



3rd Generation Partnership Project

REPORT Version 1

TSG_SA_WG1#9 Plenary Meeting

Taastrup, Denmark
18th to 21st July 2000

TSG_SA_WG1 Chairman: Alan Cox
Secretary: Michael Clayton

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DRAFT MEETING REPORTVersion: 1.0, 3rd August 2000**1 Opening of the Meeting**

The TSG_SA_WG1#9 Plenary Meeting was held in Taastrup, Denmark from the 18th to 21st July 2000. It was chaired by Mr Alan Cox (Vodafone) and the secretary was Mr Michael Clayton from the MCC. The host was Telecom Denmark.

2 Adoption of Agenda

| Document Number | Title | Source |
|-----------------|---------------------------|--------|
| 373 | Agenda for SA1 meeting #9 | MCC |

Document S1-000373 contained the draft agenda for SA1 meeting #9. It was approved without comment.

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

| Document Number | Title | Source |
|-----------------|----------------------------------|-----------|
| 372 | Report of SA1 meeting #8 | MCC |
| 382 | Updated report of SA1 meeting #8 | MCC et al |

Document S1-000372 contained the report of TSG S1 with comments. It was approved with the changes accepted. The update version was provided in document S1-000382.

3.2 Email Approval

Document S1-000375 contained a summary of S1 Email agreements reached before the meeting. It was noted.

The following documents were noted as they were provided after the previous SA1 meeting for agreement over email and were submitted to SA#8 for approval.

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------------------------|---------------------|
| 340 | CR to 22.060 R'98 to delete of the octet stream service (IHOSS) | Lucent |
| 341 | CR to 22.060 R'99 to delete of the octet stream service (IHOSS) | Lucent |
| 342 | CR to 22.060 R'00 to delete of the octet stream service (IHOSS) | Lucent |
| 343 | CR to 22.060 R'99 to delete support for X.25 | Lucent |
| 344 | CR to 22.060 R'00 to delete support for X.25 | Lucent |
| 365 | CR to 22.060 on Registration procedures for R'99 | Lucent |
| 366 | CR to 22.060 on Registration procedures for R'00 | Lucent |
| 375 | Email summary | MCC |
| 390 | CR to 22.078 R99 on Removal of Editor's notes and corrections to Annex 1 | Lucent Technologies |
| 395 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services rev3 | Vodafone AirTouch |
| 396 | CR to 22.078 R99 on Removal of question marks from the A.1 information flow table | Nokia |

| | | |
|-----|------------------------------------------------------------------------------------------|-------------------|
| 402 | CR to 22.078 R99 on Definition of Geodetic Information Rev 2 | Vodafone Airtouch |
| 403 | CR to 22.078 R99 on Distinction between initial and subsequent service events rev 1 | Vodafone Airtouch |
| 404 | CR to 22.078 R99 on Update of CAMEL roaming issues (section 16) rev 1 | Nokia |
| 415 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS re3 | Nokia |
| 424 | R99 alignment to stage 2 | T2 |
| 429 | Originator-to-Dispatcher Information for VGCS and VBS | STF 139 |
| 430 | Introduction of Originator-to-dispatcher information into VGCS | STF 139 |
| 431 | Introduction of Originator-to-dispatcher information into VBS | STF 139 |
| 432 | Deletion of note | MCC |
| 434 | North American Service Provider Number Portability impacts for Mobile Number Portability | CN4 |
| 441 | IMEI coding | Nokia |
| 442 | Access dependent services | Nokia |
| 443 | Cause for no CLI | Nokia |
| 445 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS | Ericsson |

The documents were presented for information at SA1 #9 and were noted.

4 Reports from other groups

4.1 SA #8

| Document Number | Title | Source |
|-----------------|-------------------------------------------------------------------------------|--------|
| 374 | Report of SA meeting #8 | |
| 433 | Liaison statement on Global solution of "Cause of no CLI" | CN1 |
| 444 | LS back on Global solution of "Cause of no CLI" | N4 |
| 533 | CRs to Services & Service capabilities (22.105) | SA #8 |
| 550 | Report of SA meeting #8 | MCC |
| 559 | LS on issues and concerns associated with providing call control applications | SA #8 |
| 611 | LS on issues and concerns associated with providing call control applications | Nortel |

The report of the SA#8 was provided in document S1-000374.

Document S1-000433 contained a liaison statement from CN1 together with a CR to 24.008. At the last SA1 a liaison statement was sent to CN1 and CN4 in document S1-000363. CN1 sent a reply in document S1-000433 and CN4 sent a reply in document S1-000444. Both indicated that appropriate CRs would be presented at CN #8 to accompany the CR provided by SA1 in document S1-000443, that was approved by email. Since both of these were approved at SA#8 both documents were noted.

Document S1-000533 contained a revision of CR 22.105-024 which was presented and approved in document S1-000364. It is provided purely for information.

A comment was received that the report indicates that the TR 22.976 was not approved but needed more work. This is an extract of the SA#8 report and is incorrect; no further work is to be done to the TR. A correction was made and it was released as S1-000550.

On PLMN selection, it was asked what is the situation for PLMN selection. The CR presented to SA#8 was not approved, and it was stated that the selection procedure is the same as that for R98 for GSM. However, it was noted that there are some other changes on network selection that have been approved by SA in an earlier

meeting for operator lists and it was asked if this is to be removed for R99. It was stated that the other groups had not implemented the earlier requirements of SA1. This was countered with the statement that the other groups had done the work.

This needs to be clarified.

It was asked if SoLSA is still in the workplan. It was understood that it this work item is still in the workplan and it should be removed. Michael took the action to check that this has been removed.

Document S1-000559 contained a liaison statement from SA where there were some concerns regarding the implementation of a mobile in, for example, a PDA and leave the radio interface in a separate box. With the popularity of the PDAs, the examples of this will become an issue.

There are some security aspects related to this, which were presented in the SA1 R00 ad hoc document S1-000578 and S1-000577. In it, Nortel Network's believes that a combination of appropriate firewalls, policing functions and a peer-to-peer security association between the Multimedia client and the IM CN subsystem, will provide the best solution in terms of fraud prevention. This approach will also open up the possibility of hosting multimedia sessions on a range of devices.

The reply to T2 was provided in S1-000611. It was approved and will be sent.

4.2 ETSI SMG #32

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------------|---------|
| 429 | Originator-to-Dispatcher Information for VGCS and VBS | STF 139 |
| 430 | Introduction of Originator-to-dispatcher information into VGCS | STF 139 |
| 431 | Introduction of Originator-to-dispatcher information into VBS | STF 139 |

Document S1-000429 contained an input document on a new requirement for R'00 for the ASCI services Voice Group Call and Voice Broadcast services. For VGCS and VBS applications it is necessary to transport information from the originating subscriber to the dispatchers of the call: The railways applications request the functional number of the originator to be presented. This information - called **Originator-to-Dispatcher Information**, should be presented to the dispatchers as UUS1 when alerting. The CRs to implement this were provided in documents S1-000430 and S1-000431. All these documents were provided to the email list and were agreed. They have subsequently been approved by SMG32. They were presented for information and were noted. It was noted that the ASCI services apply to GSM only, and are not applicable to UMTS.

The chairman indicated that a report of SMG1 was put into SMG32, and this was based on the SA1 status report to SA#9.

SMG32 is now closed and will be replaced by MSG. The chairman of S1 is the convenor of this group and he indicated that he will relinquish chairmanship to the person elected at the next meeting of MSG. It is outside the scope of 3GPP.

5 Liaisons from other groups

5.1 SA2

Input from SA2 was dealt with in the appropriate section.

5.2 SA3

Input from SA3 was dealt with in the appropriate section.

5.3 RAN2

| Document | Title | Source |
|----------|-------|--------|
|----------|-------|--------|

| Number | | |
|--------|----------------------------------------------------------------------------------------------------------------------|------|
| 377 | Response to LS (S1-000103) on UE/MS idle mode operation (R2-000945) | RAN2 |
| 448 | Response to LS (R2-000945), LS TSG S1 (00) 103 on UE/MS idle mode operation and LS TSG S1 (00) 368 on PLMN selection | N1 |
| 470 | LS on interworking of low chiprate TDD with GSM, high chiprate TDD and FDD | RAN |

Back in February, SA1 send a liaison statement to 3GPP CN1, RAN2, ETSI SMG2 (copy to 3GPP SA, SA2, CN, RAN, RAN1, RAN4, ETSI SMG) on UE/MS idle mode operation S1-000103. In it, SA1 sent a detailed response to a question from SMG2.

Documents S1-000377 and S1-000448 contained replies from RAN2 and CN1. Both these documents were noted.

Document S1-000470 contained a liaison statement on interworking of low chiprate TDD with GSM, high chiprate TDD and FDD. A reference to UTRAN should cover this and so it was understood that no changes to our specifications are required. Rapporteurs were requested to check their specifications to identify if any changes are required. In the meantime the document was noted.

5.4 RAN3

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------------------------------------------------|--------|
| 376 | Answer to LS on Call/Session Priorities in a Multicall Scenario (R3-001165) Copied to SA1 | RAN3 |
| 380 | Response to LS (S2-000584) on Call/Session Priorities in a Multicall Scenario (R2-000909) Copied to SA1 | RAN2 |

Documents S1-000376 and S1-000380 contained response liaison statements from RAN2 and RAN3 to a liaison statement from SA2 (S2-000584). The SA2 liaison statement was apparently not sent to SA1, but the responses from RAN2 and RAN3 were.

Both documents were noted.

5.5 CN3

| Document | Title | Source |
|----------|------------------------------------------------------------------------------|------------|
| 440 | LS on Service Modification without pre-notification | N3 |
| 503 | Reply to: Liaison statement on Service Modification without Pre-Notification | NTT DoCoMo |

Document S1-000440 contained a liaison statement from CN3 on bearer modification without pre-notification. For some time, S1 and CN3 have exchanged many LS on bearer modification without pre-notification. During their last meeting in parallel in April, S1 and CN3 have approved WI on Bearer modification without pre-notification .

S1's WI covers the requirements of the following functions:

- 1 Modification between speech and fax
- 2 Modification between speech and modem
- 3 Fallback multimedia to speech (Fallback is the modification at the call set phase)
- 4 Modification between speech and 3.1kHz/UDI multimedia
- 5 Modification because of radio conditions (i.e. handover)

CN3's WIs cover (1), (2), (3) and (4);

?? CN3's WI "Service Modification without pre-notification" covers the provision of (1), (2) and modification between speech and 3.1kHz multimedia, which is part of (3) and (4).

?? CN3's WI "Service modification without pre-notification using BICC" covers the provision of modification between speech and UDI multimedia. It also covers modification between speech and 3.1kHz multimedia, i.e. it covers (3) and (4).

In order to satisfy S1's requirements, CN3 has approved the new above mentioned WI because modification between speech and UDI multimedia can not be provided in an ISDN environment.

CN3's WIs does not cover the provision of (5) because CN3 is not the expert on radio aspects, i.e. radio conditions as CN3 believes SA2 has main responsibility for the provision of (5).

A proposed response to SA2 was provided in document S1-000503. It was approved with a minor editorial change.

5.6 T2

| Document Number | Title | Source |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 421 | Guidance on future work for T2 SWG5, Multi-mode terminals | T2 |
| 425 | T2 comments on RAN3 decisions related to CBS (T2-000254) | T2 |
| 426 | LS on Proposed TSG-T WG3 work item for use of local link (RS232, Bluetooth, USB, Irda) as a bearer for USIM Application Toolkit (T2-000335) copy SA1 | T2 |
| 435 | Proposed reply to LS on Guidance on future work for T2 SWG5, Multi-mode terminals (Copied to SA1) (2-001128) | SMG2 |
| 438 | Answer to LS on Guidance on future work for T2 SWG5, Multi-mode terminals (S2-001047) copied to SA1 | S2 |
| 555 | Report on discussions for multimode terminals (421) | SA1 |
| 556 | LS on multimode terminals (421) | SA1 |

Document S1-000421 contained a liaison statement from T2 on the future work for T2 SWG5, Multi-mode terminals. T2 have given some areas that could be worked upon, and are asking SA1 to comment on their list and to comment back before the next T2 meeting in Galway, Ireland, 28 August – 1 September.

The same liaison statement was provided to SA2 and SMG2. A response from SA2 was provided in document S1-000438 and SMG2 responded in document S1-000435. It was noted that there was no contact on the either liaison statement and so no-one could be contacted for comment.

However, SMG2 are insisting that most of the work is done in the radio group, as are SA2.

It was commented that the level of detail is not quite deep enough to allow us the make any significant comment. It was decided to have an ad hoc during this meeting to review the issue. This was convened by Thomas Ahnberg. A return liaison statement was provided in document S1-000556. S1-000556 was sent to email approval.

Document number S1-000555 was allocated to the report of the work, but this was not generated.

Document S1-000425 contained some T2 comments on RAN3 decisions related to CBS. It was copied to SA1 and was noted.

Document S1-000426 contained a liaison statement from T2 to T3 on work item for use of local link (RS232, Bluetooth, USB, Irda) as a bearer for USIM Application Toolkit (T2-000335). Essentially, T3 have proposed a work item on the use of a local link as a bearer for USAT. T2 have noted this WI and are asking for secondary responsibility for this work item, if it is agreed, to review any impacts on the part of the ME caused by the SIM/ME interface, as T2 is responsible for the ME overall.

The document was noted for the time being.

5.7 T3

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------|--------------|
| 451 | LS on Storage of URL bookmarks on the UICC/USIM | T3 |
| 452 | LS on Security issues with ME user input and DTMF tones | T3 |
| 557 | LS to T3 on Storage of URL bookmarks on the UICC/USIM | Mark Cotaldo |
| 558 | LS on Security issues with ME user input and DTMF tones | SA1 |

Document S1-000451 contained a liaison statement from T3 on the ability to store URL bookmarks on the UICC/USIM. T3 has examined a proposal to standardise the storage of URL bookmarks on the UICC/USIM and is inviting S1 to comment on that proposal, on the service requirements concerning this feature, and on the possible linked Work Item. It is the intention of T3 to draft a Work Item on that topic at their next meeting.

Whilst this is a good idea, some work needs to be done to 'put some meat on the bones'. Service requirements are required not least to identify how to read the URLs stored there.

It was commented that this could well be put in VHE rather than SAT. VHE has a user profile that identifies the user services and book-marking may be more appropriate there. This was answered with the comment that perhaps the USIM could be an element of VHE, but in any case, the bookmarks must be portable across mobiles.

There was another comment that the information being stored could well expand. For example, cookies may need to be stored also and the memory on the card is much larger than it was, but is not infinite.

The idea of storing bookmarks was supported but some work needs to be done on the subject. It was decided to have an ad hoc in this meeting convened by Mark Cataldo. A liaison statement back was provided in document S1-000557. It was approved.

Another liaison statement from T3 was provided in document S1-000452. There is a command used in SIM Application Toolkit called GET INPUT (with hidden text) SAT command which can be broadened to more generic ME security issues. If an application toolkit, or the ME requires a PIN code or a secret input from the user, the ME must not emit sounds contextual to the keys pressed. Some ME emit loud DTMF codes when the CHV1 code is entered. These sounds could be intercepted and used by a 3rd party which would be a security weakness. T3 is asking SA1 to consider the issue and provide the result of the discussions to T3.

It was noted that it is good to have some audible feedback that key-presses have been entered, but it is not necessary to have the DTMF tone themselves to be broadcast locally. Note, there is a difference between the tones from the speaker of the phone and those sent over the air interface. Moreover, many phones do have the ability to turn off the key-tones or to change them to something else. Also, the fact that sensitive information is being entered is not known by 3rd parties.

The decision was to send a liaison statement back to T3 indicating that there is no service requirement for tones to be issued as key-presses. Document S1-000558 was presented in reply; it was approved and will be sent.

5.8 SPAN

Input from SPAN was dealt with in the appropriate section.

5.9 New SMG9

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------|----------|
| 456 | PLMN search and access technology lists | New SMG9 |
| 458 | Priority of ME resources for WAP and SIM toolkit applications | New SMG9 |

It was reported that New SMG is the new group set up to co-ordinate the harmonisation of smart cards across all technologies. Document S1-000456 contained a liaison statement from New SMG9 on the subject of PLMN search lists. The group is proposing a joint meeting between 3GPP (TSG-SA, TSG-SA1, TSG-CN, TSG-CN1,

TSG-RAN2, TSG-T3), 3GPP2 (PCG, TSG-C), T1P1, T1P1.3, TIA (TR45, TR45.3), GAIT, UWCC, SMG2 and EP TETRA. The meeting is proposed to be two or three days in the first week of August. "New SMG9" would convene such a meeting if the interest is high.

It was suggested that such a meeting needs an invitation and this was checked and it was reported that the meeting will be convened by SA, with a date to be announced. In the meantime the document was noted.

Document S1-000458 contained a liaison statement on ME resources for WAP and SIM toolkit applications. It would appear that SMG9 has held an ad hoc meeting on WAP / SIM toolkit applications with the WAP forum (Cassis, France, 2nd May 2000). During this meeting, the WAP Forum™ work on WAP interaction with SIM toolkit, the SIM toolkit "Launch Browser command", and the ME behaviour when simultaneous WAP and SAT sessions are in progress, were discussed.

The interaction between WAP / SAT applications concerns in particular screen and keypad access: which has access to them and when. If WAP is considered as an "ME local application", the allocation of screen access is left up to the ME. However, it has been acknowledged that different implementations exist and that one application might block another, e.g., a SAT application may be blocked by the WAP browser until the browser terminates. The latter constitutes a problem for some current SAT applications.

The report of the ad hoc meeting (attached to 458) contains the following conclusion on the issue:

"It was concluded that the best solution was for the SAT to have priority over WAP in all activities using handset resources, display and keyboard etc., however the browser should not drop the connection. [...] However, as more complex devices emerge, this issue will become more difficult to resolve, so the issue will need to be revisited in the future"

However, this conclusion was questioned during the New SMG 9 plenary #1 in Visby, with some opinions stating that future work on this subject may suffer from such a decision and that it may be dangerous to decide now absolute priority from an application over another. Furthermore, the involvement of the user may have to be taken into account. It was also pointed out that TSG-T2 is working on issues concerning ME interfaces, specifically regarding problems concerning interaction and priorities between applications as well as user interaction. This work is based on the Applications and Automatic Execution work and is now being further elaborated by T2.

Thus, New SMG 9 is asking the addressed groups to consider the matter and provide feedback.

This caused some significant discussion. The implications of this are far reaching. It was noted that T2 are studying this, although the work is difficult. It was stressed that this problem should be studied carefully and a fix is not appropriate; it must be a long-term solution.

The discussion was moved to section 6.16 on SAT (See input in S1-000518 in section 6.16).

6 Pre Release 2000

6.1 Editorials

Whilst SA1 did not receive any input under this heading, it was noted that SA1 did attract some significant criticism by using the CR category "D", editorial. In the ensuing discussions at SA#8, all TSGs were directed not to use any other category than "F" for R99 and to use this very sparingly.

6.2 Bearer Services Supported by a PLMN (22.002)

| Document Number | Title | Source |
|------------------------|-------------------------------------|---------------|
| 560 | LS on 32 kbit/s UDI/RDI multimedia | CN3 |
| 561 | 32 kbit/s UDI/RDI multimedia in GSM | Nokia |

Document S1-000560 contained a liaison statement on 32 kbit/s UDI/RDI multimedia. The circuit switched multimedia service was specified in the 3GPP R99 for both UMTS and GSM. However, there are still some minor

restrictions in some specifications that prevent the use of the 32 kbit/s UDI/RDI multimedia, based on the use of a single TCH/F32 ECSD channel, in GSM. CN3 want to remove the restrictions.

The CR to implement this was provided in document S1-000561. It would appear that CN3 is trying to introduce a new requirement. It needs to confirmation from TS GERAN and the request should come from CN3 and not SA1.

It was decided to conditionally approve it subject to CN3 requesting the changes from GERAN; this is not a requirement from SA1. In the event that GERAN cannot support the change the SA1 CR will be rejected as there are to be no new requirements introduced into R99. The secretary will inform the secretary for GERAN and CN3 that SA1 has fulfilled the requirements for our specifications, but are not requiring the new functionality.

6.3 Access Control Classes & Network Selection (22.011)

| Document Number | Title | Source |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 459 | Usage of SIM PLMN Selector Lists | New SMG9 |
| 460 | Response to LS TSGS1#8(00)245 on the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list | N1 |
| 562 | Usage of SIM PLMN Selector Lists | |

Document S1-000459 contained a liaison statement on the usage of SIM PLMN selection lists. According to GSM TS 11.11, a R99 SIM may contain both, the new PLMN Selection List with Access Technology and the 'classic' PLMN Selection List. The latter does not include Access Technology Indicators and would be necessary to keep backward compatibility with pre-R99 MEs. When an old SIM is inserted into a R99 ME, the behaviour of the ME is currently undefined. It is unclear, which of the two lists (that may have different contents) has to be read by the ME upon SIM initialisation and be used during the network selection process. If the user wants to update his list, which one is used?

Therefore, ETSI EP "New SMG9" is asking SA1 could consider this matter and - if necessary - amend our specifications.

Having considered the issue the meeting requested a response which was provided in S1-000562. In S1 indicates that it is clearly defined in our set of specifications that the PLMN selection procedure for R99 is based on the new PLMN Selection List with Access Technology. As a R99 ME shall comply with R99 specifications, it shall read the new PLMN Selection List with Access Technology upon SIM initialisation. An earlier release ME will read the 'classic' PLMN Selection List as this list was kept for backward compatibility reasons.

If the user wants to update his list, the list read by the ME upon SIM initialisation shall be used (i.e. new PLMN Selection List with Access Technology for R99 ME and 'classic' PLMN Selection List for earlier release ME).

The response in S1-000562. It was approved.

| Document Number | Title | Source |
|-----------------|----------------------------------------------|----------------|
| 548 | Alignment with 23.122 on selection procedure | France Telecom |
| 549 | Alignment with 23.122 on selection procedure | France Telecom |

A CR was provided in document S1-000548 to align 22.011 with 23.122 on the network selection procedure (S1-000549 is the equivalent for release 00). In both, the term used "other PLMNs" was corrected to the term "other PLMN/access technology combinations".

This change is for release '99 and it was questioned what the status of this work is in the other groups. Based on what was discussed earlier, it was suggested that this be postponed until the network selection joint meeting proposed by New SMG9.

It was decided to check this off line and have a report back. This was done and it was reported that indeed SA are responsible for this meeting, but that no invitation has been made available at this time.

Finally, after discussions in the meeting, it was agreed to conditionally approve the CRs. If there are no negative comments within five weeks, then they will be approved and sent to Plenary.

6.4 IMEI (22.016)

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------------------------------|-----------------------|
| 389 | Response to liaison statement on hexadecimal IMEI format (S1-000370) (R2-001156) | RAN 2 |
| 437 | Liaison statement on hexadecimal IMEI | N4 |
| 450 | LS on Response to "Liaison statement on hexadecimal IMEI format" | R3 |
| 497 | Liaison statement regarding IMEI format for UMTS | GSM A SG |
| 517 | Nokia's proposals to 3GPP for the IMEI format change to hexadecimal | GSM A TWG |
| 519 | IMEI Exhaustion Considerations | Pacific Bell Wireless |

At the last meeting a proposal to convert the serial number of the IMEI to hexadecimal format was received. A draft CR was provisionally agreed subject to responses from other groups and a liaison statement was sent out requesting these responses (S1-000370). Three responses were received from RAN2, CN4 and RAN3 in documents S1-000389, S1-000437 and S1-000450.

RAN 2 indicated that it already allows the usage of all binary values for all 15 digits of IMEI (R2-000987). This means that RAN2 supports the usage of hexadecimal coding in addition to BCD already in release 99.

RAN 3 has approved the change request (attached Tdoc R3-001513 was provided in S1-000450) of the RANAP IMEI coding to hexadecimal from present TBCD coding for R99. This CR was rejected at RAN#8. However, RAN 3 are also asking if this change is appropriate already for R99 with other relevant WG's and asks SA1 to coordinate the changes between those WG's.

CN4 went a little further to indicate that the annex should not be in an SA1 specification in any case and requested SA1 to remove it. Therefore, it was decided to put forward a revision of the CR in document S1-000370 such that the annex was removed. This was approved in document S1-000441 over email. It has been approved at SA#8

CN4 then put forward a CR to put the annex in their specifications and to implement hexadecimal IMEIs, but that some concerns were raised in CN4 about backward compatibility. It was proposed to have a special cut-over date from TSG-CN, before which the usage of hexadecimal IMEI is not allowed. After this date all GSM/UMTS-networks shall support the usage of hexadecimal IMEI. This requires changes to earlier releases of 03.03 and this will be done by CN4.

It would appear that this change causes a significant amount of cost in updating equipment. Therefore, this has been stopped for R99 and has been moved to R00. For R99, CN approved a change merely to the annex, without change, into 23.003.

Further to this, document S1-000497 contained a liaison statement from the GSM Association Security Group indicating that, whilst the SG has no security concerns about the extension of the IMEI by using the hexadecimal format, there were some concerns expressed about how the new format IMEI's could be introduced without using mechanisms such as default values. It was felt that a default IMEI would certainly cause security and technical problems. The SG thought the right approach would be to introduce an agreed date by which operators could have ensured that their networks could support the new IMEI. This would depend on manufacturers producing releases to handle this issue.

Another document from the GSM Association TWG group was provided in document S1-000517. This document was a letter from the TWG chairman indicating the considerable concerns of the TWG group. One of the biggest concerns was that the IMEI is used for stock control in the supply chain and it is not known that the world standard for bar-code readers would support hexadecimal coding.

Finally document S1-000519 contained an input from Pacific Bell Wireless on the subject. The document asks whether there is a problem in the short term and, if not, that a more broad solution is adopted.

The issue has been passed to CN4, but it is important that SA1 provide some information on the impact of doing this. It was decided to send a liaison statement to CN4, and copied to all other groups from which input has been received, providing the information received by SA1.

It was clarified that the CR mentioned in S1-000450 allows for any format of IMEI; it is not optimised for hexadecimal.

The liaison statement was provided in document S1-000563. It was approved.

6.5 SoLSA (22.043)

| Document Number | Title | Source |
|-----------------|----------------------------------------|--------|
| 379 | Response to LS (S1-991077) (R2-000929) | RAN2 |

Document S1-000379 contained a liaison statement from RAN2 on SoLSA support on UTRAN. This is in response to an SA1 liaison statement (S1-991077) sent December 1999 to RAN2, RAN3 and SA2.

SA1 requested RAN2 to consider the following definition of LSA:

“A user shall be within an LSA providing he is in contact with at least one of cell that is designated as an LSA cell”

RAN2 indicate that, from the radio interface point of view, service level definitions such as LSAs should not be used to prevent the addition or deletion of cells in the active set of radio links of the UE on the same frequency. Nor should they affect intra-frequency cell reselection, as the UE should attempt initial uplink access in the strongest cell.

LSA definitions can be used to trigger and prioritise handovers and cell reselection between different frequencies. This kind of prioritisation may not cause interference problems, but it should be noted that the number of UTRA FDD carriers available to one operator is typically quite small.

The document was noted, as it has now been agreed to remove SoLSA from the work programme.

6.6 GPRS (22.060)

| Document Number | Title | Source |
|-----------------|-----------------------------------------------|----------|
| 457 | Response to LS on non ciphered calls for GPRS | New SMG9 |
| 590 | Removal of PTM-G text from stage 1 | Lucent |

Response to LS on non ciphered calls for GPRS. The idea is to have a user controlled flag determining the terminal reaction on non-ciphered GPRS calls. Also the mechanism of having two flags – one in the ME and (potentially) one in the SIM, which, if existing, overrides the ME flag – is SMG9's preferred solution, as it covers the aspect of backward compatibility with existing SIMs and gives, in addition, the network operator the possibility of predefining a preferred behaviour.

There was a proposal to send the CR to SMG #32, however, due to concerns expressed by SMG10, it was not presented to SMG and has subsequently been dropped.

Document S1-000590 contained a substantive CR to 22.060 on the removal of PTM-G text from stage 1. It was approved by S1 and agreed to be sent to SA #9 for approval.

6.7 CAMEL (22.078)

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------------------------------|----------------------|
| 391 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services | Vodafone AirTouch |
| 392 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services rev2 | Vodafone AirTouch |
| 393 | CR to 22.078 R99 on Definition of Geodetic Information | Vodafone AirTouch |
| 394 | CR to 22.078 R99 on Correction to CAMEL interworking with GPRS | Ericsson |
| 397 | CR to 22.078 R99 on Definition of Geodetic Information rev1 | Vodafone AirTouch |
| 398 | CR to 22.078 R99 on Distinction between initial and subsequent service events | Vodafone Airtouch |
| 399 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS | Ericsson |
| 400 | CR to 22.078 R99 on Restriction on charging Thresholds | Ericsson |
| 401 | CR to 22.078 R99 on Update of CAMEL roaming issues (section 16) | Nokia |
| 419 | Report of CAMEL ad hoc held in Sophia Antipolis | Chairman ad hoc |

The above documents were presented for information. These documents came from the ad hoc held prior to the SA plenary (#8) and after the SA1 meeting in Beijing. They were noted.

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------------|--------|
| 506 | Removal of user interaction at answer DPs (Release 99) | Nokia |
| 540 | GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2) | Nokia |

Document S1-000506 contained a CR to 22.078 on Removal of user interaction at answer DPs. This is clearly a correction and it was agreed to be sent to SA #9 for approval.

Also document S1-000540 contained a CR to 22.078 on GPRS AC/ACR alignment of shared data volume control. This is also a correction and was agreed to be sent to SA #9 for approval.

6.8 Services & Service capabilities (22.105)

| Document Number | Title | Source |
|-----------------|------------------|--------|
| 632 | End to end delay | BT |
| 633 | QoS TR | Tiphon |
| 634 | QoS TS | Tiphon |

Document S1-000632 contained a CR to 22.105 on the definition of end-to-end delay. This CR is allowable by SA as it specifically requested by SA #8.

There was some discussion on this; the problem of this QoS is that it is end-to-end and, as such, covers networks that are not under control of 3GPP. Therefore, the QoS as stated in the specification for 3G is the worst case and does not look good. It is possible to specify mobile to mobile but not mobile to fixed and maybe the revision should take this into account.

It was decided that S1-000632 will be put to email approval.

Two more documents on QoS were provided from Tiphon in documents S1-000633 and S1-000634. These were noted.

6.9 VHE and OSA (22.121)

| Document Number | Title | Source |
|-----------------|----------------------------------|--------|
| 461 | Information on VHE/OSA (Copy S1) | S2 |

Document S1-000461 which contained a liaison statement from SA2 was noted.

6.10 Multimedia Messaging (22.140)

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------------------|--------|
| 423 | MMS Stage 1, 22.140 V3.0.0 alignment with MMS Stage 2, 23.140 V3.0.1 | T2 |

This was presented for historical information. It was noted. However, it was explained that T2 had put a note on the bottom of the CR indicating that the information removed in the R99 version should not be removed from the R00 version. However, this is not the normal procedure and two CRs should have been produced. It would appear that a new version of 22.140 has been produced (4.0.1) by the secretary of SA, again not normal procedure, to put the information back in again.

This will need to be sorted out after the meeting.

6.11 UMTS Service principles (22.101)

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------|----------|
| 471 | Editorial modification for R99 on definitions and abbreviations | Vodafone |

Document S1-000471 contained a CR to 22.101 to align some abbreviations. This document was withdrawn in light of the decision of SA to have a release 2000 version of 21.905.

6.12 Multiple Subscriber Profile (MSP) (22.097)

| Document Number | Title | Source |
|-----------------|----------------------------|------------|
| 499 | Interaction with Multicall | NTT DoCoMo |
| 500 | Interaction with MSP | NTT DoCoMo |
| 584 | Interaction with Multicall | NTT DoCoMo |
| 585 | Interaction with MSP | NTT DoCoMo |

Document S1-000499 contained a CR to 22.097 to clarify the interaction of MSP with multicall supplementary service and a corresponding CR to 22.135. It was questioned what would happen if this CRs are not approved. Moreover, it was asked what the impact on the stage 2 specifications would be. The answer is that there are no impacts on the stage 2 specifications.

It was decided to approve the CRs as long as there are no impacts on the stage 2. It is important that a confirmation is provided before these CRs are presented to SA #9.

It was noted that the references are incorrectly applied. The CRs were revised and presented in document S1-000584 and S1-000585. Both CRs were agreed to be sent to SA #9 for approval.

6.13 Man Machine Interface (22.030)

| Document Number | Title | Source |
|-----------------|------------------------------------------|------------|
| 501 | Codes for defined Supplementary Services | NTT DoCoMo |

Document S1-000501 contained a CR to 22.030, which is listed as editorial. The secretary asked why such a change is being proposed and what the consequences of not approving the CR are. It was indicated that the consequence is that the service could be incorrectly implemented.

The CR was agreed to be sent to SA #9 for approval.

6.14 Operator Determined Barring (ODB) (22.041)

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------|------------|
| 502 | Zone | NTT DoCoMo |
| 623 | Liaison statement to SERG on Operator Determined Barring | BT |

The definition of "Zone" as used in 22.041 that was previously defined in ITU-T Recommendation E.164, however, it is now defined in ITU-T Recommendation X.121. A CR to fix this was provided in S1-000502.

After checking, it was noted that the definition in X.121 is not the same as that in E.164. Therefore, it was suggested to contact the GSM Association SERG group, to ask what they wish to do. It is possible to refer to x.121 if the definition of zone is sufficient or to re-specify zones in 22.041. The liaison statement was provided in document S1-000623. It was approved.

The CR in S1-000502 was postponed until an answer is received from SERG.

6.15 Emergency Calls

| Document Number | Title | Source |
|-----------------|------------------------------------------------------------------------------------|----------|
| 504 | Handling of emergency call | Vodafone |
| 586 | Handling of emergency call | SA1 |
| 591 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Ericsson |
| 592 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Ericsson |
| 593 | LS on Multicall: Removal of the Requirement on the Network to Tear Down Calls | Ericsson |
| 645 | LS to SA on Handling of emergency call | Vodafone |

Document S1-000504 contained a CR to 33.102 on the handling of emergency call. This CR is destined for SA3 and was presented to SA1 for information and to find out if there are any impacts on SA1 specifications. It is a re-draft of a CR presented to SA #8 and which was postponed.

The key to this CR is that the handling of emergency calls from a security point of view is not specified. There were still some concerns regarding this and so some further work is required.

A revision was provided in document S1-000586. The change is now clearer but since it is not our specification, it was decided to have a liaison statement to SA3 indicating the comments. It was noted and will be forwarded to SA3 as a liaison statement. The liaison statement was provided in S1-000645, which will be presented on email approval.

Document S1-000591 contained a discussion document on the interaction of Multicall and Emergency Call. In Multicall ad-hoc in Sophia Antipolis it was agreed to include the requirement that the UMTS network, which supports Multicall, shall accept the emergency call after tearing down existing call(s) if necessary.

After the additional analysis it has been concluded that this requirement must be modified to remove the automatic release of calls as this is against the principle that, once the number of bearers is set to 1, then the functionality shall be the same as in the network that does not support Multicall.

The CR to implement this in 22.135 was provided in document S1-000592 and a liaison statement to inform other groups was provided in S1-000593. It was decided to put this on email approval until the end of August.

6.16 SIM Application Toolkit (22.038)

| Document Number | Title | Source |
|-----------------|------------------------------------------------------------------------------------|----------------|
| 518 | Priority of ME resources for WAP and SIM Toolkit applications | France Telecom |
| 608 | Handling of interactions between applications requiring the access to UE resources | France Telecom |
| 609 | Reply to the LS on "Priority of ME resources for WAP and SIM toolkit applications" | France Telecom |
| 631 | Handling of interactions between applications requiring the access to UE resources | France Telecom |

Document S1-000518, contained a discussion document on simultaneous WAP and SIM toolkit services sessions. When a WAP service and a SIM toolkit service have to run simultaneously, prioritisation of access to the handset resources, e.g. display and keyboard, is not fully defined for either service. This could lead to different implementations of the same service in different handsets or even impossibility to implement the service because of hazardous behaviour of the handset. This issue has not been dealt with either in the 3GPP specifications or in the WAP forum specifications.

After some discussions outside the meeting, a revision of the CR was provided in document S1-000608 and the liaison statement was provided in document S1-000609.

The CR in S1-000608 was revised to S1-000631, which was approved without further presentation. The liaison statement in S1-000609 was approved, but it was noted that the CR in S1-000631 and not S1-000608 should be attached.

There were some further comments regarding the CR in S1-000631. It was asked to have some more time to allow T2 to comment, although it was noted that the T2 meeting is very close to the SA #9.

It was decided that the liaison statement in S1-000609 is sufficient to request comments. The CR is approved and will be presented to SA #9, and if there is a problem in T2, then this will be handled in SA.

6.17 ECT (22.091)

| Document Number | Title | Source |
|-----------------|--------------------------------------|---------|
| 469 | CR on CLI presentation modifications | Siemens |
| 587 | CR on CLI presentation modifications | Siemens |

Document S1-000469 contained a CR to 22.091 to add what appears to be a new feature. For Line Identification Services the "Cause for no CLI" has recently been added. Since ECT makes use of CLI information when transferring a call – it transfers CLI of the calling party to the transferred-to-party – the "Cause for no CLI" is relevant in this case too.

This was revised and presented in document S1-000587. It was agreed to be sent to SA #9 for approval.

7 Release 2000

7.1 ALL IP

Las Vegas ad hoc

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------------------|-------------|
| 383 | Report from R2000 ad hoc in Las Vegas | R'00 ad hoc |
| 384 | LS to other working groups on Distribution of TR 22.976 | R'00 ad hoc |
| 385 | Resultant TR from the ad hoc | R'00 ad hoc |
| 386 | Proposed S1 R00 work plan | R'00 ad hoc |
| 387 | IP Network Roaming Requirements Optimised Call Routing | Motorola |
| 388 | IP Multimedia Roaming Requirements (General) | Motorola |
| 420 | LS from S2 on Comments on TR 22.976 v 1.4.0 | SA2 |
| 436 | Draft LS on the use of TR 22.976 for the GERAN release 2000 work (2-001222) | SMG2 |
| 449 | LS providing Comments to 22.976 v1.4.0 | N3 |
| 465 | Comments on TR 22.976 v 1.4.0 | S2 |

The report of the ad hoc in Las Vegas was presented in document S1-000383. The result of the ad hoc was an updated TR in document S1-000385 and a liaison statement to introduce the TR in document S1-000384 together with a workplan in document S1-000386. Since events of the plenary SA #8 have overtaken the status of these documents, they were noted for historical interest.

Documents S1-000387 S1-000388 were dealt with, in the R00 ad hoc. They were noted.

Document S1-000380, which contained a response to LS (S2-000584) on Call/Session Priorities in a Multicall Scenario (R2-000909) and which was copied to SA1 was noted.

Document S1-000420 was taken in the ad hoc (same as S1-000465). An agreed answer was not achieved in the ad hoc, but an answer is being proposed in document S1-IP-000129. This was revised and issued as document S1-000616. It was approved.

Document S1-000449 was also dealt with in the ad hoc and resulted in a response back from the ad hoc. It was noted in plenary.

Goodwood ad hoc

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------------------|-----------------|
| 473 | Report of Goodwood ad hoc | Chairman ad hoc |
| 474 | Service requirements for the IP Multimedia Core Network Subsystem (Stage 1) | R00 ad hoc |
| 520 | Numbering Principles | ad hoc |
| 521 | Editorial changes to 22.101 for Release 2000 | ad hoc |
| 522 | Service evolution | ad hoc |
| 523 | Emergency Calls and Global Text Telephony | ad hoc |
| 524 | IP multimedia session for Emergency call | ad hoc |
| 525 | IP multimedia services | ad hoc |
| 526 | General corrections and clarifications to 22.101 for Release 2000 | ad hoc |
| 527 | Multimedia messaging | ad hoc |
| 528 | Roaming | ad hoc |
| 529 | Service Management requirements | ad hoc |
| 530 | Classification of services | ad hoc |
| 531 | Subscription | ad hoc |
| 554 | Report from R00 ad hoc session 17.3. at Taastrup | ad hoc chairman |
| 574 | Removal of requirements for SoLSA support | ad hoc |

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| | | |
|-----|-----------------------------------------------------------------------------|--------------|
| 575 | Handover requirements for release 2000 | ad hoc |
| 576 | On 22.976 to SMG2 | ad hoc |
| 577 | Hosting of multimedia clients on different devices | Nortel |
| 578 | Security associations required for access to R'00 IM services | Nortel |
| 579 | Mobile Execution Environment | Motorola |
| 580 | MExE support of multimedia services | Motorola |
| 581 | Service requirements for the IP Multimedia Core Network Subsystem (Stage 1) | ad hoc |
| 582 | R00 workplan | R00 Chairman |
| 583 | Roaming | BT |

SA1 #9 and Taastrup ad hoc

| Document Number | Title | Source |
|-----------------|-------------------------------------------------------------------|-----------------|
| 597 | Numbering Principles | ad hoc |
| 598 | Editorial changes to 22.101 for Release 2000 | ad hoc |
| 599 | Service evolution | ad hoc |
| 601 | IP multimedia services | ad hoc |
| 602 | General corrections and clarifications to 22.101 for Release 2000 | ad hoc |
| 603 | Multimedia messaging | ad hoc |
| 604 | Roaming | ad hoc |
| 605 | Service Management requirements | ad hoc |
| 606 | Classification of services | ad hoc |
| 616 | LS to SA2 responding to Comments to 22.976 v1.4.0 | ad hoc |
| 617 | Handover requirements for release 2000 | SA1 |
| 618 | General corrections and clarifications to 22.101 for Release 2000 | SA1 |
| 619 | Vision and Road-Map for UMTS Evolution | SA #8 |
| 620 | Service evolution | SA1 |
| 621 | IP multimedia session for Emergency call | SA1 |
| 622 | IP multimedia services | SA1 |
| 624 | Subscription | Siemens |
| 625 | Classification of services | Nokia |
| 626 | Mobile Execution Environment | Motorola |
| 627 | Change of Name of MExE | One2one |
| 628 | MExE support of multimedia services | Motorola |
| 629 | Release 2000 features | Vodafone |
| 630 | LS to T3 on SAT/USAT Control of IP Multimedia Services | Vodafone |
| 637 | Change of MExE name | Motorola |
| 638 | Change of MExE name | Motorola |
| 639 | Change of MExE name | Motorola |
| 640 | Change of MExE name | Motorola |
| 644 | R00 work status | Ad hoc chairman |
| 646 | R00 workplan | ad hoc Chairman |

Document S1-000473 contained the report of the R00 ad hoc. The report was noted.

Plenary document SP-000337 was reproduced in SA1 document S1-000619. It was presented for completeness.

A brief report of the ad hoc just prior to this meeting was provided in document S1-000554. Of note is the change of the name of the stage 1 to "Service requirements for the IP Multimedia Core Network Subsystem (Stage 1)".

A number of revisions were made in the ad hoc:

| | |
|-----------|-----------|
| S1-000520 | S1-000597 |
| S1-000521 | S1-000598 |

| | |
|-----------|-------------------------------------|
| S1-000522 | S1-000599 |
| S1-000523 | S1-000600 moved to GTT agenda item. |
| S1-000524 | Not revised |
| S1-000525 | S1-000601 |
| S1-000526 | S1-000602 |
| S1-000527 | S1-000603 |
| S1-000528 | S1-000604 or S1-000583 |
| S1-000529 | S1-000605 |
| S1-000530 | S1-000606 |

Document S1-000574 contained a CR to 22.129. It was approved. This was agreed to be a correction and to be to R99.

Document S1-000575 contained a CR to 22.129 on handover. It was suggested to send this to the R2000 planning group (Helsinki) to find out what is possible and what is not. It does contain a large number of requirements, but they are requirements from operators. It has been in elaboration for some time and now, at least, it contains very clear requirements. When it does go to Helsinki, it was suggested that it have an explanation document attached to it.

It was decided to turn this into a liaison statement to the Helsinki meeting and revise the CR in light of comments. This was provided in S1-000617, which was approved and will be sent out.

Document S1-000436 contained a liaison statement on the use of TR 22.976 for the GERAN release 2000 work (2-001222). A response to this was provided in document S1-000576. It was approved and will be sent out.

The meeting then dealt with the new TS "Service requirements for the IP Multimedia Core Network Subsystem (Stage 1)" which was presented in document S1-000474. This was dealt with in the ad hoc just prior to the SA1 meeting and was subsequently provided in document S1-000581.

The stage 1 was endorsed by SA1 and a TS number will be requested. The ad hoc will continue work and the future version of this could be presented directly from the ad hoc to SA #9.

Document S1-000602 was revised and provided in document S1-000618.
 Document S1-000599 was revised and provided in document S1-000620.
 Document S1-000524 was revised and provided in document S1-000621.
 Document S1-000601 was revised and provided in document S1-000622.
 Document S1-000606 was revised and provided in document S1-000625.

Documents S1-000598, S1-000597, S1-000603, S1-000618, S1-000620, S1-000621, S1-000622, and S1-000605 (with classification D not C), S1-000625 were approved.

On document S1-000605, Stephanie Manning agreed to find out some more information regarding possible enhancements.

On document S1-000618 it was noted that the changes do not take into account the emergency call scenario. It was decided that some further changes may be required.

Document S1-000604 contained a proposed CR to 22.101 on the subject of roaming as did S1-000583. After significant discussion, it was decided to defer them to the R00 ad hoc for discussion with a view to sending the result to SA #9.

Document S1-000531 was replaced by document S1-000624. There were some problems with the fine tuning of the text. It was decided it to send to the next ad hoc of R00.

It was decided to move S1-000600 to be moved to agenda item on Global Text Telephony (7.11).

Document S1-000579 contained an editorial change to 22.057 to implement the requirements for R00. It should be noted that MExE normally refers to Mobile Station Execution Environment and there is a proposal to have the name stand for Mobile Execution Environment. This maintains the same acronym. However, there is a consistency problem with the use of Mobile versus Multimedia. This will require a revision.

The revision was provided in document S1-000626. It was further noted that a CR to 21.905 will be required. This will, however, be to release 2000 and not R99. Therefore, document S1-000627 was allocated for the vocabulary document. The CRs in S1-000626 and S1-000627 were agreed to be sent to SA #9 for approval.

Document S1-000580 contained a CR to 22.057 on MExE support of multimedia services. This was revised, to S1-000628, which was subsequently agreed to be sent to SA #9 for approval.

Also, Mark Cataldo accepted the task to check all of the other 22 series for instances of MExE. The CRs to do this were provided in documents:

| Document Number | Spec | Release | Title |
|-----------------|--------|---------|---------------------|
| S1-000637 | 22.038 | R00 | Change of MExE name |
| S1-000638 | 22.078 | R00 | Change of MExE name |
| S1-000639 | 22.105 | R00 | Change of MExE name |
| S1-000640 | 22.121 | R00 | Change of MExE name |

All CRs were agreed to be sent to SA #9 for approval.

Workplan

Document S1-000582 contained a revised workplan for the R00 ad hoc. It was noted that the ad hoc on 24-25th August will probably not now take place. However, if there are people going to the SA plenary R00 ad hoc (22-23rd), then they could stay on for the extra two days. The document was revised to S1-000646 and was noted. Also, the status of R00 work, which was provided in document S1-000644, was noted.

Based on the work in the R00 ad hoc (S1-IP-145) a CR to 22.038 was provided in document S1-000629. In addition a liaison statement to S1-000630 contained the liaison statement to T3. The CR will be sent to SA #9 for approval. It will also be sent to T3 as it may have an impact on them.

7.1.1 Addressing in R2000

| Document Number | Title | Source |
|-----------------|------------------------------------------------------|---------|
| 495 | The Problem of User Identification | STF 157 |
| 496 | User Identification solutions in converging networks | STF 157 |

Document S1-000495 contained a presentation on The Problem of User Identification from Mr Mike Pluke from STF 157. The STF has been investigating a number of requirements for user identification, some of them obvious and some surprising ones. The work has resulted in a draft TS which was provided in document S1-000496. The chairman noted the document and requested delegates to read it.

It was asked if the STF has seen 22.975. The answer was yes and the requirements therein have been taken into account.

Another question was who actually owns the identifier; will it be the operator or the individual? There is no firm answer, but it should be noted that there are a number of ways this can be generated and a number of ways to manage it. Hence, the answer is as diverse as the solutions to providing it.

The chairman thanked Mike for coming to give the presentation.

7.2 New work items

No new work item descriptions were presented to the meeting.

7.3 PLMN selection (22.011)

| Document Number | Title | Source |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 460 | Response to LS TSGS1#8(00)245 on the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list | N1 |

Document S1-000460 contained a liaison statement from CN1 on the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list. It is commented by CN1 that this new requirement has an impact on the CN1 TS23.122 specification.

Moreover, CN1 has some comments and questions for clarification below:

- the SA1 CR on 22.011 only applies to the automatic network selection mode. Is it the intention that the switch doesn't apply to manual network selection mode (to sort the list displayed to the user)?
- PLMN selection is already a complicated procedure and adding this switch makes the procedure even more complex and confusing for the user. The prioritization of the operator list can already be achieved today by emptying the user list.

This issue has now been moved to R2000 and so this needs to be dealt with in this section.

Document S1-000460 is of historical interest bearing in mind what has happened in SA #8. It was noted.

| Document Number | Title | Source |
|-----------------|----------------------------------------|---------|
| 494 | Network Selection | MMO |
| 537 | Reselection attempts of GPRS terminals | T-Mobil |

Document S1-000494 contained a discussion document on network selection. The document is based on the understanding that a meeting on network selection will be held and highlights some points that may need to be decided upon. It was noted and will be passed to the ad hoc on Network selection to be arranged by SA.

Document S1-000537 contained a proposed CR to 22.011 on reselection attempts of GPRS terminals. This was conditionally approved on two conditions; that there are no technical problems, and that we are allowed to have editorial changes.

7.4 IMEI (22.016)

It was noted that the documents allocated to this agenda item were, in fact, R99 issues. Therefore see section 6.4.

7.5 SoLSA (22.043)

There was no input to the meeting on SoLSA, although it was noted that the feature has now been deleted. This will be reflected on the project plan of SA2.

7.6 GPRS (22.060)

No issues were identified for GPRS at this meeting.

7.7 Location Services (22.071)

| Document Number | Title | Source |
|-----------------|-------|--------|
|-----------------|-------|--------|

| | | |
|-----|---------------------------------------------------------------|------------|
| 463 | LS on event driven Location information | S2 |
| 484 | Correction to LCS Service Description Stage 1 Document (R'00) | Qualcomm |
| 485 | Correction to LCS Service Description Stage 1 Document (R'99) | Qualcomm |
| 536 | Support of Location Services in UMTS Release 2000 | NTT DoCoMo |
| 538 | Location Services – User MMI | MMO |
| 539 | LCS for Rel 2000 | Nokia |
| 547 | 22.071 LCS Stage 1 Rapporteur Report | Rapporteur |
| 589 | Support of Location Services in UMTS Release 2000 | NTT DoCoMo |

Document S1-000547 contained a report from the rapporteur on location services. There have been some contributions to the last meeting and which were combined and sent to SA #8. However, during the email approval a number of comments were made that were referred to this meeting. The report was noted.

Document S1-000463 contained a liaison statement regarding a new event driven Location service feature, which is being evaluated for Release 2000. The events that can generate an LCS request should be specified and S1 is asked to investigate what types of event on which event driven location information is needed. Some examples of possible events that could generate a location request are: call origination and call termination, location changes e.g. cell change, location update, routing area update. Also periodic location request could be seen as event driven.

This is a little confusing as in CAMEL there are some event procedures. It was clarified that the events for location may be required by a service not implemented by CAMEL. Another document, S1-000589, was partly produced to address this issue. (Note document S1-000536 was withdrawn and replaced by S1-000589).

It was commented that this CR does contain a number of issues in the same document. This is perhaps not the best way of doing this; it would be better to have separate CRs related to work items.

A similar comment was made regarding document S1-000539, which contained some changes that have been sent on email. It was noted by the editor of the CR that the email had not brought any comments, and so perhaps an ad hoc is required to deal with this issue.

In the meantime, it was suggested that these documents (589, 539) be discussed outside this meeting leading to some email correspondence. If required an ad hoc could be held to deal with the subject.

Document S1-000484 contained a proposed alignment between the stage 1 and stage2 for release 99 and an equivalent CR to release 2000 in document S1-000485. It was stated both MS-Based and MS-Assisted LCS methods are introduced and incorporated into the LCS stage 2 and stage 3 documents of R'98, R'99 and R'00. In the current R'00 stage 1 document the MS-Based method is discussed, however the MS-Assisted method is not properly addressed. In this contribution we propose to add the appropriate MS-Assisted description to reflect the context of the LCS protocols already solidified in the stage 2 and stage 3 documents.

It was noted that there is a possibility for encryption. This is a reproduction of existing text, but it begs the question of what encryption is being referred-to. If the type of encryption is to be stated, then another CR is required.

Both CRs in documents S1-000484 and S1-000485 were agreed and will be sent to SA #9 for approval.

Document S1-000538 contained a discussion document on the provision of MMI for privacy of LCS. Whilst LCS is important, there is the danger that this feature could be blocked by regulatory bodies, if the privacy requirements of the user are not guaranteed. To avoid problems operators had with the CLIP/CLIR service in the past. (In the first versions the user interaction was missing). Mannesmann Mobilfunk is proposing to standardise the user interaction.

The privacy setting of the user is stored in the HLR. Currently, the following settings are supported:

- ?? Location requests not allowed
- ?? Location request allowed only in active mode (existing call or active PDP context)
- ?? Location request always allowed

Unfortunately, there is no standardised mechanism to modify the settings. Mannesmann Mobilfunk is proposing to standardise a respective MMI procedure that shall be supported by GSM and UMTS terminals in the future. Additionally, it is under discussion if there is the need for a privacy setting, that allows location request only if the user gives explicit permission for this request. This might be required for mobile tracking applications.

The document is presented to see if there is any interest in the subject leading to a work item. It was endorsed and will be included in the LCS work plan. The rapporteur was asked to deal with this subject.

7.8 CAMEL (22.078)

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------------------------------|----------------------|
| 405 | Nokia wish list for CAMEL phase 4 in R2000 | Nokia |
| 406 | CR to 22.078 R00 on Introduction of MT SMS interworking with CAMEL 4 | Nokia |
| 407 | CR to 22.078 R00 on CAMEL Phase 4 Call Party Handling | Nokia |
| 408 | CR to 22.078 R00 on CAMEL4 & IPT services; address information & registration | Nokia |
| 409 | SBC proposal for CAMEL Phase 4 Features in R2000 | SBC Comms |
| 410 | Proposal for CAMEL Phase 4 Features in R2000 | Mannesmann |
| 411 | CR to 22.078 R00 on Charging enhancements for circuit switched calls | Ericsson |
| 412 | CR to 22.078 R00 on Introduction of MT SMS interworking with CAMEL 4 rev1 | Ericsson |
| 413 | CR to 22.078 R00 on CAMEL support of Optimal routeing for Mobile-to-mobile calls | Vodafone AirTouch |
| 414 | CR to 22.078 R00 on CAMEL Phase 4 Call Party Handling rev1 | Nokia |
| 416 | CR to 22.078 R00 on CAMEL support of Optimal routeing for Mobile-to-mobile calls rev1 | Vodafone AirTouch |
| 418 | LS to CN on Features of CAMEL phase 4 in the release 2000 | ad hoc |

The above documents were issued as part of the work in the ad hoc and prior to adoption of separate CAMEL ad hoc document numbering. They were noted by SA1 plenary.

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------------------------------|----------------------|
| 417 | CR to 22.078 R00 on CAMEL support of Optimal routeing for Mobile-to-mobile calls rev2 | Vodafone AirTouch |
| 480 | CAMEL Phase 4 Priorities | SBC |
| 505 | CAMEL Ad Hoc meeting report | Rapporteur |
| 507 | Proposed CR to 22.078 Section 6 for IP Telephony in CAMEL Phase 4 | BT |
| 508 | Proposed CR to 22.078 Section 1 for IP Telephony in CAMEL Phase 4 | BT |
| 509 | Proposed CR to 22.078 Section 4 for IP Telephony in CAMEL Phase 4 | BT |
| 510 | Introduction of MT SMS interworking with CAMEL4 | Nokia |
| 511 | Proposed CR to 22.078 Section 3 for IP Telephony in CAMEL Phase 4 | BT |
| 512 | Removal of tags associated with previous releases of CAMEL | Lucent |
| 513 | Introduction of IPT for CAMEL4 | Nokia |
| 514 | Inclusion of Mid call event | Lucent |
| 515 | Inclusion of flexible tone injection | Lucent |
| 516 | Introduction of Call Party Handling | Vodafone AirTouch |
| 615 | Introduction of Call Party Handling | Vodafone |

Document S1-000480 contained a proposed CR to put in some CAMEL 4 features to R00. SBC would like to see CAMEL Phase 4 developed to support a number of enhancements to circuit switched based offerings such as Pre-Paid and VPN. This includes further control of call legs in a flexible manner, support for information services, support for control of USSD procedures and Mid-call events (example used in conjunction with invocation of DTMF). It was noted that for the majority of the items that were requested, input contributions were available with the exception of USSD. SBC clarified that they wished the CSE to provide prepaid charging when USSD was used as a bearer (eg to carry WAP).

This was handled at the Goodwood ad hoc and was presented here for completeness. The result of the discussions was reported on in document S1-000505 (see below). The report was noted.

Document S1-000507, S1-000508, S1-000509, S1-000510, S1-000511, S1-000512, S1-000513 (with category B and a reference to \$CAMEL4\$ not 3), S1-000514, S1-000515 were agreed to be sent to SA #9 for approval.

The formats of the front sheet will need to be changed to reflect the version to which they were applied; it was clarified that these CRs were applied to an interim version of the specification, which included the CRs subsequently approved at SA #8.

It was noted that the speed of approval of these CRs reflects the extraordinarily high quality of the work done by the CAMEL ad hoc (here, here, ra, ra!).

Document S1-000417 was treated in the CAMEL ad hoc prior to SA #8 and the Goodwood meeting. This was thought to be a good input and was agreed there. It was agreed that the document should be sent to SA #9 for approval with a change to indicate that it affects the Core Network and is, of course, R00.

Document S1-000516 contained a CR to 22.078 on of Call Party Handling. It was supported by some members (it applies to the CS part of CAMEL), but also attracted some comments as to whether it is possible to achieve this in R00.

In the past, it was the policy to add the requirements and allow the other groups to implement the requirements in their specifications. However, it was noted that in the past, there was always a scabble at the end of a release to take out what it was not possible to achieve in the release. Therefore, it was suggested that something like this, that may not be achievable in the timescale, is not put in the TS in the first place.

It is realised that this has been scaled-down from the original proposal, although it is still borderline, and that it might be possible include this in release 2000.

There were a number of delegates in favour of this CR and the concept was agreed in principle but it was agreed that there were also some detailed comments on the CR that needed to be resolved..

The revision was provided in S1-000615. There were some problems still with this CR and the introduction of the feature. Whilst it was approved in principle, there were inconsistencies in the CR. The scope of the work was agreed, but the text will need some word-smithing. The next CAMEL ad hoc is on 11th to 13th September in Sophia Antipolis.

It was decided that the CR should be sent back to the CAMEL ad hoc for some more work. The ad hoc can send this CR directly to SA #9. It was further clarified that any other of the CRs from the ad hoc should be sent on email approval (for one week) prior to be sent to SA #9 for approval, but that rejection by reason of principle would not be acceptable.

| Document Number | Title | Source |
|-----------------|--------------------------------------------------|---------|
| 542 | Accelerate the work for CAMEL 4 | Siemens |
| 543 | Applicability of CAMEL features for IP Telephony | Siemens |
| 596 | Charging notification | Siemens |

A number of documents were received at this meeting.

Document S1-000542 contained a discussion document on the speed of the work for CAMEL 4 from Siemens. This was presented to try and accelerate the work. It was endorsed by the meeting.

Document S1-000543 contained a discussion document and proposal on the applicability of CAMEL features for IP Telephony from Siemens. At the last CAMEL adhoc group meeting the applicability of CAMEL for IP telephony (IPT) was discussed. It was agreed to adopt certain CAMEL facilities for IPT, and the first CRs were submitted. Different ideas and suggestions were debated to find the best approach to introduce IPT. Either a distinct chapter or modifications to existing chapters are possible to describe the impact of IPT. Another important issue is the amount of CAMEL facilities for IPT. It is a common understanding to reuse CAMEL services for IPT to ease the migration from CS based value added services.

However, due to the implicit functionality of IP clients in the terminal it is questionable which – if any at all – services nowadays provided through Camel can be performed or initiated by the terminal in the future. Therefore, it is being proposed that IPT support is described in one or more separate chapters of 22.078.

It was decided to send this to the CAMEL ad hoc. There was some support in the meeting, but no firm decision in the SA1 meeting. It was noted.

Document S1-000596 contained a CR to 22.078 that was presented to the ad hoc and it was asked to have some time to find some comments. There have not been any comments and so it was reproduced at this meeting. It was decided to allow two more weeks to have comments and so it was put on email approval.

7.9 VHE and OSA (22.121)

| Document Number | Title | Source |
|-----------------|------------------------------------------------------|------------|
| 446 | WID for Scope of VHE in Release 2000 | VHE ad hoc |
| 464 | Answer to Liaison Statements on VHE User Profiles | S2 |
| 486 | Minutes of the VHE #1 meeting in London | VHE ad hoc |
| 487 | Minutes of the VHE #2 meeting in London | VHE ad hoc |
| 488 | Modified VHE WID | VHE ad hoc |
| 489 | Realisation of Application interface | VHE ad hoc |
| 490 | User profile | VHE ad hoc |
| 491 | VHE release 2000 | VHE ad hoc |
| 492 | Proposed reply to LS on S2 work schedule | VHE ad hoc |
| 493 | Proposed LS on support of VHE user profile | VHE ad hoc |
| 551 | Synchronisation of distributed user profiles | Motorola |
| 552 | Uniquely addressable user profiles | Motorola |
| 553 | VASP indirect support of VHE | Motorola |
| 564 | Realisation of Application interface | Fujitsu |
| 565 | VHE release 2000 | Fujitsu |
| 566 | User profile | Fujitsu |
| 567 | Proposed LS on support of VHE user profile | Fujitsu |
| 568 | VHE requirement for session mobility | Siemens |
| 569 | Synchronisation of distributed user profiles | Motorola |
| 570 | Uniquely addressable user profiles | Motorola |
| 571 | VASP indirect support of VHE | Motorola |
| 564 | CR to 22.121 on Realisation of Application interface | Fujitsu |
| 565 | CR to 22.121 on VHE release 2000 | Fujitsu |
| 566 | CR to 22.121 on User profile | Fujitsu |

Document S1-000486 contained the report of the VHE #1 meeting in London. The main point of this was to split the work into two aspects, OSA and VHE. This was done with Siemens taking the OSA work and Fujitsu maintaining the VHE work. The second meeting of VHE was reported in document S1-000487.

As reported above, SA #8 did not approved the WID for VHE. Hence a proposal to replace this was provided in document S1-000446. This was revised in the ad hoc and was presented to SA1 in S1-000488. It was approved and will be sent to SA #9 for approval.

Document S1-000489 contained a CR to 22.121 on the realisation of Application Interface. In R99 specification, the application interface was stated as being realised in one of two ways: a non-generic way implying applications must have knowledge of the underlying mechanisms used and a generic way implying applications need not have knowledge of underlying mechanisms used. The CR was revised to document S1-000564. It was agreed to send the revision to SA #9 for approval.

Document S1-000464 contained an answer to an S1 liaison statement on VHE User Profiles. This is a correspondence between SA2 and T2. It was noted by SA1.

Document S1-000492 contained a proposed reply to LS on SA2 work schedule. In it, the delivery dates proposed by SA2 were addressed and adjusted. It was approved.

Document S1-000493, which contained a proposed LS on support of VHE user profile and the identification of some requirements on User profile. So far user profile has been categorised into User data and User Service data. User data contains information such as terminal settings (menu, colour screen etc). User service data contains information such as service subscribed to by the user. The liaison statement to T2 SWG1 (MExE), SA2 (VHE/OSA), and CAMEL, WAP WAG Sync was revised. The revision was provided in document S1-000567. The liaison statement was approved.

Document S1-000490 contained a CR to 22.121 on requirement for VHE R00 for User Profiles. This was revised to S1-000566, which was agreed by SA1 to be sent to SA#9 for approval.

Document S1-000491 contained a CR to 22.121 to reflect requirement for VHE R00. This was revised to S1-000565. It was agreed to send the CR to SA#9 for approval.

Document S1-000551 contained a CR to 22.121 on Synchronisation of distributed User Profiles. This was revised and provided in document S1-000569. It was agreed for it to be sent to SA #9 for approval.

Document S1-000552 contained a CR to 22.121 on Uniquely addressable User Profiles; the new requirement is to uniquely identify a User Profile to enable unambiguous support of VHE in the Home Environment and the Serving Network. Whilst the concept was supported, some concern was expressed regarding the potential implication for some administration function for the profiles. An update was provided in S1-000570. It was agreed for it to be sent to SA #9 for approval.

Document S1-000553 contained a proposed CR to 22.121 on allowing Value Added Service Providers to indirectly implement VHE using stored user profiles during Capability Negotiation. This was revised to document S1-000571. It was agreed for it to be sent to SA #9 for approval.

Document S1-000568 contained a discussion document on how to approach the work on VHE. The current discussion on VHE focus on areas which are left open from R99 and how to deal with them best. Relations to other groups on the User Profile and distributed information slow down the progress. However, additional capabilities have to be identified and progressed to continue the original idea and make VHE successful. Therefore, it is being proposed to investigate ideas to provide session mobility. It was supported.

OSA

| Document Number | Title | Source |
|------------------------|-----------------------------------------------------------------------|---------------|
| 447 | WID for Scope of Open Interface for Service Provision in Release 2000 | VHE ad hoc |
| 466 | New OSA Stage 1 | Siemens |
| 544 | Meeting Report of SA1 adhoc on Open Interface for Service Provision | Siemens |
| 545 | Proposed LS to TSG SA WG 2 on OISP work Schedule | Siemens |
| 546 | Scope of Open Interface for Service Provision | Siemens |

| | | |
|-----|------------------------------------------------------------|---------|
| 572 | Scope of Open Interface for Service Provision | Siemens |
| 594 | Revised New OSA Stage 1 | Siemens |
| 647 | Scope of Open Interface for Service Provision | Siemens |
| 648 | Proposed LS to TSG SA WG 2 on OISP work Schedule, from 545 | Siemens |

In the VHE meeting in London it was decided to split OSA from VHE as VHE is a concept and OSA is the means to support it. The work item for this was approved in document S1-000447 with a new name "Open Interface for Service Provision" or OISP. At a recent meeting of the OISP ad hoc, the WID was revised and provided in document S1-000546.

It was questioned why to update this WID. The answer is that there were two versions of the WI from SA1 and CN4. SA #8 asked that the ideas of CN4 and SA1 be merged into one WID. This is a good reason to update it and it was asked that this be stated on the cover sheet prior to presentation to SA.

It was revised in light of comments received and was presented in S1-000572. It was further revised to S1-000647 with the name changed to make a better acronym. This will go out on email approval.

It was reported that document S1-000466 was withdrawn and replaced by document S1-000468. It was noted and will be dealt with in the ad hoc during this meeting.

The report of the last ad hoc was provided in document S1-000544. It was provided to the ad hoc for discussion as was document S1-000545, which contained a proposed LS to TSG SA WG 2 on OISP work Schedule. Both documents were noted.

The revised version of S1-000468 was provided in document S1-000594. This new OSA Stage 1 will be raised to version 1 and sent to SA #9 for information.

A liaison statement to SA2 was presented in document S1-000545. It was revised to S1-000648 and was approved.

7.10 Multimedia Messaging Service (22.140)

| Document Number | Title | Source |
|-----------------|----------------------------------------------------------------------------------|----------------------|
| 378 | LS on Multimedia messaging service (MMS) support of VHE in release 2000 | T2 |
| 422 | LS on introduction of Instant Messaging in MMS | T2 |
| 462 | Answer to LS "Multimedia messaging service (MMS) support of VHE in release 2000" | S2 |
| 478 | Instant Messaging in 3GPP | Comverse |
| 479 | Introduction of Instant Messaging Capabilities to MMS | Comverse |
| 481 | LS to 3GPP TSG SA WG 1 on Voicemail platform standardisation | GSM Association SERG |
| 498 | Proposed LS to 3GPP T2 on MMS use cases (see document SERG105-00) | GSM A SERG |
| 607 | LS to T2 on Instant Messaging | Vodafone |
| 610 | LS on Multimedia messaging service (MMS) support of VHE in release 2000 | SA1 |

Document S1-000422 contained a liaison statement on introduction of Instant Messaging in MMS from T2. In the liaison statement T2 indicate that instant messaging is growing rapidly on a world-wide basis. T2 believes, that adding Instant Messaging capabilities to the MMS (notification of online presence and creation of "a contacts list") will prove to be an important addition to MMS.

T2 has an interest in introducing Instant Messaging capabilities into the MMS. Therefore, T2 is asking S1 to include changes in the MMS Stage 1 specification (22.140) that will reflect the addition of Instant Messaging capabilities.

A presentation in support of instant messaging was provided in document S1-000478. There was some controversy over the idea of instant messaging. The key is that this WI is proposing to standardise a mechanism for instant messaging (or chat) but, as Internet has shown, users will use the latest version. If we standardise on a particular mechanism, then we need to ensure that it is flexible enough to move with innovation. If not then we could well be left with a dinosaur for instant messaging.

The CR to implement this was provided in document S1-000479. The CR applies instant messaging to the MMS stage 1 and it was commented that the above comments (about obsolescence) could equally apply to MMS as a whole, not just for instant messaging. However, there are elements of this which will need to be standardised; generally this will be at a lower level and not at the service definition level.

All this notwithstanding, if there is a work item, then the work will be done. It was clarified that this will be a part of the MMS work item.

It was noted that one member of the meeting thought that this standard will be obsolete before it is finished. Nether-the-less, it was decided to send a liaison statement to T2 to express our support, and some reservation.

The liaison statement was provided in document S1-000607 and was approved. Regarding the CR in document S1-000479, it was decided to send this to an email discussion. If it can be agreed, then it can be approved over email. If not it will be referred to a workshop on the subject.

Document S1-000378 contained a liaison statement from T2 on Multimedia messaging service (MMS) support of VHE in release 2000. The reply to this was provided in document S1-000610. It was approved with the stage 1 in S1-000594 attached.

Document S1-000462 also contained a liaison statement on MMS from SA2 to T2. It notes that T2 is starting work and that the requirements for VHE are defined by S1. It was noted.

Document S1-000481 contained a liaison statement from SERG which notes that different types of messaging platforms operate independently and there is little commonality in the way they interface with the user and with the network. If some degree of standardisation were to be applied at the borders of these platforms additional services could be offered to the user. SERG is proposing to standardise only the interface between different Voicemail Systems and between the VMS and the SMSC. This will allow messages and other information to be transferred between different messaging systems operated in different mobile networks and between platforms from different manufacturers. Some degree of standardisation is also appropriate in the way a voice-mail greeting is presented to the caller.

SERG has prepared a document outlining the service requirements and some suggestions on possible technical solutions and would like to know if S1 shares the opinion that this work is within the scope of the 3G Partnership Project.

It was a little unclear if this comes into the remit of 3GPP; certainly it was not a part of GSM. It was noted that the work of SERG would appear to cover more than the mobile network and, with this, it may be more appropriate to direct this work to another body.

The response of SA1 will be communicated to SERG by Paul Carpenter.

Document S1-000498 was erroneously sent to SA1. It was noted.

7.11 Global Text Telephony (22.226)

| Document Number | Title | Source |
|-----------------|---------------------------------------------------------------------------------------------|------------|
| 381 | Global Text Telephony work item proposal (from 337) | Rapporteur |
| 453 | TTY | T1P1 |
| 454 | Speech Codec speech processing functions Cellular Text Telephone Modem; General Description | T1P1 |
| 455 | Cellular Text Telephone Modem; Description of the fixed point C- | T1P1 |

| | Code | |
|-----|-----------------------------------------------------|----------|
| 475 | Global Text Telephony, Status report and issues | Ericsson |
| 476 | Global Text Telephony, Stage 1 description (22.226) | Ericsson |
| 588 | Additions to 22.101 for Global Text Telephony | Ericsson |
| 600 | Emergency Calls and Global Text Telephony | ad hoc |
| 649 | Additions to 22.101 for Global Text Telephony | Ericsson |
| 650 | Global Text Telephony, Stage 1 description (22.226) | Ericsson |

Document S1-000453 contained a letter from T1P1 on the subject TTY. T1P1 have attached two preliminary specifications that have been drafted to fulfil US FCC requirements for support of text telephones. These documents do not currently include support for T.140 but they are evaluating a number of performance improvements to accommodate this expansion. Although the focus is to fulfil North American requirements, it is their intention to also contribute this work into the 3GPP work item on Global Text Telephony. Technical comments on these specifications are solicited by the end of June, 2000.

It may result in a liaison statement back depending on the decisions on S1-000454 and S1-000455.

A proposed stage 1 for Speech Codec speech processing functions Cellular Text Telephone Modem was provided in document S1-000454. The idea for this is to use the voice channel assuming that GTT is not available. Document S1-000454 contains the C code to implement the cellular text telephone modem.

It was asked what the status for these documents are in respect of the work on GTT. This will need to be investigated and the rapporteur agreed to look into it.

It was noted that document S1-000381 was withdrawn in favour of S1-000475, which contained a status report and issues and a work item description. This work item belongs to SA2 and, as such, SA1 can do no more than note it. The meeting did this.

So, the meeting moved on to the stage 1 that was presented in document S1-000476. The document had version 1 on it, but it should have been version 0.x.x. A question was asked if there is a subscription to the service. The answer is that in North America there will be no subscription; other areas may have subscriptions.

A number of comments were made to this. It was decided that the rapporteur should liaise with his delegates from Ericsson and others and provide an update. The update was provided in document S1-000650. It was put on email approval with a view to making it version 1.0.0 for SA #9.

Document S1-000588 contained a CR to 22.101 on Text Conversation for Global Text Telephony. The content was agreed to, but a revision was required. It was provided in document S1-000649 and was sent on email approval.

Document S1-000600 contained a CR to 22.101 on Global Text Telephony. It was decided to postpone this to the next meeting.

7.12 MExE (22.057)

| Document Number | Title | Source |
|-----------------|--------------------------------------------------------------------------|-------------|
| 427 | LS Reply to Questions on "MExE support of VHE User Profiles" (T2-000332) | T2 SWG2 |
| 428 | MExE Release 2000 | TSG-T2 MExE |

Document S1-000427 contained a reply from T" on the subject of MExE support of VHE User Profiles. This has been dealt with in S1-000493. Document S1-000427 was noted.

Document S1-000428 contained a liaison statement from T2 on MExE for release 2000. The MExE group has identified improvements to be performed as part of Release 2000, and has agreed the attached Work Item Description for MExE Release 2000 for approval. This has been approved by SA.

In order to support the WID, additional requirements need to be incorporated into a Release 2000 22.057, and MExE proposes the changes in the attached CR. Further, a CR to 22.057 containing an informative annex on example MExE services is also attached.

The R00 CR was agreed to be sent to SA #9 for approval. The R99 CR, however, may well have some problems to be in release 99. This is applicable to R99, but for formal reasons it will only be applied to R00. With this change, the R99 CR was agreed to be sent to SA #9 as a R00 CR.

7.13 ECT (22.091)

There was no input on ECT.

7.14 Bearer Services Supported by a PLMN (22.002)

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------|-----------------|
| 467 | Proposed deletion of BS 30 NT | Siemens |
| 468 | CR on proposed deletion of BS 30 NT | Siemens |
| 482 | Affected TS for Bearer Modification without pre-notification | NEC |
| 483 | CR on TS22.001 for Bearer Modification without pre-notification | NTT DoCoMo, NEC |
| 595 | Deletion of bearer service BS 30 NT | Siemens |
| 612 | Bearer Modification without pre-notification | NTT DoCoMo |
| 613 | Bearer Modification without pre-notification | NTT DoCoMo |
| 614 | Affected TS for Bearer Modification without pre-notification | NEC |
| 641 | Bearer Modification without pre-notification | NTT DoCoMo |
| 642 | CR on TS22.001 for Bearer Modification without pre-notification | NTT DoCoMo |

Document S1-000467 contained a proposal for the deletion of BS 30NT. The CR to implement this change was provided in document S1-000595. The CR was agreed to be sent to SA #9 for approval.

Document S1-000482 was replaced by S1-000614. Documents S1-000483, S1-000612 and S1-000613 were presented to implement the changes.

Document S1-000483 was revised to S1-000642, which agreed to be sent to SA #9 for approval.

Document S1-000612 was revised and provided in document S1-000641 and document S1-000613 were agreed to be sent to SA #9 for approval.

7.15 UMTS Service principles (22.101)

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------|------------|
| 472 | Editorial modification for R00 on definitions and abbreviations | Vodafone |
| 534 | Recall Capability for Emergency call | NTT DoCoMo |
| 535 | Recalling capability | NTT DoCoMo |
| 573 | Emergency Call | Telia |
| 643 | Recall Capability for Emergency call | NTT DoCoMo |
| 651 | Recall Capability for Emergency call | NTT DoCoMo |

Document S1-000472 was withdrawn.

Document S1-000534 contained a discussion document on the capability for recall in the case of an emergency call. The requirement from Japan is to be able to recall emergency call from emergency centre after end of the communication (e.g. the user hangs up before giving enough information to the emergency centre due to impatience) or in case of accidental disconnection during emergency call. By supporting this capability, emergency centre can provide more reliable services to the users. The CR to implement this was provided in document S1-000535.

This is an interesting idea, but there are some problems with the implementation. It is all very well to retain the Radio Access Bearer (RAB) if the caller hangs up, but this will not help if the RAB is lost by mistake. Another option could be to recall the emergency caller, but this requires the SIM in GSM.

This requires some debate on the requirements. Therefore, it was decided to send a liaison statement to RAN and SA2 to explain a little more the requirements. This was provided in S1-000643. It was revised to take out the reference to recall.

It was revised to S1-000651 and put on email approval.

On a similar subject, S1-000573 contained an editorial CR to clarify existing text in a note. It was agreed

8 Release 2000 onwards

No input was received on the subject of release 2000 onwards.

9 Any Other Business

9.1 3G Vocabulary (21.905)

| Document Number | Title | Source |
|-----------------|------------------------------------------------------|------------|
| 439 | Response to LS on usage of terms GSM, UMTS and GERAN | N1 |
| 477 | New Abbreviations and Definitions for R99 | Rapporteur |

Document S1-000439, which contained a Response to LS on usage of terms GSM, UMTS and GERAN was agreed-to and noted.

Document S1-000477 contained a CR to 21.905 to implement new Abbreviations and Definitions for R99. There was some confusion as to whether this should be R99 or R00. It was decided to agree this CR and allow MCC to decide if it should be R99 or R00.

9.2 Digital Video Broadcasting Project (DVB)

| Document Number | Title | Source |
|-----------------|-----------------------------------------------------------------|-------------------|
| 532 | Communication from the Digital Video Broadcasting Project (DVB) | 3GPP PCG Chairman |

Document S1-000532 contained a communication from the Digital Video Broadcasting Project (DVB) for discussion. This document was presented to SA #8 and was forwarded to SA1 for information. It was noted.

9.3 GSM/UMTS over TFTS

| Document | Title | Source |
|----------|---------------------------------|--------|
| 635 | GSM/UMTS over TFTS | TC ERM |
| 636 | Civil Aviation Authority report | CAA |

Document S1-000635 contained a report from the WG ERM RP05 Aeronautical Radio Services chairman on the Development of Flight telecommunications. The market need for a flight telephone system is becoming more and

more obvious since all the European population nowadays is offered mobile communication facilities. The existing terrestrial system, TFTS, failed for a number of reasons. It could be summarized as TFTS failed in competition by GSM. A new system is required and it is being proposed that the new Flight Telecommunications will be based on the GSM-system, and is therefore named GSM-A.

The passengers will use their own terminals for outgoing and incoming calls connected via a flying microCell GSM. This is linked to the terrestrial system through any available system capable to handle the needed capacity and speed, and then forwarded to the GSM-network.

It was noted that the timing is one of the critical issues, and we have to realise that the new system must be offered very soon.

The chairman urged delegates to read this document and the associated document in S1-000636 and provide comments to the next meeting.

10 Administration

There was no input on this subject, although the chairman did request that the rapporteurs list be updated. This will be done over email.

11 Approval of Outputs and Liaisons

Change Requests

| Release | Doc No | Title | To |
|---------|--------|--------------------------------------------------------------------------------------|-------------------------------|
| R00 | 417 | CR to 22.078 R00 on CAMEL support of Optimal routing for Mobile-to-mobile calls rev2 | SA #9 |
| R00 | 428 | MExE Release 2000 | SA #9 |
| R99 | 477 | New Abbreviations and Definitions for R99 | SA #9 |
| R00 | 484 | Correction to LCS Service Description Stage 1 Document (R'00) | SA #9 |
| R99 | 485 | Correction to LCS Service Description Stage 1 Document (R'99) | SA #9 |
| R99 | 501 | Codes for defined Supplementary Services | SA #9 |
| R99 | 506 | Removal of user interaction at answer DPs (Release 99) | SA #9 |
| R00 | 507 | Proposed CR to 22.078 Section 6 for IP Telephony in CAMEL Phase 4 | SA #9 |
| R00 | 508 | Proposed CR to 22.078 Section 1 for IP Telephony in CAMEL Phase 4 | SA #9 |
| R00 | 509 | Proposed CR to 22.078 Section 4 for IP Telephony in CAMEL Phase 4 | SA #9 |
| R00 | 510 | Introduction of MT SMS interworking with CAMEL4 | SA #9 |
| R00 | 511 | Proposed CR to 22.078 Section 3 for IP Telephony in CAMEL Phase 4 | SA #9 |
| R00 | 512 | Removal of tags associated with previous releases of CAMEL | SA #9 |
| R00 | 513 | Introduction of IPT for CAMEL4 | SA #9 |
| R00 | 514 | Inclusion of Mid call event | SA #9 |
| R00 | 515 | Inclusion of flexible tone injection | SA #9 |
| R00 | 537 | Reselection attempts of GPRS terminals | SA #9 |
| R00 | 539 | LCS for Rel 2000 | Email, ad hoc |
| R99 | 540 | GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2) | SA #9 |
| R99 | 548 | Alignment with 23.122 on selection procedure | SA #9, Email, 5weeks approval |
| R00 | 549 | Alignment with 23.122 on selection procedure | SA #9, Email, 5weeks approval |

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| | | | |
|-----|-----|------------------------------------------------------------------------------------|--------------------------------------|
| R99 | 561 | 32 kbit/s UDI/RDI multimedia in GSM | CN3, GERAN, SA #9 |
| R00 | 564 | Realisation of Application interface | SA #9 |
| R00 | 565 | VHE release 2000 | SA #9 |
| R00 | 566 | User profile | SA #9 |
| R00 | 569 | Synchronisation of distributed user profiles | SA #9 |
| R00 | 570 | Uniquely addressable user profiles | SA #9 |
| R00 | 571 | VASP indirect support of VHE | SA #9 |
| R00 | 573 | Emergency Call | SA #9 |
| R99 | 574 | Removal of requirements for SoLSA support | SA #9 |
| R00 | 583 | Roaming | R00 ad hoc |
| R99 | 584 | Interaction with Multicall | SA #9 |
| R99 | 585 | Interaction with MSP | SA #9 |
| R00 | 587 | CR on CLI presentation modifications | SA #9 |
| R00 | 589 | Support of Location Services in UMTS Release 2000 | Email ad hoc |
| R99 | 590 | Removal of PTM-G text from stage 1 | SA #9 |
| R99 | 592 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Email-end August |
| R00 | 595 | Deletion of bearer service BS 30 NT | SA #9 |
| R00 | 596 | Charging notification | Email |
| R00 | 597 | Numbering Principles | SA #9 |
| R00 | 598 | Editorial changes to 22.101 for Release 2000 | SA #9 |
| R00 | 600 | Emergency Calls and Global Text Telephony | SA1 #10 |
| R00 | 603 | Multimedia messaging | SA #9 |
| R00 | 604 | Roaming | R00 ad hoc |
| R00 | 605 | Service Management requirements | SA#9 |
| R00 | 613 | Bearer Modification without pre-notification | SA #9 |
| R00 | 615 | Introduction of Call Party Handling | CAMEL ad hoc |
| R00 | 617 | Handover requirements for release 2000 | R00 Work Planning ad-hoc, TSG SA WG2 |
| R00 | 618 | General corrections and clarifications to 22.101 for Release 2000 | SA #9 |
| R00 | 620 | Service evolution | SA #9 |
| R00 | 621 | IP multimedia session for Emergency call | SA #9 |
| R00 | 622 | IP multimedia services | SA #9 |
| R00 | 624 | Subscription | R00 ad hoc |
| R00 | 625 | Classification of services | SA #9 |
| R00 | 626 | Mobile Execution Environment | SA #9 |
| R00 | 627 | Change of Name of MExE | SA #9 |
| R00 | 628 | MExE support of multimedia services | SA #9 |
| R00 | 629 | Release 2000 features | SA #9 |
| R00 | 631 | Handling of interactions between applications requiring the access to UE resources | SA #9 |
| R99 | 632 | End to end delay | Email |
| R00 | 637 | Change of MExE name | SA #9 |
| R00 | 638 | Change of MExE name | SA #9 |
| R00 | 639 | Change of MExE name | SA #9 |
| R00 | 640 | Change of MExE name | SA #9 |
| R00 | 641 | Bearer Modification without pre-notification | SA #9 |
| R00 | 642 | CR on TS22.001 for Bearer Modification without pre-notification | SA #9 |
| R00 | 649 | Additions to 22.101 for Global Text Telephony | Email |

Specs

| Release | Doc No | Title | To |
|---------|--------|-------|----|
|---------|--------|-------|----|

| | | | |
|-----|-----|-----------------------------------------------------|-------|
| R00 | 650 | Global Text Telephony, Stage 1 description (22.226) | Email |
|-----|-----|-----------------------------------------------------|-------|

Email of issues dealt with in meeting

| Rel ease | Doc No | Title | To |
|----------|--------|------------------------------------------------------------------------------------|-------------------------------|
| R00 | 539 | LCS for Rel 2000 | Email, ad hoc |
| R99 | 548 | Alignment with 23.122 on selection procedure | SA #9, Email, 5weeks approval |
| R00 | 549 | Alignment with 23.122 on selection procedure | SA #9, Email, 5weeks approval |
| | 556 | LS on multimode terminals (421) | Email |
| R00 | 589 | Support of Location Services in UMTS Release 2000 | Email ad hoc |
| R99 | 591 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Email-end August |
| R99 | 592 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Email-end August |
| R99 | 593 | LS on Multicall: Removal of the Requirement on the Network to Tear Down Calls | Email-end August |
| R00 | 596 | Charging notification | Email |
| R99 | 632 | End to end delay | Email |
| R00 | 645 | LS to SA on Handling of emergency call | Email |
| R00 | 647 | Scope of Open Interface for Service Provision | Email |
| R00 | 649 | Additions to 22.101 for Global Text Telephony | Email |
| R00 | 650 | Global Text Telephony, Stage 1 description (22.226) | Email |
| | 651 | Recall Capability for Emergency call | Email |

Email of issues NOT dealt with in meeting

| Rel ease | Doc No | Title | To |
|----------|--------|--------------------------|----|
| | 652 | Report of SA1 meeting #9 | |

Ad Hocs

| Rel ease | Doc No | Title | To |
|----------|--------|---------------------------------------------------|--------------------------------------|
| R00 | 494 | Network Selection | ad hoc Network Slection |
| R00 | 539 | LCS for Rel 2000 | Email, ad hoc |
| R00 | 583 | Roaming | R00 ad hoc |
| R00 | 589 | Support of Location Services in UMTS Release 2000 | Email ad hoc |
| R00 | 604 | Roaming | R00 ad hoc |
| R00 | 615 | Introduction of Call Party Handling | CAMEL ad hoc |
| R00 | 617 | Handover requirements for release 2000 | R00 Work Planning ad-hoc, TSG SA WG2 |
| R00 | 624 | Subscription | R00 ad hoc |

Approved Liaison statements

| Rel ease | Doc No | Title | To |
|----------|--------|------------------------------------------------------------------------------|----------|
| R00 | 428 | MExE Release 2000 | SA #9 |
| R00 | 492 | Proposed reply to LS on S2 work schedule | SA2 |
| R00 | 503 | Reply to: Liaison statement on Service Modification without Pre-Notification | CN3, SA2 |
| | 556 | LS on multimode terminals (421) | Email |
| | 557 | LS to T3 on Storage of URL bookmarks on the | T3 |

| | | | |
|-----|-----|------------------------------------------------------------------------------------|-----------------------------------------------|
| | | UICC/USIM | |
| | 558 | LS on Security issues with ME user input and DTMF tones | T3, T2, S3 |
| | 562 | Usage of SIM PLMN Selector Lists | NewSMG9 |
| | 563 | LS to CN4 on Hexadecimal IMEIs | SA, CN, RAN, T |
| | 567 | Proposed LS on support of VHE user profile | T2 SWG1, S2 VHE OSA, N2, WAP WAG Sync, T3, S3 |
| | 576 | On 22.976 to SMG2 | SMG2/TSG GERAN |
| R99 | 591 | Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall | Email-end August |
| R99 | 593 | LS on Multicall: Removal of the Requirement on the Network to Tear Down Calls | Email-end August |
| | 607 | LS to T2 on Instant Messaging | T2 |
| R99 | 609 | Reply to the LS on "Priority of ME resources for WAP and SIM toolkit applications" | NewSMG9, T2, T3, WAP forum |
| R00 | 610 | LS on Multimedia messaging service (MMS) support of VHE in release 2000 | T2 |
| | 611 | LS on issues and concerns associated with providing call control applications | TSG-SA, T2 |
| R00 | 616 | LS to SA2 responding to Comments to 22.976 v1.4.0 | S2 |
| | 623 | Liaison statement to SERG on Operator Determined Barring | SERG |
| R00 | 630 | LS to T3 on SAT/USAT Control of IP Multimedia Services | T3 |
| R00 | 645 | LS to SA on Handling of emergency call | Email |
| | 648 | Proposed LS to TSG SA WG 2 on OISP work Schedule, from 545 | SA2 |
| | 651 | Recall Capability for Emergency call | Email |

12 Future meetings

| Document Number | Title | Source |
|-----------------|---------------------------------------------------|----------|
| 541 | Suggested dates for future plenary meetings of S1 | Chairman |

The meeting schedule, as provided in document S1-000541, was reviewed in the meeting. Proposals for hosts would be gratefully received.

| | | |
|------------|-----------------------|-------------------------------|
| S1#10 | 13-17 November 2000 | Orlando, USA |
| S1#11 | 5-9 February 2001 | Host needed |
| S1#12 | 7-11 May 2001 | Provisional offer for Finland |
| S1#13 | 9-13 July 2001 | North America |
| S1#14 | 29 Oct. - 2 Nov. 2001 | Host needed |
| LCS ad hoc | 14 -15th August | Austin, Texas |

13 Closure of Meeting

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

The secretary indicated that he had gone mad!

ANNEX A – Table of documents

| Doc. No. | Title | Source | Doc Pack |
|----------|---------------------------------------------------------------------------------------------------------|---------------------|----------|
| 343 | CR to 22.060 R'99 to delete support for X.25 | Lucent | DP1 |
| 365 | CR to 22.060 on Registration procedures for R'99 | Lucent | DP1 |
| 366 | CR to 22.060 on Registration procedures for R'00 | Lucent | DP1 |
| 372 | Report of SA1 meeting #8 | MCC | DP1 |
| 373 | Agenda for SA1 meeting #9 | MCC | DP1 |
| 374 | Report of SA meeting #8 | | DP1 |
| 375 | Email summary | MCC | DP1 |
| 376 | Answer to LS on Call/Session Priorities in a Multicall Scenario (R3-001165) Copied to SA1 | RAN3 | DP1 |
| 377 | Response to LS (S1-000103) on UE/MS idle mode operation (R2-000945) | RAN2 | DP1 |
| 378 | LS on Multimedia messaging service (MMS) support of VHE in release 2000 | T2 | DP1 |
| 379 | Response to LS (S1-991077) on SoLSA support on UTRAN (R2-000929) | RAN2 | DP1 |
| 380 | Response to LS (S2-000584) on Call/Session Priorities in a Multicall Scenario (R2-000909) Copied to SA1 | RAN2 | DP1 |
| 381 | Global Text Telephony work item proposal (from 337) | Rapporteur | DP1 |
| 382 | Updated report of SA1 meeting #8 | MCC et al | DP1 |
| 383 | Report from R2000 ad hoc in Las Vegas | R'00 ad hoc | DP1 |
| 384 | LS to other working groups on Distribution of TR 22.976 | R'00 ad hoc | DP1 |
| 385 | Resultant TR from the ad hoc | R'00 ad hoc | DP1 |
| 386 | Proposed S1 R00 work plan | R'00 ad hoc | |
| 387 | IP Network Roaming Requirements Optimised Call Routing | Motorola | DP1 |
| 388 | IP Multimedia Roaming Requirements (General) | Motorola | DP1 |
| 389 | Response to liaison statement on hexadecimal IMEI format (S1-000370) (R2-001156) | RAN 2 | DP1 |
| 390 | CR to 22.078 R99 on Removal of Editor's notes and corrections to Annex 1 | Lucent Technologies | DP2 |
| 391 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services | Vodafone AirTouch | DP2 |
| 392 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services rev2 | Vodafone AirTouch | DP2 |
| 393 | CR to 22.078 R99 on Definition of Geodetic Information | Vodafone AirTouch | DP2 |
| 394 | CR to 22.078 R99 on Correction to CAMEL interworking with GPRS | Ericsson | DP2 |
| 395 | CR to 22.078 R99 on Corrections to Interactions with Supplementary Services rev3 | Vodafone AirTouch | DP2 |
| 396 | CR to 22.078 R99 on Removal of question marks from the A.1 information flow table | Nokia | DP2 |
| 397 | CR to 22.078 R99 on Definition of Geodetic Information rev1 | Vodafone AirTouch | DP2 |
| 398 | CR to 22.078 R99 on Distinction between initial and subsequent service events | Vodafone Airtouch | DP2 |
| 399 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS | Ericsson | DP2 |
| 400 | CR to 22.078 R99 on Restriction on charging Thresholds | Ericsson | DP2 |
| 401 | CR to 22.078 R99 on Update of CAMEL roaming issues (section 16) | Nokia | DP2 |
| 402 | CR to 22.078 R99 on Definition of Geodetic Information Rev 2 | Vodafone Airtouch | DP2 |
| 403 | CR to 22.078 R99 on Distinction between initial and subsequent service events rev 1 | Vodafone Airtouch | DP2 |
| 404 | CR to 22.078 R99 on Update of CAMEL roaming issues (section 16) rev 1 | Nokia | DP2 |
| 405 | Nokia wish list for CAMEL phase 4 in R2000 | Nokia | DP2 |
| 406 | CR to 22.078 R00 on Introduction of MT SMS interworking with CAMEL 4 | Nokia | DP2 |
| 407 | CR to 22.078 R00 on CAMEL Phase 4 Call Party Handling | Nokia | DP2 |
| 408 | CR to 22.078 R00 on CAMEL4 & IPT services; address information & registration | Nokia | DP2 |

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| | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|
| 409 | SBC proposal for CAMEL Phase 4 Features in R2000 | SBC Comms | DP1 |
| 410 | Proposal for CAMEL Phase 4 Features in R2000 | Manesmman | DP2 |
| 411 | CR to 22.078 R00 on Charging enhancements for circuit switched calls | Ericsson | DP2 |
| 412 | CR to 22.078 R00 on Introduction of MT SMS interworking with CAMEL 4 rev1 | Ericsson | DP2 |
| 413 | CR to 22.078 R00 on CAMEL support of Optimal routing for Mobile-to-mobile calls | Vodafone AirTouch | DP2 |
| 414 | CR to 22.078 R00 on CAMEL Phase 4 Call Party Handling rev1 | Nokia | DP2 |
| 415 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS re3 | Nokia | DP2 |
| 416 | CR to 22.078 R00 on CAMEL support of Optimal routing for Mobile-to-mobile calls rev1 | Vodafone AirTouch | DP2 |
| 417 | CR to 22.078 R00 on CAMEL support of Optimal routing for Mobile-to-mobile calls rev2 | Vodafone AirTouch | DP2 |
| 418 | LS to CN on Features of CAMEL phase 4 in the release 2000 | ad hoc | DP1 |
| 419 | Report of CAMEL ad hoc held in Sophia Antipolis | Chairman ad hoc | DP2 |
| 420 | LS from S2 on Comments on TR 22.976 v 1.4.0 | SA2 | DP1 |
| 421 | Guidance on future work for T2 SWG5, Multi-mode terminals | T2 | DP1 |
| 422 | LS on introduction of Instant Messaging in MMS | T2 | DP1 |
| 423 | MMS Stage 1, 22.140 V3.0.0 alignment with MMS Stage 2, 23.140 V3.0.1 | T2 | DP1 |
| 424 | R99 alignment to stage 2 | T2 | DP1 |
| 425 | T2 comments on RAN3 decisions related to CBS (T2-000254) | T2 | DP1 |
| 426 | LS on Proposed TSG-T WG3 work item for use of local link (RS232, Bluetooth, USB, Irda) as a bearer for USIM Application Toolkit (T2-000335) copy SA1 | T2 | DP1 |
| 427 | LS Reply to Questions on "MExE support of VHE User Profiles" (T2-000332) | T2 SWG2 | DP1 |
| 428 | MExE Release 2000 | TSG-T2 MExE | |
| 429 | Originator-to-Dispatcher Information for VGCS and VBS | STF 139 | DP1 |
| 430 | Introduction of Originator-to-dispatcher information into VGCS | STF 139 | DP1 |
| 431 | Introduction of Originator-to-dispatcher information into VBS | STF 139 | DP1 |
| 432 | Deletion of note | MCC | DP1 |
| 433 | Liaison statement on Global solution of "Cause of no CLI" | CN1 | DP1 |
| 434 | North American Service Provider Number Portability impacts for Mobile Number Portability | CN4 | DP1 |
| 435 | Proposed reply to LS on Guidance on future work for T2 SWG5, Multi-mode terminals (Copied to SA1) (2-001128) | SMG2 | DP1 |
| 436 | Draft LS on the use of TR 22.976 for the GERAN release 2000 work (2-001222) | SMG2 | DP1 |
| 437 | Liaison statement on hexadecimal IMEI | N4 | DP1 |
| 438 | Answer to LS on Guidance on future work for T2 SWG5, Multi-mode terminals (S2-001047) copied to SA1 | S2 | DP1 |
| 439 | Response to LS on usage of terms GSM, UMTS and GERAN | N1 | DP1 |
| 440 | LS on Service Modification without pre-notification | N3 | DP1 |
| 441 | IMEI coding | Nokia | DP1 |
| 442 | Access dependent services | Nokia | DP1 |
| 443 | Cause for no CLI | Nokia | DP1 |
| 444 | LS back on Global solution of "Cause of no CLI" | N4 | DP2 |
| 445 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS | Ericsson | DP2 |
| 446 | WID for Scope of VHE in Release 2000 | VHE ad hoc | DP2 |
| 447 | WID for Scope of Open Interface for Service Provision in Release 2000 | VHE ad hoc | DP2 |
| 448 | Response to LS (R2-000945), LS TSG S1 (00) 103 on UE/MS idle mode operation and LS TSG S1 (00) 368 on PLMN selection | N1 | DP2 |
| 449 | LS providing Comments to 22.976 v1.4.0 | N3 | DP2 |
| 450 | LS on Response to "Liaison statement on hexadecimal IMEI format" | R3 | DP2 |
| 451 | LS on Storage of URL bookmarks on the UICC/USIM | T3 | DP2 |
| 452 | LS on Security issues with ME user input and DTMF tones | T3 | DP2 |
| 453 | TTY | T1P1 | DP2 |
| 454 | Speech Codec speech processing functions Cellular Text Telephone Modem; General Description | T1P1 | DP2 |
| 455 | Cellular Text Telephone Modem; Description of the fixed point C-Code | T1P1 | DP2 |

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| | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|
| 456 | PLMN search and access technology lists | New SMG9 | DP2 |
| 457 | Response to LS on non ciphered calls for GPRS | New SMG9 | DP2 |
| 458 | Priority of ME resources for WAP and SIM toolkit applications | New SMG9 | DP3 |
| 459 | Usage of SIM PLMN Selector Lists | New SMG9 | DP3 |
| 460 | Response to LS TSGS1#8(00)245 on the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list | N1 | DP3 |
| 461 | Information on VHE/OSA (Copy S1) | S2 | DP3 |
| 462 | Answer to LS "Multimedia messaging service (MMS) support of VHE in release 2000" | S2 | DP3 |
| 463 | LS on event driven Location information | S2 | DP3 |
| 464 | Answer to Liaison Statements on VHE User Profiles | S2 | DP3 |
| 465 | Comments on TR 22.976 v 1.4.0 | S2 | DP3 |
| 466 | New OSA Stage 1 | Siemens | |
| 467 | Proposed deletion of BS 30 NT | Siemens | |
| 468 | Revised New OSA Stage 1 | Siemens | |
| 469 | CR on CLI presentation modifications | Siemens | |
| 470 | LS on interworking of low chiprate TDD with GSM, high chiprate TDD and FDD | RAN | DP3 |
| 471 | Editorial modification for R99 on definitions and abbreviations | Vodafone | |
| 472 | Editorial modification for R00 on definitions and abbreviations | Vodafone | |
| 473 | Report of Goodwood ad hoc | Chairman ad hoc | |
| 474 | Service requirements for the IP Multimedia Core Network Subsystem (Stage 1) | R00 ad hoc | |
| 475 | Global Text Telephony, Status report and issues | Ericsson | |
| 476 | Global Text Telephony, Stage 1 description (22.226) | Ericsson | |
| 477 | New Abbreviations and Definitions for R99 | Rapporteur | |
| 478 | Instant Messaging in 3GPP | Comverse | |
| 479 | Introduction of Instant Messaging Capabilities to MMS | Comverse | |
| 480 | CAMEL Phase 4 Priorities | SBC | |
| 481 | LS to 3GPP TSG SA WG 1 on Voicemail platform standardisation | GSM Association SERG | |
| 482 | Affected TS for Bearer Modification without pre-notification | NEC | |
| 483 | CR on TS22.001 for Bearer Modification without pre-notification | NTT DoCoMo, NEC | |
| 484 | Correction to LCS Service Description Stage 1 Document (R'00) | Qualcomm | |
| 485 | Correction to LCS Service Description Stage 1 Document (R'99) | Qualcomm | |
| 486 | Minutes of the VHE #1 meeting in London | VHE ad hoc | |
| 487 | Minutes of the VHE #2 meeting in London | VHE ad hoc | |
| 488 | Modified VHE WID | VHE ad hoc | |
| 489 | Realisation of Application interface | VHE ad hoc | |
| 490 | User profile | VHE ad hoc | |
| 491 | VHE release 2000 | VHE ad hoc | |
| 492 | Proposed reply to LS on S2 work schedule | VHE ad hoc | |
| 493 | Proposed LS on support of VHE user profile | VHE ad hoc | |
| 494 | Network Selection | MMO | |
| 495 | The Problem of User Identification | STF 157 | |
| 496 | User Identification solutions in converging networks | STF 157 | |
| 497 | Liaison statement regarding IMEI format for UMTS | GSM A SG | |
| 498 | Proposed LS to 3GPP T2 on MMS use cases (see document SERG105-00) | GSM A SERG | |
| 499 | Interaction with Multicall | NTT DoCoMo | |
| 500 | Interaction with MSP | NTT DoCoMo | |
| 501 | Codes for defined Supplementary Services | NTT DoCoMo | |
| 502 | Zone | NTT DoCoMo | |
| 503 | Reply to: Liaison statement on Service Modification without Pre-Notification | NTT DoCoMo | |

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| | | | |
|-----|---------------------------------------------------------------------|-----------------------|--|
| 504 | Handling of emergency call | Vodafone | |
| 505 | CAMEL Ad Hoc meeting report | Rapporteur | |
| 506 | Removal of user interaction at answer DPs (Release 99) | Nokia | |
| 507 | Proposed CR to 22.078 Section 6 for IP Telephony in CAMEL Phase 4 | BT | |
| 508 | Proposed CR to 22.078 Section 1 for IP Telephony in CAMEL Phase 4 | BT | |
| 509 | Proposed CR to 22.078 Section 4 for IP Telephony in CAMEL Phase 4 | BT | |
| 510 | Introduction of MT SMS interworking with CAMEL4 | Nokia | |
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| 652 | Report of SA1 meeting #9 | MCC | |

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