



3rd Generation Partner's Group

UMTS

REPORT Version 1

TSG_SA_WG1#7 Plenary Meeting

9th – 11th February 2000
Sophia Antipolis

TABLE OF CONTENTS

1	OPENING OF THE MEETING	4
2	ADOPTION OF AGENDA	4
3	REPORT AND EMAIL APPROVAL FROM LAST MEETING	4
3.1	APPROVAL OF REPORT OF LAST MEETING	4
3.2	EMAIL APPROVAL	4
3.3	ADMIN.....	4
4	REPORTS FROM OTHER GROUPS	4
4.1	3GPP SA #7	4
4.2	CN1.....	5
4.2.1	<i>Emergency Calls using IMEI</i>	5
4.2.2	<i>Emergency Call routing</i>	5
4.2.3	<i>RAB Linking</i>	5
4.2.3	<i>RAB requirements</i>	5
4.3	ETSI SPAN.....	6
4.4	SMG2.....	6
4.5	3GPP T WG3	6
4.5.1	<i>Access Control Classes</i>	6
4.5.1	<i>UE personalisation</i>	6
4.6	SMG9.....	6
5	PRE RELEASE 2000	7
5.1	PLMN SELECTION (22.011).....	7
5.2	GPRS (22.060)	8
5.2.1	<i>General</i>	8
5.2.2	<i>Restructuring of 22.060</i>	8
5.2.3	<i>Support of encryption in GPRS</i>	9
5.2.4	<i>GPRS only subscription</i>	9
5.3	SERVICE PRINCIPLES (22.101).....	10
5.4	HANDOVER (22.129).....	10
5.5	CHARGING AND BILLING (22.115).....	10
5.6	HSCSD (22.034)	10
5.7	SIM APPLICATION TOOLKIT (22.038)	11
5.8	CAMEL (22.078)	11
5.9	LOCATION SERVICES (22.071).....	12
5.10	BEARER SERVICES (22.002)	13
5.11	EDITORIALS.....	13
5.12	SERVICES & SERVICE CAPABILITIES (22.105).....	13
5.13	USSD (22.090)	13
5.14	VHE (22.121).....	13
5.15	MULTICALL (22.135).....	14
5.16	PRINCIPLES OF TELECOMMUNICATION SERVICES (22.001).....	15
5.17	CELL BROADCAST SERVICE.....	15
5.18	NUMBER PORTABILITY (02.66)	16
5.19	FOLLOW-ME (22.094).....	16
5.20	ASCI (22.067, 22.069).....	16
6	RELEASE 2000	16
6.1	VHE (22.121).....	16
6.2	CAMEL (22.078)	17
6.3	CALL FORWARDING (22.082).....	17
6.4	ALL IP AND/OR R'00 AD HOC.....	17
6.5	NETWORK SELECTION.....	19
6.6	GPRS (22.060)	19
7	RELEASE 2000 ONWARDS	19

8	ANY OTHER BUSINESS	19
8.1	3G VOCABULARY (21.905).....	19
8.2	USER IDENTIFICATION SOLUTIONS IN CONVERGING NETWORKS.....	19
9	ADMINISTRATION	19
10	APPROVAL OF UMTS OUTPUTS AND LIAISONS	19
11	FUTURE MEETINGS	21
12	CLOSURE OF MEETING	21
	ANNEX A – TABLE OF DOCUMENTS	23
	ANNEX B – PARTICIPANTS LIST	27
	ANNEX C – DOCUMENT INDEX	29

TSG-SA WG 1 (Services) meeting #6**TSG S1#7(00) xx/99
Agenda Item: 2****DRAFT MEETING REPORT****Version: 1.0, 11th February 2000****1 Opening of the Meeting**

The TSG-SA WG1 meeting #7 was held in Sophia Antipolis, France from the 9th February to the 11th February 2000. It was chaired by Mr Alan Cox (Vodafone) and the secretary was Mr Michael Clayton from the MCC.

2 Adoption of Agenda

Document 002/00 contained the draft agenda for SA1 meeting #7. It was approved without comment.

3 Report and Email Approval from last meeting**3.1 Approval of report of last meeting**

Document 1080/99 contained the Draft Report of TSG S1 at the end of the meeting. Document 001/00 contained the report with comments.

It was approved with the changes accepted.

3.2 Email Approval

Document 004/00 contained a summary of S1 Email agreements reached before the meeting. It was noted.

3.3 Admin

The invitation to the 3GPP IP WORKSHOP to be held from Monday 7th to Wednesday 9th of February 2000 in Nice, Acropolis was provided in document 22/00 and the registration form was provided in document 21/00. Both documents were noted.

4 Reports from other groups**4.1 3GPP SA #7**

Document 003/00 contained a summary and report from SA #6.

M	AP	Action	Interested Parties	Owner	Status
07	01	Gunnar Schmidt to be contacted regarding any new input on Multimedia-Messaging		Michael Clayton	
07	02	Michael Sanders to be contacted regarding TD SP-99607 : 22.011 CR004. Approved. T WG 3 MCC support was asked to check the USIM impacts within T WG3. SA WG1 also undertook to look into this.		Michael Clayton	

4.2 CN1

4.2.1 Emergency Calls using IMEI

A response liaison statement on Emergency calls using IMEI as UE identifier from CN2 was provided in document 71/00. The point is that it is not possible to use the IMEI to call back the mobile if the emergency call is made without the SIM. Document 005/00 contained another response from CN1 regarding the original RAN2 LS (which SA1 received in document 17/00).

Essentially, the meeting agreed with CN1 and CN2 that the requirement is not, well, required. It was requested that our specifications be checked off-line to ensure that this requirement is not implied. It was further clarified that this requirement may have come from North America where there is a regulator requirement (un-reasonable as it seems). Gary Jones agreed to check this in GSM NA.

M	AP	Action	Interested Parties	Owner	Status
07	03	The need for requirement for returning calls to a mobile just using the IMEI to be checked in North America.		Gary Jones	

4.2.2 Emergency Call routing

Document 34/99 contained a Liaison Statement for emergency calls. In it TSGN1 deals with the issue of emergency calls to multiple emergency service numbers. two proposals that were provided on which no agreement could be reached in CN1. The principle of each one of these is outlined in attached tdoc N1-000038 and N1-000115.

The key is to provide different routing to different emergency centres depending on the emergency. There was some support for the second solution.

It was commented that whilst it is good to make the service user friendly, this service is generally not charged-for and so it is important not to make it too complex or it will not be implemented. It should be sufficient to transfer the dialed digits and keep it simple.

A new document arrived (in the night) to Ole Eriksson on this subject. It was provided in document 101/00. It was discussed in a sub-group and then brought back to the meeting. It was provided a little late in the meeting and so it was decided to send it for email approval. Delegates have 1 week to comment and it goes on email approval on email approval on 21st February 2000.

4.2.3 RAB Linking

Document 077/00 contained a liaison statement from RAN3 on RAB linking. The "RAB linking" feature would allow the Core Network to indicate to UTRAN that certain Radio Access Bearers allocated to a UE have to be treated as a set for UTRAN procedures, e.g. all linked RABs are established or released together or failed together. RAN-WG3 would like to have the confirmation of the need for such a concept in UTRAN for the support of NAS procedures (e.g. multical). The LS was sent to CN1 and to SA1.

A response to this from CN1 was provided in document 30/00. CN1 indicate that they do not have any objection to this feature as it could possibly be used to set up a improve data throughput by using Multical. They indicate that RAN 3 can therefore proceed with their work on defining the impacted RANAP procedure provided there is no objection from SA1. CN1 also ask SA1 if there is a necessity for the service.

It was suggested that this be looked into outside the meeting. Document 100/00 was allocated for the result. Since this document was not available at the meeting, it was decided to put a response on email approval.

4.2.3 RAB requirements

Document 053/00 contained a draft LS to TSG-N3 as a response from NTT DoCoMo to RAB requirements for CS data (document 030/00). It was approved with the addition of some contact details.

4.3 ETSI SPAN

Input was dealt with in the section on VHE.

4.4 SMG2

Document 35/00 contained a Response to Liaison Statement on GSM 02.06 specification transfer to 3GPP (SMG2 484/00). A number of comments were made regarding the restructuring of 02.06 in the 3GPP specifications and Tommi Kokkola was asked to check this. Otherwise it was noted.

M	AP	Action	Interested Parties	Owner	Status
07	08	The consequences of the absorption of 02.06 into 3GPP specifications as per document 35/00 to be checked.		Tommi Kokkola	

4.5 3GPP T WG3

4.5.1 Access Control Classes

Document 38/00 contained a LS regarding Access Control Classes from T3. The EF_{ACC} file contains the assigned access control class. The access control class is a parameter to control the RACH utilisation. The 15 classes are split into 10 classes randomly allocated to normal subscribers, and 5 classes allocated to specific high priority users. Class 10 is not assigned in SIMs, but is used for emergency calls.

From a technical point of view, it is possible for the USIM to store two separate Access Control Classes, one for each network technology, so that the operator can assign different access control classes, which depend on the network technology. T3 are seeking the opinion of S1 on the service requirement of this issue.

This relates to 22.011 and was passed to the rapporteur Jean-Paul Galliare for checking and responding. The response was provided in document 151/00.

This CR caused some discussion and so it was decided to put this CR on email approval.

4.5.1 UE personalisation

Document 41/00 contained a liaison statement on UE personalisation. There could be data associated with another USIM which is dormant and the concern of T3 was that this other (dormant) data could be updated accidentally. It was copied to SA1 and was noted for the time being.

In the last meeting of San Diego, a liaison statement was sent to SMG9 and T3 to clarify FDN (1039/99). A response to this from T3 was provided in document 109/00.

After some discussion it was decided to have a CR to 22.101. This was provided in document 137/00. After some discussion it was agreed to send it for approval to SA#7.

4.6 SMG9

Document 92/00 contained a liaison statement from SMG9 on the selection of applications on the USIM. While specifying the method to select applications in a UICC, a question came up within T3 regarding the required user interactions. Application selection involves (but is not restricted to) the selection of one particular USIM in the UICC if several USIMs are present. To this end, there exists a list of applications in the UICC, which is contained in EF_{DIR}, and every application template in the EF_{DIR} contains an application label, which is plain text, and intended e.g. to be presented to the user for selection.

While the technical implementation regarding the application selection is in place in 3G TS 31.101 and TS 31.102, T3 are asking S1 whether the necessary MMI needs specification. In particular, there may be a correlation with network selection.

A response was provided in document 102/00. It was approved.

5 Pre Release 2000

5.1 PLMN selection (22.011)

Document 075/00 contained a LS from RAN to SA1 (cc CN1, SMG2) on urgent need for requirements on Idle Mode. They would like a quick response so that idle mode for 3G is correctly defined. The key point was that there was a Workshop on Handover and Cell Selection held on 9 - 10 June in Sophia Antipolis, and S1 would like to adopt the conclusions of that.

This was emphasised in document 103/00, which contained a reply to the liaison statement in 75/00. It was approved.

Document 06/00 contained a LS on UMTS PLMN selection. This document informs SA1 that 23.022 will be updating it. It was noted.

Another input on network selection was provided from SMG2 in which a new algorithm was proposed (document 024/00). In it, the PLMN is selected prior to the mode (GSM or UMTS).

This is all very well but it is not decided that the network code for UMTS and GSM would be the same. It would appear that the assumption was a result from the network selection workshop and SMG2 are merely implementing the requirement.

A liaison statement back to SMG2 is required. The liaison statement should be clear as the workshop has made some assumptions and this was done some time ago. A great deal of work has been done based on these assumptions, and so if it is correct, we should be very careful.

This response was also provided in document 103/00.

Document 33/00 was issued incorrectly and had the same content as 34/00. A new version was provided in document 98/00 which contained a reply to LS on Requirements for Network Selection from CN1. It states that S1 are introducing four new concepts, taking access technology, prioritisation of voice service, operator controlled PLMN selector list and Home Environment Specific Network Selection Procedure into account for PLMN selection. This would clearly be against the rules, which were agreed in TSG #6 when R99 was functionally frozen. These new features would risk the R99 schedule.

It was noted that these requirements actually originally came from another specification 22.101 and had been there for some two years., and where therefore not new requirements.

N1 has got only one more meeting to finalise the R99 specifications. As the requirements are still very much open, there is a risk that the requested features can not be completed for R99. There is a comment that in point 7 there is a statement that " As the PLMN selection procedure is tested by official type approval test case N1 would like to stress its concerns, that a MS with such a updated PLMN selection probably loose its type approval".

The general feeling of the meeting was that this text is incorrect; firstly because type approval follows core specifications (not vice-versa), and secondly there are no type approved dual mode mobiles. Even to change the procedures will not change type approval certificates already issued. A Home Environment Specific Network Selection Procedure would not invalidate Type Approval.

A proposed response was provided in document 105/00. It was approved subject to the CRs indicated being approved.

One of these CRs to be attached was provided in 138/00. It was approved. The next CR was provided in document 139/00. It was approved; the feature will be deleted from R'99 and from R'00. If anyone wants the feature in R'00 then it should be re-introduced.

Document 83/00 contained a Response to a SCAG LS on PLMN Selection while roaming from SMG9. The real liaison statement to be dealt with is the attached liaison statement from SCAG. There are two points to this liaison statement; the first of which is partly dealt with in document 93/00. The second part was sent to the ad hoc.

Document 093/00 contained a proposed CR to 22.011 on Network Selection. This is really a proposal by France Telecom for release 2000 (see below).

5.2 GPRS (22.060)

5.2.1 General

Document 007/00 was a Liaison Statement to SA2 on Maximum size of N-PDU from CN1 copied to us. This is generally not an issue that SA1 would normally deal with. It was decided to note this document as no one in SA1 had any specific comments.

Document 23/00 contained a proposed Liaison Statement as answer to "Liaison Statement on applicability of GPRS and EDGE requirements and tests " from SMG7, (Tdoc SMG2 1466/99). This requirement has been deleted by SA1 from 02.06 and 02.07 in any case. It was noted.

Document 031/00 contained a LS on removal of Anonymous Access from Release 97 and 98 from CN1. The LS is in response to our LS to them and they agree with SA1 and ask us to remove the text from 02.60 for R97 and R98 as well. At our last meeting, SA1 decided to delete it from R99 and leave it in R97 and R98 for anyone who wanted it. This decision was ratified and Paul Carpenter was to inform his delegate in CN1.

M	AP	Action	Interested Parties	Owner	Status
07	04	CN1 to be informed that SA1 will leave Anonymous Access in the specification 22.060 as it is optional in any case.		Paul Carpenter	COMPLETE.

Document 046/00 contained a CR to 22.060 on Corrections on Point-To-Point Octet Stream Service from Nokia. This CR puts back in some text that was deleted by mistake at the last meeting. It was agreed to be sent to SA#7 for approval.

5.2.2 Restructuring of 22.060

Documents 55/00 to 58/00 were presented by the new rapporteur to make 22.060 more readable. Document 55/00 contained a discussion document regarding a restructuring of 22.060 to make the document easier to read. Document 56/00 shows what the document would look like with the changes incorporated. A review of the work was given in document 57/00 with some decisions to be ratified by SA1 and document 58/00 contained the change request to incorporate this.

S1-000055	Restructuring of GPRS Stage 1	Lucent
S1-000056	Proposed new structure for TS22.060	Lucent
S1-000057	Review of TS22.060	Lucent
S1-000058	CR to 22.060 to revise for Release 99 and incorporate PS Domain	Lucent

The secretary indicated that SA plenary would probably not accept this CR as other specifications could refer to a section in 22.060, the number of which may have been changed. However, many delegates supported this work and it was noted that the proposal has been discussed with the stage 2 rapporteur.

The rapporteur reported that part of the motivation for the change was to make it simpler to incorporate requirements for R2000 which may arise from the work undertaken in TR22.976.

It was decided that the principle of restructuring be accepted in principle until the chairman can clear this with the powers at be.

M	AP	Action	Interested Parties	Owner	Status
07	05	The need for restructuring of 22.060 to be discussed with the SA chairman, MCC and the chairman of S2.	Michael Clayton, Paul	Alan Cox	

			Carpenter		
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Moving on to document 057/00, which contained a number of changes that are not purely editorial, it was commented that the CR in document 058/00 contains both the restructuring and additional changes. The policy of SA is that a CR should not contain a mixture of subjects and so the functional changes in document 057/00 should result in separate changes. The rapporteur commented that this was done to make the management by MCC easier.

With the exception of Point to Point Octet Stream Service, all the others are alignments to the stage 2. On this Point to Point Octet Stream Service it was noted that the feature is optional and it is understood that no work has been done in the other groups, but it still does exist in the stage 2 and is a part of release '99. Therefore, it was decided that, whilst to delete it from 22.060 would make the document clearer, the service should be left in the document.

On Subscriber Roaming, it was clarified that this clause is in conflict with the Stage 2 (23.060) and has therefore been modified to remove "GPRS is not required to provide the ability for subscribers to remain GPRS attached when moving from one PLMN to another". This was agreed.

Document 117/00 contained an update of document 58/00 resulting from above. It was approved.

5.2.3 Support of encryption in GPRS

Document 110/00 contained a CR to 02.07 on Support of encryption in GPRS mobile stations R97, and document 111/00 contained a similar CR for R'98. The point here is to add the requirement for encryption for GPRS. It was questioned if these changes had been seen by S3. The answer was that the chairman of S3 had seen these, and that the requirement has been expressed by S3, but that the changes have not been seen by S3.

In R'99 02.07 has been absorbed by document 22.101. The equivalent changes therefore have been included in 22.101 and were presented in document 112/00. In addition the same requirements was introduced into 22.060 in document 113/00.

Of note is the difference between CS and PS domains.

The documents 110/00 and 111/00 were approved subject to checking by delegates with their companies. If there are no comments they will be sent to S3 and, subject to the package being completed by S3, sent to SA#7 for approval.

5.2.4 GPRS only subscription

Document 115/00 contained a discussion document on only GPRS subscription. The purpose is machine communications, for example, telemetry such as vending machine, security service etc.. There are three classes of mobile

- ?? Class A MS is able to simultaneously attach use PS domain and CS domain.
- ?? Class B MS is able to simultaneously attach and not simultaneously use PS domain and CS domain.
- ?? Class C MS is not able to simultaneously attach.

In the case of all class marks, MS's can use both PS service and CS service. But MS's for telemetry NEVER needs CS services and functions. The question is if this has been considered in the GPRS work?

It was the understanding of the meeting that this is included in the specifications already, although a note to this effect could be included. It was decided to pass this to the rapporteur to check the GPRS specifications for a statement that supports this requirement.

M	AP	Action	Interested Parties	Owner	Status
07	06	Rapporteur to find a statement in GPRS specs to indicate that a PS mobile is possible (doc 115/00)		Paul Carpenter	Closed

Since there was no text in 22.060, document 149/00 was presented. The text was not clear. It was decided that, whilst this was agreed-to in principle, it would need some editorial. It will be dealt with under email approval.

The liaison statement in 153/00 contained a covering letter to the CR to go to SA2. It was commented that this liaison statement seems to confuse subscription and classes of GPRS mobiles. It was decided to clean up the liaison statement and send it with the CR in 149/00.

(See section 6.6 for documents 116/00 and 119/00.)

5.3 Service principles (22.101)

Document 19/00 contained a reply to our LS from the last meeting on additional Terminal Baseline Implementation Capabilities for secure interoperation with GSM. T2/SWG6 requests clarification from S1 of whether “essential conditional” is the correct term to use in the circumstance or if GSM SIM and/or GSM SIM application on the UICC are required to be supported by all 3G UEs even those designed for use in local market where there is no GSM network.

The response to this was approved by email approval and was provided in document 04/00. This has been approved and sent already.

5.4 Handover (22.129)

Document 025/00 contained a proposed reply to LS to RAN 2 from SMG2 on measurement order parameters sent to the MS, for GSM to UMTS handover (copied to SA1). There was no interest in this subject to the extent that we have no rapporteur. The document was noted.

Document 028/00 contained a LS to CN2 on Open Issues on 3G to 2G Handover (packet Switched domain) (copy SA1) from SA2. When a MS moves from a R99 to a R97 network, some PDP contexts may need to be deactivated. The question from CN2 was how to decide which are kept and which are dropped. SA2 made a change to 23.107 CR 10r1, such that all PDP contexts but the one with the best QoS are deactivated, with some rules for how to compare different QoS profiles with each other. This was done to avoid the situation that incoming packets after the handover do not queue up in the network.

We need more information on this subject. It was decided that Alain Sultan need to be contacted.

M	AP	Action	Interested Parties	Owner	Status
07	09	Alain Sultan to be contacted for more information on the open issues for 3G/2G handover (28/00)		Michael Clayton	Request sent

5.5 Charging and Billing (22.115)

Document 026/00 contained some comments on 22.115 Charging and Billing Service Aspects from SA5. This has been passed to the rapporteur and SA1 awaits an answer.

A draft proposal will be received from the rapporteur in due course over email.

5.6 HSCSD (22.034)

Document 029/00 contained a Response to Liaison statement concerning HSCSD specifications from CN1. CN WG1 do not have any objection to SA1's analysis that GBS concept is fully applicable to 3GPP systems, and that multislot is only relevant for GERAN.

Furthermore TSG CN WG1 are inform SA1 that TSG CN WG1 have not yet analysed in detail what changes needs to be done to HSCSD stage 2 (3G TS 23.034) due to the changes in HSCSD stage 1 (3G TS 23.034).

The document was noted.

Document 052/00 contained the CR to 22.034 Draft CR on HSCSD changes for 3GPP, which was essentially presented at the last SA1 meeting. It was this document that is being responded-to in the liaison statement from CN1 in document 029/00 above.

Based on the agreement of CN1, document 052/00 was agreed and will be sent to SA#7 for approval.

5.7 SIM Application Toolkit (22.038)

Document 032/00 contained a liaison statement on SAT Handover notification and termination of call from CN1. This is in response to a liaison statement from SA1 in document 967/99. Essentially CN1 indicate that this feature cannot be in R'99 but, since they do not indicate that it should not, then it should go forward to R'00.

It was noted that there are some questions in the liaison statement and these still need to be answered. Moreover, S3 have been referred-to and they have not yet sent an answer. It was decided to continue discussions on this over email for the next meeting.

However, whilst the meeting accepted that it will not be in R'99 it will put this forward to release 2000 and CN1 should be aware of this.

Document 072/00 contained the USIM/SIM Application Toolkit, Service Description, Stage 1 from Motorola. This document was not upgraded to 3GPP like all the other specifications, and so this document was presented to complete this work.

Some further modifications were required. These were presented in document 120/00. It was not dealt with in the meeting and will be put on email approval.

Document 081/00 is a liaison statement from SMG9 on Addition of requirement for bearer independent data transfer in GSM 22.038 that introduces the attached CR to 22.038. It was clarified that all the work on this in SMG9 has been done and awaits the changes in 22.038 to be accepted by us. Of note was the requirement for a buffer in the mobile and mobile manufacturers should be aware of it.

It was agreed to be sent to SA#7 for approval subject to comments by the end of this meeting. SA1 further thank SMG9 for doing the work.

Document 091/00 contained a new SIM toolkit feature: ""Auto-answer & Mute-ringing"" from SMG9. Some concern was expressed regarding privacy if the phone was to be rung and answer automatically, giving the caller access to what could be private conversations.

Originally, it was for R'99 but SMG9 did not allow it. They passed it SA1 for comments since there is time now it is for R'00.

The concern of SA1 was that there does not appear to be any specific applications for this feature. If T3 can find some specific features, then SA1 will re-consider it. The liaison statement to this end was provided in document 121/00.

5.8 CAMEL (22.078)

Document 040/00 was sent to the reflector prior to the meeting but, because of comments, was withdrawn in light of 051/00.

Document 051/00 contained the Change request on 22.078 (Release 99) "Re-alignment of 22.078 due to limited scope of CAMEL Phase 3". Since this has been discussed by email extensively, it was approved if no comments are received by the end of this meeting. (see also document 094/00 in section 5.14.)

One comment was received from Alcatel relating to section 14.1. Document 51 was therefore passed for email approval.

With this, there is now a phase 4 CAMEL. Quite a bit of discussion is required on this, and the rapporteur asked for at least a day's session to further this work. It may be that Beijing is a too far to go for a one day meeting, and so the rapporteur was asked to set up an email discussion on this subject.

M	AP	Action	Interested Parties	Owner	Status
07	10	Email discussion to be set up on arrangements to progress the Stage 1 on CAMEL Phase 4.		Michel Grech	

Document 064/00 contained a proposed CR to the CAMEL specification TS 22.078 on definition of subscriber busy status. The state of busy in CAMEL is different from that of busy in the rest of the network, and there was some concern that this change will conflict with the definition in CN2.

It was decided to contact Ian Park the chairman of CN2 for guidance. The response was that this could have some technical difficulties and may not work. The chairman of CN2 will be available to discuss it, but CN2 does not have sufficient time to solve the problem for R'99.

Document 065/00 contained a CR to CAMEL TS22.078 on In-band user interaction for dialled services in CAMEL ph3. This was put forward to clarify the scope of CAMEL phase 3. It is necessary to provide In-band user interaction capability for the dialled service (subscribed and serving network) as the user interaction capability is essential for CAMEL supported services. There is no clear reason to exclude this capability from CAMEL ph3, except for service interaction comes from previously invoked service. This is also mentioned for stage 2/3 specification.

In addition, the allowed instruction for the dialled service is too restrictive, so it is also proposed to remove such restriction.

There was concern that this has not been seen before. It was clarified that this has been seen by CN1, but there was insufficient time to deal with it properly. Hence, it was presented at this meeting.

It was decided to send this to Ian Park also. The response was that SA1 needn't oppose to the inclusion, however, there is not sufficient work for a stage 2 and 3 unless it is presented to the meeting. This issue could also be considered a new requirement. In either case, the workload of CN2 is such that it may not be possible to deal with this.

Regarding document S1-000064 and S1-000065, both these CRs will be dealt with under email approval, if the related issues in N2 would be solved.

Document 073/00 contained a CR 032 to 22.078 on Call gapping / congestion control in HPLMN only which was withdrawn as comments were received via email. The replacement was provided in 095/00 which contained the revision 1 of CR 032.

The CR 032r1 to 22.078 on Call gapping / congestion control in HPLMN only was agreed to be sent to SA#7 for approval.

5.9 Location Services (22.071)

Document 069/00 contained a LS and Stage 1 for Location Based Services. This is maybe a little late for R'99, at least for the new functionality.

What is required is a list of new functionality from this document. It will be used as a basis of a new stage 1 on LCS for R'00. An LS back to GSM NA was provided in document 122/00. It was approved with the addition of the contact details.

Document 066/00 contained a CR to TS 22.071 on Location Service Clarification. The meeting agreed to the principle, but is a bit premature for R'99. This was referred to the rapporteur who will include it in the new stage 1.

Document 042/00 contained with a proposal for R'98 CR to 02.07 from T1P1. It contains some mandatory requirements in the MS for CBS DRX and hence the change to 02.07. At the same time, a CR to 02.07 should be done to change SMS-CB to CBS. The two changes were provided in document 123/00.

(Secretary's note; subsequent to the meeting, it was noted that the CR and Version number on the change request were wrong. They should have been A022 and V7.0.1. These were corrected prior to presentation to SMG #31.)

5.10 Bearer Services (22.002)

Input dealt with elsewhere on the agenda.

5.11 Editorials

Document 044/00 contained a CR to 22.001 on Editorial modification for change of SMS-CB to CBS. After some discussion it was replaced with document 124/00. Document 124/00 was agreed to be sent to SA#7 for approval.

5.12 Services & Service capabilities (22.105)

Document 045/00 contained a CR to 22.105 on Correction related to FAX support from Nokia. It was agreed and will be sent to SA#7 for approval.

A similar change was presented in document 047/00 which contained a CR to 22.105 on Clarification of SoLSA support. It was agreed and will be sent to SA#7 for approval.

In addition, a CR to 22.011 was provided in document 126/00 to delete SoLSA. It was revised and was provided in document 155/00. This was approved without being viewed.

Also document 125/00 was provided which contained a CR to 22.100 on Editorial modification to remove reference to SoLSA. It was agreed and will be sent to SA#7 for approval.

5.13 USSD (22.090)

Document 048/00 contained a CR to 22.090 on UCS2 character set for MMI mode from Nokia. During USSD enhancement it has been agreed to allow same characters set for USSD and SMS. The change to Stage 1 has never been incorporated.

There were some comments which needed to be checked. It was approved in principle and either it will be ok or a revision will be provided.

5.14 VHE (22.121)

Two CRs to 22.121 were provided in document 049/00 and 050/00.

The CR in document 050/00 deals with the issue of MeXe and SAT servers; and issue which has attracted long discussions.

The proposed change clarifies this issue by:

- ?? introducing a modified figure 3 where the SCFs are presented in a neutral format (excluding a specific mapping to a concrete SCS) and the concrete denomination of the SCS with CSE, HLR, MEXE and SAT are replaced in favour of the more general names SC1, .. SCS n. This has the advantage that the figure does not more suggest that the implementation of *any* of the SCS is mandatory. On the other hand this change does not limit the way *how* certain SCFs are implemented by SCS, i.e. which network resource they use to provide a certain SCF to the application.
- ?? considering all concrete network entities and their related interfaces (HLR, SAT, MEXE, etc.) only as examples in the text by adding "e.g." or by "may be realised".

It was suggested that the examples of MeXe, SAT and API should be removed from the fig 3. It was decided that they should remain although it would appear to be confusing.

It was referred to an ad hoc for minor editorials. These were provided in document 107/00. The CR in 107 to 22.121 was approved.

Document 049/00 contained another CR to 22.121 on Message Transfer and Data Download. There have been long discussions around the issue "Message Transfer SCF" and "Data download". Especially, it has been considered as problematic that the to be changed sections imply the possibility to download data *to* the

application server. This contradicts the view of the contributors that the application server establishes only a controlling relationship but not a bearer channel to the Service Capability Servers and the underlying network (via the SCS). The proposed changes try to clarify this point by

?? removing the term "message transfer" and replacing it by "information transfer".

?? introduction of the appropriate functions

?? deleting the section data download completely since it is already covered by the "information transfer"

There was some concern that this constitutes new functionality and, as such, should not be allowed. It was suggested that this change should be a R'2000 CR and see what can be achieved in R'99.

A new CR was presented in document 108/00. It was required to be revised and was provided in document 156/00. There was insufficient time for this document to be dealt with in the meeting and so it was put out on email approval.

Document 013/00 contained an answer to "Liaison Statement on VHE/OSA principles" from SA2. However, the meeting thought that the text in 22.121 in section 7 is not inconsistent and that we did not see any reason to change the text.

A liaison statement to this effect was provided in 129/00. It was approved.

Document 014/00, which contained a response to Liaison Statement on mandatory requirement for a capability negotiation mechanism for OSA from SA2 (VHE/OSA Drafting) was noted as it was not really for SA1.

Document 015/00 contained a liaison statement response to 'Liaison statement on the interaction between MMS, SAT, MExE, non-MExE terminals and Camel/Open Service Architecture' from SA2. It is sent to SA1 but includes a liaison statement from TSG-CN OSA ad hoc, which was copied to SA1.

This LS seems to be going around in circles as nobody seems to understand the issue. Document 094/00 from France Telecom contained a discussion document on terminal capabilities may also shed some light.

In the VHE specification (TS 22.121), one of the Service Capability Features, the Terminal Capabilities Service Capability Feature, is supposed to be used by service application in order to adapt the service to the terminal currently used by the subscriber. However, the description of this feature does not clearly state the set of capabilities of which support by the terminal can be discovered through the use of the Service Capability Feature. For compatibility reasons, it is felt important to standardized a minimum set of Terminal Capabilities which might be discovered through the "Terminal Capabilities Service Capability Feature".

The proposal by France Telecom is to use the IMEI (or equivalent) to identify the capabilities. However, there are some concerns that the IMEI is not sufficient as external equipment may be added after the sale of a mobile and this will not be reflected in the IMEI. Moreover, there could be some privacy issues about storing the capabilities of the UE/ME. This latter issue could be solved as per some software companies that ask for the PC statistics in the registration procedures.

If the IMEI is to be used, the correlation between ME capabilities is not complete, nor reliable. Moreover, an earlier CR agreed does actually remove the passing of the IMEI to the CSE (document 051/00).

So, regarding document 015/00, it was decided to communicate to SA2 that it is not possible to do anything in release '99 unless CN2 can put in the requirement for the IMEI to be passed to the CSE. Thereafter, there is a requirement to put in terminal capabilities for R'00.

Anyone who wants to can contact the CN2 chairman to ask if IMEI can be passed back to the CSE in R'99.

Nonetheless, document 152/00 was presented that contained a CR to 22.121 on Provision of Terminal Capabilities information through IMEI. It was decided to put this to email.

5.15 Multicall (22.135)

Document 070/00 contained a LS on clarification of Multicall requirement from CN2. In it, CN2 have asked a number of questions for clarification. The CR to Multicall TS22.135 in document 060/00 gives some changes to

clarify the text. It was decided to pass the document to an ad hoc for discussion and bring this back to the meeting.

The revised text was not provided in document 131/00. Nonetheless, document 131/00 will be provided at a later date.

Document 061/00 contained a proposal for a way ahead to approve Multicall. SA has agreed that Multicall was R99 item, but it consistently comes up against delays at CN. As a result, it was recognised that more clarification is necessary on Multicall Stage1 (22.135). It was agreed that a Multicall Joint Ad Hoc, which was introduced as TSG SA#6(99)625 at SA #6 Nice, shall be held on 17-18, Feb. The purpose of the Joint Ad Hoc is to complete all necessary CRs and documentation related to CN WGs. It might affect to Stage1.

The principle of the document was accepted, although it was decided to try and do the work at this meeting and, if not, then to go via the route of document 061/00.

After some substantial checking of the multi call specification document 144/00 was presented which appears to make Multicall an SS. It was commented that it has been decided that this is a network feature and not an SS. However, in order to describe the feature best, it is necessary to be described as if it is an SS.

There was another comment that in 7.2.2 a "shall" is turned into a "may". This was not part of cleaning up 22.135 for R'99.

It was decided that both these documents 144/00 and 131/00 will be sent to the ad hoc with a report that SA1 did not have time to view the two documents in any depth and both documents have no status in SA1.

Tommi Kokkola agreed to act as arbiter for an email approval on anything coming from the ad hoc related to SA1.

Document 145/00 was noted. However, document 154/00 will be forwarded to the SS ad hoc with 144/00. It was noted that it will be used depending on the outcome of the ad hoc and that a CR to 22.030 may also be needed.

5.16 Principles of Telecommunication Services (22.001)

Document 043/00 contained a CR to 22.001 on corrections on 3,1 kHz Audio support, from Nokia. It was revised; the revision was presented in document 132/00. This was not dealt with in meeting and will be provided on email for the approval process to start on the 21st February.

Document 062/00 contained a proposed procedure for call progress indication from NTT DoCoMo to introduce the CR to TS22.001 in document 063/00. The CR refers to the annex that was taken from 02.40 on the call progress tones to be used in UMTS.

There was some confusion as to whether the annex in 22.001 should be normative or informative. Certainly, the report of the San Diego indicates that other regions can introduce their tones into 22.001 as examples. However, it makes not mention of the annex being normative.

The reason for change on the CR may need to be changed and a few editorials changes need to be made.

A revision was provided in document 133/00. It was not dealt with in meeting and will be provided on email approval from the 21st February

5.17 Cell Broadcast Service

Document 074/00 contained a liaison statement on Cell Broadcast Protocol from RAN 3 to T2 regarding some proposed changes to CBS.

Document 079/00 contained an answer to LS on use of Service Areas for CBS from T2 to RAN3. SA1 was copied the liaison statement. It is noted in the document that SA1 wish to have CBS in R'99 and these changes proposed by RAN3 may jeopardize it.

The meeting supported the view of T2 in document 079/00.

M	AP	Action	Interested	Owner	Status
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			Parties		
07	11	RAN3 to be informed that the proposed changes to Cell Broadcast Protocol (074/00) are not supported by SA1.		Tommi Kokkola	

5.18 Number Portability (02.66)

Document 076/00 contained a CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability from T1P1.5.

There was some concern regarding this CR; first of all, the change is to version 7.x.y although the box ticked is R'99 for which 22.066 exists.

The revision was provided in documents 134/00 and 136/00. Both were agreed to be sent to SA#7 for approval.

5.19 Follow-Me (22.094)

The follow-me service would appear to have been used by DECT, which is different to that defined in 22.094. Based on this, the rapporteur was asked by HF to change the name. two CRs have been produced; one to change the name of the service, the other to put in the service code.

The chairman asked how follow-me works in the PABX, which pre-dates the DECT services by a decade. It was replied that the DECT service is the same as the PABX version.

Hence the two changes were presented in document 096/00 (22.030) and 097/00 (22.094).

The proposal was not to change the name. Therefore, the change in 096/00 will be updated to put the name back to Follow-Me and introduce the service code. The other CR in 097/00 was withdrawn.

The revised CR to 22.030 from document 096/00 was provided in document 135/00. It was not dealt with in meeting and will be sent on email approval on the 21st February.

5.20 ASCI (22.067, 22.069)

S1-000127	CRs to 02.68 on Call Establishment not applicable to VGCS	Nortel
S1-000128	CRs to 02.69 on Call Establishment not applicable to VBS	Nortel

Both of these documents were not dealt with in meeting and will be sent on email approval on the 21st February.

6 Release 2000

6.1 VHE (22.121)

Document 036/00, which contained a Liaison Statement on security issues in VHE/OSA CN-OSA, and document 037/00 which contained a LS re: Interaction between MMS, SAT, MExE, non-MExE terminals and Camel/Open Service Architecture, were copied to SA1. Both of these documents were noted.

Document 016/00 contained a LS to S1 User service requirements for Global Virtual Home Environment (VHE) from SA2. The BT delegate indicated that this document should not have been sent to SA2 who sent it to us. It was requested that this document be withdrawn. This should be communicated to SA2.

M	AP	Action	Interested Parties	Owner	Status
07	07	SA2 to be informed that document 16/00 User service requirements for Global Virtual Home Environment (VHE) should not have been sent to SA2.		Barbara Reed	

The following documents were not dealt with in this meeting and will be provided to the next meeting.

S1-000008	Response to request for information on Virtual Home Environment (VHE) work on fixed network access	EP UMTS
S1-000009	ETSI EG 201 717 V1.4.2 UMTS; Virtual Home Environment (VHE) in the Integrated Services Digital Network (ISDN); Evolved UMTS core network	SPAN
S1-000010	Draft ETSI EG 201 721 V1.1.1UMTS; Strategies	SPAN
S1-000027	Response to request for information on Virtual Home Environment (VHE) work on fixed network access	EP UMTS

6.2 CAMEL (22.078)

Document 011/00 contained a liaison statement on the scope of CAMEL Phase 3 (Tdoc 3GPP N2-99K70) from CN2. This resulted in a proposed CR for release '99 provided in document 051/00. The CR will be sent for email approval (See also section 5.8.).

M	AP	Action	Interested Parties	Owner	Status
07	10	Email discussion to be set up for the changes to 22.078 in document 051/00		Michel Grech	

6.3 Call Forwarding (22.082)

Document 012/00 contained a liaison statement on Call Forwarding Enhancements from CN SS ad hoc. In the SA1 specification, forwarded-to numbers can be up to 28 digits long. Some networks cannot support this length.

Document 142/00 contained a proposed response (which was lost by the secretary). It was asked why have a 28 digit forwarded-to number. It was answered that the extra digit could be used for access codes to messaging systems.

Document 080/00 contained a response to Liaison Statement on the priority of VHE Service Capability Features from T2. This was not dealt with in the meeting and will be provided to the next meeting.

6.4 ALL IP and/or R'00 ad hoc

The output from the all IP workshop held prior to this meeting in Nice was provided in document 143/00.

It was commented that one of things this body needs to work out how to do is to define the services. The proposed TR in document 147/00 and this document, go a long way to mapping the work ahead.

On the slide indicating the "Minimise the possible options in the standard", it was commented from the protocol and interworking perspective, the options should be minimised. This is to allow multi-vendors and common interoperability rather than to limit the ability to use CAMEL. It was further clarified that on the service level, CFU could be implemented using CAMEL or MeXE and the intention is that such a SS should be implemented in the same way.

The question was asked as to why should we go this way? There is nothing in the slides asking this question and are we going with the fashion? There was an answer that by asking this question, we are going over old decisions. This last comment attracted some dissent; it is not a "fait a complit" to go all IP. However, this is not a decision of this committee.

In respect of the work, it is important to learn from the uses of IP elsewhere. S1 needs to understand what bodies it needs to get close to in order to learn from what has gone on before. Also, S1 needs to understand what part of the work will be done by us and what we can adopt from elsewhere with, or without, changes.

We are looking with a fundamental way in which we are implementing services. This is being done, not only to reduce costs, but to increase revenue. Moreover, we need to meet and exceed the needs of our customer.

There was some discussion on whether SA1 should be discussing APIs or not. The comment was made that at least we need to know what the APIs can do. Also, we have responsibility for CAMEL which is much the same as an API.

Of note was the mention of Operations and Maintenance (O&M). SMG has had a history for forgetting this important feature, and for ALL IP this could be a nightmare.

Backwards compatibility has been emphasised throughout the workshop. It was commented that maybe functional compatibility is appropriate, but new users have no interest in history and we should not hamper the innovation of 3G.

Billing and charging is one issue which distinguishes the mobile environment from the Internet. It is important to roll over the idea that mobile environments will attract a charge unlike the internet. Particularly pre-paid needs to be investigated.

One question is who are the SA1 customers? What do they want and when? We have a limited window of opportunity and if we miss it, then we will miss our only opportunity.

Document 054/00 contained the Report from Rel 2000 "All IP" ad hoc (Version 1.1) from the SA1 ALL IP ad hoc. There was a discussion on the naming of the ad hoc; is it ALL IP or R'00. In the latter case the work should include CS domain as well as PS domain.

However, it was commented that not too much time should be spent on the report rather than the specific work itself. There is a timescale for this report, but the chairman indicated that he would expect it to be completed by Beijing.

The next ad hoc meeting on all IP/R'00 will be held from the 29th February to 1st March to be held in Helsinki, Finland.

The draft TR itself was provided in document 147/00. Of note is the remarkable synergy between this TR and the output of the workshop earlier in the week. It was proposed that this report be endorsed by SA1.

Document 084/00 contained an input on Definitions of Domains and Domain Relationship, whilst document 085/00 gives some idea of service groupings. Document 086/00 contained some comments on the PS domain feature list. All will be provided to the ALL IP/R'00 ad hoc.

The Scheduling of work for the All IP option was provided in document 059/00. In it, BT is suggesting that the work in ALL IP concentrates on the provision of new services rather than burdening ourselves with the backwards compatibility. This is fine, but there are operators who may wish to run an all IP mobile network only. Not to provide for backwards compatibility would stifle the potential of such a mobile network.

It was proposed that these documents be taken at the ad hoc in Helsinki. Others were:

S1-000067	High level requirements for PS domain	BT et al
S1-000086	Comment on PS domain Feature List	BT
S1-000087	Comment on TR22.976	BT
S1-000088	Analysis of All-IP R00 Requirements	BT

Document 146/00 contained a proposal to Change of scope and title of TR 22.976 (Study on PS domain). There was some support for this proposal. The document was accepted in principle but will be forwarded to the ad hoc.

Document 068/00 contained an input from GSM NA on Interest in work regarding standardization of an All-IP network. This was dealt with in the Rome ad hoc and some of the input has been put into the TF in 147/00.

Document 089/00 contained a discussion document on Numbering Issues for Rel00 from BT. It contained a proposal for number portability. It will be re-written and provided to the ad hoc in Helsinki.

6.5 Network Selection

Document 093/00 contained a proposed CR to 22.011 on Network Selection. The proposal is to introduce a Timer for return to preferred PLMN. There are some problems particularly in the PS domain. It was directed to the ad hoc on network selection from section 5.1.

Document 106/00 contained the revised version. It was noted that there are some problems with the CR. It was agreed to put it on email approval. There will be one week and the CR will go on approval on 21/2/00.

6.6 GPRS (22.060)

Document 116/00 contained a proposed response to a Liaison Statement on Push Services for GPRS from SA2, which was contained in document 119/00. In order to be able to have mobile terminated GPRS calls, the address of the UE needs to be identified. Also, there is a requirement that even if the user is inactive, we will want to deliver 'push' services.

CR (S1-000148) was prepared to clarify the service requirement and also LS (S1-000150) to S2 which was revised version of S1-000116 was prepared. These were not dealt with in the meeting and would be dealt with under email approval.

7 Release 2000 onwards

No input.

8 Any Other Business

8.1 3G Vocabulary (21.905)

Document 090/00 contained a proposed version 2 of TR 21.905, 3GPP Vocabulary from the Editor. It was decided that document 018/00 (Liaison statement on Confirmation of definition for "active communication" for the PS domain from T2 SWG5) and document 020/00 (Liaison statement on Terminology in T2 SWG6 (TR21.904) from T2 SWG6) and any other input will be put into a new version. This will be put on email approval on 21st February.

8.2 User Identification Solutions in converging networks

A presentation on "User Identification Solutions in converging networks" was given by Mr Mike Pluke from the ETSI-STF on the subject in document 078/00.

It was asked if there was anything that comes close to solving the problems. Mr Pluke answered that they are getting close to something that may fit the bill. The identifiers need to be registered and some authority or authorities may be needed. They are investigating what the identifier may look like, but it is early days as yet or could be subject to IPR.

Other questions were the addressing of machines (not in scope), use of other characters (yes it is in scope) and the use of terminals by more than one person (being addressed).

The chairman thanked Mr Pluke for the presentation.

9 Administration

Document 99/00 contained a list of specifications which are missing Rapporteurs. This was revised on line and the result was provided to MCC for updating. There are still a few gaps which will need to be filled.

It was announced that Nick Samson of Orange agreed to be the rapporteur for 22.129.

10 Approval of UMTS Outputs and Liaisons

Change Requests

Doc No	Title	To
45	CR to 22.105 on Correction related to FAX support	SA#7
46	CR to 22.060 on Corrections on Point-To-Point Octet Stream Service	SA#7
47	CR to 22.105 on Clarification of SoLSA support	SA#7
52	CR to 22.034 Draft CR on HSCSD changes for 3GPP	SA#7
95	CR 032r1 to 22.078 on Call gapping / congestion control in HPLMN only	SA#7
107	CR to 22.121 on Clarification of service capabilities (from 50)	SA#7
110	CR to 02.07 on Support of encryption in GPRS mobile stations R97	S3, SA#7
111	CR to 02.07 on Support of encryption in GPRS mobile stations R98	S3, SA#7
112	CR to 22.101 on Support of encryption in PS mobile stations R99	S3, SA#7
113	CR to 22.060 on Support of encryption in GPRS mobile stations R99	S3, SA#7
117	CR to 22.060-09r1 to revise for Release 99 and incorporate PS Domain	SA#7
124	CR to 22.001 on Editorial modification for change of SMS-CB to CBS	SA#7
125	CR to 22.100 on Editorial modification to remove reference to SoLSA	SA#7
134	CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability (from 76)	SA#7
136	CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability R'98	SA#7
137	CR to 22.101 on Service Principles on FDN	SA#7
138	CR to 22.011 on Network Selection corrections	SA#7
139	CR to 22.011 on Network Selection removal of HE specific procedure	SA#7
155	CR to 22.011 on Editorial modification to remove reference to SoLSA	SA#7

Email of issues dealt with in meeting

Doc No	Title	To
48	CR to 22.090 on UCS2 character set for MMI mode	Email
51	Change request on 22.078 (Release 99) "Re-alignment of 22.078 for due to limited scope of CAMEL Phase 3"	Email
90	Proposed version 2 of TR 21.905, 3GPP Vocabulary	Email
101	Liaisons for emergency calls	Email
106	CR to 22.011 on Network Selection (from 93)	Email
149	CR to 22.060 on R'99 service requirements	Email
151	CR to 22.011 on Network Selection	Email
152	CR to 22.121 on Provision of Terminal Capabilities information through IMEI	Email
153	LS on Support of GPRS only subscription	Email
156	CR to 22.121 on Message Transfer and Data Download (from 108)	Email

Email of issues NOT dealt with in meeting

Doc	Title	To
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No		
100	RAB linking	Email
120	USIM/SIM Application Toolkit, Service Description, Stage 1	Email
121	Answer to LS New SIM toolkit feature: "Auto-answer & Mute-ringing"	Email
127	CRs to 02.68 on Call Establishment not applicable to VGCS	Email
128	CRs to 02.69 on Call Establishment not applicable to VBS	Email
132	Corrections on 3,1 kHz Audio support (from 43)	Email
133	CR to TS22.001 on Call progress indication	Email
142	Response to CN SS ad hoc LS on CF enhancements	Email

Ad Hocs

Doc No	Title	To
59	Scheduling of work for the All IP option	R'00 ad hoc
67	High level requirements for PS domain	R'00 ad hoc
84	Definitions of Domains and Domain Relationship	R'00 ad hoc
85	Service Groupings	R'00 ad hoc
86	Comment on PS domain Feature List	R'00 ad hoc
87	Comment on TR22.976	R'00 ad hoc
88	Analysis of All-IP R00 Requirements	R'00 ad hoc
146	Change of scope and title of TR 22.976 (Study on PS domain)	R'00 ad hoc
131	CR to Multicall TS22.135	SS ad hoc
144	CR to 22.135 on Introduction of SS style in stage 1 and simplifications for R'99	SS ad hoc
154	CR to 22.004 on Introduction of Multicall as Supplementary Service	SS ad hoc
66	CR TS22.071 Location Service Clarification	Rapporteur

Approved Liaison statements

Doc No	Title	To
53	LS to TSG-N3 on RAB requirements for CS data	CN3, T3?
102	Response to TDoc 92 on USIM application selection	T3
103	LS to SMG2 on LS on UE/MS idle mode operation	3GPP SA, S2, CN, RAN, RAN1, RAN4, ETSI SMG
105	Response to doc 98/00	CN1, S2, T2, T1
122	LS to GSM NA on Location Based Services	GSM NA, SERG
129	Answer to "Liaison Statement on VHE/OSA principles"	S2, CN OSA ad hoc

11 Future meetings

The meeting schedule was reviewed in the meeting. It was decided to change the dates of meeting #8 to 10-14th April 2000. Proposals for hosts would be gratefully received.

S1#8	10 – 14 April 2000	Beijing, China
S1#9	17-21 July 2000	Taastrup, Denmark
S1#10	13-17 November 2000	USA

12 Closure of Meeting

The chairman thanked the delegates for their contributions to the meeting and for their hard work. He thanked the host, ETSI for all the facilities at the meeting.

This has been a difficult meeting due to the reduced time available caused by the workshop. However, even so, the majority of the issues have been dealt with despite the large amount of documents put on email approval.

ANNEX A – Table of documents

Doc. No.	Title	Source	Doc Pack
1	TSG_SA_WG1#6 99-5 Plenary Meeting	MCC	DP1
2	Draft Agenda for SA1 meeting #7	MCC	
3	Summary and Report from SA #6	MCC	DP1
4	Email approval update	MCC	DP1
5	LS on Emergency calls using IMEI as UE identifier (reply to Tdoc TSGR2#8(99)g79/N1-99D56)	CN1	DP1
6	LS on UMTS PLMN selection	CN1	DP1
7	Copy of Liaison Statement to SA2 on Maximum size of N-PDU	CN1	DP1
8	Response to request for information on Virtual Home Environment (VHE) work on fixed network access	EP UMTS	DP1
9	ETSI EG 201 717 V1.4.2 UMTS; Virtual Home Environment (VHE) in the Integrated Services Digital Network (ISDN); Evolved UMTS core network	SPAN	DP1
10	Draft ETSI EG 201 721 V1.1.1UMTS; Strategies	SPAN	DP1
11	LS on the scope of CAMEL Phase 3 (Tdoc 3GPP N2-99K70)	CN2	DP1
12	Call Forwarding Enhancements	CN SS ad hoc	DP1
13	Answer to "Liaison Statement on VHE/OSA principles"	SA2	DP1
14	Response to Liaison Statement on mandatory requirement for a capability negotiation mechanism for OSA	SA2 (VHE/OSA Drafting)	DP1
15	Liaison Statement response to 'Liaison statement on the interaction between MMS, SAT, MExE, non-MExE terminals and Camel/Open Service Architecture'	SA2	DP1
16	LS to S1 User service requirements for Global Virtual Home Environment (VHE)	SA2	DP1
17	Forward of RAN2 LS on Emergency calls using IMEI as UE Identifier	3GPP TSG S2 (original senders: 3GPP TSG R2)	DP1
18	Liaison statement on Confirmation of definition for "active communication" for the PS domain	T2 SWG5	DP1
19	Reply to LS on additional Terminal Baseline Implementation Capabilities for secure interoperation with GSM	T2 SWG6	DP1
20	Liaison statement on Terminology in T2 SWG6 (TR21.904)	T2 SWG6	DP1
21	Registration form for 3GPP TSG SA Workshop on IP	MCC	DP1
22	Invitation to the 3GPP IP WORKSHOP to be held from Monday 7th to Wednesday 9th of February 2000 in Nice, Acropolis	MicroSoft	DP1
23	Proposed Liaison Statement as answer to "Liaison Statement on applicability of GPRS and EDGE requirements and tests " from SMG7, (Tdoc SMG2 1466/99)	SMG2	DP1
24	Proposed LS on UE/MS idle mode operation	SMG2	DP1
25	Proposed Reply to LS on measurement order parameters sent to the MS, for GSM to UMTS handover (copied SA1)	SMG2	DP1
26	Comments on 22.115 Charging and Billing Service Aspects	SA5	DP1
27	Response to request for information on Virtual Home Environment (VHE) work on fixed network access	EP UMTS	DP1
28	LS on Open Issues on 3G to 2G Handover (packet Switched domain) (copy SA1)	SA2	DP1
29	Response to Liaison statement concerning HSCSD specifications	CN1	DP1
30	Response to LS on RAB linking, Response to LS on RAB pre-emption	CN1	DP1
31	LS on removal of Anonymous Access from Release 97 and 98	CN1	DP1
32	SAT Handover notification and termination of call	CN1	DP1
33	Reply to LS on Requirements for Network Selection	CN1	DP1
34	Liaisons for emergency calls	CN1	DP1
35	Response to Liaison Statement on GSM 02.06 specification transfer to 3GPP (SMG2 484/00)	SMG2	DP1
36	Liaison Statement on security issues in VHE/OSA	CN-OSA	DP1

Doc. No.	Title	Source	Doc Pack
37	LS re: Interaction between MMS, SAT, MExE, non-MExE terminals and Camel/Open Service Architecture	T3	DP2
38	LS re: Access Control Classes	T3	DP2
39	Change request on 22.078 (Release 99) "Re-alignment of 22.078 for due to limited scope of CAMEL Phase 3"	Lucent	DP2
40	Inclusion of CAMEL Phase 4 capability due to revised scope of CAMEL Phase 3 in release 99	Lucent	
41	UE personalisation	T3	DP2
42	Proposal for R'98 CR to 02.07	T1P1	DP2
43	Corrections on 3,1 kHz Audio support	Nokia	DP2
44	CR to 22.001 on Editorial modification for change of SMS-CB to CBS	Nokia	DP2
45	CR to 22.105 on Correction related to FAX support	Nokia	DP2
46	CR to 22.060 on Corrections on Point-To-Point Octet Stream Service	Nokia	DP2
47	CR to 22.105 on Clarification of SoLSA support	Nokia	DP2
48	CR to 22.090 on UCS2 character set for MMI mode	Nokia	DP2
49	CR to 22.121 on Message Transfer and Data Download	Siemens	DP2
50	CR to 22.121 on Clarification of service capabilities	Siemens	DP2
51	Change request on 22.078 (Release 99) "Re-alignment of 22.078 for due to limited scope of CAMEL Phase 3"	Lucent	DP3
52	CR to 22.034 Draft CR on HSCSD changes for 3GPP	Nokia	DP2
53	LS to TSG-N3 on RAB requirements for CS data	NTT DoCoMo	DP5
54	Report from Rel 2000 "All IP" ad hoc (Version 1.1)	ALL IP ad hoc	DP2
55	Restructuring of GPRS Stage 1	Lucent	DP4
56	Proposed new structure for TS22.060	Lucent	DP4
57	Review of TS22.060	Lucent	DP4
58	CR to 22.060-09 to revise for Release 99 and incorporate PS Domain	Lucent	DP4
59	Scheduling of work for the All IP option	BT	DP2
60	CR to Multicall TS22.135	NTT DoCoMo	DP4
61	Approval procedure of Multicall	NTT DoCoMo	DP4
62	Procedure for call progress indication	NTT DoCoMo	DP4
63	CR to TS22.001 on Call progress indication	NTT DoCoMo	DP4
64	CR to CAMEL TS22.078 on definition of subscriber status	NTT DoCoMo	DP4
65	CR to CAMEL TS22.078 on In-band user interaction for dialled services in CAMEL ph3	NTT DoCoMo	DP4
66	CR TS22.071 Location Service Clarification	NTT DoCoMo	DP4
67	High level requirements for PS domain	BT et al	DP2
68	Interest in work regarding standardization of an All-IP network	GSM NA	DP2
69	LS and Stage 1 for Location Based Services	GSM NA	DP2
70	LS on clarification of Multicall requirement	CN2	DP2
71	Response liaison statement on Emergency calls using IMEI as UE identifier	CN2	DP2
72	USIM/SIM Application Toolkit, Service Description, Stage 1	Motorola	DP2
73	CR 032 to 22.078 on Call gapping / congestion control in HPLMN only	Nokia	DP2
74	Liaison Statement on Cell Broadcast Protocol	RAN 3	DP2
75	LS to SA1 cc CN1, SMG2 on urgent need for requirements on Idle Mode	RAN	DP2
76	CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability	T1P1.5	DP2
77	LS on RAB linking	RAN 3	DP2
78	Presentation on User Identification Solutions in converging networks	STF	DP2
79	Answer to LS on use of Service Areas for CBS	T2	DP3
80	Response to Liaison Statement on the Prio. of VHE Service Capability Features	T2	DP3
81	Addition of requirement for bearer independent data transfer in GSM 22.038	SMG9	DP3
82	CR to 22.038 on Addition requirements for bearer independent data transfer feature	SMG9	DP3
83	Response to LS on PLMN Selection while roaming	SMG9, SCAG	DP3

Doc. No.	Title	Source	Doc Pack
84	Definitions of Domains and Domain Relationship	BT	DP4
85	Service Groupings	BT	DP4
86	Comment on PS domain Feature List	BT	DP4
87	Comment on TR22.976	BT	DP4
88	Analysis of All-IP R00 Requirements	BT	DP4
89	Numbering Issues for Rel00	BT	DP4
90	Proposed version 2 of TR 21.905, 3GPP Vocabulary	One2one, Editor	DP3
91	New SIM toolkit feature: "Auto-answer & Mute-ringing"	SMG9	DP3
92	USIM application selection	SMG9	DP3
93	CR to 22.011 on Network Selection	France Telecom	DP3
94	Terminal Capabilities	France Telecom	DP3
95	CR 032r1 to 22.078 on Call gapping / congestion control in HPLMN only	Nokia	DP3
96	CR to 22.030 on Follow Me	Siemens	DP4
97	CR to 22.094 on Follow Me	Siemens	DP4
98	LS on Network Selection procedures	CN1	DP4
99	Extract of status list for SA1 3G specifications	MCC	
100	RAB linking	Ericsson	
101	Liaisons for emergency calls	Ericsson	
102	Response to document 92 on USIM Application selection	Nokia	
103	LS to SMG2 on LS on UE/MS idle mode operation	France Telecom	
104	CR to 22.100 to change SMS-CB to CBS	France Telecom	DP4
105	Response to doc 98/00	ad hoc	
106	CR to 22.011 on Network Selection (from 93)	ad hoc	
107	CR to 22.121 on Clarification of service capabilities (from 50)	Siemens	
108	CR to 22.121 on Message Transfer and Data Download (from 49)	Siemens	DP5
109	LS on Fixed Dialling Numbers	SMG9 ad hoc meeting	DP4
110	CR to 02.07 on Support of encryption in GPRS mobile stations R97	Vodafone/Aritouch	DP5
111	CR to 02.07 on Support of encryption in GPRS mobile stations R98	Vodafone/Aritouch	DP5
112	CR to 22.101 on Support of encryption in PS mobile stations R99	Vodafone/Aritouch	DP5
113	CR to 22.060 on Support of encryption in GPRS mobile stations R99	Vodafone/Aritouch	DP5
114	Introduction of CPHS into 3GPP specifications	Orange	DP5
115	Treatment of Only GPRS user	DoCoMo	DP5
116	Response to the Liaison Statement on Push Services for GPRS	DoCoMo	DP5
117	CR to 22.060-09r1 to revise for Release 99 and incorporate PS Domain	Lucent	DP7
118	Information on the IMT 200 Steering group	T-Mobil	DP5
119	Response to the Liaison Statement on Push Services for GPRS	SA2	DP6
120	USIM/SIM Application Toolkit, Service Description, Stage 1	Motorola	DP6
121	Answer to LS New SIM toolkit feature: "Auto-answer & Mute-ringing"	Motorola	DP7
122	LS to GSM NA on Location Based Services	SA1	DP6
123	Proposal for R'98 CR-005 r1 to 02.07 for LCS	Vodafone	
124	CR to 22.001 on Editorial modification for change of SMS-CB to CBS	SA1	DP6
125	CR to 22.100 on Editorial modification to remove reference to SoLSA	France Telecom	
126	CR to 22.011 on Editorial modification to remove reference to SoLSA	France Telecom	

Doc. No.	Title	Source	Doc Pack
127	CRs to 02.68 on Call Establishment not applicable to VGCS	Nortel	DP6
128	CRs to 02.69 on Call Establishment not applicable to VBS	Nortel	DP6
129	Answer to "Liaison Statement on VHE/OSA principles"		
130	CR to 22.003 on Addition of Wideband AMR.	Rapporteur	
131	CR to Multicall TS22.135		
132	Corrections on 3,1 kHz Audio support (from 43)	Nokia	DP6
133	CR to TS22.001 on Call progress indication	DoCoMo	
134	CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability (from 76)	Omnipoint	DP6
135	CR to 22.030 on Follow Me (from 96)	Siemens	DP7
136	CR to 02.66 on PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability R'98	Omnipoint	DP6
137	CR to 22.101 on Service Principles on FDN	France Telecom	
138	CR to 22.011 on Network Selection corrections	Ericsson	DP6
139	CR to 22.011 on Network Selection removal of HE specific procedure	Ericsson	DP6
140	CR to 22.003 to change references and include CBS	Nokia	DP7
141	Proposal for VHE release 00	Fujitsu	
142	Response to CN SS ad hoc LS on CF enhancements	Vodafone	
143	Result of ALL IP workshop	Chairman SA	DP6
144	CR to 22.135 on Introduction of SS style in stage 1 and simplifications for R'99	Ericsson	DP7
145	Multicall supplementary service problems to be solved for R'99	Ericsson	DP7
146	Change of scope and title of TR 22.976 (Study on PS domain)	Telia	DP7
147	Draft TR 22.976 on All IP V 0.5.0	SA1 Ad hoc	DP7
148	CR to 22.060 on The support of Push Services for GPRS	NTT DoCoMo, Lucent	DP7
149	CR to 22.060 on R'99 service requirements	NTT DoCoMo	DP7
150	Response to the Liaison Statement on Push Services for GPRS	SA1	DP7
151	CR to 22.011 on Network Selection	France Telecom	DP7
152	CR to 22.121 on Provision of Terminal Capabilities information through IMEI	France Télécom, TELIA, T-Mobil, One2One	DP7
153	LS on Support of GPRS only subscription	NTT DoCoMo	DP8
154	CR to 22.004 on Introduction of Multicall as Supplementary Service		DP8
155	CR to 22.011 on Editorial modification to remove reference to SoLSA		
156	CR to 22.121 on Message Transfer and Data Download (from 108)		
157			
158			
159			
160			
161			
162			

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ANNEX C – Document Index