

CEPT-CCH-GSM
Meeting no 22
Madrid, 1989.03.06-10

GSM Doc 187/89

GSM MEETING REPORT (approved)

Place: Madrid
Time: 1989.03.06-10
Participants: See Annex 1
Agenda: See Annex 2
Documents: See Annex 3

1 OPENING OF THE MEETING

The director of Mobile Services in Telefónica, Mr Ruiz Vinuesa, opened the meeting by informing the GSM delegates about the latest developments in mobile telephony in Spain, and the efforts of Telefonica to meet the expectations on efficient means of communication in 1992 when the olympic games will take place in Spain.

2 ADOPTION OF THE AGENDA

The approved agenda appears as annex 2 to this report.

3 REGISTRATION OF DOCUMENTS

In addition to the recommendations, the documents listed in annex 3 were considered.

4 PREPARATIONS FOR THE TRANSFER TO ETSI

The chairman informed the meeting that the rules of ETSI are still not completely clear. It is expected that progress will be made at the next meeting of the ETSI TA which will take place at the end of March. The chairman will distribute information about the new rules after that meeting.

Doc 114/89, which sets the rules for the participation of industry in ETSI, was briefly introduced. According to the rules, participation of non-member industries is not desirable, and thus the existing practice used in CEPT - to allow participation from industry as part of the Administration - is not advisable.

The document handling routines used earlier in GSM will be retained.

5 **PN STATUS REPORT (Doc 121/89)**

In addition to the report, Doc 121/89 which contains a cost comparison between keeping the PN in Paris and moving it to Sophia Antipolis, was considered. Further, the attention was drawn to the unacceptable work load on the PN staff, and the fact that if no improvement is achieved soon, some of the PN members might decide to leave the PN. It was agreed to send Rev 1 of Doc 121/89 to ETSI to complement the letter from the GSM chairman to ETSI.

GSM 23 will review the situation concerning the work load on the PN members and the steps taken to overcome the increasing difficulties.

After some consideration of Doc 126/89, GSM noted that the PN intends to attend the next MOU-N meeting in order to exchange views on the approach to the recommendation on the system simulator.

6 **STATUS REPORTS OF WP's AND REVIEW OF RECOMMENDATIONS**

WP1 Status Report, Doc 122/89

GSM noted the resourcing problems of WP1, and the risk that - with the low participation - the WP1 work will no more reflect the opinion of all the parties involved in development of the GSM standard. In order to solve the problem, GSM recommended WP1 to contact the earlier delegates of WP1 and ask the Administrations through those persons for more resources.

Emergency number

GSM agreed that if the number 112 will be introduced in the fixed networks as a common European emergency number, it should also be implemented in GSM. However it was noted that this number also needs to be burned into the mobile stations, in order to allow emergency calls from mobile stations without a valid SIM. Considering that a decision on the use of 112 in the fixed network is expected within short, GSM decided to postpone the decision. It was pointed out however, that a decision from GSM must be taken before the end of 1989.

Rec 00

The WP1 proposed that the PN take over the responsibility for this recommendation. The PN accepted this proposal.

SIMEG

The three different patent categories were explained and it was noted that category 3 is the difficult one. One patent falling into this category has been identified. GSM concluded that the advise of WP5 is needed also for the SIM patents.

Rec 01.07, version 2.0.0 (Covering Note in Doc 129/89)

A number of delegates questioned the need for this recommendation since there is already a change request procedure which has proved to work satisfactorily. It was explained that the procedure defined in the recommendation does not aim to take over the change request procedure. It will come into force only at a later stage when there are no more regular WB meetings.

Further, it was explained that the procedure defined on page 5, which does not involve the WB's in the decision process, is intended for uncontroversial changes on which agreement can be reached by correspondence.

An up-dated version, containing the details of the existing change request procedure, was drafted during the meeting.

Decision: The new draft was approved. This recommendation will be submitted to ETSI as the GSM proposal for a long term procedure for recommendation maintenance.
New version: 3.0.0

Rec 02.24, version 2.2.0 (Covering Note in Doc 130/89)

It was explained that the formulas for price calculation stated in the recommendation aim for a maximum of flexibility. If an operator does not wish to charge for something, the corresponding parameter is set to zero.

The possibility of an error of \pm unit between the advice of charge and the real charge was discussed. The question of the statistical effects of this error needs further study.

The recommendation has been presented to MOU BARG, but no comments have been received so far.

Italy has some comments to the recommendation which will be presented directly to WP1.

This version was presented for examination only. A final version is expected at GSM 23.

Rec 02.17, proposed version 3.1.0 (Change Requests in Doc 150/89)

Seven CR's were presented. The following comments were made:

CR 5 Section 4.3 should be deleted, since the corresponding function is specified in section 3.2.1. In this context it was explained that appropriate internal organisation of the SIM memory may allow to overcome the physical limit of 10,000 read/write operations for a piece of information (eg 50,000 operations by using 5 times more memory cells for the item).

CR 7 The old item 6 in the list on page 9 should be replaced by "PIN disabling allowed/not allowed indicator", and the list should be renumbered. Since this list also appears in Rec 11.11, it was agreed to replace the list in Rec 02.17 with a reference to Rec 11.11. This will however be done at some later point in time.

GSM noted that Rec 02.17 only covers the SIM used by ordinary subscribers. A special SIM for type testing is also required, but this SIM is outside the scope of Rec 02.17.

Decision: With the comments above, all Change Requests were approved.
New version: 3.1.1

Rec 02.07, version 3.0.0 (Change Requests in Doc 152/89)

In order to illustrate the type of functions envisaged in CR2 (ie functions which might appear in both the ME and the SIM), the abbreviated dialling was mentioned.

It was noted that most of Rec 02.07 was written before the SIM became a mandatory feature. Hence, several CR's concernig Rec 02.07 must be foreseen. The partitionning of functions between the ME and the SIM needs further study. The principle laid down in CR2 - that the functions of the SIM should take precedence over those of the ME - was nevertheless supported.

The wording "In principle....." in CR2 was modified to read "Unless otherwise stated for a particular feature.....".

Decision: With the above mentioned amendment of CR2, both Change Requests were approved.
New version: 3.1.0

Rec 02.04, version 3.3.0 (Change Requests in Doc 151/89)

GSM noted that the entire section on Call Forwarding will be revised.

Concerning CR3, which has been rejected by WP1, the meeting asked WP1 to reconsider its position. Further information from WP3 is required in order to progress this matter.

Decision: All of the Change Requests were approved.
Rec 02.04 was split into several recommendations of which three - Rec's 02.04, 02.82 and 02.88 - were produced in hand corrected form during the meeting. (Covering Notes in Doc's 186/89, 182/89 and 183/89). These rec's were approved and given the version number 3.4.0. It was agreed that the reminder of the old Rec 02.04, not covered by the new Rec 02.04, Rec 02.82 or 02.88 is also approved.

Because of the amount of work associated with the re-editing of these recommendations, clean copies of the new rec's can only be made available in mid April.

Rec 02.21, version 3.0.0 (Change Requests in Doc 153/89)

Decision: Only CR's 1 and 2 were approved. CR3, which proposes the deletion of the possibility for air-time charging, was rejected for the reason that this flexibility must be kept. A clean version of section 6.1 was prepared during the meeting (Doc 184/89).
New version: 3.1.0

WP4 Status Report, Doc 125/89

No comments were made to the report.

WP2 Status Report, Doc 123/89

The attention focused on the section dealing with the possible use of GSM handportables in aircraft. It was noted that WP2 has now carried out the studies they were asked to do at GSM 21, and WP2 does not wish to continue the work on this application until some assurance is given that the work will be useful. This assurance should come from RES5. GSM supported the view of WP2.

It was further noted that the use of GSM for aeronautical public telephone will impact on a large number of GSM recommendations, not only those dealing with the radio subsystem. The possibility of using SIM's instead of complete handportables was mentioned as an interesting possibility which could relieve the safety oriented problems and the cost impact on the mobile.

Doc 175/89 was briefly considered. The conclusions of this paper were taken into consideration in a letter to RES5 (Doc 181/89 Rev 1).

GSM was informed that the Eastern release of recommendations will contain a complete set of up-to-date 05-series recommendations.

Doc 178/89 Rev 1

After consideration of the document, GSM requested the German delegation to forward the letter to Mr Braun, FTZ/FI.

Rec 05.01, version 3.2.1 (Change Requests in Doc 154/89)

Decision: All of the Change Requests were approved.
New version: 3.3.0

Rec 05.02, version 3.2.0 (Change Requests in Doc 155/89)

Decision: All of the Change Requests were approved. It was noted that CR 6 will also affect Rec 08.58.
New version: 3.3.0

Rec 05.03, version 3.4.0 (Change Requests in Doc 156/89)

Decision: Both Change Requests were approved.
New version: 3.5.0

Rec 05.04, version 3.0.1 (Change Request in Doc 157/89)

Decision: The Change Request was approved.
New version: 3.0.2

Rec 05.05, version 3.4.0 (Change Requests in Doc 158/89)

A version of the recommendation, up-dated in accordance with all of the Change Requests, is contained in Doc 131/89.

Decision: All of the Change Requests were approved.
New version: 3.5.0

Rec 05.08, version 3.1.1 (Change Requests in Doc 159/89)

WP3 was asked to consider the proposed changes in CR 04.08, contained in Doc 159/89.

Decision: All of the Change Requests were approved. It was noted that these changes will also affect Rec 11.10.
New version: 3.2.1

Rec 05.10, version 3.0.1 (Change Request in Doc 160/89)

Decision: The Change Request was approved.
New version: 3.1.0

Rec 11.11, version 1.0.5 (Covering Note in Doc 176/89)

This recommendation was presented for information only. A final version of the recommendation is scheduled for GSM 23. GSM agreed that it is preferable to have an approved version in June, containing the basic functions of the SIM, rather than waiting until the end of the year for a recommendation which will cover the full range of possible SIM features.

Concerning the possibility to have a test specification for the SIM, GSM agreed not to do this work, since different SIM's, with operator dependent properties, will be procured by each of the operators. In case of a compatibility problem between a SIM and any of the type approved ME's, the ME shall have precedence and the problem shall be solved by the concerned operator and the SIM manufacturer.

OMEG Status Report, Doc 127/89

It was agreed to use the term "PLMN Operator" instead of "PTO" throughout the GSM recommendations.

Rec 12.10, version 2.0.0 (Covering Note in Doc 137/89)

It was noted that the requirements of the recommendation are quite general and subject to further study. However, certain tests related to the MS O&M functions are specified in Rec 11.10. These have therefore been intentionally omitted in Rec 12.10.

Decision: The recommendation was approved.
New version: 3.0.0

Rec 12.02, version 2.1.0 (Covering Note in Doc 136/89)

Decision: The recommendation was approved.
New version: 3.0.0

Rec 12.07, version 2.0.1 (Covering Note in Doc 134/89)

Section 3.1.5.4 on measurements of the use of DTX was deleted, since the use of DTX is controlled by the network and applies to all mobiles.

Decision: With the amendment above, the recommendation was approved.
New version: 3.0.0

Rec 12.05, version 2.0.1 (Covering Note in Doc 133/89)

It was noted that some of the comments made by WP1 directly to OMEG have not been taken into account. This applies to the structure of the recommendation and the fact that the transfer account mechanisms have been mixed with other functions used for statistical purposes in a confusing way. Commercial issues, such as the interaction with a clearing house, should not be dealt with in this type of recommendation. Further on, some of the functions (section 5.1) may not be supported by the SS no7.

Decision: The recommendation was not approved. OMEG was asked to revise the recommendation and to ensure full alignment with the views of WP1, WP3, MOU-BARG and MOU-TARIG.

Rec 12.11, version 2.0.1 (Covering Note in Doc 135/89)

The following amendments were made to the recommendation:

- Annex 3 was deleted and replaced by a reference to other recommendations.
- The wording in section 3.3 was modified as follows:
Delete "within BSS" from 9.1.
Change "from the OMC" to "in the OMC" in line 9.
- The terms "spare" and "redundant" should be used consequently throughout the recommendation.

Section 4.2.5 caused some discussion, and it was explained that the testing of interface functions mentioned in the section is not a continuous real-time testing, but only a test to be used for instance in connection with a system restart.

Decision: With the agreed amendments the recommendation was approved.
New version: 3.0.0

Rec 12.06, version 1.3.3 (Covering Note in Doc 138/89)

The title of the recommendation was changed into "GSM NETWORK CHANGE CONTROL" and a number of other minor modifications to the text were made.

It was explained that the text on page 7, concerning downloading of software in the MSC, focuses on remote loading since this is the more difficult case. This does not preclude any local maintenance function.

SCEG Status Report, Doc 118/89

It was noted that the problems with the speech quality in noisy environments only appear under very severe noise conditions, such that analogue systems would not be able to perform satisfactorily either.

Doc 173/89, on the organisation of the maintenance of the 06-series recommendations, caused some discussion, which ended with the conclusion that the Half Rate Group under TM3 should be asked to take on this task. This solution would require GSM to interface only one group on speech coding matters. At present the Half Rate Group is not active and the delegates are not appointed. A change of the mandate of the group is also required.

It was decided that the GSM chairman should send a letter to the chairman of TM3. Mr Stein Hansen (Norway) was appointed rapporteur between GSM and the Half Rate Group.

Rec 06.32, version 1.5.0 (Covering Note in Doc 172/89)

No comments were made to this recommendation.

WP3 Status Report, Doc 124/89

The only comment to the report concerned the second paragraph of section 2.3, which deals with multiple ISDN numbers and storing of bearer capabilities in the SIM. After some discussion, GSM decided to defer the further discussion on this paragraph until the corresponding CR's had been considered (see Rec 09.07). Since these CR's were rejected there was no reason to take up the discussion of the WP3 report again.

Rec 08.56, version 3.0.0 (Change Request in Doc 165/89)

Decision: The Change Request was approved.
New version: 3.0.1

Rec 08.58, version 3.0.0 (Change Requests in Doc 166/89)

Decision: Both Change Requests were approved.
New version: 3.1.0

Rec 08.60, version 3.0.0 (Change Requests in Doc 167/89)

CR1 was withdrawn. The problem described in the CR still needs to be solved, but it was believed that better solutions than the one proposed in CR1 could be found. Since GSM preferred not to issue a version with a too short lifetime, the consideration of CR2 will be done at GSM 23 together with the envisaged new CR1.

Rec 09.02, version 3.2.0 (Covering Note in Doc 179/89)

The UK stated that, since in their view, version 3.2.0 of the recommendation had not been fully examined by SPS-SIG, that the changes were not clearly identified in some chapters, and that some earlier comments from the UK had not been taken into account, they had major difficulties to accept the proposed new version. The Swedish delegation expressed similar difficulties. The UK delegation advocated that version 3.1.0 should be used as a basis for further changes, to which the CR procedure should apply, since the content of this version is known.

After a long discussion the following compromise solution was agreed:

- Decision:**
- 1 Version 3.2.0 was approved as the reference version to which future changes should be related.
 - 2 The reservations of the UK and Swedish delegations were noted.
 - 3 The fact that version 3.2.0 has not been fully examined was noted.
 - 4 A small group will be convened as soon as possible, preferably in mid March. The group will be convened by Mr Simmons. Mr Vernhes and Mr Audestad will be invited to participate. This group will identify the changes between version 3.1.0 and 3.2.0 of the MAP. These items will be mentioned in the April release as not approved by GSM.

In the ad-hoc meeting of WP3 in April, WP3 will draft requests to SPS-SIG for necessary changes to MAP, eg according to the output of the small group mentioned above. The output from the May meeting of SPS-SIG will then be processed via the PN, which will issue change requests to GSM 23.

- 5 It is expected that the May meeting of SPS-SIG will remove remaining inconsistencies.
- 6 It was agreed that from the GSM point of view it would be highly desirable that in new versions of the MAP, clear indications of the modifications are given.

Rec 03.01, version 3.1.0 (Change Request in Doc 168/89)

The last paragraph of the proposed new section was found unclear. In the course of the discussion it was explained that the network is only capable to check bearer capabilities, while the desirable objective is to check tele/bearer services. Since there is not an unambiguous mapping between bearer capabilities and tele/bearer services, the intention of WP1 can not be fully satisfied. WP1 therefore decided to withdraw the proposal to WP3 for a change request.

It should be noted that the subscription checking originally proposed by WP3 is intended to prevent the set-up of calls that can be used for teleservices for which the subscriber has not subscribed. A formal check can be done on the information received from the subscriber or from the ISDN network. This formal check will not guarantee to prevent the use of the connection for teleservices for which the subscriber has not subscribed.

WP3 expects a response from WP1.

Rec 09.07, version 3.1.1 (Change Request in Doc 171/89)

Doc 177/89 was also considered in this context. The French Administration was not prepared to accept the change request, since in their view, it will under all circumstances be necessary to perform a negotiation in order to establish the bearer capability of a mobile during a certain call. After an extensive discussion on the subject GSM decided to reject the change request.

The current version of the MAP and Rec 04.08 do not support an agreed use of multi ISDN numbers for interworking of calls from the PSTN to multiservice terminals.

The WP's were asked to carry out further studies concerning this problem. The disalignment with Rec 09.02 needs to be removed.

With this decision, the CR's in Doc's 169/89 and 170/89 were no more relevant. They were therefore only briefly introduced for information.

Rec 04.10, version 2.0.0 (Covering Note in Doc 139/89)

Decision: The recommendation was approved.
New version: 3.0.0

Rec 04.82, version 2.0.0 (Covering Note in Doc 140/89)

The need for a number of editorial amendments were identified. A new draft of the recommendation was thus prepared and distributed.

Decision: The ammended recommendation was approved.
New version: 3.0.0

Rec 04.88, version 2.0.0 (Covering Note in Doc 141/89)

The need for a number of editorial amendments were identified. A new draft of the recommendation was thus prepared and distributed.

Decision: The ammended recommendation was approved.
New version: 3.0.0

Rec 04.80, version 1.5.0 (Covering Note in Doc 142/89)

This recommendation was presented for information only. No comments were made.

Rec 03.11, version 2.1.0 (Covering Note in Doc 143/89)

Decision: The recommendation was approved.
New version: 3.0.0

Rec 03.82, version 2.0.0 (Covering Note in Doc 144/89)

Decision: The recommendation was approved, except for chapters 6 and 7 which are not stable.
New version: 3.0.0

Rec 03.88, version 2.0.0 (Covering Note in Doc 145/89)

Decision: The recommendation was approved.
New version: 3.0.0

Rec 08.59, version 1.0.0 (Covering Note in Doc 148/89)

This recommendation was presented for information only. No comments were made.

Rec 08.09, version 2.0.1 (Covering Note in Doc 146/89)

Decision: The recommendation was approved.
New version: 3.0.0

Rec 03.20 (Not available at the meeting)

The meeting noted that this recommendation needs to be revised in order to bring it in alignment with the latest developments, eg to take into account a former GSM decision that the cipher key is not changed at hand-over.

WP5 Status Report, Doc 180/89

Examination of patents

It was suggested by WP5 that the WB's should try to identify the early versions of the GSM recommendations, more precisely those drafted before the priority date of certain patents. The WP5 chairman explained that - although, in order to challenge a patent claim, it is normally required that the invention has been described in a document published in the public domain - it could in a case like this when the experts in the field are fully aware of the existence of a recommendation, be claimed that this recommendation is in the public domain.

GSM decided to follow the suggestion of WP5. To this end, WP5 will provide the other GSM WB's with the patent claims, whereafter the WB's will identify relevant early recommendations and other published material.

GSM decided to send a complete set of GSM recommendations to the European Patent Office in order to prevent new interfering patents to occur. To ensure an adequate treatment of the recommendations, WP5 was asked to draft a covering letter to go with the recommendations.

Legal entity

The proposed letter to MOU concerning establishment of a legal entity was discussed, and it was noted that the involvement of WP5 in this activity might conflict with the ETSI rules, in particular concerning voting. GSM decided to delete the references to WP5. The text under "Assistance and Support" was also modified, whereafter GSM decided to send the letter to MOU.

7 **ACTION PLAN (Doc 119/89)**

GSM agreed that the new shape of the Action Plan meets the need of GSM. However, a number of errors concerning the version numbering were discovered. It was stressed that the accuracy of this information is now very important. A new correct version, Doc 119/89 Rev 1 including the output from GSM 22, was produced directly after the meeting and will be distributed by mail.

8 **VALIDATION ACTIVITIES**

There were no contributions relevant to this item of the agenda. Mr Haase made a verbal report of the activities of Nokia in the area of validations.

9 **REPORT OF THE MEETING CONCERNING COOPERATION WITH INMARSAT/EUTELSAT**

The report of the group on coordination with the satellite bodies (Doc 116/89) was considered, and GSM agreed to support the conclusions of the document. The GSM chairman will send the report to INMARSAT, EUTELSAT, MOBSAT and CEPT-CCTS.

The cooperation group was terminated.

10 **ANY OTHER BUSINESS**

GSM Terms of Reference

Doc 113/89 defines the new ETSI Terms of Reference for GSM. Some improvements concerning the definition of tasks and the names of the working parties were suggested. The chairman will take care of these proposals.

Cordless Telephones

Doc 115/89 from MATRA was briefly considered. GSM agreed that it is outside the scope of GSM to give a common view on the cordless telephone developments. It is up to each Administration to state its opinion on these matters.

Developments in the USA

Doc 117/89 from TR45.3 was presented and it was mentioned that TDMA has been chosen in the US for the digital AMPS system.

Document handling

It was agreed that for the very voluminous recommendations, for which up-date sheets will be issued, the recommendations will contain an inventory list from which the valid pages/sections can be identified.

Review of GSM document structure

It was suggested to review the entire set of GSM recommendations, in order to find out which documents are suitable for being retained as recommendations that will become ETS's, and others, less appropriate to be turned into ETS's.

Support for a similar view was found in Doc 185/89, which focuses on the 12-series recommendations.

Further, it was noted that some recommendations, which are binding but not technical, might suite better as CEPT recommendations or as MOU agreements.

The discussion on this topic concluded that the PN (together with WP1 - WP4 and OMEG) was asked to go through the recommendations in order to produce a proposal to GSM 23 on what sort of document each of the recommendations (or part of the recommendations) should be.

11 REPORT OF THE MEETING

The report of the meeting was corrected and approved.

12 MEETING SCHEDULE

GSM 23	1989.06.05 - 09, Ronneby, Sweden
GSM 24	1989.10.02 - 06
GSM 25	1989.12.04 - 08

13 CLOSING OF THE MEETING

The chairman thanked the Spanish Administration and the secretarial staff for the support offered to GSM during the meeting. The meeting was closed.

CEPT-CCH-GSM
Meeting no 22
Madrid, 1989.03.06-10

Annex 1

PARTICIPANTS

Chairman	T Haug
Secretary	T Beijer
Austria	P Donat E Tallowitz
Belgium	B Feuillen
Denmark	A Foxman
Finland	M Pasanen S Salo O T Eerola P Lukander
France	B Gillebaert A Maloberti G Mazziotto M Mouly D Verhulst M Alvernhe M-B Pautet Mr Loyau
FRG	Mr Mahler F Pernice H Günther H P Ketterling Mr Brandis Mr Kasulke
Greece	Y Mouroulis Y Vassilaras
Italy	M Sentinelli A Corsi F Panaioli
Netherlands	D Hoefsloot P van der Arend F van Voorst

Norway	P Bliksrud J Natvig
Portugal	O Reis Luis M Aguiar e Costa
Spain	M Moreno Faraco J N Sanchez Valle L Rodriguez Valmayor
Sweden	G Fremin E Lycksell G Sandegren P Björndahl
Switzerland	P Perelyguine R Klingler H Ochsner
United Kingdom	D Hendon D M Barnes A Cox A Hadden A Watson W R Waugh G Crisp R Black M Bell S Mecrew A Athanasopoulos T Beddoes
Permanent Nucleus	E Haase B Haarpaintner R Hagedoorn P Simmons H Thiger F Courau
ECTEL-TMS	K Lehnich J Baños

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Annex 2

AGENDA

- 1 Opening of the meeting
- 2 Adoption of the agenda
- 3 Registration of documents
- 4 Preparations for the transfer to ETSI
- 5 PN Status Report
- 6 Status Reports of WB's and review of recommendations
- 7 Action Plan
- 8 Validation activities
- 9 Report of the meeting concerning cooperation with INMARSAT/EUTELSAT
- 10 Any other business
- 11 Report of the meeting
- 12 Meeting schedule
- 13 Closing of the meeting

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Annex 3

DOCUMENTS

<u>Doc no</u>	<u>Title</u>	<u>Source</u>
113/89	Consistency of the Terms of Reference...	S Temple
114/89	D/428/88/DG/a1	ETSI Director
115/89	NS/LS/100B/89	MATRA Com.
116/89	Preliminary report on Coordination...	GSM/INMARSAT/ EUTELSAT Coord. Group
117/89	Summary of meeting TR45.3	TR45.3 Chairm.
118/89	Report of SCEG/DTX activities	SCEG/DTX
119/89	Action Plan	GSM PN
120/89	Meeting Schedule	GSM PN
121/89	PN Status Report	GSM PN
122/89	WP1 Status Report	GSM PN
123/89	WP2 Status Report	GSM PN
124/89	WP3 Status Report	GSM PN
125/89	WP4 Status Report	GSM PN
126/89	System Simulator design	GSM PN
127/89	OMEG Status Report	GSM PN
128/89	Transfer to ETSI - Cost comparison	GSM PN
129/89	Covering Note to Rec 01.07	WP1
130/89	Covering Note to Rec 02.24	WP1
131/89	Covering Note to Rec 05.05	WP2
132/89	Deleted	
133/89	Covering Note to Rec 12.05	OMEG
134/89	Covering Note to Rec 12.07	OMEG
135/89	Covering Note to Rec 12.11	OMEG
136/89	Covering Note to Rec 12.02	OMEG

<u>Doc no</u>	<u>Title</u>	<u>Source</u>
137/89	Covering Note to Rec 12.10	OMEG
138/89	Covering Note to Rec 12.06	OMEG
139/89	Covering Note to Rec 04.10	WP3
140/89	Covering Note to Rec 04.82	WP3
141/89	Covering Note to Rec 04.88	WP3
142/89	Covering Note to Rec 04.80	WP3
143/89	Covering Note to Rec 03.11	WP3
144/89	Covering Note to Rec 03.82	WP3
145/89	Covering Note to Rec 03.88	WP3
146/89	Covering Note to Rec 08.09	WP3
147/89	Deleted	
148/89	Covering Note to Rec 08.59	WP3/BEG
149/89	Deleted	
150/89	Change Requests to Rec 02.17	WP1
151/89	Change Requests to Rec 02.04	WP1
152/89	Change Requests to Rec 02.07	WP1
153/89	Change Requests to Rec 02.21	WP1
154/89	Change Requests to Rec 05.01	WP2
155/89	Change Requests to Rec 05.02	WP2
156/89	Change Requests to Rec 05.03	WP2
157/89	Change Requests to Rec 05.04	WP2
158/89	Change Requests to Rec 05.05	WP2
159/89	Change Requests to Rec 05.08	WP2
160/89	Change Requests to Rec 05.10	WP2
161/89	Deleted	
162/89	Work list for GSM 22	GSM PN
163/89	Deleted	
164/89	Deleted	
165/89	Change Requests to Rec 08.56	WP3/BEG

<u>Doc no</u>	<u>Title</u>	<u>Source</u>
166/89	Change Requests to Rec 08.58	WP3/BEG
167/89	Change Requests to Rec 08.60	WP3/BEG
168/89	Change Requests to Rec 03.01	WP3
169/89	Change Requests to Rec 03.08	WP3
170/89	Change Requests to Rec 09.02	WP3
171/89	Change Requests to Rec 09.07	WP3
172/89	Covering Note to Rec 06.32	SCEG
173/89	GSM handling of speech aspects in phase 2	SCEG/DTX chairman
174/89	Letter from Mr Craveur	Mr J Craveur
175/89	Studies into the use of GSM handportables in aircraft	UK
176/89	Covering Note to Rec 11.11	WP1
177/89	Issues linked with PSTN interworking	France Telecom
178/89	Tasks for the half rate coder	WP2
179/89	Covering Note to Rec 09.02	SPS-SIG
180/89	Report to GSM-meeting in Madrid on 9th of March 1989	WP5
181/89	Letter to ETSI Technical group RES5	GSM
182/89	Covering Note to Rec 02.82, v 2.0.0	GSM PN
183/89	Covering Note to Rec 02.88, v 2.0.0	GSM PN
184/89	Covering Note to Rec 02.21 section 6.1, v 3.1.0	GSM PN
185/89	12 series Recommendations	UK DTI
186/89	Covering Note to Rec 02.04 prop. version 3.4.0	GSM PN
187/89	Report of GSM 22 (Madrid)	GSM