



3rd Generation Partner's Group

REPORT Version 1

TSG_SA_WG1#8 Plenary Meeting

8th – 14th March 2000
Beijing, China

TSG_SA_WG1 Chairman: Alan Cox
Secretary: Michael Clayton

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DRAFT MEETING REPORT

Version: 1.0, 14th April 2000

1 Opening of the Meeting

The TSG-SA WG1 meeting #8 was held in Beijing, China from the 10th April to the 14th April 2000. It was chaired by Mr Alan Cox (Vodafone) and the secretary was Mr Michael Clayton from the MCC. The host was Nokia China, China Mobile Communications Corporation, China Wireless Telecommunications Standard group and Huawei.

Madame Li Mofang, Chief Engineer of China Mobile Communications Corporation, welcomed the delegates to China, one of our most exotic locations to date.

2 Adoption of Agenda

Document S1-000173 contained the draft agenda for SA1 meeting #8. It was approved without comment.

3 Report and Email Approval from last meeting

3.1 Approval of report of last meeting

Document S1-000174 contained the report of TSG S1 with comments. It was approved with the changes accepted. The update version was provided in document S1-000177.

3.2 Email Approval

Document S1-000175 contained a summary of S1 Email agreements reached before the meeting. It was noted. The following documents were noted as they were approved over email and were submitted to SA1 for approval.

Document Number	Title	Source
S1-000157	LS answer to LS TSGS5#7(99)267: Comments on 22.115 Charging & Billing Service Aspects (see 171)	TIM
S1-000159	CR to 22.078 on Correction of GPRS session description	Alcatel
S1-000160	Spec 21.905 Vocabulary proposed version for approval	SA1 Email
S1-000161	CR to 22.011 on Network Selection (from 93, 106)	SA1 Email
S1-000162	CR to 22.003 on Addition of Wideband AMR.	SA1 Email
S1-000163	LS for emergency calls (withdrawn)	SA1 Email
S1-000164	CR to 22.101 on Emergency call (withdrawn)	SA1 Email
S1-000165	CR to 22.115 incorporating S5 comments (revised to 171/00)	SA1 Email
S1-000166	CR to 22.030 (based 135)	SA1 Email
S1-000167	Change request on 22.078 (Release 99) "Re-alignment of 22.078 for due to limited scope of CAMEL Phase 3"	SA1 Email
S1-000168	CR to Multicall TS22.135 (from email approval based on 131/00)	SA1 Email
S1-000169	LS for emergency calls (101, 163)	SA1 Email
S1-000170	CR to 22.101 on Emergency call (Based on 101, 164)	SA1 Email
S1-000171	CR to 22.115 incorporating S5 comments	SA1 Email
S1-000172	CR to 22.030 on multicall.	SA1 Email
S1-000175	Summary of email approval	MCC

The documents were noted.

4 Reports from other groups

4.1 SA #8

Document	Title	Source	Doc
S1-000158	CR to 22.078 on Correction of Announcement capabilities	Alcatel	DP1
S1-000159	CR to 22.078 on Correction of GPRS session description	Alcatel	DP1
S1-000176	Report of SA#7	MCC	DP4

Document S1-000176 contained a summary and report from SA #7. The report was noted.

A CR to 22.078 on Correction of Announcement capabilities was presented to the SA plenary #7. This was the same as the document presented and rejected at SA1 #7 (S1-000158). It was presented by a member of the SA plenary and with substantial support there, it achieved approval. This is not always the case; another CR presented to the plenary was not approved and referred back to SA1. However, it should be noted that the normal procedure is to the working group first.

It was noted that the CR 22.038-001 (S1-000158) was revised by the plenary as the plenary indicated that there was too much technical detail for an SA1 specification. The revision was presented in SA document SP-000152 and it was approved in the SA plenary. The document was noted in SA1.

4.1.1 SA2

Document	Title	Source	Doc
S1-000183	Reply to: Liaison statement on Bearer Modification Without Pre-Notification (S2-000301)	SA2	DP2
S1-000185	Draft Reply to EP TIPHON WG 5 on Liaison on TIPHON Quality of Service (S2-000307) Copied to SA1	SA2	DP2

The liaison statement from SA in S1-000183 was noted. However, the chairman highlighted that just because something has been taken from R'99, it does mean that it automatically exists in R'00.

It was commented that this has been changed. A proposed WI was provided in document S1-000354 (see section 6.6).

Document S1-000185 contained a draft reply to EP TIPHON WG 5 on Liaison on TIPHON Quality of Service (S2-000307) Copied to SA1. It was commented that the work in TIPHON needs to be watched as it could have an impact on our work. The LS was noted, however.

4.1.2 RAN3

Both documents:

S1-000194	LS on RAN3 decisions related to CBS (R3-000840) Copied to SA1	R3	DP2
S1-000209	LS on RAN3 decisions related to CBS (r3-000840) copied to SA1	Iu-SWG (RAN3)	DP2

were copied to SA1 and were noted.

4.1.3 RAN2

Both documents:

S1-000195	Response (to TSG-SA WG2, copy TSG-SA WG1, TSG-RAN WG3, TSG-CN WG1 and TSG-CN WG2) to LS (S2-000302) on RAB information and Lossless RNS relocation signalling (R2-	R2	DP2
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	000579) Copied to SA1		
S1-000211	LS on RAB information and Lossless RNS relocation signalling (S2-000606) copied to SA1 (See also 195)	S2	DP2

were copied to SA1 and were noted.

4.1.4 CN3

S1-000197	LS Bearer Modification without pre-notification (N3-00117)	CN3	DP2
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This liaison statement was noted. The key is that if this is not for R'99 and if it is to be included in R'00 a work item is required. (see also 4.1.1.)

4.1.5 SA3

S1-000208	LS on UE personalisation (S3-000083)	TSG SA WG3	DP2
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The liaison statement from SA3 on what used to be call SIM Lock, has been copied to us, probably because SA1 used to own the specification. The document was noted.

Another point was brought up regarding the MMI for multiple USIMs on a UICC. Since SA1 is contribution driven, it is up to delegates with an interest to provide a proposal. For R'99 there will only be one active at any one time; this has not been decided for R'00.

4.2 ETSI SMG #31

4.3 SPAN

S1-000226	Response to liaison statement on Collaboration on Open Interfaces (copied SA1)	SPAN	DP2
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The document was noted. It has been copied to us and relates to our work for fixed/mobile convergence in R'00.

It was commented that there is some danger for SA2 to start specifying service requirements. It was suggested that a liaison statement be sent back to SA2 indicating that if service requirements are to be specified, it should be done by SA1. The subject was passed to the rapporteur for checking.

The result was that this does affect us. It was noted.

5 Pre Release 2000

5.1 GPRS (22.060)

The documents taken under GPRS R'99 were:

S1-000180	LS on Deletion of PDP type X.25 (S2-000174)	SA2	DP2
S1-000181	Response to the Liaison Statement on clarification of necessity of registration (S2-000298)	SA2	DP2
S1-000184	3G to 2G Handover (S2-000303)	SA2	DP2
S1-000188	Liaison statement to N1 concerning the change of title of 23.060 (S2-000314) Copied to SA1	SA2	DP2
S1-000189	LS to N1 on Maximum size of N-PDU (S2-000315) Copied to SA1	SA2	DP2
S1-000191	LS response on; CDR creation for non-charging liable subscriptions (S2-000321)	SA2	DP2
S1-000200	LS on Push service (N3-00092)	CN3	DP2
S1-000201	LS on Deletion of X.25 and Work Item of Interworking with ISDN / PSTN (N3-00093)	CN3	DP2
S1-000202	LS on Clarification of necessity of registration Interworking	CN3	DP2

	profile for activation on PS domain" in response to S1-991068 and S2-000298 (N3-00095) (see also SA1-181)		
S1-000205	Response on Liaison statement concerning the change of title of 23.060 (N1-000452) copied to SA1	CN1	DP2
S1-000305	Proposed Liaison statement on Adaptation of 23.060 terminology with the N1 terminology agreement	SA2	DP5
S1-000316	Proposed Liaison statement on Adaptation of 23.060 terminology with the N1 terminology agreement	SA1	
S1-000320	Proposed Liaison statement on Adaptation of terminology	SA1	
S1-000340	CR to 22.060 R'99 to delete of the octect stream service (IHOSS)	Lucent	
S1-000341	Reserved for CR to 22.060	Lucent	
S1-000342	Reserved for CR to 22.060	Lucent	
S1-000343	Reserved for CR to 22.060	Lucent	
S1-000344	Reserved for CR to 22.060	Lucent	
S1-000345	Paul's LS on " Deletion of PDP types X.25 and OSP"	Lucent	

Support of X.25

S1 had previously proposed that removal of X.25 support from Release 99 onwards (S1-991001).

Document S1-000180 is a reply from SA2 agreeing with SA1 to remove X.25 and they have removed this from the Stage 2. The CR to do this has been approved by SA#7. Document S1-000201 contained a liaison statement from CN3 reverting their earlier decision and agreeing that X.25 should be removed and confirms that they have removed X.25 and PSTN/ISDN interworking from their specifications.

Additionally they recommend the removal of IHOSS and PDP type OSP. It was noted by Nokia that it was reinstated by SA1 due to comments from SA2 delegates. It was decided that delegates should check with their companies and decide if this should be deleted or not.

The rapporteur was asked to produce CRs to Stage 1 to remove X.25. In response, the rapporteur asked any delegate wanting the continued support for IHOSS and OSP should indicate this to the rapporteur, otherwise he will draft a CR to remove this service and an LS to inform the relevant groups of this. . As there were no negative comments meeting agreed to delete IHOSS and OSP. The liaison statement was provided in document S1-000345.

The CRs were provided after the meeting in documents S1-000340, S1-000341, S1-000342, S1-000343 and S1-000344. These were put to email approval.

Documents S1-000365 and S1-000366 were put on email approval.

Registration to External networks

Document S1-000181 contained a liaison statement from SA2 on clarification of necessity of registration (S2-000298). SA2 confirmed that it is possible for the user to activate connections to non-preconfigured external networks by using non-subscribed Access Point Names (APN's). The network operator is able to configure, via O&M actions (e.g. by creating whitelists and blacklists), which external networks can be accessed without specific user registration, and which networks do require specific user registration, e.g. specific subscribed APN's in the user's HLR records. In addition, home network operators are able to control the GGSN's and external networks the users are allowed to access. For example, the home network operator may decide to direct all user traffic via the home network, i.e. a home network GGSN, or to also allow dynamic GGSN and external network selection in the visited environment. This was confirmed in document S1-000202 where CN3 also agree with SA1, and add some information for SA1's interest.

The documents were noted. SA1 had a CR at the last meeting to include this feature.

In addition, document S1-000202 clarifies the procedures for registration which are not correctly encapsulated in the stage 1. Therefore it was requested that the rapporteur elaborate appropriate CRs. Whilst this applies to all releases, it was decided only to change R'99 and R'00.

The CRs to do this will be provided in documents S1-000365 and S1-000366 for email approval.

2G/3G Handover

The 3GPP specifications allow 3G networks to support multiple active PDP contexts, whereas 2G supports only one. Document S1-000184 contained a reply to the SA1 liaison statement on open issues regarding 3G to 2G handover. This is not entirely in line with the SA1 liaison statement, but is satisfactory for our purposes. It states that in the case of handover from 3G to 2G of a PS service only the PDP context with the highest QoS will be maintained, this procedure is detailed in TS 23.060 section 11.1.1.

SA1 are invited to comment upon this. The view of the meeting was that SA1 concurs with their implementation. Also there is a document on a similar subject for Multicall (S1-000212) and the same solution should apply to both features.

The documents were noted, but delegates were asked to review this and to generate contributions if they have any concerns.

Terminology

Document S1-000188 is an LS from SA2 proposing a change in the title of 23.060 (GPRS Stage 2). Document S1-000205 contains an LS from N2 which objects to this change.

This matter has now been resolved, with GPRS used as the generic term for the packet switched system defined by 3GPP. The Stage 1 is already in line with this and no further action is required.

Document S1-000305 is an LS from SA2 on the terminology to be used when indicating a requirement applies only to GSM or UMTS. Their approach is inconsistent with SA1, which indicates if requirements need to be supported by networks that use either GERAN or UTRAN.

It was decided to send a liaison statement back to SA2. Document S1-000320 was provided later in the meeting. It was approved.

Maximum size of N-PDU

Document S1-000189 is an S2 response to N1 and is of no interest to S1. No action is required and the document was noted.

CDR Creation for “non-charging liable subscriptions”

Document S1-000191 contains an LS on the issue of CDR creation. It clarifies that S1 are responsible for defining Charging requirements and S5 is responsible for the development of detailed charging specifications.

Furthermore it states that *“S2 would therefore like S1 and S5 to review the work to date in terms of requirements and solutions, respectively, and advise S2 on the way forward to complete the work on CDR creation for non-charging liable subscriptions.”*

The Charging and Billing Stage 1 Rapporteur was asked to draft S1 response which was provided in document S1-000304. This was approved.

Push Services

Document S1-000200 contains an LS from CN3 on push services. This is a response to an SA1 LS from San Diego. It confirms that this can only be supported currently with static IP addresses.

SA1 had received a similar response from S2 at the Sophia Antipolis meeting and had clarified that the support of push services is required in the case of dynamically allocated IP addresses. An LS was sent from the Sophia Antipolis meeting conforming this, and a CR was approved at SA#7 containing this requirement.

No further work is required.

5.2 CAMEL (22.078)

Document 256/00 contained the report of the CAMEL ad hoc held in Sophia Antipolis from 5th to 6th April 2000. It was chaired by Michel Grech from Lucent Technologies and the secretary was Michael Clayton from the MCC.

The documents taken for Release '99 were :

S1-000192	LS to SA5 on Charging impact due to introduction of CAMEL	CN2	DP2
S1-000214	LS on In-band user Interaction handling for Dialed Service	TSG CN WG2	DP2
S1-000232	CR to 22.078 on Correction to the reduced scope of CAMEL	Lucent	DP2
S1-000247	CR to 22.078 on corrections to the reduced scope of CAMEL	Lucent	DP3
S1-000248	For a deployment of CAMEL Phase 3 by step in MSC/VLR and	Alcatel	DP3
S1-000249	CR to 22.078 on Deployment of CAMEL phase 3 by step	Alcatel	DP3

On document S1-000192, it was noted that the stage 1 does not contain as much information as the stage 2. In addition, it was pointed out that the requirements should be defined by SA1 and not SA5 or CN2.

Document S1-000214 contained a liaison statement from CN2 on the in-band user interaction handling for dialled services.

TSG CN WG2 Subgroup A has looked at the stage 2 and work for in-band user interaction handling for Dialed service and has included this capability in R99. Now, CN2 are asking SA1 to confirm their assumption from the service requirement viewpoint and update the relevant stage 1 document (22.078), if necessary.

The current assumption in CN WG2 Subgroup A is that it shall be possible for the CSE to order the playing of announcement/guidance or tones towards the calling subscriber without on-line charging procedure. (Apply Charging or Send Charging Information.) It means that CSE for dialled service can not give any charging instruction for that user interaction, and the on-line charging is not applicable during that user interaction.

The work has been done in CN2 and the CRs have been sent for approval. Therefore the stage 2 already has the capability and it is not clear if the stage 1 has the appropriate requirements.

After some checking, it would appear that CR 22.078-033 has included all of the requirements related to this liaison statement. However, there are some other features, it would appear, in the stage 2 and stage 3 which is not reflected in the stage 1. It was not dealt with in the liaison statement in document 214/00 and so it was not dealt with in this meeting.

The liaison statement was noted.

Leading on from this, it was noted that the text :

- *perform charging activities (the CSE is only allowed to include charging data in the Call Data Record);*

was included in another CR as a working assumption, whereas there was another change from DoCoMo which conflicted with this. It was decided to make the correction to 22.078.

Document S1-000251 contained the change request from Ericsson. This was agreed to be sent to SA#8 for approval and was issued CR number 039. (See also below.)

Document S1-000232 contained a CR to 22.078 on Correction to the reduced scope of CAMEL Phase 3 in release 99 on enhancements to call forwarding. This was to correct an earlier CR and should have been included

to align the stage 1 with the stage 3. It was agreed to be sent to SA#8 for approval. It was allocated CR number 037.

It was asked why the scope was reduced. It was answered that this was requested by CN2. It was decided to accept the CR subject to checking with CN2.

Document S1-000247 contained a CR to 22.078 on corrections to the reduced scope of CAMEL Phase 3 in R'99. In particular, the CR proposes the deletion of MeXE/SAT free format data annex A1. It was agreed to be sent to SA#8 for approval and was allocated CR number 038.

Document 248/00 contained a proposal for the VLR to indicate which CAMEL phase 3 functionalities it supports. On the basis of that indication, the HLR should send the corresponding CAMEL subscription information, if supported in VLR, or it should take the appropriate fallback action if such a CAMEL Phase 3 feature is not supported in the MSC/VLR. A similar mechanism between the HLR and the GMSC is also proposed.

The CR in document 249/00 was presented to implement the changes.

It was noted that there is some serious impact on including this into R'99. Amongst others, it was noted that this will alter the procedures in the HLR. It was not known if the work has been done in CN2, despite the comment that the work to implement this was done at the last CN2 meeting in Charleston, USA. Both documents were withdrawn.

A new point was brought up on the CAMEL specification. In 5.2.1.1 in the first bullet there is some text on the content on the dialled number string. The format can be anything supported by the access protocol. It was proposed to restrict the NPI. A CR to this effect was provided in document 251/00. This was agreed and will be sent to SA#8 for approval. It was allocated CR number 039.

Another CR was provided in document 252/00 related to clarification for conditional triggering for subscribed dialled services. This was approved and will be sent to SA1 for ratification. It was issued CR number 040.

Futhermore, another proposed CR was provided in document 255/00 on the removal of Number Plan Identifier. This was approved and will be sent to SA1 for ratification. It was issued CR number 041. It was decided to hold this CR until some further checking can be done.

This was checked and the objections brought up have been resolved. However, it implies that the feature was applicable to CAMEL phase 2 whereas it was not. This needs to be studied off-line. In the meantime the CR was put on hold.

Subsequently, the CR ratified and it was agreed to send it to SA #8 for approval without any change.

The output of the meeting was contained in documents:

S1-000232	CR to 22.078 on Correction to the reduced scope of CAMEL	Lucent	DP2
S1-000247	CR to 22.078 on corrections to the reduced scope of CAMEL	Lucent	DP3
S1-000251	CR to 22.078 on correction to description of subscriber dialled	CAMEL ad hoc	DP3
S1-000252	Clarification for conditional triggering for subscriber dialled	Ericsson	DP3
S1-000255	CR to 22.078 on Removal of NIP from conditional triggering	Ericsson	DP3
S1-000256	Meeting report of CAMEL ad hoc	MCC	DP4

The CRs was all agreed to be sent to SA #8 for approval and the report was noted.

5.3 Editorials

S1-000261	CR to R97 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3
S1-000262	CR to R98 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3
S1-000263	CR to P2 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3

S1-000264	CR to R00 22.016 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3
S1-000265	CR to R96 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3
S1-000266	CR to R99 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Nokia	DP3

There is a note in 02.16 and 22.016 regarding the applicability of IMEI security to phase 2 and the various releases. It was suggested to remove the information about phases and releases. This was agreed and the CRs in documents 261 to 266 were agreed to be sent to SA#8 for approval.

5.4 VHE (22.121)

80	Response to Liaison Statement on the Prio. of VHE Service Capability Features	T2	DP3
S1-000186	Response to LS to T2 on VHE/OSA Service Capabilities Features and MMS (S2-000312) Copied to SA1	SA2	DP2
S1-000187	Answer to Liaison Statement on the Prioritisation of VHE Service Capability Features (S2-000313)	SA2	DP2
S1-000267	CR to 22.121 on Modification of section 10.2.6 on reducing the scope of the VHE/OSA requirements	Siemens	DP3
S1-000280	CR to 22.121 on Modification of section to align name with TS 23.127	Fujitsu Europe Telcom	DP3
S1-000283	CR to 22.121 on Removal of section 10.2.3 Address	Siemens	DP3
S1-000284	CR to 22.121 on Modification of section 10.1.3 Registration	Siemens	DP3
S1-000285	CR to 22.121 on Modification of section 10.2.9 to reduce scope	Siemens	DP3
S1-000307	LS on Information on VHE/OSA work (S2-000553)	SA2	DP5
S1-000318	VHE/OSA RELEASE 2000	Ericsson	DP6
S1-000319	CR to 22.121 on Alignment of VHE Stage 1 top VHE/OSA	Ericsson	DP6
S1-000331	Alignment of VHE stage 1 to stage 2 & 3	Ericsson	
S1-000334	Alignment of VHE stage 1 to stage 2 & 3	Ericsson	DP8
S1-000356	LS to S2 on Modification to align S2 work to S1 (from 280 and	Fujitsu Europe	DP1

Document S1-000187 contained an answer to the SA1 liaison statement to them on the Prioritisation of VHE Service Capability Features (TSG S1 (99)1037 / S2-000059). In addition to this, document S1-000307 contained a liaison statement on Information on VHE/OSA work (S2-000553). In it, SA2 indicate a lot of effort on the stage 2 VHE/OSA specification (23.127) has been spent with the aim to provide an open service architecture, which satisfies the needs of the Virtual Home Environment as addressed in the stage 1 VHE/OSA specification (22.121).

S2 is aware that two requirements from S1 are only partly supported in 23.127 v2.0.0: For charging there is no support of GPRS and SMS charging at the OSA API, and user profile management via the OSA API is currently restricted to the retrieval of terminal capabilities. SA 2 would like to propose that these features be postponed to R00. Also SA2 would like to inform SA that the focus has been on the open API from the network to applications for release 99, while the interface between OSA servers will be studied in the future releases.

S2 are proposing that the scope of VHE/OSA for release 99 is restricted to the features described in 23.127 v2.0.0. According to our information, this is well aligned with the current scope of OSA stage 3 work in TSG CN, and we suggest that the stage 1 specification 22.121 be aligned in its scope. S2 indicate that they can assist S1 to identify the modifications, which are necessary to provide a consistent set of specifications for release 99.

Given this, document S1-000267 contained a proposed CR to reduce the scope of VHE/OSA. It was stated that in SA #7, time has been given to CN to fulfil the functionality for VHE and OSA. However, not everything in the stage 1 is possible. Based on this, the CR in document S1-000267 was proposed to reduce the scop. It was agreed to be sent to SA #8 for approval.

In addition S1-000280 contained a CR to 22.121 to align name with TS 23.127. S2 proposed that the name of the "Non-Framework service capability features" be changed into "Network Service Capability Features".

It was decided to take this discussion off-line and come back. We could agree to this change, not agree to it or to have another change. After the discussion, instead of agreeing to the CR, it was decided to send a liaison statement back to SA2 rejecting their proposal. The liaison statement was provided in document S1-000356 (note 321 was allocated, but not used).

It was revised with the revision being provided in document S1-000371. This was approved.

Document S1-000283 contained a CR to 22.121 on Removal of section 10.2.3 “Address Translation SCF”. This was agreed without comment and will be sent to SA #8 for approval.

Document S1-000284 contained a CR to 22.121 on Modification of section 10.1.3 “Registration service capability feature”. It is being introduced to provide a consistent set of documents for release 99 and to align stage 1 with stage 2 by reducing the scope of the VHE/OSA requirements.

Once again, the reduction is dependent on the ability of CN5 to do the work. It was agreed, therefore, to agree the CR subject to CN being able to complete the work.

Similarly, document S1-000285 contained a CR to 22.121 on Modification of section 10.2.9 to reduce scope of User Profile Management service capabilities. It was agreed to send this CR to SA #8 for approval for now.

Document S1-000186, which contained a response to LS to T2 on VHE/OSA Service Capabilities Features and MMS (S2-000312), was noted.

Document S1-000331 contained an Alignment of VHE stage 1 to stage 2 & 3 from Ericsson. The TSG SA#07 Plenary approved 3G TS 23.127 and requested S1 to align their stage 1 specification to the current scope of the stage 2 document. It was understood that the current Release 99 scope should be kept as was presented by 3G TS 23.127 and any further resolution of the open issues as identified within SP-000155 should be presented as CRs to the TSG SA#08 Plenary.

This CR aligns the stage 1, TS 22.121, to the current TS 23.127, Version 3.0.0

Furthermore this section addressed the removal of the FFS since this is not applicable to be in a stable document. The FFS items need to be worked out in further releases of the document (e.g. Release 00).

It was stated that document S1-000331 replaces S1-000318 and S1-000319. It was questioned if 318 was replaced. The answer was not clear. Based on this, and the questions on whether the CR was a little too comprehensive and could be split into more than one CR, it was decided that this should be taken off-line.

Document S1-000334 was allocated for the output. It was approved and will be sent to SA #8 for approval.

5.5 Multicall (22.135)

S1-000206	Liaison statement on the status of Multicall (N1-000481) copied to SA1	CN1	DP2
S1-000212	LS on Call/Session Priorities (S2-000584)	S2	DP2
S1-000348	CR to 22.135 on Alignment of handover requirements for Multicall (from 212)	Telia	DP10
S1-000349	CR to 22.129 on Alignment of handover requirements for Multicall (from 212)	Orange	DP10

Document S1-000206 contained a liaison statement from CN1 on the status of Multicall (N1-000481) which was copied to SA1. It was genuinely noted.

Document S1-000212 contained a liaison statement on Call/Session Priorities (S2-000584) from S2. In it SA2 are asking SA1 a number of questions on Multicall. It was noted that this liaison statement relates to release 2000, but it was commented that unless these questions are answered and included in R'99, then some changes will be required to align the R'99 stage 1 specification with the stage 2. Revisions were provided in document S1-000348 and document S1-000349.

It was sent to the rapporteur to answer the questions and send a liaison statement back. This was provided in document S1-000322. It will be sent from the Las Vegas ad hoc.

Document S1-000348, which contained a CR to 22.135 on Alignment of handover requirements for Multicall (and which replaced document 212) was approved, as was document S1-000349 which contained an equivalent CR to 22.0129.

5.6 Follow-Me (22.094)

No input.

5.7 Emergency Calls

S1-000313	CR 22.101 on Types of emergency calls	Ericsson	DP6
S1-000314	Liaison statement on Emergency calls	Ericsson	DP6
S1-000315	CR to 22.101 on Emergency calls	NTT DoCoMo	DP6

Document document S1-000315 contained a proposed CR to 22.101 to provide for more emergency numbers as examples. The numbers in the list are in the specification to fulfil the legal requirements of some countries. To delete them, therefore, is not really appropriate although any new numbers should be permitted.

It was pointed out that this scenario is for emergency calls without a SIM. Therefore, any number should not really impact on normal services, since with no SIM/USIM there should be no access to the conflicting service. Of course, there could be a problem if there are no emergency numbers stored in the SIM/USIM.

It was agreed that the paragraph at the end of section 8.0 should be deleted. The main problem is the list of numbers. It was suggested that 110 as nobody could understand why it was there. In addition, the Japanese delegations wanted to add some numbers used in Japan. To do this, would affect customer service numbers in Finland and Italy.

If extra numbers are stored in the Mobile then the only situation where there should be a problem is if there are no numbers stored in the SIM and the mobile number takes precedence. This is a rare scenario and particularly as Japan does not currently use SIMs and could ensure that all their SIMs contain a number.

Clearly there is a great problem with this and so it was decided to take the subject off-line. An update was provided in document S1-000350. Also document S1-000351 was reserved in case a release 2000 CR was required.

The CR is to the wrong version number (it should 3.9.0), but the section changed is the same in both versions.

The CR was presented later in the meeting. Essentially, all the emergency numbers in Japan are used when there is not SIM inserted, and just 110 is used when there are no numbers stored on the SIM. S1-000350 was agreed to be sent to SA #8 for approval. The equivalent CR for R'00 was provided in document S1-000351. It is probably not required, but does not harm either. It is safer to have it than to lose it. It too was sent for approval.

5.8 Access Control Classes & Network Selection (22.011)

S1-000238	Preferred access technology for PLMN selection	France Telecom	DP3
S1-000239	CR to 22.011 on Network Selection	France	DP3
S1-000240	CR to 22.011 on Network Selection access technology	France	DP3
S1-000241	CR to 22.011 on Network Selection access technology	France	DP3
S1-000244	CR to 22.011 (for R'99) on PLMN selection	T-mobil	DP3
S1-000245	LS to N1, T2 and T3 regarding the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list	T-mobil	DP3

Document S1-000238 contained an input document on allowing a preferred access technology for PLMN selection. The proposal is to add a Preferred Access Technology data field that will allow the user to set his preference in terms of access technology, and to modify the current Automatic Network Selection mode to account with this Preferred Access Technology data field.

The key to this is that, if a user requires a specific grade of service, then this feature will allow the user to register to a network that has the required grade of service, rather than to register on any network and find out that the network cannot supply the services the user wants to use. However, this would mean that the fields need to be set up in the first place.

These proposals are implemented in a CR in document S1-000241 for release '99.

It was asked if there will be a list of access technologies in the SIM/USIM and if it contains other technologies than GSM, UMTS or derivatives. It was answered that the list is there, but does not contain technologies outside SMG and 3GPP.

This is a complex issue and it was commented that it would be better to allow the user to choose a network rather than an access technology. The problem exists today; if a roamer tries to use data today and it is not available, then the user would normally then choose another operator in the country.

It was decided that this issue should be taken off-line. If an agreed proposal can be provided by the end of the meeting, then it can be accepted. If not, then this feature will need to be discussed as part of release 2000.

Hence, the other related CRs in documents S1-000239, S1-000240 and S1-000241 are put on hold.

Subsequently, it was decided that this work should be moved to Release 2000.

Document S1-000244 contained a CR to 22.011 on network selection and the possibility for the user to select the priority of "User controlled PLMN selector" and "Operator controlled PLMN selector".

It was noted that the default is user controlled selector and not network controlled selection. The answer was that this caused some discussion in the Plenary; i.e. the user should have the ultimate control. The user may pass this to the operator, but should allow for the user to pass this control to the operator. It was clarified that the text related to the use of SAT to change the switch over the air, merely relates to the setting of the switch; i.e. the order in which the user and network controlled selection is processed. It does not stop the network from sending an indication that the user is, for instance, on an expensive network.

The requirement for Network selection was noted in the SA Plenary and there was strong support for this feature. If a full set of CRs are provided to all relevant specifications, the function may be considered for inclusion in R99 in June 2000. TSG SA did not take any position on the acceptability or non-acceptability of this CR. Interested members can present the CR to SA WG1 for consideration.

This CR is designed to give some control to the operator. The additional text was added to give overall control of the feature to the users. The original text gives overall control to the user and the new text gives some control of this to the operator. So, either the CR is approved as it is, or not approved at all.

It was decided to send the CR to SA #8 for approval if a full set of CRs is available. On this document S1-000245 contained a liaison statement to N1 T2 and T3 asking for the work to be done to complete the package. It was noted that perhaps it was the chairman of T2 that had an interest in this and not the whole of the group. This notwithstanding it was proposed to send it.

Subsequently, it was pointed out that this LS should really go to the new SMG9 also to ensure that the solution on the SIM and USIM are the same. This was agreed.

Document S1-000367 contained a liaison statement from RAN2 which was copied to SA1 even though it is a reply to a liaison statement sent to them. It would appear that they appear to have implemented the conclusions in accordance with the conclusion of the WS in June 99 and has not taken any notice of the SA1 requirements.

A proposed response was provided in document S1-000368. It was approved and will be sent to 3GPP CN1, RAN2, ETSI SMG2 and copied to 3GPP SA.

5.9 SoLSA (22.043)

S1-000276	CR to 02.43 R98 on Clarification of requirements and editorial changes.	Nokia	DP3
S1-000277	CR to 22.043 R00 on Clarification of requirements and editorial changes.	Nokia	DP3
S1-000324	CR to 02.43 R98 on Clarification of requirements and editorial changes (from 276)	Nokia/Lucent	DP7
S1-000325	CR to 22.043 R00 on Clarification of requirements and editorial changes. (from 277)	Nokia/Lucent	

Document S1-000276 contained a CR to 02.43 R98 on Clarification of requirements and editorial changes and document S1-000277 contained an equivalent to R'99. These are being provided to update the Stage 1 for 3GPP use and clarification and align the requirements with release 99 system functionality.

It was agreed in principle but a revision is required.

These were provided in S1-000324 and S1-000325. It was agreed to send them to SA #8 for approval.

5.10 Bearer Services Supported by a PLMN (22.002)

S1-000198	LS on V.34 modem, user rate 33.6 kbit/s, NT (N3-00105)	CN3	DP2
S1-000199	LS on Lower User Rates in UMTS for Circuit Switched Data Services (N3-00114)	CN3	DP2
S1-000274	CR to 22.002 R99 on Lower User Rates in UMTS for Circuit Switched Data Services	Nokia	DP3

Document S1-000198 contained a liaison statement on V.34 modem, user rate 33.6 kbit/s, NT (N3-00105) from CN3. CN3 has the opinion that the user rate 33.6 for NT interworking with 3.1 kHz should not be in Section 3.1.1 and proposes to remove the corresponding row of the table. The reason is that this service is already covered by the last row of the table, i.e., by auto bauding.

Moreover, document S1-000199 contained a liaison statement on Lower User Rates in UMTS for Circuit Switched Data Services (N3-00114) from CN3. CN WG3 is asking TSG SA WG1 to consider the proposal, to support user rates less than 9,6 kbit/s to MSs only. Also, the user rates 300, 1200, 2400 and 4800 bit/s towards the fixed network:

- ?? will only be provided for BS 20 non-transparent for mobile terminated calls (3,1 kHz audio and UDI/RDI) and mobile originated calls (3,1 kHz audio)
- ?? will not be provided for BS 20 transparent (already agreed by TSG SA WG1)
- ?? will not be provided for BS 30 transparent (already agreed by TSG SA WG1) and non-transparent .

The CR to do this was provided in document S1-000274 CR to 22.002 R99 on Lower User Rates in UMTS for Circuit Switched Data Services.

It was agreed to send this to SA #8 for approval. It was noted that the CR affects the ME and Core Network.

5.11 Multimedia Messaging (22.140)

S1-000207	Comments on MMS latest draft - 3G TS 23.140 V1.3.1	Sony	DP2
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Document S1-000207 contained some comments on MMS latest draft - 3G TS 23.140 V1.3.1 from Sony. It was pointed out that similar comments were provided in the Stage 2 meeting. Apparently, there is an MMS ad hoc taking place in Israel at the same time as this meeting and that the rapporteur for MMS is at the MMS ad hoc. The document was noted as it was understood that the document will be dealt with there.

5.12 Call Forwarding (22.082)

S1-000224	CR to 22.082 on Support for long-forwarded to numbers	Vodafone	DP2
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S1-000328	CR to 22.082 on Support for long-forwarded to numbers (from	Vodafone	
S1-000329	CR to 22.079 on Support for long-forwarded to numbers	Vodafone	

Document S1-000224 contained a proposed CR to 22.082 on Support for long-forwarded to numbers. This is being presented to align stage 1 with stage 2.

Each call forward scenario is addressed with a proposal for what should happen if the subscriber is roaming to a network that does not support long forwarded-to numbers. In the presentation three points were made: that CN have made and approved the changes, that the text related to optimal routing should possibly be put into 22.079 and that some consideration should be given to the situation of interrogation.

It was decided that the text on optimal routing should go into 22.079 and hence this resulted in two CRs, one to 22.082 and 22.079. A revised CR to 22.082 and a new CR to 22.079 were presented in documents S1-000328 and S1-000329, respectively.

In document S1-000328 section 1.4.7 it is stated that for the case when the user interrogates call forwarding then the service state shall be indicated with the last 16 digits of the number being displayed. This should be 15 digits, not 16.

Also, for non support, there was some concern that the requirements specified are not complete. It is entirely up to the HLR what to do with the forwarding information and to specify this.

Documents S1-000360 and S1-000361 were allocated for the result. It will be put on the email list for approval.

5.13 Charging and billing (22.115)

S1-000304	LS S2 and S5 on Charging and billing	TIM	
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Document S1-000304 contained a proposed liaison statement from S2 and S5 on Charging and billing in response to SA2's liaison statement in document S1-000191 (section 5.1). It was approved.

5.14 CLI (22.081)

S1-000309	Global "Cause of no ID" and CR to 22.081	Nokia	DP5
S1-000312	Comments to: Global "Cause of no ID"	MMO	DP6

A CR to 22.081 on a global cause of not having a caller ID was provided with some explanation in document S1-000309. There is a TTC requirement to have more information on why a caller ID is not provided. For example, in case of the MO call subscriber (A-party) do not wish to notify the calling party number to the MT subscriber (B-party), the reason will be notified to the B-party subscriber. Additional to this, some causes of no-ID (given to B-party) have been used by Japanese domestic telecommunication operators. It is being requested to add some causes when no calling party number is provided.

The following are four cases where NO calling party number is provided would be possible:

Unavailable	In case of the service is unavailable.
User rejection	In case of user do not wish to tell his number.
Interaction with other services	In case of service interaction.
Coin line	In case of a coin line call.

Document S1-000312 was presented to counter this proposal. In the document a proposal for mapping is provided to ITU Q.931. The only one which is not mapped is the Coin Line.

It was decided to have NTT DoCoMo, MMO and Nokia discuss the issue and come back to the meeting with a proposal. Document S1-000358 was the result of the discussions and contained a liaison statement on Global "Cause of no ID".

The liaison statement was approved with a change that this is intended for release 1999. A revision was provided in document S1-000363. It was approved.

5.15 Service Principles (22.101)

S1-000310	CR to 22.101 on CS multimedia support	Nokia	DP5
S1-000330	CR to 22.101 on CS multimedia support (from 310)	Nokia	

Document S1-000310 contained a proposed CR to 22.101 to introduce H.324M support for CS multimedia. This CR constitutes an alignment to the work done by CN3/CN1. There are no new requirements for release 99.

It was decided to have a revision. This was provided in document S1-000330. There was some concern that the term single and multiple numbering is used rather than single and multiple numbering scheme. Also there was a question as to whether this applied to BS30 only or all BSs. It was clarified that it applied to BS30. This, in itself, caused some concern. This was taken off-line and a revision was provided in document S1-000362.

It was agreed and will be sent to SA #8 for approval.

5.16 Services & Service capabilities (22.105)

S1-000355	CR to 22.105 on Delays and QoS	BT	DP9
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At the last plenary of SA #8 there was concern over the delay end to end. In section 5.5 of TS 22.105, Supported End User QoS, the end to end delay values are specified as '<150 msec preferred and <400 msec limit'. It should be noted that if a service is offered where the delay approaches this upper limit then the user perception of the service may be poor.

The maximum figure defined should only applied in the worst case namely that the call is mobile to mobile. In the case of mobile to fixed calls this figure should be halved to 200ms.

Based on this, a CR was presented in document S1-000355. A note is added to the table to indicate this maximum delay applies to the worst case namely for a mobile to mobile call. In the case of a mobile to fixed call the delay should be half this figure i.e. 200msec.

This caused some concern, particularly the use of the term worst case. It was decided to revise this, which was provided in document S1-000364. It was agreed to send this document to SA#8 for approval.

6 Release 2000

6.1 GPRS (22.060)

No input.

6.2 CAMEL (22.078)

Document 256/00 contained the report of the CAMEL ad hoc held in Sophia Antipolis from 5th to 6th April 2000. It was chaired by Michel Grech from Lucent Technologies and the secretary was Michael Clayton from the MCC.

The documents taken for Release '00 were :

S1-000213	LS on CAMEL functions to be included in Release 2000 (N1-	CN1	DP2
S1-000215	Nokia wish list for CAMEL phase 4 in R2000	Nokia	DP2
S1-000216	CAMEL R2000 service capabilities from postponed CAMEL	Lucent	DP2
S1-000236	CR to 22.078 on Mobility management triggers for CAMEL	Ericsson	DP3
S1-000237	CR to 22.078 on CAMEL interaction with Location Services for	Ericsson	DP3
S1-000250	Work item for CAMEL Phase 4	Siemens	DP3
S1-000253	Work item for CAMEL Phase 4	CAMEL ad hoc	DP3

S1-000254	Proposed LS to CN, CN2 and SA2 on CAMEL Phase 4	CAMEL ad hoc	DP3
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The output of the meeting was contained in documents:

S1-000256	Meeting report of CAMEL ad hoc	MCC	DP4
S1-000272	Work item for CAMEL Phase 4	CAMEL ad hoc	DP3
S1-000273	Proposed LS to CN, CN2 and SA2 on CAMEL Phase 4	CAMEL ad hoc	DP3

Having dealt with the inputs on Release 2000, the ad hoc produced a new work item for CAMEL phase 4 in document S1-000272. It was approved and will be sent to SA #8.

Following on, document S1-000273 contained a proposed liaison statement to other groups in response to their input on CAMEL. This was approved.

It was noted that the dates for the next ad hocs were provided in document S1-000272 and were:

S1	Dates	Actions
S1 CAMEL adhoc	May 10-11, 2000	?? Work on of any new Stage 1's required so they are suitable for v1.0.0 at SA#9. ?? Produce initial CR's to the existing 22-series ?? Produce material to present to SA2 and CN2.
S1 CAMEL drafting session	July 4-6, 2000	?? Revise stage 1 in line with feedback from other TSGs and WGs. ?? Prepare stage 1 for submission to S1#9

There was some concern that the timescales are very tight and, bearing in mind the history of CAMEL, the workload is a little ambitious. It was also noted that the last ad hoc did not contain any operators. The chairman requested more input, particularly from operators.

The ad hoc was mandated to send liaison statements and output directly to other groups as long as the SA1 mailing list is kept abreast of events.

6.3 PLMN selection (22.011)

S1-000196	Reply to LS on requirements for Network Selection (T1-000039)	T1	DP2
S1-000227	CR to 22.011 on Network Selection in a neighbour country	Alcatel	DP2
S1-000270	CR to 22.101 R00 on Network selection procedures removed	Nokia	DP3
S1-000271	CR to 22.101 R99 on Network selection procedures removed	Nokia	DP3
S1-000279	CR to 22.011 on Reselection attempts of GPRS terminals	T-Mobil	DP3

Document S1-000196 contained a reply to an SA1 liaison statement on requirements for Network Selection (T1-000039) from T1. In it T1 indicate that, due to resource limitations, they will not be possible to include further test cases, to cover these new requirements, in the release 99 documents. T1 would however welcome relevant contributions from the member companies who feel that test coverage of these issues in release 99 is important. It was noted.

Document S1-000227 contained a proposed CR to 22.011 on Network Selection in a neighbour country from Alcatel. The proposal is to solve the problem of roaming near HPLM (neighbour countries) by allowing a return to the HPLM with (what is stated as) a minor drawback to the ME battery consumption.

This is a problem that has dogged GSM for many years and the standardised solutions over the years have been far from satisfactory. It may well be better to use a more sophisticated solutions based perhaps on CAMEL and SAT in the future. This notwithstanding, this CR will need some fine tuning; for instance, the solution in this CR makes no distinction of a border region and the rest of the visited country.

The chairman asked for those with an interest to get together and discuss this subject to come up with an elegant solution. The owner of the problem was Jean-Paul Gallaire. The secretary asked for the GSM

Association to be consulted; in particular SCAG, TWG and SERG. Moreover, it was decided to have a specific list on the email expander.

		Action	Interested Parties	Owner	Status
08	01	Email expander to be set up to discuss network selection	Jean-Paul Gallaire	Michael Clayton	

Document S1-000270 contained an editorial CR to 22.101 R00 on Network selection procedures in section 16. The key is to remove the text on network selection and to refer to 22.011 instead. An equivalent CR to R'99 was provided in document S1-000271.

These CRs were approved subject to checking in the next two weeks. If nothing is heard, then they will be approved.

Document S1-000279 contained a CR to 22.011 on Reselection attempts of GPRS terminals from T-Mobil. The proposed modification gives clarification regarding reselection attempts of GPRS class A or class B terminals; i.e. the text includes class A and B but not class C and rather than adding class C, the change proposes to delete classes A and B.

It was asked if there is some text in 22.060 on reselection. If so, maybe a reference is required instead to 22.060 or any other appropriate specification. It would appear not to be covered in 22.060.

It was approved in principle, but that some checking off-line is required to see if the correct mode is identified and/or if a reference to elsewhere is required.

A revision was provided in document S1-000335. This will go on email approval for two weeks, but the default situation is approved.

6.4 VHE (22.121)

6.5 ALL IP

The following documents were dealt with in the All IP ad hoc.

S1-000193	LS on Open items identified by TSG CN All IP ad-hoc	3GPP-CN All	DP2
S1-000210	Response liaison statement on All IP Network Requirements	SBC	
S1-000235	Realisation of VHE in R00	Fujitsu Europe	DP3
S1-000281	Naming, Numbering and addressing for Third Generation Mobile	BT	DP3
S1-000282	Changes to Annex A of 22-976	BT	DP3
S1-000286	QoS Support	Motorola	DP3
S1-000288	Post Helsinki email discussion report	Motorola	DP4
S1-000289	Report on Handover and Roaming cyber meeting	Motorola	DP4
S1-000290	Work item description on IP multimedia services	Motorola	DP4
S1-000291	PS Domain feature list evaluation for release 2000 (Normative)	Telia	DP4
S1-000293	Comments on Annex A-TR 21.976 feature prioritization	SBC	DP4
S1-000294	Version 1.0.0 of 22.976 on All IP	Rapporteur	DP4
S1-000295	Feature list evaluation	Nokia	DP4
S1-000296	Recommendation for Prioritisation of Feature List	AT&T	DP4
S1-000297	Comments to annex A PS Domain feature list evaluation for	Orange	DP4
S1-000298	Feature list evaluation	Telenor	DP4
S1-000299	Updated Work Item description of Support of IP multimedia	Ad hoc	
S1-000300	GRAN handover requirements	AT&T	DP4
S1-000301	GRAN handover performance requirements	AT&T	DP4
S1-000302	Handover for ALL IP	Siemens	DP4
S1-000303	Roaming for ALL IP	Nokia	DP4

S1-000308	Comments and Proposals relating to the definitions Used in	BT	DP5
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The document S1-000332 contained a report from the R'00 ad hoc session during the SA1 #8 meeting.

Document S1-000288 contained a summary of the post Helsinki email discussion. The document lists all the comments which were included in the version 1 and, more importantly, those comments that were not.

The result was the version 1.0.0, which was sent and accepted by SA#7. This was provided in document S1-000294.

Document S1-000290 contained a proposed Work Item Description. It was noted that in section 1 that only the Core Network and Services are listed as a 3G work area. It was requested that this should include the Terminal as a work area. The answer is that this template has been provided by SA2 and generally can only be changed by them. However, we could comment to them and perhaps a liaison statement should be written to indicate this. This was dealt with in section 6.6.

A number of other comments were made and an updated WID was provided in S1-000299. It was passed to SA1 for approval. This was conditionally approved by the ad hoc and ratified by SA1. It will be sent to SA #8 for approval.

Document S1-000300 contained a proposal for handover and some tables that need to be added to the TR. Document S1-000301 contained some text for the performance requirements for handover.

There was a question regarding the handover delay. What is meant here is the interruption of service during a handover. Another comment was that this is for GERAN only and that the quality of service should not be radio access specific.

Another document on handover was provided in document S1-000302. This document approached the subject in a slightly different way. In addition, the Helsinki ad hoc document S1-000052 was taken. This document was not taken in the Helsinki meeting, but was deferred to the Cyber-meeting.

There was a great deal of discussion on handover. Essentially, there was some diversity of what GERAN actually was. It was decided to add a table to 22.976 to provide some guidance on what requirements shall be implemented in addition to that in TS 22.129 Release 99. The table took a great deal of time and there are still some controversial points in the table.

Document S1-000235 contained an input on section 6. It was agreed to be put into the updated version of 22.976. The proposal was accepted and will be incorporated into the new version of the TR.

Document S1-000281 contained text on numbering, naming and addressing. There was some concern that the term "Number Portability" has been removed and although it would appear to have been replaced by "name portability". It was suggested that the title of 8.6.2.2 should be changed to Number and Name Portability. This was agreed.

With this, it was decided to include the text into TR 22.976 with an editor's note that this needs to be reviewed.

Document S1-000286 contained an input on QoS in R'00. Some minor changes were made to the text, but in general it was decided to include the additions, but to maintain the old text. This will be reviewed in Las Vegas.

Following S1 documents were dealt and need not to be revised by the plenary: S1-000210, S1-000235, S1-000281, S1-000286, S1-000288, S1-000289, S1-000290, S1-000294, S1-000300, S1-000301 and S1-000302. Other topics related to R00 or TR 22.976 should be discussed during the plenary R00 agenda item. There was be additional session on Wednesday evening to look only at Annex A prioritisation.

Documents S1-000282, S1-000291, S1-000293, S1-000295, S1-000296, S1-000297 and S1-000298 were incorporated into the TR presented in document S1-000327.

One comment was that the document was originally designed for All IP. Later it was changed to release 2000, but does not capture the circuit switched requirements in same details as the IP multimedia services. Section

5.1 already introduce some CS services and any additions could be put there. An example was Global Text Telephony.

The report of the ad hoc and the TR in S1-000332 were approved.

Future Meetings

Ad hoc next R00 ad hoc will be held on Las Vegas on May 3.-5. The ad hoc chairman asked for the mandate to distribute the TR 22.976 to other groups and send it to SA #8 for approval. This mandate was given.

S2/CN has agreed to have joint meeting on R00 on May 10.-11 at Stockholm, S1 has been invited to present the it's status on R00 requirements (i.e. TR 22.976). If meeting agrees a formal invitation for joint S1/S2/CN will be sent out.

It was pointed out that the CAMEL ad hoc has been scheduled for exactly the same dates and it was asked if this was acceptable for the delegates. The meeting went on to say that a significant attendance to the joint meeting was not required as it was not understood that any changes to TR 22.976 will be made.

After significant discussion, the meeting agreed that the mandate for the S2/CN meeting for SA1 delegates is to present the TR 22.975 to SA2 and CN. The SA1 delegates were not given the mandate at the S2/CN meeting to make any changes; any comments from SA2 or CN requesting change are to be brought back to SA1 via the email approval process.

Document S1-000193 was not dealt with in the ad hoc and was presented to the plenary. It was understood that these comments were based on an old version and that SA2 will see a substantially changed TR in the joint ad hoc. It was noted.

Document S1-000303 was not dealt with, but Nokia indicated that it could be noted.

Document S1-000308 was postponed to Las Vegas R00 ad hoc.

6.6 New work items

S1-000190	Liaison statement on architectural approaches for R00 (S2-000318)	SA2	DP2
S1-000228	Proposed definitions of "Feature", "Building Block" and "Work Task"	MCC	DP2
S1-000229	Examples of Features, Building Blocks and Work Tasks	Siemens	DP2
S1-000230	Proposal for the Release 2000 Features, Building Blocks and Work Tasks v.0.9	TSG SA WG2	DP2
S1-000231	Work Item Description sheet for R'00	MCC	DP2
S1-000233	LS to T2,S1 Proposed new T3 work item on local link (T3-00 0121)	T3	DP3
S1-000259	Provisioning of IP-based multimedia services in UMTS	Siemens	DP3
S1-000260	WI Provisioning of IP-based multimedia services in UMTS	Siemens	DP3
S1-000278	WI for Support of Localised Service Area (SoLSA) in Release 2000	Nokia	DP3
S1-000287	Data volume monitoring in the PS domain	Nortel	DP4
S1-000354	WI on Bearer modification without pre-notification (from 183)	BT	
S1-000357	WI on VHE release 2000	Fujitsu	DP9

Document S1-000231 contained a proposed Work Item Description sheet for R'00. It was noted, but there was a comment that there appears to be no field to indicate an impact on the terminals. This will be commented back to the SA2 co-ordinator.

Document S1-000230 was noted. It was commented that the delegates in SA1 could act as the liaison between the contacts in document S1-000230 and SA1. Hence, if there is a delegate from the same company as the person indicated in document S1-000230. This caused some concern for a number of reasons. It was decided not to pursue this approach.

Document S1-000233 contained a proposed TSG-T WG3 work item for use of local link (RS232, Bluetooth, USB, Irda) as a bearer for USIM Application Toolkit. There was no objection to this although it was asked if this is in the scope of 3GPP, as this work item does not deal with cellular telecommunication standardisation. The document was noted.

Document S1-000259 was dealt with in release 2000 ad hoc. It was included in the revised work item description provided in document S1-000299 (see section 6.5).

Document S1-000260 was just provided for information and was noted.

Document S1-000278 contained a work item on SoLSA. There were a few comments that the description was a little vague. It was supported by Nokia and other delegates were requested to consider supporting it. However, from an SA1 point of view, it was noted and will not be presented to SA #8 as coming from SA1.

Document S1-000287 contained a proposed WI for data volume monitoring in the PS domain. It was asked if there is a service requirement for this. The answer is that there are some requirements, but the existing requirements refer to the core network rather than air interface. It was requested that the requirements be identified from our existing specifications. It was requested that the liaison statement be passed to RAN2

It was decided that a service requirement, if provided, should be passed to the email reflector for discussion.

Document S1-000354 contained a proposed WI on Bearer modification without pre-notification (from 183). The rapporteur was asked to identify if this was required, and there was some support. It was decided to have comments on the WI for two weeks. However, there were more than four companies supporting it and so the comments should relate to correcting the wording.

Document S1-000357 contained a proposed WI on VHE release 2000. There were three supporting companies and another is required. Comments were requested to improve the text and another supporting company needs to be found. It was noted that Siemens supported the concept of a WI on VHE, but not the text as it stands. The VHE ad hoc (31st May 2000) will elaborate the text. If enough supporting companies are found then it can be sent from the ad hoc to SA #8, but cannot be an SA1 input unless it can be approved on email.

6.6.1 Global Text Telephony

S1-000221	Global Text Telephony work item proposal	Ericsson	DP2
S1-000222	Global Text Telephony; Stage 1 service description	Ericsson	DP2
S1-000223	Global Text Telephony; Background and services	Ericsson	DP2
S1-000359	Global Text Telephony, changes to R00	Ericsson	

Document S1-000223 contained a presentation on Global Text Telephony to provide some background and services. It was reported that 6% of the population has limited use of voice telephony:

- ?? 5% are Hard - of - hearing -- need text or lip-reading
- ?? 2 per 1000 are Deaf - need text, signing or lip-reading
- ?? Many are deaf by age – need voice out – text in.
- ?? 1 per 1000 are Speech impaired - need text one way, voice in the other + visual contact
- ?? 1 per 10 000 are deaf-blind - need tactile and visual enlargement
- ?? + All of us need language amplification by text and video

Conclusion: there is a Clear need for text conversation services.

It would appear that some of the requirements are provided for in the existing standard. Therefore, the first task would be to see what work has been done and what is new. From our perspective, what we need to do in SA1 is to define the service requirements.

Document S1-000221 contained a WI proposal on Global Text Telephony work item proposal and document S1-000222 contained a draft stage 1 for Global Text Telephony.

On the work item, it was noted that primary responsibility is SA2 and, although SA1 is mentioned, it is not indicated that a stage 1 is required and that SA1 has primary responsibility for it.

It was asked if the work for release 2000 is to meet the requirements for the FCC. Whilst this is the case, the work should encompass more than that.

There are a number of proprietary systems about and it was asked how this proposal relates to any IPR. The policy of 3GPP is that, if a new service or feature is presented which is covered by IPR, then it should be declared prior to presentation. It was answered that there may be some IPR, but this could be checked. The chairman asked that an appropriate declaration is made to ETSI on behalf of the 3GPP. It was noted that there is no IPR on the fixed network solution for such a service.

M	AP	Action	Interested	Owner	Status
08	02	IPR declaration to be made on Global Text Telephony		Ericsson	

This was read out and IPR is non exclusive and revolves around reciprocity. A statement will be passed to ETSI.

Another point was the standardisation of a connector; this was a subject for discussion for the North American TTY standard for GSM and 3GPP. It was asked what the status of North America was on this. It was answered that there has been a meeting in the USA on this and, peripherally, it was understood that the Ericsson Mobile Telephony (EMT) approach has been supported. This was disputed.

It was commented that there should be an impact on the Core Network, Radio Access and USIM. This may need to be changed on the WI. As before, there could also be an impact on the terminals (a box for which is missing on the WI form).

A revision was provided in document S1-000337. It was decided to put this on email approval in conjunction with the work item being sent to SA2. Moreover T2 may also need to be consulted.

In the meantime, it was stated that from our perspective, the lead group should be SA1. It was commented that this discussion occurred in SA #7 and it was agreed that SA2 should lead. The chairman stated that he was not present during this discussion. Nonetheless, from our perspective, for the service description, we are the lead group.

Now, coming to the stage one in document S1-000222, it was decided that this document should be reviewed in the home companies and comments should be sent to Mr Hellstrom.

An email discussion list will be set up.

M	AP	Action	Interested	Owner	Status
08	03	Email expander to be set up to discuss Global Text Telephony	Gunnar Hellstrom	Michael Clayton	

Document S1-000359 was noted. It will be sent to the R'00 ad hoc in Las Vegas.

6.7 Location Services (22.071)

S1-000243	CR to 22.071 on Incorporation of value added location services	Rapporteur	DP3
S1-000292	Incorporation of value added location services requirements	SBC	DP5
S1-000333	Comments on the proposed CR xx to 22.071	Nokia	DP7
S1-000338	CR to 22.071 on Incorporation of value added location	Rapporteur	

It was noted that S1-000243 and S1-000292 are the same. The CR in the documents is being proposed to incorporate value added location services requirements (from GSM-NA service requirements document). Editorial enhancements are also provided as well as addition of support for Velocity parameter in position request response.

The CR is intended to be a seed to create the version 4.0.0; hence the version number needs to be changed in the CR. It was also suggested that the comments in document S1-000333 should also be included and just one CR presented to the R'99 to create the R'00 version.

One week is allowed for comments after which the rapporteur will issue the CRs to the email list for approval. The revised CR was provided in document S1-000338.

The documents were addressed later where the rapporteur indicated that both documents S1-000243 and S1-000333 would appear not to conflict. Both CRs were conditionally approved and a CR in some form will go to SA #8. Two weeks are permitted for comments after which a CR (or more) will go on approval; it is not anticipated that further comments will occur once the CR(s) are sent for approval.

6.8 SIM/USIM

S1-000234	LS to S1 on Application selection (T3-000136)	T3	DP3
S1-000326	CR to 22.101 on Clarification for USIM Application selection	France Telecom /Oberthur Card Systems	DP7

Document S1-000234 contained a liaison statement on Application selection from T3. As there is currently no service requirement on the "order" in which the applications shall be selected (e.g. default application first or last used application first) and, in the absence of an MMI specification, T3 would like to point out that this order will be up to the terminal manufacturers for Release 99. T3 asks S1 on guidance for the Release 2000.

To do this, a proposed CR to 22.101 on Clarification for USIM Application selection was presented in document S1-000326. There was some confusion as to whether this is R'99 or R'00. The liaison statement concerned R'00, but the CR is proposing this for R'99.

There is an impact on the USIM and so this does depend on a CR to the USIM specification. It was further commented that in San Diego, there was a request from T3 that was understood by SA1 to indicate that T3 were working on it. However, it would appear, T3 were asking for more guidance. So, the proposal is for R'99 and it is expected that T3 will accept a CR for R'99 which was promised by France Telecom /Oberthur Card Systems.

This was countered by the comment that T3 had agreed that no further changes will be made to 31.101.

It was proposed to send a liaison statement to T3 pointing out that we have a proposal although it is a little late. This was provided in document S1-000339.

On the CR, it was suggested that the input should be provided to contributors to provide a new input if required.

It was agreed that the CR in document S1-000326 will be sent to SA #8 for approval. In addition, document S1-000339 was approved and will be sent with the CR attached.

6.9 VHE (22.121)

S1-000311	LS: Questions on "MExE support of VHE User Profiles"	TSG T2 SWG1	DP6
S1-000318	VHE/OSA RELEASE 2000	ERICSSON AB	DP6

Document S1-000311 contained a liaison statement on the support of VHE user profiles using MExE. In it the work program for Release 2000 from the MExE group (TSG T2 SWG1) has been identified with the need for a better support of the VHE User Profile by MExE devices. This seems to be all the more important since OSA (Open Service Architecture) is already defining a Service Capability Feature for the retrieval of the User Profile, upon which services may be implemented.

The questions being asked of SA1 are:

?? May incoming and outgoing calls be handled by different profiles ? (e.g. a user might want to receive calls to his private profile, redirect terminating calls of his business profile while establishing outgoing calls over his leisure profile).

?? Is there a relationship - from the services point of view - of the VHE User Profile with the "Multiple Subscriber Profile" (MSP) feature which was defined in Release '99 ?

The document was noted. Clearly some work needs to be done and interestingly, document S1-000318 proposes an ad hoc. This was supported by the rapporteur who offered to host it in London.

It was asked if there is to be a work item for this. The answer is that this is required; the rapporteur will provide one. It was provided in document S1-000348 (see section 6.6).

6.10 Multimedia Messaging Service (22.140)

S1-000242	Streaming for MMS	France	DP3
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Document S1-000242 contained an input document on streaming for MMS. The MMS is intended to be a new service to overcome SMS-inherent limitations together with the integration of other messaging services. Messaging services based on streaming data transmission should therefore be considered too.

There was a great deal of support for this but this needs to be formalised in the form of a WI. In this instance, it would probably be better if T2 has responsibility for the WI and, therefore, should generate the WI. This will be communicated to T2 as well as S4.

The CR to create a release 2000 version of 22.140 was provided in document S1-000347. It was agreed to be sent to SA #8 for approval.

6.11 Emergency calls

S1-000257	Emergency Calls for R00	NTT DoCoMo	DP3
S1-000258	CR to 22.101 R00 on Emergency Call	NTT DoCoMo	DP3
S1-000323	LS on Emergency service for release 2000	Unknown	

Document S1-000257 contained a discussion document on Emergency Calls for R00. NTT DoCoMo is proposing the use of an emergency category to be included with the call setup. This is based on the proposal in document S1-000313 and document S1-000314 in section 5.7 only for release 2000. A CR to 22.101 for release 2000 on this subject was provided in S1-000258.

This attracted some support, but there was a need to evolve it slightly. The document number allocated was presented in document S1-000352. It was agreed to be presented to SA #8 for approval.

It was noted that care needs to be taken when this CR is presented to SA. The CR in document S1-000350 needs to be implemented before this CR to ensure that the text just included in R'99 is included in R'00 before the CR in S1-000352 and that the text does not conflict.

Document S1-000323 contained a liaison statement on to inform S2 that the emergency service must be available via PS domain for R'00 IP multimedia services. The point here is if the PS domain is being used for telephony then emergency services need to be supported. However, the idea of emergency data calls would appear to be appealing.

It was supported, but we do need to have a WI description for the topic. This could then be sent to SA2 and SA.

It was pointed out that in 22.976, annex C does state that regulatory requirements will be provided for and one of the examples is emergency service.

This caused some discussion as to if 22.976 is sufficient, in itself, as a work item or whether a WI is required for every feature in 22.976. There were conflicting views on this which revolve around how SA2 will manage release 2000; not least of which was if SA2 will write the WI or if SA1 needs to do it.

So, rather than send this LS, it was decided that emergency services for Release 2000 has a mandatory status with high priority. This should be put into 22.976 and be provided to SA2. (see section 6.5 and 22.976).

6.12 IMEI (22.016)

S1-000275	Proposal to modify IMEI format and CR to 22.016 R00	Nokia	DP3
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Document S1-000275 contained a proposal to increase the number of units covered under the same TAC and FAC. Given the strong reliance on the interoperability with legacy products, no change to IMEI length or structure is considered feasible. In contrast, the coding format of the Serial Number is proposed to be modified.

- ✍ Instead using BCD, a hexadecimal code format is proposed. It would offer a capacity of 16.7 Million units manufactured with one Type Approval Code.
- ✍ TAC would set a trigger for interpretation (Network would identify from which TAC number onwards a serial number would be interpreted as binary presentation)

This proposal will require modifications to network management system for both installed and new (GSM and 3G). But no modification to existing Rel '99 signalling is foreseen.

Change of coding is proposed for release 2000. However, change should be considered already for release 1999 in order to allow new IME coding in all 3G terminals.

Attached to the document was a CR to 22.016 for Release 2000.

There was some support for this, but it was important that both the Terminals Working Group (TWG) and Billing and Accounts Rapporteur Group (BARG) and Transfer and Account Data Interchange.

Another point is if this solution is a stop-gap, or is it sufficient for a long period of time. Moreover, how does this affect GSM 04.08 and 09.02 (or equivalents).

It was decided that is should be passed to the GSM Association (Anuraj Gambhir agreed to take it) and sent it to: SA5, SA3, CN1 and CN4 and T2.

It was decided to communicate this in a liaison statement that was provided in document S1-000353. The liaison statement did not appear to reflect the understanding of the meeting. Essentially, there was support in principle, but that the named parties need to check this.

It was decided to remove the second sentence. A revision was made on line and was provided in document S1-000370. It was approved.

6.13 SoLSA (22.043)

S1-000182	Liaison statement to R4 and R1 on SoLSA support on UTRAN (S2-000300) Copied to SA1	SA2	DP2
S1-000246	Response to LS on SoLSA support on UTRAN	R4	DP3

Document S1-000182 contained a liaison statement to R4 and R1 on SoLSA support on UTRAN (S2-000300) Copied to SA1 from SA2. Also document S1-000246 contained a response to LS on SoLSA support on UTRAN from R4.

The two first liaison statements are replies to our liaison statement to SA2 and RAN4. Both documents were noted.

However, a WI to complete the work was provided in document S1-000278 (see 6.6).

7 Release 2000 onwards

No input.

8 Any Other Business

8.1 3G Vocabulary (21.905)

S1-000203	LS on Vocabulary for 3GPP Specifications (N3-S1-00000101)	CN3	DP2
S1-000204	LS from S5 to S1 on "SA5 Contribution of Telecom	SA5	DP2
S1-000217	CR to 21.S1-000905 on new abbreviations	One2one	DP2
S1-000218	CR to 21.S1-000905 on new definitions	One2one	DP2
S1-000219	CR to 21.S1-000905 on new abbreviations and definitions	One2one	DP2
S1-000220	CR to 21.S1-000905 on editorial changes to the existing	One2one	DP2
S1-000225	LS on Terminology in 3GPP specifications. Comments to 3G	CN3	DP2
S1-000306	Release 2000 Definitions (S2-000544)	SA2	DP5
S1-000308	Comments and Proposals relating to the definitions Used in	BT	DP5

Document S1-000220 contained an editorial CR to 21.905 generally to clean up the report. This was revised and provided in document S1-000369 which was agreed to be sent to SA #8 for approval.

Definitions and abbreviations included in documents S1-000203 and S1-000204 have already been added to the CR's S1-000217 (new abbreviations) and S1-000218 (new definitions). It has been checked for consistency, overlapping and conflicts in the definitions and everything was in order.

There were some doubts about S1-000219 which contains definitions and abbreviations discussed during the last S1 R2k ad hoc, thus I decided to present a separate CR. On document S1-000219 it was commented that there are some contradictions between TR 21.905 and 22.976. The definitions of concern will be removed from TR 21.905. A revision of document S1-000219 is required.

A further document S1-000306, was reviewed. It would appear that this could cause some problems and relates to Release 2000. This prompted the question of if a release 1999 version and a release 2000 version is required. It was agreed that this should be the case.

Document S1-000225 was received during the meeting and has not yet been included by the editor in proposed CRs.

It was decided to have a composite of S1-000217, S1-000218 and S1-000219 for release 1999. Document S1-000369 was allocated for this and it will be seen at email approval.

9 Administration

10 Approval of Outputs and Liaisons

Change Requests

Doc. No.	Title	Result	New doc
247	CR to 22.078 on corrections to the reduced scope of CAMEL Phase 3 in R'99: Deletion of MeXE/SAT free format data annex A1	Agreed CR number 038	Out
251	CR to 22.078 on correction to description of subscriber dialled services	Agreed CR number 039	Out
252	Clarification for conditional triggering for subscriber dialled services	Agreed CR number 040	Out
261	CR to R97 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out
262	CR to R98 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out

263	CR to P2 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out
264	CR to R00 22.016 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out
265	CR to R96 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out
266	CR to R99 02.16 on Modification of section 2 to delete unnecessary information about phases and releases removed	Agreed	Out
267	CR to 22.121 on Modification of section 10.2.6 on reducing the scope of the VHE/OSA requirements	Agreed	Out
270	CR to 22.101 R00 on Network selection procedures removed from section 16, reference to 22.011 added	Conditionally agreed, if nothing is heard in 2 weeks, then they are approved	Out
271	CR to 22.101 R99 on Network selection procedures removed from section 16, reference to 22.011 added	Conditionally agreed, if nothing is heard in 2 weeks, then they are approved	Out
274	CR to 22.002 R99 on Lower User Rates in UMTS for Circuit Switched Data Services	Agreed to be sent to SA#8 for approval	Out
283	CR to 22.121 on Removal of section 10.2.3 Address Translation SCF	Agreed to be sent to SA #8 for approval	Out
285	CR to 22.121 on Modification of section 10.2.9 to reduce scope of User Profile Management service capabilities	Agreed to be sent to SA #8 for approval	Out
324	CR to 02.43 R98 on Clarification of requirements and editorial changes (from 276)	Agreed to be sent to SA #8 for approval	Out
325	CR to 22.043 R00 on Clarification of requirements and editorial changes. (from 277)	Agreed to be sent to SA #8 for approval	Out
347	CR to 22.140 on Streaming for MMS (from 242)	Agreed to be sent to SA #8 for approval	Out
348	CR to 22.135 on Alignment of handover requirements for Multicall (from 212)	Agreed to be sent to SA #8 for approval	Out
349	CR to 22.129 on Alignment of handover requirements for Multicall (from 212)	Agreed to be sent to SA #8 for approval	Out
350	CR to 22.101 on Emergency calls R'99 (from 315)	Agreed to be sent to SA #8 for approval	Out
351	CR to 22.101 on Emergency calls R'00 (from 315)	Agreed to be sent to SA #8 for approval	Out
352	CR to 22.101 on Emergency calls R'00 (from 258)	Agreed to be sent to SA #8 for approval	Out
362	CR to 22.101 on CS multimedia support (from 330)	Agreed to be sent to SA #8 for approval	Out
364	CR to 22.105 on Delays and QoS (from 355)	Agreed to be sent to SA #8 for approval	Out
367	CR to 22.121 on Modification of section 10.2.6 on reducing the scope of the VHE/OSA requirements	Agreed to be sent to SA #8 for approval	Out

Specs

Doc No	Title	To

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List of issues dealt with in meeting but referred to Email

Doc No	Title	Source	To
270	CR to 22.101 R00 on Network selection procedures removed from section 16, reference to 22.011 added	Nokia	SA#8, Email
271	CR to 22.101 R99 on Network selection procedures removed from section 16, reference to 22.011 added	Nokia	SA#8, Email
335	CR to 22.011 on Reselection attempts of GPRS terminals	T-Mobil	Email
337	Global Text Telephony work item proposal (from 221)	Ericsson	Email
338	CR to 22.071 on Incorporation of value added location services requirements (from GSM-NA service requirements document) (from 292 and 333)	PBW	Email
340	CR to 22.060 R'99 to delete of the octect stream service (IHOSS)	Lucent	Email
341	Reserved for CR to 22.060	Lucent	Email
342	Reserved for CR to 22.060	Lucent	Email
343	Reserved for CR to 22.060	Lucent	Email
344	Reserved for CR to 22.060	Lucent	Email
345	LS to TSG-S2, TSG-N3 on Deletion of PDP types X.25 and OSP	Lucent	Email
354	WI on Bearer modification without pre-notification (from 183)	BT	SA#8, Email
360	CR to 22.082 on Support for long-forwarded to numbers (from 328)	Vodafone	Email
361	CR to 22.079 on Support for long-forwarded to numbers (from 329)	Vodafone	Email
365	CR to 22.060 on Registration procedures for R'99	Lucent	Email
366	CR to 22.060 on Registration procedures for R'00	Lucent	Email

List of issues NOT dealt with in meeting and referred to Email

Doc No	Title	To

Ad Hocs

Doc No	Title	To

Approved Liaison statements

Doc No	Title	To	Copy
245	LS to N1, T2 and T3 regarding the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list	N1 T2 T3, SMG9	
273	Proposed LS to CN, CN2 and SA2 on CAMEL Phase 4 functions to be included in Release 2000	CN, CN2 and SA2	
304	LS S2 and S5 on Charging and billing	SA5, SA2	CN2
320	Proposed Liaison statement on Adaptation of terminology	TSG SA WG2, TSG CN WG1, SMG2	TSG SA

322	Reply to S2 LS on Call/Session Priorities	To be made available from ad hoc	
339	LS to T3 on Application selection (from 236)	T3	
363	Liaison statement on Global "Cause of no ID"	CN1, CN4	
368	LS on PLMN selection	3GPP CN1, RAN2, ETSI SMG2	3GPP SA
370	LS on proposal to modify IMEI format and CR to 22.016 R00	SA5, CN1, CN4, RAN2, RAN3, GSMA	SA2
371	LS to S2 on Modification to align S2 work to S1 (from 356)	SA2, N5	

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.

R00 ad hoc	3-5. May 2000	Las Vegas
CAMEL ad hoc	10-11, May 2000	Sophia Antipolis
VHE ad hoc	31. May 2000	London
CAMEL drafting	4-6. July 2000	
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 hosts, Nokia China, China Mobile Communications Corporation, China Wireless Telecommunications Standard group and Huawei for all the facilities at the meeting.

ANNEX A – Table of documents

Doc. No.	Title	Source	Doc Pack
157	LS answer to LS TSGS5#7(99)267: Comments on 22.115 Charging & Billing Service Aspects (see 171)	TIM	DP1
158	CR to 22.078 on Correction of Announcement capabilities	Alcatel	DP1
159	CR to 22.078 on Correction of GPRS session description	Alcatel	DP1
160	Spec 21.905 Vocabulary proposed version for approval	SA1 Email	DP1
161	CR to 22.011 on Network Selection (from 93, 106)	SA1 Email	DP1
162	CR to 22.003 on Addition of Wideband AMR.	SA1 Email	DP1
163	LS for emergency calls (withdrawn)	SA1 Email	
164	CR to 22.101 on Emergency call (withdrawn)	SA1 Email	
165	CR to 22.115 incorporating S5 comments (revised to 171/00)	SA1 Email	
166	CR to 22.030 (based 135)	SA1 Email	DP1
167	Change request on 22.078 (Release 99) "Re-alignment of 22.078 for due to limited scope of CAMEL Phase 3"	SA1 Email	DP1
168	CR to Multicall TS22.135 (from email approval based on 131/00)	SA1 Email	DP1
169	LS for emergency calls (101, 163)	SA1 Email	DP1
170	CR to 22.101 on Emergency call (Based on 101, 164)	SA1 Email	DP1
171	CR to 22.115 incorporating S5 comments (revised from 165/00)	SA1 Email	DP1
172	CR to 22.030 on multicall.	SA1 Email	DP1
173	Draft Agenda for meeting #8	MCC	DP4
174	Updated report of last meeting	MCC et al	DP4
175	Summary of email approval	MCC	DP4
176	Report of SA#7	MCC	DP4
177	Approved report of last meeting (????)	SA1	
178	Not used		
179	Not used		
180	LS on Deletion of PDP type X.25 (S2-000174)	SA2	DP2
181	Response to the Liaison Statement on clarification of necessity of registration (S2-000298)	SA2	DP2
182	Liaison statement to R4 and R1 on SoLSA support on UTRAN (S2-000300) Copied to SA1	SA2	DP2
183	Reply to: Liaison statement on Bearer Modification Without Pre-Notification (S2-000301)	SA2	DP2
184	3G to 2G Handover (S2-000303)	SA2	DP2
185	Draft Reply to EP TIPHON WG 5 on Liaison on TIPHON Quality of Service (S2-000307) Copied to SA1	SA2	DP2
186	Response to LS to T2 on VHE/OSA Service Capabilities Features and MMS (S2-000312) Copied to SA1	SA2	DP2
187	Answer to Liaison Statement on the Prioritisation of VHE Service Capability Features (S2-000313)	SA2	DP2
188	Liaison statement to N1 concerning the change of title of 23.060 (S2-000314) Copied to SA1	SA2	DP2
189	LS to N1 on Maximum size of N-PDU (S2-000315) Copied to SA1	SA2	DP2
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191	LS response on; CDR creation for non-charging liable subscriptions (S2-000321)	SA2	DP2
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200	LS on Push service (N3-00092)	CN3	DP2
201	LS on Deletion of X.25 and Work Item of Interworking with ISDN / PSTN (N3-00093)	CN3	DP2
202	LS on Clarification of necessity of registration Interworking profile for activation on PS domain" in response to S1-991068 and S2-000298 (N3-00095) (see also SA1-181)	CN3	DP2
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204	LS from S5 to S1 on "SA5 Contribution of Telecom Management Definitions and abbreviations to draft TR 21.905 (3GPP Vocabulary)" (S5-000162)	SA5	DP2
205	Response on Liaison statement concerning the change of title of 23.060 (N1-000452) copied to SA1	CN1	DP2
206	Liaison statement on the status of Multicall (N1-000481) copied to SA1	CN1	DP2
207	Comments on MMS latest draft - 3G TS 23.140 V1.3.1	Sony	DP2
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209	LS on RAN3 decisions related to CBS (r3-000840) copied to SA1	Iu-SWG (RAN3)	DP2
210	Response liaison statement on All IP Network Requirements	SBC	
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ANNEX B – Participants list

DELEGATE	COMPANY	Attend	TELEPHONE	FAX	E-MAIL
Dr Wayne Ashwell	BT	X	+44 1473 227171	+44 1473 227884	wayne.ashwell@bt.com
Dr. Kwang Sik Kim	ETRI	X	+82 42 860 4914	+82 42 860 6500	kskims@etri.re.kr
Dr. Stephan Kleier	MANNESMANN Mobilfunk GmbH	X	+49 211 533 3807	+49 211 533 2804	stephan.kleier@d2mannesmann.de
Erik Aslaksen	Telenor	X	+47 906 72 136	+47 910 05 787	erik.aslaksen@telenor.com
J. Merkel	Alcatel	X			
Mr B. Sundresh	Motorola	X	+44 1 256 790 790	+44 1 256 790190	B.Sundresh@Motorola.com
Mr Emanuele Montegrosso	Telecom Italia Mobile	X	+390639004671	+490639004699	Emontegrosso@mail.tim.it
Mr Jeremy Fuller	Nortel Networks	X	+44 1628 434679	+44 1628 434034	jfuller@nortelnetworks.com
Mr Li Haitian	ZTE Corporation	X	+86 755 5739 300 2537	+86 755 5739 300 2011	li.haitian@mail.zhongxing.com
Mr Manfred Leitgeb	Siemens	X			
Mr Matsushita Mashiro	DoCoMo Europe S.A.	X	+33 1 5688 3030	+33 1 5688 3045	Matsushita@docomo.fr
Mr Michio Kudo	DDI Corporation	X	+81 3 3221 9682	+81 3 3221 9694	Kudo@ddi.co.jp
Mr Olivier Tessier	Oberthur Card Systems	X	+33153625135	+33153625107	o.tessier@oberthurcs.com
Mr Paul Vincent	ALCATEL	X	+33 1 55 66 34 35	+33 1 55 66 44 50	Paul.vincent@alcatel.fr
Mr Stephane SAADA	ALCATEL	X	+33 1 30 77 92 65	+33 1 30 77 95 99	Stephane.saada@alcatel.fr
Mr Tommi Kokkola	Nokia	X	+358 4050 40734	+358 9511 68080	tommi.kokkola@nokia.com
Mr Zemichi Yashiro	Fujitsu Ltd	X	+81 44 754 4180	+81 44 754 4148	Zyashiro@ss.ts.fujitsu.co.jp
Mr Zhun Ning	ZTE Corporation	X	+86 755 5739 300 2212	+86 755 5739 300 2011	zhan.ning@mail.zhongxing.com
Mr. Alan Chau	NOKIA UK Ltd	X	+44 1253 865 232	+44 1252 865 065	alan.chau@nokia.com
Mr. Anuraj Gambhir	GSM Association	X	+44 207 659 0430	+44 207 659 0431	agambhir@gsm.org
Mr. Chen Xiuting	Huawei technologies Co.,Ltd.	X	+86-755-6532367	+86-755-6532357	Chenxt@huawei.com.cn
Mr. Christian Braden	Deutsche Telekom MobilNet	X	+49 228 936 3365	+49 228 936 1219	christian.braden@t-mobil.de
Mr. David Barnes	DTI	X	+44 1634 570 244	+44 1634 572 360	dbarnes3@compuserve.com
Mr. Donglin Shen	AT&T	X	+1-425 580-7614	+1-425 580-6880	Donglin.shen@attws.com
Mr. Eckhard Meissner	SIEMENS AG	X	+49 89 722 44858	+49 89 722 45580	eckhard.meissner@mch.siemens.de
Mr. Jean Paul Gallaire	France Telecom	X	+33 1 45 294 732	+33 1 4529 6978	jeanpaul.gallaire@rd.francetelecom.fr
Mr. John Christensen	TELE DANMARK A/S	X	+45 43 58 65 95	+45 43 71 04 71	jhnc@tdk.dk
Mr. Jörg Swetina	SIEMENS AG	X	+43 676 491 2429	+43 676 491 3008	joerg.swetina@siemens.at
Mr. Katsuya Kawamura	NTT DoCoMo	X	+81 3 5156 1786	+81 3 5156 0250	kawamuraka@nttdocomo.co.jp
Mr. Li Wenguang	Huawei technologies Co.,Ltd.	X	+86-21-68810115- 3166		Lwg@huawei.com.cn
Mr. Lu Yifeng	Huawei technologies Co.,Ltd.	X	+86-755-6532061	+86-755-6532357	Luyifeng@sz.huawei.com.cn
Mr. Mark Cataldo	MOTOROLA Ltd	X	+44 1793 566 297	+44 1793 566 225	mcatald1@email.mot.com
Mr. Michele Zarri	One 2 One Personal Comm. Ltd	X	+44 20 8 214 4169	+44 20 8 905 1671	michele.zarri@one2one.co.uk
Mr. Nick Sampson	ORANGE PCS LTD	X	+44 1454 206436	+44 79 73 987883	nick.sampson@orange.co.uk
Mr. Olle Eriksson	ERICSSON L.M.	X	+46 8 757 0088	+46 8 404 8040	olle.eriksson@era.ericsson.se
Mr. Paul Carpenter	Lucent Technologies N. S. UK	X	+44 1793 883 818	+44 1793 883 815	pcarpenter@lucent.com
Mr. Randolph Wohler	Pacific Bell Wireless	X	+1 512 372 5838	+1 512 372 5891	rwohler@tri.sbc.com
Mr. Roch Glitho	ERICSSON L.M.	X	+514 345 7900	+514 345 6105	lmcrogl@lmc.ericsson.se
Mr. Seppo Tiainen	SONERA Corporation	X	+358 2040 3673	+358 2040 3873	seppo.tiainen@sonera.fi
Mr. Takashi Kitsui	NTT DoCoMo	X	+81 3 5156 1786	+81 3 5156 0250	kitsui@nttdocomo.co.jp

3GPP_TSG_SA_WG1 Meeting #8, Beijing, China 8th – 14th March 2000

Mr. Tomas Ahnberg	TELIA AB	X	+46 40 105 179	+46 40 307 029	tomas.p.ahnberg@telia.se
Mr. Toshihiro Shimizu	Matsushita Communication	X	+44 16 35 871 466	+44 16 35 871 345	toshi.shimizu@mci.co.uk
Mr. Willy Verbestel	Motorola	X	+1 847 632 4574	+1 847 632 6999	P2645@email.mot.com
Mr. Yong-Seouk, Choi	ETRI	X	+82 42 860 5677	+82 42 860 6500	choiys@etri.re.kr
Mr. Zhang Xinyu	Huawei technologies Co.,Ltd.	X	+86-755-7532370	+86-755-6532357	Xyzhang@huawei.com.cn
Mr. Zhao Jian	Huawei technologies Co.,Ltd.	X	+86 10 8288 2379	+86 10 8288 2439	zhaojian@sz.huawei.com.cn
Mr. Zhou Jun	Huawei technologies Co.,Ltd.	X	+86-21-68810115- 3032		Zhjun@huawei.com.cn
Mrs. Annukka Toivanen	NOKIA Corporation	X	+358 10 505 2523	+358 10 505 2525	annukka.toivanen@nokia.com
Ms. Anita Olsson	TELIA AB	X	+46 70 639 8591	+46 70 611 8591	anita.e.olsson@telia.se
Ms. Hanping Huang	Huawei technologies Co.,Ltd.	X	+86-755-6532483	+86-755-6532357	Huanghanping@huawei.com.cn
Ms. Jingyu Wang	Datang Corp.	X	+86-10-62302112	+86-10-62302311	Wangjy@catt.ac.cn
Ms. Jumoke Ogunbekun	FUJITSU Europe Telecom	X	+44 181 606 4671	+44 181 573 3602	j.ogunbekun@fujitsu.co.uk
Ms. Magdalena Akke	ERICSSON L.M.	X	+46 46 232 488	+46 46 193 136	magdalena.akke@ecs.ericsson.se
Ms. Stephanie Manning	VODAFONE AirTouch Plc	X	+44 1635 672475	+44 1635 31127	stephanie.manning@vodafone.co.uk
Ms. Wei Wang	Ericsson China	X	+86 10 138 010 89445		victoria.wang@etc.ericsson.se
Ms.Ningxia Xing	China Mobile	X	+86-10-63604933	+86-10-63604879	Xingnx@sina.com

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