

Status: approved

Place: Paris
Date: 1985.06.10 - 14
Participants: see annex 1
Agenda: see annex 2
Documents: see annex 3

1 OPENING OF THE MEETING

Mr Damlamian who is responsible for the mobile services within the French Administration opened the meeting by wishing the delegates welcome to Paris and CNET. The French Administration, said mr Damlamian, supports lively the work for a future pan-European mobile service and hopes that the joint Franco-German cooperation project will provide essential contributions to this effort. Mobile services are difficult to standardize but a first important step forward has been made with the harmonisation of the use of the 900 MHz band. It is essential that the GSM system will allow service for users all over Europe.

2 APPROVAL OF THE AGENDA

(ref. annex 2)

The proposed agenda was approved.

3 LISTING OF RELEVANT DOCUMENTS

(ref. annexes 2 and 3)

The documents to be considered during the meeting were GSM Doc 36/85 - 78/85. In addition documents 84/84 Rev. 2 and 28/85 Rev 2 from previous meetings were discussed.

Annex 2 shows to which agenda item the documents belong.

4 REPORT FROM GSM MEETING No 7

After some smaller amendments and clarifications regarding the notes on the GSM Working Plan, the report was approved. The number of the document is 44/85.

In connection with this agenda item some discussion arose on which of the CEPT Working Groups - GSM or SF - should bear the main responsibility for defining services and facilities in the future pan-European mobile system. The opinion of the meeting was that GSM should have this responsibility. Dr Spindler was asked to discuss the matter with the chairman of WG SF.

5 REPORT FROM OTHER GROUPS

Before starting the reports from the various groups, the Chairman informed the meeting of the intention of ESA to investigate the possibilities to start a mobile satellite system and to run this as a system operator. A meeting with ESA and CEPT-CCTS will take place in Paris during the same week as the present GSM meeting. The GSM Chairman will participate partially in that meeting.

A CCH

The Chairman informed of the latest CCH meeting which had discussed the GSM Working Plan. CCH still wishes to see the Detailed Specifications now scheduled for mid 1988 (at the earliest) finalized already by the end of 1987. From the discussion it appears that CCH is most concerned about the point of time when the industry can be given something to work on. For this reason it seems possible to meet the CCH requirement by issuing parts of the Detailed Specifications in a preliminary form at an earlier date.

Regarding the question of a Permanent Nucleus (PN), CCH found that it should be financed by the CEPT Administrations and not by EEC. CCH supported the proposal of the GSM Chairman to ask Com-T for the permission to start this PN at the time GSM finds suitable. The proposal will be put forward to Com-T at its next meeting. CCH also granted the permission to set up permanent Working Parties meeting between the GSM conferences in order to speed up the work.

Regarding cooperation with BCR, CCH approved the idea of having an informal meeting with representatives of GSM and BCR at a suitable occasion.

On a question from mr Jacobsen what country or organisation is the driving force behind the requirement for a shorter time schedule, several delegates declared that it was EEC. Different views on the need to move fast in this matter, were expressed. Denmark and Switzerland declared that they were not in a hurry for a new system considering that they have decided to implement NMT-900 in a few years time, and - in the case of Denmark - 2x10MHz have been reserved for that system. France and FRG on the other hand maintained their earlier position advocating a fast schedule. Reference was made to statements from Cellnet and Racal Vodaphone that if a digital system - which has to be substantially better than today's analogue systems - does not appear in time, the remaining portion of the 900 MHz band in the UK will be used up by the present TACS systems.

The Chairman reminded the meeting that the time schedule defines the time when the specifications should be finalized, which is not necessarily the same as the time of implementation of the system in all countries.

B TMS

The Chairman reported that he had been in contact with mr Liekens who is the chairman of BCR and that a meeting will be arranged during this meeting.

TMS has been encouraged to provide contributions on radiowave propagation and modulation methods and they have declared that they are interested in doing this.

C WGR

The Chairman introduced Doc 36/85 which is a letter from mr Petti informing about the intention of WGR to study the application of cordless telephones in land mobile systems. R22 will study both the frequency allocation matter and the technical matters.

A discussion arose on the need for clarifications regarding the range of such a CT device. The delegation of Netherlands offered to draft a contribution to R22 on this (Doc 71/85). The viewpoints of WGSF have been taken into account.

D WGSF

Mrs Alvernhe introduced Doc 41/85, drawing particular attention to the priority classification of the services presented in the table of the document. This is an answer to a question from GSM.

The meeting asked WP 1 to go through the document. When revised (if needed) it should be sent to TMS.

E Expert group on network functions

Mr Audestad introduced the report of the expert group, Doc 38/85. Special attention was drawn to the need of limiting the number of closed user groups of which a subscriber can be a member. Some discussion also took place on the problems of OACSU in connection with data transmissions.

F Expert group on low bit rate coding

Mr Maloberti introduced Doc 52/85, and asked GSM to express an opinion on the need for an analogue reference system for evaluation of different types of digital speech codecs. (Re Annex 6 of the document). The delegation of UK objected against the conclusion of the expert group that the quality of speech in a digital system should not have to be better than present analogue systems under all propagation conditions.

The attention was drawn to the need for defining a total processing delay which could be used for deciding whether or not echo control devices are needed. This total delay should include delays due to coding and encryption.

UK informed of the existence of a hardware codec with a delay (encoding + decoding) of less than 16 ms. It is expected that the delay of this codec can be reduced to 10 ms.

G Expert group on security

Mr Ghillebaert introduced Doc 54/85, and some of the working papers of the expert group were circulated for information. A discussion took place on a paragraph in one of the working documents which states that a lower level of security could be considered for hand-held equipment due to power consumption reasons. The delegation of Denmark claimed that this was unacceptable from the customer's point of view. UK considered it acceptable provided that optional high level of security equipment will also be available. Norway drew the attention to the problem of having different levels of security in the same network, considering that the counterpart might not be aware of what sort of equipment a mobile subscriber uses.

6 ORGANIZATION OF THE GSM WORK

Due to lack of time this agenda item was never discussed. However, for the next GSM meeting it will be necessary to discuss the question of how and when a Permanent Nucleus should be set up and what should be the task of it. The Chairman asked the delegates to think it over for the next meeting and to provide contributions.

7 SYSTEM REQUIREMENTS

Mr Audestad introduced Doc 37/85 which is a proposal for a further specification of our Terms of Reference. After some discussion on the need for more precise requirements, in particular concerning hand-held equipment, speech quality, international roaming and multi-operator environment, the meeting decided to have a Working Party (WP 4) to work out a document giving GSM's views concerning this point.

Mr Pernice introduced Doc 43/85 which did not cause any comments. Mr Lawrence introduced Doc 45/85 on the possibilities to introduce lower (8 kbit/s) speed speech codecs in the future from a signalling point of view. The need for signalling for this purpose has been considered by WP 3 which have found the implementation of it quite feasible.

Mr Hovi introduced Doc 46/85 which proposes the use of so-called personal numbers. The meeting agreed that the idea is very interesting. However further studies are needed. The idea should be brought to the attention of GSI, since it does not concern mobile networks only.

Mr Ghillebaert introduced Doc 57/85 which proposes another structure for classification of the services.

8 LOW BIT RATE SPEECH, ENCODING, MODULATION AND MULTIPLE ACCESS TECHNIQUES

Mr Löken introduced Doc 53/85 which did not cause any discussion.

Mr Temple informed about a UK R&D program (Doc 63/85), stressing that the program is focused on basic research and not on solutions of realisation problems. The first results of the studies can be presented in the third quarter of 1986. Since this is somewhat late, it is desirable that the UK delegation provide information continuously about the progress of the work if possible. Mr Temple also offered to put 900 MHz equipment at the disposal of GSM for experiments and evaluations.

The need for a group that collects the information coming out of all the study projects was discussed. The Chairman suggested that WP2 should be given this task.

Mr Fremin introduced Doc 60/85 which informs of a study of transmission at bit rates around 250 kbit/s.

Mr Ghillebaert informed about the progress of the Franco - German cooperation project (Doc 64/85). The attention was drawn to the figure of 6 kbit/s in the middle of page 2.

The experiments will be carried out in Germany and in France. On a question from UK, if evaluation of the different system proposals could be done in exactly the same place, Mr Ghillebaert answered that this was not the case.

9 COEXISTENCE OF VEHICLE-BORNE AND PORTABLE STATIONS

Due to lack of specific contributions this matter was not discussed, except for the extent to which it was covered by the discussion under other agenda items.

10 NETWORK FUNCTIONS

Mr Fuhrman introduced Doc 59/85 which presents the results from simulations of Off-Air Call Set-Up. The conclusion of the document is that OACSU saves some capacity when applied to ordinary telephone traffic, whereas it is not useful in connection with data traffic due to the short answering times one can expect in these cases.

Mr Audestad mentioned that CCITT has studied OACSU, reaching the conclusion that OACSU can be implemented on a national basis and for calls terminating within that country.

Mr Cheeseman questioned that the extra complication of OACSU could be justified, considering that only a limited amount of traffic can benefit from it.

The meeting concluded that OACSU capability should be included in the system since several countries wish this option and the implementation of it seems relatively easy provided that it is done from the start.

Mr Cheeseman went on introducing Doc 51/85, which presents some considerations on OACSU. He concluded that further analysis of the consequences from the fixed PSTN subscribers' point of view are needed. Mr Audestad added that also the consequences of OACSU on the signalling should be studied.

Mr Cheeseman hoped to be able to bring data from the TACS-system which could be used for evaluation of OACSU at the next GSM-meeting.

The attention was drawn to the fact in low traffic areas there is no need for OACSU.

Documents 39/85, 40/85, 55/85, 56/85 and 58/85 were introduced. Considering the specialized nature of the documents all further discussions on them were referred to WP 3.

WORKING PARTIES

The following Working Parties were set-up:

WP 1	Mrs Alvernhe	Services & Facilities
WP 2	Mr Maloberti	Low bit rate speech, encoding, modulation and multiple access techniques
WP 3	Mr Audestad	Network aspects
WP 4	Mr Haug	System Requirements

REPORT OF WORKING PARTIES

WP 1

Mrs Alvernhe reported that the WP had dealt with 3 matters, as follows:

- The WP 1 found that they should not change the document from SF3 (Doc 41/85) when sending it to TMS. Instead, the WP proposed that the comments of GSM should be added as a covering letter. After some discussions however, GSM came to the conclusion that the SF3 document should not be sent to TSM at all.
- The tables of Doc 28/85 Rev 2 from Oslo have been redrafted in order to bring the terminology in accordance with existing definitions. Table 4 dealing with supplementary services had been revised.

Several other changes of editorial nature had been done. The WP1 had also identified the need for further study of the implications with respect to charging. After some discussion and clarifications, the document was approved for being sent to the industry together with a covering letter (Doc 66/85).

Regarding the interaction with SF3, WP1 found that this should be dealt with by GSM. However a GSM reaction on the draft report of SF 3 had been drafted (Doc 65/85). The meeting decided to submit this to SF 3. The GSM Chairman will discuss the exchange of documents between SF and GSM with the SF-chairman at the T-Com meeting in June.

WP 2

Mr Maloberti introduced the report of the Working Party, Doc 72/85. The document caused a long discussion and the text was modified at several points. Among the subjects which caused discussions were:

- Selection criteria: The method and the difficulty of comparing the speech quality with that of existing analogue systems. The possible use of Rec TR17 (for cordless telephones) instead of an analogue reference system.
- Additional evaluation criteria: Compatibility with ISDN. Implementation cost. Flexibility with respect to further development of the system.
- The reference bandwidth used for evaluation of candidate systems.
- The need to assess the complexity of the signalling systems associated with the various system concepts. A close cooperation between WP2 and WP3 is needed.
- The accordance of Doc 72/85 with Doc 73/85, is particular on the subject of hand-held equipment and speech quality.
- The use of variable rate codecs.
- Echo-cancellers in mobile stations.

Finally the document was approved. The meeting decided that it should be sent to COST 207. The same applies to Doc 64/84 Rev 2.

WP 3

Mr Audestad presented a comprehensive draft of the report of the group, which did not give rise to any questions. The report contains a first draft of a specification of the signalling on the radio path. The document will be divided into 5 parts (Doc 69/85 and Doc's 74-78/85). They should be sent immediately to CS-SIG. After being reviewed by WP3 at the next meeting the documents will be sent also to CS-PAR. For the moment CS-PAR should only be asked to appoint a liaison.

WP 4

Mr Temple introduced Doc 73/85 which is based on Doc 37/85. After a few amendments, the document was approved as the new basic requirement specification for the GSM system.

The document will be sent to bodies outside GSM with a covering letter stating that the document supersedes section 3 of GSM Doc 2/82.

11 TRAFFIC MODELS

Mr Melis presented Doc 42/85 Rev 1, which is a new version of document on traffic data from existing systems.

The delegation of UK pointed out that the figures of UK are not valid since they have been submitted before the implementation of the TACS-system. Up-dated figures will be available before the next meeting.

Since the purpose of Doc 42/85 Rev 1 is mainly to provide input to a traffic model, the meeting agreed that the document was of limited value for the industry and thus decided not to send it to the industry organisations. If it will be distributed to industry at a later stage, the comments and explanations of GSM should be included.

The delegation of UK announced that they expect to provide a contribution on the traffic model for the next meeting.

12 TARIFF STRUCTURES

Mr Klingler presented a revised version of Doc 84/84. Two more countries have been included.

13 REPORT ON THE COST ACTIVITIES CONCERNING LAND MOBILE COMMUNICATIONS

The reports of COST 207, Doc's 47/85, 48/85, 49/85, 61/85 and 62/85 were briefly introduced by Mr Failli.

Under this agenda item a discussion on the ownership of technical solutions took place. Mr Failli referred to Doc 62/85 Annex 3 and claimed that the requirements of CEPT on free use of the results had been taken care of, since the COST Management Committee had approved the document. The Chairman claimed that the agreement had to be approved on ministry level in order to become legally binding.

The meeting was in agreement that the "ownership requirement" of GSM concerns the radio interface solutions and not the technical realisations of it.

A joint COST 207 - TR3 Working Group will be set-up.

14 ANY OTHER BUSINESS

Dr Spindler informed about the draft recommendation from WG R on free circulation and use of GSM mobile stations which is expected to be adopted by Com-T in June 1985.

The distribution of GSM documents outside the group was discussed. Several delegates advocated a liberal attitude to distributing GSM output documents and a restrictive attitude for input documents. The Chairman encouraged the delegates to provide contributions on the principles and rules for distribution at the next meeting.

Mr Failli reminded of the workshop on mobile communications in Bologna.

15 NEXT MEETING

The following meeting schedule was agreed:

Meeting no 9:	1985.09.30--10.04, in Berlin
Meeting no 10:	1986.02.17--21, in Athens (according to a later change)
Meeting no 11:	1986.06.09--13, in Copenhagen

16 CLOSING OF THE MEETING

The Chairman thanked the French Administration and the secretariat for their excellent work. The meeting was closed.

CEPT-CCH-GSM
Meeting no 8
Paris, 1985.06.10 - 14

List of participants

Chairman:	T. Haug
Secretary:	T. Beijer
Denmark:	M. Jacobsen G. Nilakantan H. H. Olsen
Finland:	M. Hovi M. Pasanen
France:	P. Dupuis B. Ghillebaert P. Abouardham M. Alvernhe J. C. Bénard-Dendé D. Berthoumieux G. de Brito A. Maloberti M. Mouly M. B. Pautet
FRG:	K. Spindler F. Hillebrand F. Pernice W. Fuhrmann H. W. Lawrenz
Greece:	T. Thanopoulos
Italy:	R. Failli M. Farioli M. Sentinelli
Netherlands:	M. van Beveren L. Melis
Norway:	J. Audestad B. Loeken P. Bliksrud
Portugal:	O. Reis Luis

Spain:	G. Lluch
Sweden:	G. Fremin A. Heidermark C. Odholm
Switzerland:	R. Klingler
United Kingdom:	S. S. Temple R. Stewart D. M. Barnes D. S. Cheeseman J. Pearce D. Targett
CEPT/SSA	S. Elovsson

CEPT-CCH-GSM
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Paris, 1985.06.10 -14

AGENDA

	Applicable documents (/85)	
1	Opening of the meeting	
2	Approval of the agenda	
3	Listing of relevant documents	
4	Report from GSM meeting no 7	44
5	Report from other groups	
	A CCH	32, 34, 35
	B TMS	
	C WGR	36, 71
	D WGSF	41,65, 66
	E Expert group on network functions	38
	F Expert group on low bit rate coding	52
	G Expert group on security	54
6	Organization of the GSM work	
7	System requirements	37, 43, 45, 46, 50, 57, 73
8	Low bit rate speech, encoding, modulation and multiple access techniques	53, 60, 63, 64, 72
9	Coexistence of vehicle-borne and portable stations	
10	Network functions	39, 40, 51, 55, 56, 58, 59, 69 74-78
11	Traffic models	42
12	Tariff structures	84/84
13	Report on the COST activities concerning land mobile communications	47, 48, 49, 61, 62
14	Any other business	
15	Next meeting	
16	Closing of the meeting	

CEPT-CCH-GSM
 Meeting no 8
 Paris, 1985.06.10 -14

EXTRACT FROM GSM DOCUMENT LIST

<u>Doc No</u>	<u>Title</u>	<u>Source</u>
36/85	Letter from the chairman of WG R	WG R chairman
37/85	Overall system requirement specification for the the GSM-system	Denmark, Finland Norway, Sweden
38/85	Report from the meeting of experts on network aspects, Darmstadt	WP3 chairman
39/85	Signalling on the radio path	Denmark, Finland Norway, Sweden
40/85	Handling of supplementary services	Denmark, Finland Norway, Sweden
41/85	Work for a future PLMN	SF3
42/85 Rev 1	Final report on traffic data from existing mobile telephone systems	Rapporteur
43/85	Network functions	France, FRG Denmark, Finland Norway, Sweden
44/85	Report from GSM meeting no 7 (Oslo)	GSM
45/85	Necessity of system flexibility allowing for different subscriber bit rates	FRG
46/85	Personal number in the GSM-system	Finland
47/85	COST 207/16 "Modulation methods and their performance"	COST
48/85	COST 207/17 "Definitions"	COST
49/85	COST 207/33 "Modulation methods"	COST
50/85	Mobile networks in a multi operator environment	UK
51/85	Off-air call set-up, further considerations	UK

<u>Doc No</u>	<u>Title</u>	<u>Source</u>
52/85	Low bit rate speech coding applied to mobile radio	TR3
53/85	Channel arrangements in narrowband TDMA systems	Norway
54/85	Liaison report from the expert meeting on security aspects in the GSM system	Mr Ghillebaert
55/85	Implication of security aspects on protocols at the radio interface	France
56/85	Level 3 protocols at the radio interface and related functions	France
57/85	Comments on GSM document GSM 28/85 on services	France
58/85	Network layer specification of signalling sequences on the radio path	FRG
59/85	Quantitative simulation results for off air call set up procedures	FRG
60/85	Transmission of digital data at bit rates around 250 k bit/s for digital mobile radio	Sweden
61/85	Fourth report of the working group on Propagation	COST207
62/85	Report of the third meeting of COST 207 WG2 (Base band processes)	COST 207
63/85	U K R & D Programme on second generation 900 MHz cellular radio	UK
64/85	Information on the franco-german cooperation programme in the field of cellular mobile communication systems	France, Germany
65/85	Comments on SF3 T/GT7/SF3(85)6	GSM
66/85	Reply to TMS	GSM
67/85	Report of WP1 (Paris meeting)	GSM WP1
68/85	Unofficial English version of draft recommendation concerning free circulation and use of GSM mobile stations	
69/85	Report of WP3 (Paris-meeting)	GSM WP3
70/85	Projet de Recommandation relative à la libre circulation et à l'utilisation des équipements du système de radiotéléphone mobile GSM	WG R
71/85 Rev 1	Letter to WG R on cordless telephones	GSM

<u>Doc No</u>	<u>Title</u>	<u>Source</u>
72/85	Report of WP2 (Paris-meeting)	GSM WP2
73/85	Report of WP4 (Paris-meeting)	GSM WP4
74/85	Draft Specification: Signalling on the radio path	GSM WP3
75/85	Use of Recommendation Q. 931 in the GSM system. Cooperation with CS/PAR.	GSM WP3
76/85	Handling of supplementary services	GSM WP3
77/85	Hand-over procedures	GSM WP3
78/85	Comments to CD	GSM WP3