
IEEE P802.11
Wireless LANs

PT SE24

SE24(97)157a
30 September 1997**MINUTES OF THE 16th MEETING OF PROJECT TEAM SE24:**
SHORT RANGE DEVICES

Blarney, 18 - 19, September 1997

1. Opening

The chairman bade the delegates welcome to Blarney and thanked Mr Brooker for the opportunity to hold the meeting in Ireland.

The list of participants is annexed.

2. Approval of the agenda

The agenda (doc. (97)130a r.1) was approved with the addition of a general discussion related to the ETSI standards to item 10 (Any other business).

3. Minutes of the last meeting

The minutes of the 15th meeting (doc. (97)129a) were approved without any changes.

4. Reports from WGSE meeting in Moscow and WGFM in Troms;

The chairman gave a short report on the WGSE meeting held in Moscow. The SE24 progress report is doc. (97)132 and the extract of the WGSE minutes doc. (97)142.

- The draft decision for EN 300 220 was approved and sent to the next ERC meeting.
- WGSE sent to WGFM a liaison statement (doc. (97)146), in which it supported the earliest possible publication of ERC Rec. 70-03. WGSE also agreed with the view that the agreed parts of 'Annex 9' could be published earlier than the whole annex is finished. The frequency band 7.4 - 8.8 MHz could be added to the recommendation with the field strength value of 8.5 dB μ A/m although the study was not yet completed.
- The draft report on 2.45 GHz band was sent to WGFM for consideration with the note that Germany, Italy and the Russian federation gave their reservations to the proposals, doc. (97)145.
- The preliminary study of the band 138.2 - 138.45 MHz was sent to WGFM for information, doc. (97)144.

WGSE received a letter from Mr Scheele, the chairman of PT FM23. PT FM23 requested SE24 to study the new proposals for Euroloop system.

Mr Connolly reported, what happened in WGFM meeting in Troms; related to the SE24 matters doc. (97)152.

- WGFM had decided to publish the ERC Rec. 70-03 with annexes 1 to 8. 'Annex 9' was left outside because all the compatibility studies in SE24 had not been completed.
- The Maintenance Group was asked to study the WGSE proposal on 2.45 GHz as well as the possibilities to introduce spread spectrum applications at 2.45 GHz band.
- WGFM had noted the preliminary compatibility study between aeronautical mobile systems and SRDs in the band 138.2 - 138.45 MHz. WGFM urged SE24 to complete the studies so that spectrum in that frequency band could be made available for SRDs, although the relevant information about the military use is still missing.

5. View of input documents

SE24(97)1 is the list of documents.

6. Draft Decisions for I-ETS 300 220, 300 330 and 300 440

Both standards I-ETS 300 330 and 300 440 are under revision right now and are not stable enough for the decisions yet.

7. Compatibility studies related to the revision process of SRD Recommendations

7.1 SRD Recommendation (70-03), WGFM and the Maintenance Group (MG)

The report of WGFM caused heavy debate in SE24. First of all the SE24 members were disappointed that the publication of 'Annex 9' will be delayed for at least one year now. The requirement that the whole annex shall be ready before publishing it was considered to be against the original idea of a 'living' recommendation. Some participants also felt that WGFM seems to urge every study in SE24 but as soon as something is completed WGFM does not take much note to the results of the studies.

The discussions revealed that there seems to be some confusion about studies, which were requested by WGFM. Although PT FM26 requested (one and a half years ago) SE24 to study the possibilities to introduce RF-anti-theft systems in the bands 1650-2200 kHz, 2940-3560 kHz and 7400-8900 kHz, it was agreed later that the whole band below 30 MHz should be studied. (This is also mentioned in documents FM26(96)180 - progress report to WGFM - and FM26(96)181 - minutes of the PT FM26 meeting.) Based on the discussions the view was that WGFM seemed to want now that SE24 concentrates only on the three above mentioned bands. (This may be a consequence of several 'draft Annex 9' versions, some of which still contain the 'originally requested' three bands and the bands haven't been changed according to the change agreed in FM26.) This raised the question, what will happen to the other SE24 studies below 30 MHz and is there any possibility to have harmonised limits for inductive systems outside the three bands mentioned in the original request.

As a conclusion discussions SE24 decided to send a liaison statement to the MG and clarify the current situation and the SE24 view of its own mandate.

7.2 EAS in the band 7.4 - 8.8 MHz

Mr Davies had revised doc. (97)115 rev.2 based on comments received during the Helsinki meeting. The draft report was handled in details during the meeting and a new draft was prepared. The main change to the previous version is that all propagation related matters are put in an annex. Nedap had modified the propagation model used in Helsinki meeting but the results remained basically the same, doc. (97)155.

The members should send their comments to the new draft to Mr Davies by 10 October 97 and the new version will be sent to the members by email by 24 October 97. The aim is to finish this study in the London meeting.

7.3 6.78 MHz and 13 MHz

Mr Sørensen presented doc. (97)124 r.1 and the conclusion was that the Class I limit of report could be acceptable if the views in doc. (97)115 are accepted.

The chairman raised the question about the future of this document because she felt that if WGFM considers that this study was not requested/agreed with WGFM, it will not be easy to have these proposals approved in WGFM. The 'RES08' members clarified that there was a request from ETSI (see item 10.3). It was noted, however, that the harmonisation of the bands and the relevant field strength levels will need the approval of WGFM.

It was felt that the best way forward now, when there is some confusion about the liaisons between the different groups, is that 'RES08' could send a request to the MG. The SE24 chairman will clarify the existing problem in the liaison statement - if there is a full agreement between different groups that SE24 can study and propose suitable frequency bands and the relevant field strength levels to the MG, at least part of the problem is solved. If also WGFM will agree with it, SE24 can bring the study to the January WGSE meeting and hopefully further to WGFM.

7.4 The liaison statement to MG

A drafting group prepared a liaison statement, doc. (97)156, which will be sent to the MG together with doc. (97)154 and relevant extracts from FM26 documents (96)180 and 181. It was proposed to add some specific items (frequency bands) to the liaison statement but, in general, it was felt that it is more important right now to clarify the procedures of co-operation with the MG and WGFM.

8. Technical problems associated with proposals from ETSI concerning 2.4-2.5 GHz

WGFM had sent the draft report on the use of 2.45 GHz band further to the MG for consideration. The MG was also asked to study the possibilities of introducing spread spectrum systems in the same band, possibly in co-operation with SE24. There is no request for SE24 for additional studies right now.

The draft report on 2.45 GHz cannot be approved as an ERC Report as long as the proposals in the report are in conflict with the other ERC regulations. It was also noted that there is an increasing demand for higher power systems in this band.

9. SRDs in the band 138.2 - 138.45 MHz band

Mr Marzouk reported that WGFM felt that all scenarios were not taken into account in the preliminary study. It was noted in SE24 that new scenarios will not change the conclusions of the existing scenarios that co-channel sharing is not feasible.

The information about the military use, especially about the channellisation, is still missing and the report cannot be completed without this information. Also, there is no urgent demand from the manufacturer's side to complete the studies.

10. Any other business

10.1 Eurobalise

Mr S;rensen presented doc. (97)143, a compatibility study about Eurobalise system based on the same principles that are used in the other two studies below 30 MHz. It was questioned, why this document was prepared because SE24 had already finished the study about Eurobalise and CB equipment requested by FM23.

Mr Marzouk informed that WGFM had discussed about the possibility of moving Eurobalise 20 kHz downwards to the telemetry band to avoid the interference to CB. The decision is, however, not yet made in WGFM.

10.2 Euroloop

Mr Loder presented docs (97)137 and 138 about the Siemens proposal for UIC Euroloop system. In this proposal Euroloop would be an extension to Eurobalise systems operating in the frequency band from 2 to 8 MHz.

It was agreed that the need of Euroloop can be handled together with the other studies below 30 MHz. It was also noted that the proposed field strength level 7 dBTA/m seems to be below the train noise level. Mr Loder and Mr Giles try to find more information about the train noise for the next SE24 meeting.

The other proposal for Euroloop is a system operating at 2.45 GHz band. The chairman will send a document about this for the next SE24 meeting.

10.3 ETSI standards

Mr S;rensen presented doc. (97)154 about the 'spurious emission limit' 250 nW as a relevant H-field strength limit @ 10 m as a function of frequency together with the current state (and expected results) of the SE24 studies below 30 MHz. The purpose is to show the difference of the current field strength limits in I-ETS 300330 (which were approved in pE) and the generally agreed spurious emission levels. The aim of ETSI and SE24 is to determine reasonable limits for inductive systems in this band (this does not mean that inductive systems should be allowed in the whole band). Without a co-operation with WGFM it is impossible to harmonise these bands and the relevant field strength limits.

Mr Horvath raised a question whether the broadcasting bands below 30 MHz have a lower spurious emission limit (than 250 nW) as they have in other bands. This will be checked.

Manufacturers reminded that there was a request from ETSI to study the whole band below 30 MHz, too. Bearing in mind the ETSI ERC MoU 'RES08' had sent a liaison statement to SE24 chairman. At that time there were no confusion about the working area of SE24 and the letter was in line with the studies going on at the same time in SE24. The view of administration members were that the liaison statement from ETSI should be sent to WGSE chairman.

As a conclusion it was agreed that when studies about some 'additional' frequency bands (in relation to the original request of FM26) are almost finished the procedure between SE24, MG, WGSE and WGFM of how to work towards harmonisation in a best way shall be clarified so that everybody has the same understanding. ETSI 'RES08' needs this information (and also harmonisation) as soon as possible when it revises the standard I-ETS 300 330. The situation will be explained in the liaison statement to MG and doc. (97)154 is annexed to it for clarification. Mr S;rensen promised to add some clarifications to the hand written scetch and send it to the chairman as soon as possible.

11. Places and dates of the next meetings

17 - 18 November 1997, London
12 - 13 January 1998 Helsinki (?)

12. Closure of the meeting

The chairman thanked the participants for their active participation to this more or less therapy meeting. It is clear that the procedures for co-operation between different groups have to be clarified. She wished that the next SE24 meeting could concentrate more on technical matters. Finally she thanked Mr Brooker for hosting the meeting and wished everybode a safe journey back home.

MINUTES OF THE 16th MEETING OF PROJECT TEAM SE24:**HIPERLANs**

Blarney, 17 September 1997

1. Opening of the meeting

The chairman, bade the delegates welcome to Blarney.

The list of participants is annexed.

2. Approval of the agenda

The agenda (doc. SE24(97)130b r.1)) was approved without any changes.

3. Minutes of the last meeting

The minutes of the 15th meeting (doc.(97)129b) were approved with one minor correction, the word 'work' was added to the last sentence.

4. Reports from WGSE meeting in Moscow and WGFM meeting in Troms;

Chairman reported on the Moscow WGSE meeting. The extract of the draft minutes is doc. (97)142. The SE24 progress report on HIPERLANs, doc. (97)133 had been sent to WGFM for information. The covering letter from WGSE for the report is doc. (97)147. The only comment related to the SE24 report was to the doc. (97)21 r.4 (Annex a of the progress report), when WGSE felt that the Radio Regulation (RR) part of the summary table should be written in similar way that it is in RR. In relation to other ongoing HIPERLAN studys PT SE28 reported on the different views of BRAN and MSS Community about the HIPERLAN parameters and deployment scenarios, see doc. (97)141.

Mr Connolly informed that he had contacted the NATO representative in relation to the SE24 liaison statement to WGFM Civil/Military meeting. The request will be discussed in a NATO meeting in September. SE24 felt that earlier information would be useful and the administrations were encouraged to contact their military people. UK, France and Finland had already done this but all the answers were not yet available. Mr S. Bond informed that in UK the density of military radars seems to be quite low and their military people presumed that aeronatical and maritime radars could have more problems in sharing with HIPERLANs.

Mr Connolly reported on the WGFM activities related to HIPERLANs, doc. (97)152. As a response to the SE28 question about the status of HIPERLANs in the current HIPERLAN band 5.150 -5.250 MHz WGFM had concluded that HIPERLAN is co-primary service with MSS feeder links in countries mentioned in RR footnote S5.447. This conclusion is important for instance when the required protection criteria is chosen.

WGFM confirmed that SE24 should finish its studies as soon as possible. Germany had informed that they had withdrawn the analog FS use in the possible HIPERLAN extension band and so SE24 should give priority to the FSS sharing studies.

5. View of input documents

SE24(97)1 is the list of documents.

6. Extension band for HIPERLANs

General

There had not been enough time to modify doc. (97)21 r.4 according to the guidance from WGSE.

Mr Marzouk had revised doc. (97)90 r.2 to take into account the text from Mr Kruys about the use of 17 GHz. It was noted that although the ERC Decision of HIPERLAN frequencies covers parts of the ERC Rec. T/R 22-06, that is the current HIPERLAN band, the other parts of the recommendation are still in force.

The justification for the spectrum requirement is still to be done, Mr Kruys promised to take the task. It was concluded that a wider allowable spectrum improves the possibilities of implementing dynamic channel allocation. A practical upper limit for the HIPERLAN tuning range is 500 MHz. The outdoor use of HIPERLAN does not determine the spectrum requirement but the HIPERLAN use in offices, where the capacity demand is the largest. Mr Kruys informed that in the US the use of HIPERLANs is not much regulated: 1 W power and 6 dB antenna gain are allowed without licences and there is no standard for HIPERLANs.

Mr S. Bond presented doc. (97)136, a RA report on building shielding loss at 5 GHz. The report contains information about other 5 GHz building propagation studies and concludes that a suitable conservative value for the building loss at 5 GHz would be 25 dB. On the other hand ICO Global Communication concludes in doc. (97)151 that a suitable value would be 8 dB, based partly on the same reference documents that were referred in doc. (97)136. It was noted that the figures in different studies cannot be compared if the wall types and details of the measurements are not known. Mr S. Bond promised to ask the author of doc. (97)136 if it could be revised, so that the details of the measurements can be seen. It was also noted that this information about the propagation attenuation is needed for SE24 studies and we need not wait for the results of the discussions in SE28. If we manage to clarify the difference between the two propagation views, the clarification could be sent to SE28, too.

The doc. (97)134, a letter from BRAN to ETSI ERM/RPM Chairman was noted. Mr Connolly's report on WGFM covers the WGFM response to this document.

Radars at 5.5 GHz

In addition to the lacking information about the military radar use the administrations were asked to find information about the aeronautical and maritime radar use in their countries.

RTTT

Mr Connolly presented revised doc. (97)63 r.3. The document contains some proposals to modify it more and Mr Connolly will continue the work on it.

HIPERLAN parameters

Doc. (97)141 from WGSE about the differences of views on HIPERLAN parameters was distributed for information. Mr Kruys promised to send to the chairman a document about the calculation of HIPERLAN active/passive ratio. It was concluded that very likely SE24 has to create/approve the figures for studies without the output of SE28 due to the time schedule.

Mr Kruys presented doc. (97)148 r.1 about HIPERLAN parameters and scenarios. It was noted that the presentation was really needed to be able to read and understand the document. Some errors were noticed during the presentation and Mr Kruys will send the modified version to the chairman by 28 September. Everyone were requested to read this document carefully and to prepare comments to the revision 2 of the document. The comments will be discussed in the next SE24 meeting.

Doc. (97)150 contains ICO Global Communications comments to the doc. (97)148. The comments were noted.

FSS

Nothing new was presented to this item.

Fixed service

It was noted that Germany had informed to have withdrawn the analogue FS in the band 5.755 - 5.850 GHz.

Doc. (97)123 about FS parameters (an extract from a SE19 report) was distributed for information. Mr S. Bond clarified that the parameters for the band 5.85 - 5.925 GHz were for a Japanese system, which is not in use in Europe. The other system in the band 5.85 - 6.425 is not in use in Europe either.

Mr S. Bond presented doc. (97)135 about the ENG/OB and FS use of the 5.25 - 5.875 GHz bands. In UK there are several ENG/OB assignments for long hops. The administrations were asked to check whether the situation is the same in other countries, too. Mr Connolly will check whether ERO has collected information about ENG/OB use. The document also lists the countries, where FS is used in the 5 GHz band according to the draft ERO report on FS: It is supposed that the listed countries do not use this band according to the ITU-R or ERC Recommendations. France informed that information of their possible FS use is not yet in the list in the ERO Report. The preliminary calculations show an interference distance of about 40 km between FS and HIPERLANs if 25 dB building attenuation is assumed.

7. Any other business

There were no other business.

8. Place and date of the next meetings

3-4 November 1997, Paris

14 January, Helsinki (?)

9. Closure of the meeting

The chairman thanked the participants for their contributions and wished those, who were leaving the meeting after the first day a safe journey back home.

Project Team SE24
16th meeting
Blarney, 17 - 19 September 1997

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* 17 September 1997

** 18-19 September 1997

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