

**54<sup>th</sup> meeting of PT SE 19**  
**Belgrade, Serbia, 7-8 September 2010**

**Date issued: 8 September 2010**  
**Source: SE19 Chairman**

**Subject: Summary of the 54<sup>th</sup> meeting of PT SE19**

**1. Opening of the meeting**

The chairman, Mr. Jean-Philippe Kermoal (ECO), opened the meeting. The meeting was attended by a total of 25 participants from 10 administrations, ECO and industry. The list of participants is given in **Annex 1**. Apologies from Russian Federation was received.

**2. Adoption of the agenda and attribution of docs**

The draft agenda for the meeting was presented in SE19(10)56. The final version of the agenda was approved as given in **Annex 2**.

**3. Report of the last SE19, WG SE and ECC meetings**

No comment to the last chairman's report SE19(09)36 were received by correspondence. It was therefore approved.

**4. WI SE19\_22: High Altitude Platform Stations (HAPS) in the range 5850 – 7075 MHz**

There has been extended work made by correspondence activities on the HAPS issue (SE19(10)53) lead by Alexander Klyucharev (CEPT coordinator AI 1.20) ([alexander.klyucharev@ties.itu.int](mailto:alexander.klyucharev@ties.itu.int)). SE19(10)54 introduced a document from France/ESA on the EESS. This information have been integrated in the report sent to CPG-PTD by the CEPT coordinator on the AI 1.20 a the CPG-PTD (August 2010).

As a pro-active measure, to respect the 2 weeks procedure, the document was sent to WG SE (27/08/2010).

SE19 reviewed the contribution SE19(10)63 which addressed the adjacent frequency bands between RAS and HAPS. SE19 decided that the purpose of the report was to focus on the in-band analysis and therefore did not find appropriate to include the results of this contribution into the draft ECC report.

SE19 confirmed that no changes were needed.

**Course of Action for SE19 on this WI:**

1. work is done (**Annex 3**) and sent to WGSE for PC.
2. to treat the results of the PC when appropriate

**5. WI SE19\_23: Review of ECC-ERC-T/R Recommendations made in SE19**

**5.1 ECC REC (02)06** (channeling arrangements for the 7.125-8.5 GHz band)

On the new ECC Report on the usage of the 7125-8500 MHz band within the CEPT, extensive amount of response from 36 administrations have been received during the DG activity lead by Meta Pavsek (Slovenia) ([Meta.Pavsek@apek.si](mailto:Meta.Pavsek@apek.si)). A status report was presented as SE19(10)33.

The draft ECC Report summarising the usage of the 7125-8500 MHz band within the CEPT for the elaboration of the revision of the ECC REC (02)06 is presented in **Annex 4** of this report.

As a conclusion to this work, the following is proposed for a revision of ECC/REC(02)06 covering the whole range of bands allocated to FS between 7125 MHz and 8500 MHz.

Present ECC/REC(02)06 version (not covering the whole range)

	Frequency ranges (MHz)				
ECC(02)06	7125 - 7425	7425 - 7725	7725 - 7900	7900 - 8500	
Annex 1	1st range Arrangement	2nd range Arrangement	Blank	–	–
Annex 2	–	–		3rd range Arrangement	

Proposed revision introducing the most common approach taken by Administrations for managing the whole (or the available portions) of the band 7125 – 8500 MHz. Two options are offered depending on the national availability of the various sub-ranges.

	Frequency ranges (MHz)				
ECC(02)06	7125 - 7425	7425 - 7725	7725 - 7900	7900 - 8275	8275 - 8500
Annex 1 (1 <sup>st</sup> Option for the whole range)	1st range Arrangement (Present REC(02)06)	2nd range Arrangement (Present REC(02)06)	3rd range Arrangement (from ITU-R F.386-8 Annex 6)		4th range Arrangement (from ITU-R F.386-8 Annex 2)
Annex 2 (1 <sup>st</sup> Option for the whole range)	1st range Arrangement (Present REC(02)06)	2nd range Arrangement (from ITU-R F.385-9 Annex 4)		3rd range Arrangement (Present REC(02)06)	

A third annex presenting the channel identifiers for derivative 56 MHz or 59.3 MHz channels will remain with revision.

A proposed revision of the ECC/REC(02)06 is given in **Annex 5**.

The remaining administrations that needs to respond have been highlighted in yellow in table1 of this working document.

WGSE will be invited for comments on the proposed revision. If WGSE is happy with the progress made, it is intended to send the document for public consultation at the next WG SE meeting in January 2011 meeting.

Deadline to send information to the correspondence activity is **16 July 2010**.

**Correspondence Activity:** Meta Pavsek (Slovenia) ([Meta.Pavsek@apek.si](mailto:Meta.Pavsek@apek.si)) will take the lead in this task. Use of the SE19 mailing list is encouraged.

#### Course of Action:

1. Remaining administrations are invited to contribute with their current channel plan implementation in the 7.125-8.5 GHz band (information to send to Meta Pavsek (Slovenia) ([Meta.Pavsek@apek.si](mailto:Meta.Pavsek@apek.si)))

**5.2 ERC/REC/(00)05** (Use of the band 24.5 – 26.5 GHz for Fixed Wireless Access), **ERC/REC/(01)03** (Use of parts of the band 27.5 – 29.5 GHz for Fixed Wireless Access (FWA)), **ECC/REC/(04)06** (Guidelines for block allocation for Fixed Wireless Systems in the band 31.8 – 33.4 GHz)

No contribution were received during this meeting. SE19 decided to send this draft recommendation for public consultation. This document is attached to this report as **Annex 6**.

#### Course of Action:

1. work is done (**Annex 6**) and sent to WGSE for PC.
2. to treat the results of the PC when appropriate

## 6. DG X-ref ECC-ITU

There has been extended work made by correspondence activities on the cross reference document which provides simple list/cross reference between CEPT and ITU-R for FS across the whole frequency range lead by Pascal LeBerre (France) ([leberre@anfr.fr](mailto:leberre@anfr.fr)). The work was summarised in SE19(10)55 +Annex.

SE19 decided to integrate that document as an annex the revised draft ECC Report 003, keeping in mind to update the table for the 8 GHz band with the latest development of ECC REC(02)06.

This document is attached to this report as **Annex 7**.

Course of Action for SE19 on this WI:

1. work is done (**Annex 7**) to be attached as annex to the draft revision of the ECC Report 003.

## 7. WI SE19\_24: Coordinated inputs to ITU-R: WP5C

SE19(10)44rev2 summarised the activity of the drafting group lead by Roberto Macchi (SIAE) ([Roberto.Macchi@siaemic.it](mailto:Roberto.Macchi@siaemic.it)).

- (SE19(10)46) Rev F.637-3 (23 GHz): Addition of centre gap (22.6-23.0 GHz) arrangements and deletion of obsolete UK reference and France Annexes

Comments received : None

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 8**)

- (SE19(10)47) Rev F.1520-2 (32 GHz) and F.749-2: 112 MHz plans and additional channels in the 38 GHz guard bands. The obsolete 140 MHz channel plan in 38 GHz proposed for deletion.

Comments received : None; however the formula for 112 MHz in F.1520 was wrong and has been corrected in this final document;

SE19 decision: there was not a unanimous approval, therefore it will be presented as a multi-country proposal (Italy, France, Switzerland, Slovenia) (**Annex 9**)

- (SE19(10)45rev1) Rev F.384-10 (U6 GHz): 11th 30 MHz channel and 3.5,7,14 MHz plans; general updating

Comments received : None until presentation of CG contribution (SE19(10)45. Afterwards, SIAE distributed further proposal for revising also the obsolete information about use of alternated polarisation and number of channels for single antenna operation. This new proposal received only editorial comments about the placement of the fo value and has been proposed as SE19(10)45r1.

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 10**)

- (SE19(10)50) Rev F.387-11 (11 GHz): Addition 28 MHz plan with 490 MHz duplex; deletion of obsolete UK 67 MHz plan; general updating

Comments received : Editor's further clarifications in the background for the revision.

SE19 decision: there was not a unanimous approval, therefore it will be presented as a multi-country proposal (Italy, France, Switzerland, Slovenia) (**Annex 11**)

- (SE19(10)49) Rev F.595-9 (18 GHz): Removal from Annex 4 of obsolete 1.25, 2.5, 5, 7.5 MHz plans (Germany).

Comments received : None for 1.25, 2.5, 5 MHz plans; however, France confirmed that the 7.5 MHz plan is still used non European territories. Therefore, this one has been maintained removing the specific country name.

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 12**)

- (SE19(10)48opt) Rev F.747-0 (10-10.68 GHz) and F.746-9: Inclusion in F.747 of ECC/REC 12-05 arrangements and of Italian extended arrangement (moved from F.746-9); deletion of Annex 2 F.746-9 (Italy arrangement moved, obsolete Sweden and UK deleted); general updating of Table 1 in F.746 according all changes proposed in other recommendations above.

Comments received : None; however, it should be noted the error in the guidelines proposed in SE19(19)36 Annex 10:

"F.747-0 is very old and provides a 3.5 MHz homogeneous pattern only for 10.5-10.68 GHz, shifted by 1.75 MHz from that used by ECC" it was not true !

Actually, the formulas for the homogeneous patterns in ITU-R Rec. describe the "upper border of the elementary slots" rather than their centre frequency ; therefore, the ECC channel arrangement fits the 3.5 MHz homogeneous pattern already mentioned in F.747-0.

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 13**)

- (SE19(10)36 Annex 8) Proposed draft new Rec [F.42 GHz]: for a new ITU-R Recommendation reflecting the three options (P-P channel arrangement, blocks allocation and band segmentation for both methods) provided by ECC REC(01)04.

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 14**)

- (SE19(10)36 Annex 9) Rev F.385-9: revision of Annex 1 for including the ECC/REC(02)06 arrangements in the bands 7125-7425 GHz and 7425-7725 GHz

Comments received : None

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 15**)

- (SE19(10)58) Rev of F.636-3 (15 GHz): In the original list of possible ITU-R Recs to be aligned to the CEPT ones the 15 GHz band in ERC/REC12-07 was wrongly listed as "fully aligned. On the contrary, the 56 MHz arrangement is missing in ITU-R rec.

Status : Having wide-band systems more and more importance, and being the changes required straightforward, the coordinator retained important to produce the revision directly to this meeting in Belgrade.

SE19 decision: there was a unanimous approval, therefore It will be presented as a CEPT contribution (**Annex 16**)

Course of Action for SE19 on this WI:

1. Mr Roberto Macchi will presents on behalf of Italy and CEPT when appropriate the agreed contributions at the next WP5C meeting (8-19 November 2010)

## 8. WI SE19\_25: FS in Europe - Current use and future trends Post-2011

There has been extended work made by correspondence activities on the revision of the draft ECC Report 003 lead by Massimiliano Simoni ([massimiliano.simoni@telecomitalia.it](mailto:massimiliano.simoni@telecomitalia.it)). The SE19 mailing was used to disseminate the information to all parties. The work was summarised in SE19(10)51rev1. SE19 took also note of the comment from France in SE19(10)52.

The LS from WGFM (SE19(10)38) was considered and their proposals have been included in the questionnaire. A LS will be prepared and approved by correspondence to be sent to WGFM informing on the activities of SE19 (**Annex XX**).

SE19 reviewed the questionnaire as attached in **Annex 17**.

The questionnaire consists of two parts:

- Part 1 containing a list of questions (for both industry and administrations) and
- Part 2 consisting of a table with a band-by-band analysis (mainly addressed to administrations) (xls included in the questionnaire).

The purpose is to collect information on the actual utilisation of the various frequency bands, where the fixed service is currently deployed and to gain an overview of the likely spectrum requirements in the future, as well as the technology trends. This information will be used to analyse the current situation with respect to the development of the fixed service, and to provide an updated forecast (compared with 1998 and 2002) of deployment trends and spectrum issues.

CEPT Administrations, operators and manufacturers are invited to contribute to the study by answering this questionnaire and providing figures for the excel table or otherwise submitting their views on the subjects of the study.

Course of Action for SE19 on this WI:

1. WGSE will be invited to give their comments/guidance on to the questionnaire (**Annex 17**) before sending it.
2. SE19 tasks ECO to take care of the final editorial for such questionnaire.
3. The final questionnaire will be sent to the administrations, SE19 mailing list, ATTM TM4 chairman, ETNO contact point and to be advertised on the ECO front page (i.e. in the news column).
4. The progress of the activity is according to plan.

## 9. Support/LS to other groups

SE19 received two LSs from SE24:

1. (SE19(10)42) on the Proposed modification to Annex 1 to Rec. 70-03 in the 60 GHz frequency range.

A LS statement was sent back to SE24 concluding that, in view to the technical elements at hand, unless further limitations (e.g. indoor etc..) could be taken into account in new studies, a full unregulated deployment of "generic SRDs" seems not practicable within the 64-66 GHz P-P FS band. The LS is attached as **Annex 18**.

2. (SE19(10) 62 + annex) on UWB specific applications

SE19 noted the LS. A draft response has been drafted but in the view of the short notice to the LS, some administration needed time to further consider the work of SE19. A correspondence activity was established to prepare a LS back to SE24 and will work on the working document as attached to this report in **Annex 19**.

Deadline to send the LS to SE24 is the 20 September 2010. SE19 email reflector is encourage to disseminate the information to all parties.

Course of Action for SE19 on this WI:

1. Send LS on 60 GHz response to SE24 after the SE19 meeting. (**Annex 18**)
2. DG activity on **Annex 19** and send LS on UWB on the 20 September 2010.

## 10. Support to CPG-PTD via WGSE

SE19 has considered the liaison statement from CPG PTD (SE19(10)59 and SE19(10)60) with respect to issue 2 only as directed by WGSE Chairman.

Issue 2: Consideration of compatibility studies between the FS in the 92 - 94 GHz band and the EESS in the adjacent 86-92 GHz band.

SE19 would like to offer the following comments under issue 2.

SE19 has reviewed the limited information at hand.

1. The CEPT has not yet identified the 92 GHz band for FS application,applications; therefore we do not have much information about technical characteristics presently on the market.
2. SE19 reviewed the characteristics from one manufacturer of both 81- 86 GHz and 92-94 GHz equipments, and they appeared to be similar.
3. Manufacturers attending SE19 noted that the difference between 81- 86 GHz and 92-94 GHz equipment is of the order of less than 10 % of relative bandwidth, therefore the radio frequency

technology should be physically very similar. It should be noted that the technology in both bands is still in an early stage and therefore improvements can be expected in both bands.

4. There is a difference on the maximum transmission bandwidth from 5 GHz (81-86 GHz band system) to 2 GHz (92-94 GHz band). SE19 believes that systems in 92-94 GHz band would be predominantly of relatively narrow band e.g. few 100 MHz, therefore their out-of-band emissions may be considered lower in average than those in the long term deployment of the 81-86 GHz band.

Course of Action for SE19 on this WI:

1. SE19 chairman to present WGSE with the above comments.

## 11. RIS Template

As part of the work instructed by the ECC, SE19 has translated in RIS format ECC/REC/(09)01 Use of the 57-64 GHz band for point-to-point FWS. This is attached as **Annex 20**.

Course of Action for SE19 on this WI:

1. To send **Annex 20** to WG RA rapporteur Patrick Donohue (ANFR) ([donohue@anfr.fr](mailto:donohue@anfr.fr))

## 12. Future work and meetings of SE19

- **Report to WG SE**

SE19 entrusted the chairman to summarise the minutes and to send directly its progress report to WG SE.

- **Next meeting in SE19**

The next SE19 meetings were scheduled for the following dates:

- Meeting 55: 24-25 November 2010 (Biel, Switzerland).

## 13. Any other business

Info2 document was presented by the Netherland presenting the activity in CPG-PTA as part of the agenda 1.13 on the possibility to open the band 24.65-25.25 GHz to FSS in Region 1. Administrations present in SE19 were made aware of this activity.

Course of Action:

1. none

## Web page

Any comments/remarks/correction to the SE19 web page [www.ero.dk/wgse/se19](http://www.ero.dk/wgse/se19) should be sent to [kermoal@ero.dk](mailto:kermoal@ero.dk). The ECO will update the web page with the latest news.

## 14. Closure of the meeting

The Chairman thanks the Republic Telecommunication Agency of the Republic of Serbia (RATEL) for their hospitality and their excellent facilities.

He also thanked the participants for their active contributions and their sense of consensus and open dialogue. He also thanks the DG's chairperson for their efforts which made this meeting a success.

He finally wished everyone safe trip home and closed the meeting.

## List of participants

<b>Surname</b>	<b>First name</b>	<b>Organisation</b>	<b>Country</b>
Kermoal	Jean-Philippe	ECO	-
Macchi	Roberto	SIAE Microelettronica	-
Ali	Nasarat	Ofcom UK	UK
Pavsek	Meta	APEK	Slovenia
Le Berre	Pascal	ANFR	France
D'Acierno	Alessandro	Huawei Technologies Italia	-
Rullo	Antonio	OFCOM CH	Switzerland
Gaul	Dietmar	BnetzA	Germany
Gross	Gerhard	BnetzA	Germany
Klaris	Thomas	BnetzA	Germany
Tanem	Torbjørn	Telenor	-
Karlsson	Håkan	TeliaSonera	-
Shooss	Oliver	Vodafone (Germany)	-
Simoni	Massimiliano	Telecom Italia	-
Sporysz	Przemyslaw	Orange (poland)	-
Markussen	Atle	Norwegian post and Telcom. authority	Norway
Vucic	Aleksandra	RATEL	Serbia
Budisin	Marica	RATEL	Serbia
Stefanovic	Aleksandra	RATEL	Serbia
Tosic Lazic	Dragana	RATEL	Serbia
Danielson	Thomas	Ericsson	Sweden
Coric	Magdalena	Communications Regulatory Agency of B&H	Bosnia and Herzegovina
Teinsma	Herman	Radio Agency	Netherlands
Constantin	Gabriela	ANCOM	Romania
Mihaita	Comanici	ANCOM	Romania

## Agenda

Agenda Items		Ref Documents	Input DocumentsSE19#
1	Opening of the meeting		
2	Adoption of the draft agenda and attribution of docs		SE19(10)56
3	Report of the last SE19 meeting, WG SE and ECC meeting		
4	LS from other groups		SE19(10)38, 42, 57,62 + annex
5	Support to CPG-PTD		SE19(10)59,60
6	RIS Template		SE19(10)61+annex1
7	Contribution WI SE19_22 (High Altitude Platform Stations (HAPS) in the range 5850- 7075 MHz)	SE19(10)36 Annex 4 DG HAPS	SE19(10)53, 54,63
8	Contribution WI SE19_23 (Review of ECC/ERC Recommendations)	General approach	
		ECC REC (02)06	SE19(10)36 Annex 5 DG 7125-8500 MHz
		ERC/REC/(00)05, ERC/REC/(01)03, ECC/REC/(04)06	SE19(10)36 Annex 6
9	Contribution WI SE19_24 (Coordinated inputs to ITU-R: WP5C)	SE19(10)36 Annex 7 DG X-ref ECC-ITU	SE19(10)55 +Annex 1
		SE19(10)36 Annex 10 DG ITU-R_revision	SE19(10)44rev2, 45rev1, 46, 47, 48, 49, 50, 58 SE19(10)36 Annex 8,9
10	Revision of the ECC Report 003 "Fixed Service in Europe - Current use and future trends Post-2002"	SE19(10)36 Annex 11 DG ECC Report 003 revision	SE19(10)51rev1, 52
11	Future work and meetings of SE19 <ul style="list-style-type: none"> <li>SE19#55: 24-25 November 2010 in Biel</li> </ul>		
12	Any other business		Info2
13	Closure of the meeting		