1626.5-1645.5/1646.5-1660.5 MHz*”) and ERC/REC 11-01 (“*Type approval for satellite earth stations equipment VSAT (Very Small Aperture Terminals) and SNG (Satellite News Gathering)*”).
3. The FM44 Chairman proposed to retain Recommendation ECC/REC/(11)08 on indoor pseudolites and to study the need for a review. This was endorsed by the meeting.

***5.3 Fixed Service (FS) related items***

1. Document FM(18)129 contains a response liaison statement from ETSI to FS related questions raised by the WG FM.

**5.3.1 ECO Report 04**

1. A new updated ECO Report 04, dated 20 September 2018, was provided by the ECO (doc. FM(18)150 - Annex 3).
2. The new updated ECO Report 04 was endorsed by WG FM for publication.

***5.4 Roadmap on 5G***

1. The latest version of the Roadmap on 5G was provided in Annex 3 to doc. FM(18)125 (48th ECC meeting in July 2018). The meeting did not see a need for a specific proposal for an amendment of the Roadmap.

***5.5 Spectrum regulation for drones***

1. The CG Chairman Mr Florian Cziczatka (AUT) presented doc. FM(18)153, the progress report.

**5.5.1 Frequency options**

1. The CG Chairman presented a reorganised frequency option document (Annex 3 to doc. FM(18)153). It contains now two sections, one on frequency option and a second section which covers additional spectrum requirements, arising from the U-Space concept.

**5.5.2 Workshop on drones**

1. The summary and action points of the workshop on spectrum for drones held 29 – 30 May 2018 in Copenhagen contained in doc. FM(18)125 - Annex 5 had already been presented by Thomas Weber (ECO) during the CG meeting.

**5.5.3 Other issues**

1. The Chairman of the CG presented the work item which had already been drafted during the last meeting of the CG contained in Annex 4 of doc. FM(18)153.
2. The Russian Federation asked for clarification concerning the “governmental use” and if military applications are also covered, as well as about the payload. It was clarified, that military applications are not covered, but potentially could fall within this category on national level. ERC Recommendation 25-10 provides solutions for the payload spectrum.
3. The Netherlands and Russian Federation questioned why the scope of the work item is only limited to the mentioned bands and does not cover all bands mentioned in the working document on frequency options.
4. The Chairman of the CG outlined that these bands had been identified in the result of the workshop on drones as well as proposed during the face-to-face meeting. Furthermore, the CG Chairman expressed that additional frequency bands would expand the workload beyond that, what a CG can handle.
5. Germany and France expressed difficulties mentioning the band 2.3 GHz and proposed its deletion from the work item, because it is already in Recommendation 25-10 and covered by PT1 as part of studies on UAS.
6. The Czech Republic supported the Netherlands and the Russian Federation with respect to not only focus on the mentioned bands. In addition, the Czech Republic supported retaining the 2.3 GHz band. In case of deleting it from the scope, the Czech Republic will come back on this issue at the next meetings of the CG.
7. WG FM agreed widening the scope of the work item in respect of possible additional frequency bands, while the current focus is on the bands 1880 - 1900 MHz, 1900 - 1920 MHz and 5000 - 5010 MHz. The new work item ([**FM\_52**](https://eccwp.cept.org/WI_Detail.aspx?wiid=686)) was supported by Belgium, Czech Republic, Finland, France, Germany, Portugal and Switzerland (**Annex 62**).
8. The Chairman of WG FM stated that this task given to the CG on drones is more suitable to be handled by a Project Team than by a CG and encouraged administrations to nominate a candidate for the chairmanship. The CG Chairman supported the intention to convert the CG into a PT but also informed the meeting, that he would not be in the position to chair a PT.
9. Based on the draft work item, the CG drones already prepared a preliminary draft ECC Report (doc. FM(18)153 - Annex 5).

**6. New work items**

***6.1 Audio PMSE within 25 MHz – 3 GHz***

1. No action.

***6.2 Multiple Gigabit Wireless Systems (MGWS) within 57 – 71 GHz***

1. See **section 4.7.4.1**.

***6.3 Frequency band 1900 – 1920 MHz (DECT)***

1. No action.

***6.4 High-Definition Ground Based Synthetic Aperture Radars (HD-GBSAR)***

1. The ETSI Liaison Officer introduced document FM(18)121 containing a liaison statement and a Systems Reference document TR 103 594 V1.1.1 on HD-GBSAR within 74 - 81 GHz.
2. WG FM decided that studies should be carried out over the whole frequency range 74 - 81 GHz. The target is to find 1 GHz of spectrum for HD-GBSAR applications within this frequency range.
3. SRD/MG was tasked to further consider HD-GBSAR.
4. WG FM agreed to request WG SE by liaison statement to start studies for HD-GBSAR (**Annex 61**).

***6.5 Level Probing Radars (LPR)***

1. The ETSI Liaison Officer introduced document FM(18)132 containing a liaison statement and a Systems Reference document TR 103 595 on LPR within 75 - 85 GHz.
2. Currently UWB LPRs which are covered by EN 302 729 are required to operate using a strict downward orientation of the antenna in combination with other antenna restrictions as e.g. beam width and gain. The SRdoc explains the need for adapting these restrictions on antenna orientation and antenna requirements for these devices in order to cover measurement tasks which currently cannot be conducted adequately or cannot be conducted at all due to the restrictions on the antenna orientation and/or beam width.
3. The SRdoc further explains that the objective is to fit within the current regulation and to be still in line with the half sphere antenna concept. Therefore according to ETSI no compatibility issues are foreseen.
4. The SRD/MG was tasked to consider the proposal in the SRdoc further and to report their findings back to the next WG FM meeting.
5. No studies are requested to be performed by WG SE at this stage.

***6.6 SRD equipment using Nuclear Magnetic Resonance (NMR) technology in the frequency range 1 - 50 MHz***

1. The ETSI Liaison Officer introduced document FM(18)119 containing a liaison statement and a Systems Reference document TR 103 517 V1.1.4 on Nuclear Magnetic Resonance (NMR) technology in the frequency range 0.1 kHz to 130 MHz. It was further clarified that only the ‘Enclosed NMR sensors’ are within the scope of the SRdoc.
2. In the SRdoc, ETSI raised the question on whether new studies are required as it is proposed to apply the limits for inductive SRDs for frequencies below 30 MHz and the usual spurious emission limits for frequencies above 30 MHz.
3. The SRD/MG Chairman reported that the proposal was discussed at the last SRD/MG meeting and SRD/MG is of the view that these devices are radio devices and not ISM, as a response is being received by these sensors which differentiates them from ISM devices.
4. The SRD/MG was tasked to consider the proposal in the SRdoc further and to report their findings back to the next WG FM meeting.
5. No studies are requested to be performed by WG SE at this stage.

***6.7 UWB radiodetermination in the range 120 - 260 GHz (ETSI TR 103 498)***

1. WG FM decided that studies by WG SE should be carried out for sensor types and scenarios A, B, and C as requested in TR 103 498 and agreed an LS (**Annex 61**).

***6.8 Wireless Power Transmission (WPT) systems***

1. See **section 4.7.7**.

**7. European Telecom Policy and Follow-up**

***7.1 EC recent activity***

1. The EC Counsellor Mr Giuseppe Rizzo gave the following information about the latest RSC and RSPG meetings:

**7.1.1 RSC#64 meeting (11 – 12 July 2018)**

1. Main subjects discussed at the meeting included:

* Spectrum usage below 9 kHz: a solution at the national level in the nine Member States concerned appears to be the most efficient solution.
* IoT in the 874 - 876 MHz and 915 - 921 MHz bands: the Committee gave its positive opinion on a Commission Implementing Decision.
* 5G conditions for certain EU-harmonised bands: a stable text for a Mandate to CEPT was agreed (and later approved by written procedure and thereafter sent to CEPT).
* Mandate to the CEPT on Spectrum for FRMCS: the text of the Mandate was approved at unanimity and subsequently transmitted to the CEPT.
* 3.6 GHz band: The Commission presented a first draft of the Implementing Decision amending the actual legislation on the 3400 - 3800 MHz terrestrial frequency band in order to make it fit for 5G.

1. Next meeting: 17 October 2018.

**7.1.2 RSPG#46 meeting (05 June 2018)**

1. Publication of a draft Opinion on WRC-19 for public consultation (07 June 2018 -> 20 July 2018) was agreed. The document is available here: <https://circabc.europa.eu/sd/a/7ab8a6bb-f59a-434f-9b66-606b5a8067ce/RSPG18-023final-Opinion_WRC19-for_public_consultation.pdf>
2. Progress reports were noted on European Spectrum Strategy, 5G, Cross-border coordination, the EECC (European Electronic Communications Code), Peer review and Member State cooperation on authorisations and awards.
3. Next meeting: 03 October 2018.

***7.2. ETSI recent activity***

**7.2.1 Overview on ETSI SRdocs**

1. The meeting was informed the document behind the url ([https://portal.etsi.org/Portals/0/TBpages/ERM/Docs/ERM SRdoc overview.doc](https://portal.etsi.org/Portals/0/TBpages/ERM/Docs/ERM%20SRdoc%20overview.doc)) included in the agenda provides an up-to-date list and status of all SRdocs currently in the pipeline within ETSI.

**7.2.2 Directive 2014/53/EU (RE-D) of 16 April 2014**

1. The meeting was also reminded on the RED section on the ETSI portal (http://www.etsi.org/red) where ETSI maintains information about the RED including the list of standards already published by ETSI. As informed earlier, being published by ETSI doesn’t mean these standards are published also in the OJEU. The EC is doing a detailed review of standards before they are listed in the OJEU and quite a number of standards have been refused because of various issues.
2. The European Commission has tasked Ernst & Young to help them with the review of harmonised standards prepared by the European SDOs prior to publication in the OJEU. ETSI has agreed now on a process with E&Y in which E&Y consultants are involved in different phases of the development process of harmonised standards.
3. Mr Thomas Weber (ECO) informed the meeting about the new European Regulation on UAS and that this new Regulation not only repealed the old EASA Regulation (216/2008) but also revised the RED with regard to its application for UAS.

**7.2.3 ETSI Workshop on “Developing the Future Radio for Rail Transport” (4 - 5 July 2018)**

1. On 4 - 5 July 2018, ETSI held a workshop on “Developing the Future Radio for Rail Transport”. ETSI held its first workshop on next generation radio for rail in November 2016. This second ETSI workshop intended to give an update on the activities related to the future radio for rail transport worldwide.
2. Information regarding this workshop can be found on

[www.etsi.org/news-events/events/1292-developing-the-future-radio-for-rail-transport](http://www.etsi.org/news-events/events/1292-developing-the-future-radio-for-rail-transport)

1. The presentations given at the workshop can be downloaded from <https://docbox.etsi.org/Workshop/2018/201807_RT_WORKSHOP>

**7.2.4 Other issues**

(8) None.

**7.2.5 Overview on ECC deliverables**

1. In accordance with the cooperation process between ECC and ETSI, WG FM informs ETSI as appropriate about the following ECC deliverables:

**a) Deliverables adopted for submission to the ECC (CEPT Reports / ECC Decisions) for approval**

1. Draft CEPT Interim Report on WAS/RLAN at 6 GHz (**Annex 12**), to ECC for final approval and sending it to the EC;
2. Draft CEPT Report 69 on UWB (**Annex 16**), to ECC for final approval for publication and sending it to the EC;
3. Draft CEPT Report 70 on the 7th SRD update (**Annex 17)**, to ECC for PC approval;
4. Draft CEPT Report 71 on ITS (**Annex 18**), to ECC for PC approval;
5. Draft revised ECC Decision (13)01 on ESOMP’s (**Annex 32**), to ECC for final approval;
6. Editorial updated ECC Decision (06)08 on GPR/WPR (**Annex 50**), to ECC for final approval;

**b) Other deliverables adopted for submission to the ECC**

1. Updated list of review of ECC/ERC/ECTRA Decisions (**Annex 66**), to ECC for endorsement;

**c)** **Deliverables finally approved for publication (ECC Recommendations / ECC Reports)**

1. Revised Recommendation T/R 25-08 on planning criteria and coordination of frequencies for land mobile systems in the range 29.7 - 470 MHz (**Annex 11**);
2. New ECC Report 285 on Video PMSE in 2.7 - 2.9 GHz (**Annex 19**);
3. Revised ERC Report 25 (ECA Table) (**Annex 43**);
4. New Annex 13 of ERC/REC 70-03 – Medical Data Acquisition (**Annex 51**);
5. Revised Annex 2 of ERC/REC 70-03 – tracking data and data acquisition (**Annex 52**);
6. Revised Annex 3 of ERC/REC 70-03 – wideband data (**Annex 53**);
7. New ECC Report 286 on body effect of PMSE equipment (**Annex 58**);

**d) Deliverables approved for public consultation - ECC Decisions / ECC Recommendations / ECC Reports**

1. Draft new ECC Report 292 on PMR/PAMR in 400 MHz (**Annex 05**);
2. Draft new ECC Decision (19)02 on land mobile systems (**Annex 06**);
3. Draft new ECC Decision (19)01 on the withdrawal of ECC Decision (11)04 (**Annex 08**);
4. Draft revised ECC Decision (08)05 on NB- and WB-PPDR (**Annex 09**);
5. Draft revised ECC Decision (16)02 on BB-PPDR (**Annex 10**);
6. Draft new ECC Decision (19)03 on harmonised usage of the channels of the RR Appendix 18 (**Annex 20**, see also **Annex 21**: cover letter to this ECC DEC);
7. Draft revised ECC Recommendation (12)03 on EIRP determination (**Annex 25**);
8. Draft new ECC Report 293 on mobile monitoring units (**Annex 26**);
9. Draft new ECC Report 294 on spectrum for FRMCS (**Annex 30**);
10. Draft amended ECC Decision (17)04 on NGSO FSS satellite systems (**Annex 33**);
11. Draft amended ECC Decision (03)04 on VSAT (**Annex 34**);
12. Draft amended ECC Decision (05)01 on the use of the band 27.5 - 29.5 GHz by the FS and uncoordinated Earth stations of the FSS (**Annex 35**);
13. Draft amended ECC Decision (05)09 on Earth Stations on Board Vessels operating in FSS Networks in the Bands 5925 - 6425 MHz and 3700 - 4200 MHz (**Annex 36**);
14. Draft amended ECC Decision (05)10 on Earth Stations on board Vessels operating in FSS networks in the bands 14 - 14.5 GHz (**Annex 37**);
15. Draft amended ECC Decision (05)11 on AES (**Annex 38**);
16. Draft amended ECC Decision (06)03 on HEST (**Annex 39**);
17. Draft amended ECC Decision (15)04 on Land and Maritime ESOMPs operating with NGSO FSS satellite systems (**Annex 40**);
18. Draft revised ECC Decision (07)01 on UWB sensors (**Annex 48**);
19. Draft revised ECC Decision (06)04 on UWB (**Annex 49**);
20. Draft revised Annex 5 of ERC/REC 70-03 – Transport and Traffic Telematics (TTT) (**Annex 55**);
21. Draft revised Annex 9 of ERC/REC 70-03 – inductive applications (**Annex 56**);
22. Draft revised Annex 10 of ERC/REC 70-03 (**Annex 57**);
23. Draft revised Annex 3 of ERC/REC 70-03 – Wideband Data Transmission Systems (**Annex 60**);
24. Draft revised ECC Recommendation (08)02 on cross-border coordination for MFCN in 900/1800 MHz (**Annex 64** and Cover Note in **Annex 69**);
25. Draft revised Annex 2 of ECC Decision (01)03 on EFIS (**Annex 67**), for administration consultation;

**e)** **Other deliverables**

1. LS to 3GPP RAN4 (cc ERM) on 410-430 MHz (**Annex 07**);
2. LS to ETSI and UIC on RMR (**Annex 13**, with Annex 31 attached);
3. LS to PT1 on the work plan to answer the EC Mandate on FRMCS (**Annex 14**);
4. LS to WG SE (SE7) on the work plan to answer the EC Mandate on FRMCS (**Annex 15**);
5. Cover letter to draft ECC Decision (19)03 (**Annex 21**, see also Annex 20);
6. WG FM questionnaire to CEPT administrations on licensing for personal radio equipment (**Annex 22**);
7. LS to ETSI on HEN for maritime communications below 526.5 kHz (**Annex 23**);
8. New work item WI FM-22\_36 on frequency deviation (**Annex 24**);
9. WG FM questionnaire to CEPT administrations on GNSS jamming and jammers (**Annex 27**), background information (**Annex 28**);
10. LS to GSMA and ETNO on railway sharing access with MNOs (**Annex 29**);
11. Work plan to answer the EC Mandate on FRMCS (**Annex 31**);
12. RIS Template for ECC Decision (13)01 (**Annex 41**, see also Annex 32);
13. LS to ECC PT1 on RIS Template on 26 GHz (**Annex 42**);
14. LS (reply) to ETSI / WG SE on ITS (**Annex 44**);
15. LS to ETSI on clarifying note for emission mask of MBR (**Annex 45**);
16. Explanation paper on the simplification of the regulation for the 863 - 870 MHz band (ERC/REC 70-03 - Annex 1) (**Annex 46**);
17. WG FM Guidance to SRD/MG for ERC/REC 70-03 - Annexes 1, 2 and 11 (**Annex 47**);
18. LS to ETSI on 60 GHz within draft CEPT Report 70 (**Annex 54**);
19. LS to WG SE and SE45 on Urban Rail ITS studies (**Annex 59**);
20. LS to WG SE and SE24 on HD-GBSAR and UWB sensors (**Annex 61**);
21. New work item FM\_52 on UAS/drones (**Annex 62**);
22. New work item FM57\_02 on WAS-RLAN at 5 GHz (**Annex 63**);
23. Revised Terms of Reference for FM57 (**Annex 65**);
24. RIS Template for ECC Decision (11)06 (**Annex 68**);
25. Further information is available on the WG FM website:

<https://cept.org/ecc/groups/ecc/wg-fm/news/results-of-the-wgfm92-in-vilnius-lithuania-24-28-september-2018/>

**8. Any Other Business**

1. Norway informed the meeting about a discrepancy in EN 303 276 on Maritime Broadband Radio (MBR). ECC Report 259 and ECC Recommendation (17)03 are relevant within ECC.
2. The discrepancy could easily be corrected by adding a clarification in the standard, stating that the out-of-band emissions shall not exceed the transmitter spectrum mask in figure 1 in EN 303 276 or an absolute level of -30 dBm/MHz, whichever is greater. WG FM agreed on a liaison statement to ETSI (**Annex 45**).

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

1. Mr Thomas Weber (ECO) presented doc. FM(18)159 on the ECO assistance to WG FM including the ECO Bulletin presented at the last ECC meeting (doc. FM(18)142).
2. Mr Weber explained that the documentation database, the EFIS database and the API should be seen together and ECO will investigate the data structure model in general in the near future, e.g.  to find synergies, and may then come back with proposals to EFIS/MG and WG FM.
3. There were no questions or suggestions from WG FM after the presentation.
4. Mr Thomas Weber explained that it is possible to subscribe to a monthly update alert service in the documentation database under: <https://www.ecodocdb.dk/document/updateHistory>.
5. Administrations are invited to check and update their national contact points under: <https://cept.org/ecc/national-administration-and-contact-points>.

**9. Report to next ECC plenary meeting**

1. 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.

**10. WG FM Work Programme, Meeting Schedule, Working Methods**

***10.1 Work Programme***

1. The WG FM Chairman reminded that Chairmen of PTs, MGs, CGs and FGs in cooperation with Mr Thomas Weber (ECO) should incorporate or update information on work items in the ECC work programme database (<http://eccwp.cept.org>).
2. Also the WG FM delegates are invited to report about any mistakes or missing information with respect to the work items (WI) of WG FM to Mr Thomas Weber (ECO).

***10.2 Work Items FM45\_06 and FM\_33***

1. The WG FM Chairman referred to the discussions during the latest ECC meeting (Section 11 in doc. FM(18)125). The ECC had concluded to close both work items (FM45\_06 and FM\_33). These work items were mainly related to the ECO, neither to permanent WG FM work nor to a dedicated FM Project Team. The WG FM Chairman emphasised that relevant information, e.g. related to LSA (trials etc.), may still be provided to the ECO as before.

***10.3 Meeting Schedule***

1. The WG FM Chairman invited the participants to note the Schedule of Meetings in 2018/2019 and consider possible venues for meetings in 2020.
2. The schedule for future WG FM and Project Team meetings with indicating ECC, ECC PT1 meetings is as follows:

| **Meeting** | **Date** | **Place** |
| --- | --- | --- |
| **WG FM #92** | **24 – 28 September 2018** | **Vilnius, Lithuania** |
| FM57 #3 | 04 October 2018 | Maisons-Alfort, France |
| FM CG Drones | 09 October 2018 | Web-meeting |
| SRD/MG | 22 October 2018 | Web-meeting |
| FM44 | 23 October 2018 | Web-meeting |
| **ECC #49** | **23 – 26 October 2018** | **Bordeaux, France** |
| FM CG Drones | 09 November 2018 | Web-meeting |
| SRD/MG xo meeting (ERC/REC 70-03, Annexes 1, 2, 11) | 12 – 13 November 2018 | ECO, Copenhagen |
| FM56 #8 | 04 – 05 December 2018 | Lille, France |
| FM54 #21 | 06 – 07 December 2018 | London, United Kingdom |
| FM57 #4 | 13 December 2018 | Bonn, Germany |
| FM44 #50 | 17 – 19 December 2018 | TBD |
| SRD/MG #75 | 19 – 21 December 2018 | ECO, Copenhagen |
| FM58 #1 | 08 – 09 January 2019 | ECO, Copenhagen |
| **WG FM #93** | **04 – 08 February 2019** | **Rome, Italy** |
| **ECC #50** | **05 – 08 March 2019** | **TBD** |
| EFIS/MG #43 | 02 – 03 April 2019 | **Dublin, Ireland** |
| FM56 #9 | 03 – 04 April 2019 | TBD |
| SRD/MG #76 | 10 – 12 April 2019 | Ankara, Turkey |
| **WG FM #94** | **03 – 07 June 2019** | **Tallinn, Estonia** |
| **ECC #51** | **02 – 05 July 2019** | **TBD** |
| FM56 #10 | 04 – 05 September 2019 | Lille, France |
| FM56 #11 | 16 – 17 December 2019 | Munich, Germany |
| **…** | **…** | **…** |

1. Further information is available on the ECO website: <http://www.cept.org/ecc/meeting-calendar>.

**11. 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.

**12. Closure of the Meeting**

1. As this WG FM is the last one for Mr Thomas Weber (ECO), Mr Enrico Tosato (I) and Mr Jaap Steenge (HOL), the WG FM Chairman thanked them for their years of involvement in WG FM. He emphasised the extremely valuable work and dedication of the colleagues. Also the meeting participants paid tribute to them by a big applause.
2. Again, the WG FM Chairman thanked the Communications Regulatory Authority of the Republic of Lithuania (RRT) for hosting the meeting. He especially addressed his thanks to Ms Rasa Karaliene and Mr Augutis Cesna from RRT and the people in the background for the fine organisation of the meeting. Then he thanked the staff of the hotel Vilnius Grand Resort for the support on site.
3. He once again thanked Mr Feliksas Dobrovolskis, Director General of RRT, for the kind opening speech.
4. In addition he thanked for the social event on Wednesday evening. The participants of the meeting joined an interesting bus tour through Vilnius. This tour was followed by a very delicious dinner accompanied by impressive live music in stylish restaurant “Bizarre” in Vilnius.
5. The WG FM Chairman thanked the WG FM delegates, the Project Team / MG / FG / CG Chairmen, the ECO (Mr Thomas Weber) and his Vice Chairmen Mr Stephen Talbot (UK) and Mr Vincent Durepaire (F) for their support.
6. He also thanked his WG FM administrative secretary Mr Ali Daheur (D) and his technical secretary Mr Silvio Schwarz (D) for their active assistance.
7. Finally he closed the meeting and wished all the delegates a safe journey home.

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