Technical Specification Group Services and System Aspects
Meeting #8, Düsseldorf, Germany, 26-28 June 2000

*TSGS#8(00) 191*

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| **Source:** | **Chairman, Secretary S1** |
| **Title:** | **Status Report of SA_WG1 (Services)** |
| **Document for:** | **Information and Decision** |
| **Agenda Item:** | **6.1.1** |

## TSG SA1 STATUS REPORT

# 1 General Overview of Progress

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

Out of necessity, the group has been focussing on completing Release 99 together with addressing feedback from other working groups. There was also a review of the work required for Release 2000 to which end SA1 has produced a TR (see below).

# 2 Summary of Inputs to SA

The list of documents submitted is attached in Annex 3, and the details are summarised here for clarity.

## 2.1 Specifications/Reports

One report is submitted to SA for **Approval**.

The report submitted to SA for **Approval** is:-

TR 22.976 version 1.5.0 Release 2000; Study on release 2000 services and capabilities (see 3.6 and SP-000215)

## 2.2 Change Requests

S1 in this period has generated a number of change requests that reflect a series of clarifications and corrections, especially to ensure a coherent Release 99.

Change requests to GSM specifications that are also transferred into 3GPP are included, even if they impact earlier releases and in these cases, the CR has been indicated to SMG plenary for information. Clearly, changes affecting Release 99 in the 22.xxx series are the responsibility of SA, but those relating to 02.0xx have been informed to SMG. Any change to an 02.xx specification not transferred to 3GPP is considered out of scope of this SA plenary and has been submitted to SMG for approval.

Whilst this section deals with Release 99, where resultant CRs to Release 2000 specifications are required, they are included in this section for completeness.

### 2.2.1 Bearer Services Supported by a PLMN (22.002)

SA1 has received some correspondence from CN3 regarding the bearer services supported as listed in 22.002. This is by way of clarification as CN3 has the opinion that the user rate 33.6 for NT interworking with 3.1 kHz should not be in Section 3.1.1 and proposes to remove the corresponding row of the table. The reason is that this service is already covered by the last row of the table, i.e., by auto bauding.

More importantly, however, CN3 raise up the question whether in UMTS only user rates of 9,6 kbit/s and higher should be supported for non-transparent services. The reason for this is that the provision of 28,8 or 33,6 kbit/s by V.34 modems is a widely available and used technique in PSTNs.

Nonetheless, CN3 sees also the need to support user rates less than 9,6 kbit/s towards the fixed network for dedicated situations (e.g. there might be old modems in operation) or applications need the provision of lower user rates.

These user rates need not to be supported in the PLMN, but towards the fixed network only. Using non-transparent data services, the user rates in the PLMN and in the fixed network may differ because of flow control mechanisms used for these services. Lower user rates in the fixed network can be mapped to 9,6 kbit/s in the PLMN using an RAB for 14,4 kbit/s.

This approach avoids the implementation of these lower user rates within the PLMN towards the Mobile Station. Also the development of new Radio Access Bearers needed for the lower user rates can be avoided. It also reduces the effort needed to provide handover between GSM and UMTS. Further it takes into consideration the market situation.

It is uncertain if all the work can be completed in R'99, but based on CN3's request, SA1 has elaborated the CR to 22.002 to implement this change. It is presented in document 192/00.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000192 | S1-000274 | 22.002 | 006 | | R99 | F | Lower User Rates in UMTS for Circuit Switched Data Services | 3.3.0 | 3.4.0 |

## 2.2.2   Access Control Classes & Network Selection (22.011)

SA1 received a CR to 22.011 on network selection and the possibility for the user to select the priority of "User controlled PLMN selector" and "Operator controlled PLMN selector".

This was discussed in SA#7 where the requirement for Network selection was noted although there was strong support for this feature. At SA#7 it was indicated that if a full set of CRs are provided to all relevant specifications, the function may be considered for inclusion in R99 in June 2000. TSG SA did not take any position on the acceptability or non-acceptability of this CR. Interested members can present the CR to SA WG1 for consideration.

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

SA1 has sent the proposed CR to N1 T2 (for information) T3 and SMG9 asking for the work to be done to complete the package. SA1 is presenting the CR in document SP-000193. It is understood that both N1 and T3 have addressed this issue, and the package should have been prepared.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000193 | S1-000244 | 22.011 | 015 | 1 | R99 | B | Network Selection | 3.2.0 | 3.3.3 |

SA1 has received a liaison statement from (3GPP) T1 indicating that due to resource limitations, they will not be possible to include further test cases, to cover these new requirements, in the release 99 documents. T1 would however welcome relevant contributions from the member companies who feel that test coverage of these issues in release 99 is important. SA1 asks the plenary to note this.

Once again, the issue of network selection in country border regions has arisen. SA1 has discussed various contributions for R'00 on this subject. This is a problem that has dogged GSM for many years and the standardised solutions over the years have been far from satisfactory. It may well be better to use a more sophisticated solutions based perhaps on CAMEL and SAT in the future. Nothing is presented at this meeting, but it is possible that an input will be forwarded to SA in the future.

However, in the course of discussions, it was noted that 22.101 does contain some text related to network selection (section 16). Since the most appropriate place to refer to this is 22.011, it has been decided to remove the section and refer instead to 22.011.

The CRs to do this for R'99 and R'00 are presented in document SP-000210.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000210 | S1-000271 | 22.101 | 033 | | R99 | D | Network selection procedures removed from section 16, reference to 22.011 added | 3.9.0 | 3.10.0 |
| SP-000210 | S1-000270 | 22.101 | 034 | | R00 | D | Network selection procedures removed from section 16, reference to 22.011 added | 3.9.0 | 4.0.0 |

On another note, RAN2 has sent a liaison statement which was copied to SA1 regarding network selection. It is evident from the LS that RAN2 appear to have implemented the conclusions in accordance with the conclusion of the Network Selection Workshop held in June 99 and has not taken any notice of the SA1 requirements.

However, it should be noted that when the Sophia Workshop was held, the service requirements had not yet been clarified. As the conclusions of the Sophia Workshop state it, No specific conclusion [ on PLMN selection mechanisms] for UMTS was reached during the workshop. The service requirements were clarified during S1#6 (November-December 99) and SMG9/T3 have aligned their respective specifications.

A liaison statement has been sent to RAN2 and SA1 awaits developments.

### 2.2.3 International Mobile Equipment Identities (IMEI) (02.16, 22.016)

There is a note in 02.16 and 22.016 regarding the applicability of IMEI security to phase 2 and the various releases. At the last SA1 meeting it was suggested to remove the information about phases and releases. This was agreed and the CRs below are presented SA#8 for approval.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|

| SP-000194 | S1-000263 | 02.16 | A009 | | P2 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 4.6.0 | 4.7.0 |
|---|---|---|---|---|---|---|---|---|---|
| SP-000194 | S1-000265 | 02.16 | A010 | | R96 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 5.1.0 | 5.2.0 |
| SP-000194 | S1-000261 | 02.16 | A011 | | R97 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 6.1.0 | 6.2.0 |
| SP-000194 | S1-000262 | 02.16 | A012 | | R98 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 7.1.0 | 7.2.0 |
| SP-000194 | S1-000266 | 22.016 | 004 | | R99 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 3.1.0 | 3.2.0 |
| SP-000194 | S1-000264 | 22.016 | 005 | | R00 | D | Modification of section 2 to delete unnecessary information about phases and releases removed | 3.1.0 | 4.0.0 |

SA1 also received a proposal to increase the range of possible IMEIs under a given TAC and FAC allocation. It was argued that the serial number length does not allow for a sufficient number of IMEIs and the proposal put forward a different coding scheme (hexadecimal) to increase the range.

Whilst SA1 could see some merit in this, it was not know what the impact of changing the coding would be. This was referred to SA5, SA3, CN1 and CN4 and T2 in a liaison statement.

There has been support from RAN2 and RAN3 has approved a change request (25.413-112r1) of the RANAP IMEI coding to hexadecimal from present TBCD coding for R99. RAN3 have also asked S1 to find out if this change would be appropriate already for R99 with other relevant WG's and co-ordinate the changes between those WG's.

However, CN4 has suggested that the annex A of 22.016 should not be in the stage 1. Therefore, SA1 is presenting a CR in document SP-000195 to remove this annex. It is now left to RAN3 and CN4 to decide if the coding should change. For SA1, the issue is to remove the annex from 22.016 in R'99.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000195 | S1-000441 | 22.016 | 003 | 1 | R99 | F | IMEI coding | 3.1.0 | 3.2.0 |

### 2.2.4   SIM Application Toolkit (22.038)

It was noted after SA1 that a note is included in 22.038 which makes reference to a technical specification to be written by T2. Once the specification was written, the note should be replaced by a reference to the new specification.

At the last T2 meeting, it was decided that it is not going to be possible to complete this technical specification in the short timescales available for R'99. Therefore, it is proposed to delete the note for R'99 and add a reference for R'00 once the specification is completed.

The CR to do this is presented in document SP-000196.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000196 | S1-000432 | 22.038 | 003 | | R99 | F | Deletion of note to non-existent TS | 3.1.0 | 3.2.0 |

## 2.2.5  GPRS (22.060)

### Support of PDP Types X.25 and OSP

For some time correspondence has passed between SA1 and SA2 regarding the removal of X.25 support from Release 99 onwards. It is understood that SA2 have removed this from the Stage 2. Moreover, SA1 has received a liaison statement from CN3 confirming that they have removed X.25 and PSTN/ISDN interworking from their specifications.

Therefore SA1 is presenting CRs to the Stage 1 to remove X.25.

Additionally CN3 have recommended the removal of IHOSS and PDP type OSP. Since after checking, there were no negative comments, SA1 has agreed to delete the support for IHOSS and OSP.

The CRs are provided in document SP-000197.

### Registration to External networks

In the course of discussions between SA1, SA2 and CN3 regarding registration to external networks, it was noted that the procedures for registration are not correctly encapsulated in the stage 1. Whilst this applies to all releases, it was decided only to change R'99 and R'00.Therefore the rapporteur has elaborated appropriate CRs, which have been agreed by SA1.

They are presented for approval in document SP-000197.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000197 | S1-000340 | 02.60 | A026 | | R98 | C | Deletion of IHOSS (Point to Point Octet Stream Service) | 7.4.0 | 7.5.0 |
| SP-000197 | S1-000341 | 22.060 | 012 | | R99 | C | Deletion of IHOSS (Point to Point Octet Stream Service) | 3.3.0 | 3.4.0 |
| SP-000197 | S1-000342 | 22.060 | 013 | | R00 | C | Deletion of IHOSS (Point to Point Octet Stream Service) | 4.0.0 | 4.1.0 |
| SP-000197 | S1-000343 | 22.060 | 014 | | R99 | C | Removal of X.25 support from Release 99. | 3.3.0 | 3.4.0 |
| SP-000197 | S1-000344 | 22.060 | 015 | | R00 | C | Removal of X.25 support from Release 99. | 4.0.0 | 4.1.0 |
| SP-000197 | S1-000365 | 22.060 | 016 | | R99 | C | Clarification of support of registration to external networks | 3.3.0 | 3.4.0 |
| SP-000197 | S1-000366 | 22.060 | 017 | | R00 | C | Clarification of support of registration to external networks | 4.0.0 | 4.1.0 |

## 2.2.6  CAMEL (22.078)

The major work of CAMEL has been alignment between the stage 1 and the stages 2 and 3. Moreover, much hangs on the ability of CN5 to implement the signalling. Based on this the following CRs are presented.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000198 | S1-000232 | 22.078 | 037 | | R99 | F | Correction to the reduced scope of CAMEL Phase 3 in release 99 – enhancements to call forwarding | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000247 | 22.078 | 038 | | R99 | F | Correction to the reduced scope of CAMEL Phase 3 in release 99 – deletion of MexE / SAT free format data parameter in Annex A.1 | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000251 | 22.078 | 039 | | R99 | F | Correction to description of subscriber dialled services | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000252 | 22.078 | 040 | | R99 | F | Clarification for conditional triggering for subscribed dialled services | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000255 | 22.078 | 041 | | R99 | C | Removal of NPI from conditional triggering | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000395 | 22.078 | 042 | | R99 | D | Corrections to Interactions with Supplementary Services | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000396 | 22.078 | 043 | | R99 | D | Removal of question marks from the A.1 information flow table | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000402 | 22.078 | 044 | | R99 | D | Definition of Geodetic Information | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000403 | 22.078 | 045 | | R99 | D | Distinction between initial and subsequent service events | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000404 | 22.078 | 046 | | R99 | D | Update of CAMEL roaming issues (section 16) | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000390 | 22.078 | 047 | | R99 | D | Removal of Editor's notes and corrections to Annex 1 | 3.3.0 | 3.4.0 |
| SP-000198 | S1-000445 | 22.078 | 048 | 2 | R99 | D | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS re3 | 3.3.0 | 3.4.0 |

### 2.2.7   Calling Line Identity (22.081)

TSG-CN and TTC have discussed how to indicate different reasons due to which the CLI is not presented to the B party. During the discussion it was found out that such a feature can be supported to some extent with existing "Line Identification" supplementary service, described in 22.081. In TTC meeting original proposal was accepted without any objection, but afterwards is was suggested that changes be brought to 3GPP. Both CN1 and CN have discussed the issue and to be agreed to included in R99 if finalised before next TSG plenaries.

Therefore CR 22.081-003 is being presented for approval in document SP-000199. Attached CR is proposed to be approved conditionally as there might be need for further changes as stage 2 and 3 are finalised.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000199 | S1-000443 | 22.081 | 003 | | R99 | B | Access dependent services | 3.1.0 | 3.2.0 |

### 2.2.8   Emergency Calls (in 22.101)

SA1 spent some time resolving a problem with emergency calls in 22.101. A proposal was received to provide for more emergency numbers as examples. In particular it was noted that only one Japanese emergency number is included and the proposal was to add the rest. However, to do this, would affect customer service numbers in Finland and Italy.

After some careful deliberation is was noted that:

? Emergency numbers in the mobile only take precedence if there is no SIM or no emergency numbers stored on the SIM.

? The clashes with Finland and Italy occur with customer service numbers which require a SIM to be effective.

? If there are numbers on the SIM, then these will be translated as an emergency call set-up and not access to the customer service numbers.

? As Japan introduces SIMs, it can be ensured that the emergency number field is filled.

With the above in mind, a CR has been designed to cater for the request from Japan without the clash with customer service numbers in other countries.

The CR is presented in document SP-000200. An equivalent is also being presented to the R'00 specification.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000200 | S1-000350 | 22.101 | 035 | | R99 | B | Emergency Calls and numbers used | 3.9.0 | 3.10.0 |
| SP-000200 | S1-000351 | 22.101 | 036 | | R00 | B | Emergency Calls and numbers used | 3.9.0 | 4.0.0 |

### 2.2.9 Service Principles (22.101)

SA1 is given to understand that CN1 and CN3 have worked on the introduction of H.324M support for CS multimedia. Based on this CR 22.101-038 is being presented to align the stage 1 with the work done by CN3/CN1. There are no new requirements for release 99.

The CR is presented for approval in document SP-000201.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000201 | S1-000362 | 22.101 | 038 | | R99 | B | CS multimedia support | 3.9.0 | 3.10.0 |

At the last meeting, SA1 received a liaison statement from T3 on Application selection within a USIM. As there is currently no service requirement on the "order" in which the applications shall be selected (e.g. default application first or last used application first) and, in the absence of an MMI specification.

T3 have assumed that since there is currently no text in the stage 1, the order of selection will be up to the terminal manufacturers for R'99. However, The proposal, which was accepted by SA1, is for a change to R'99 in order to maintain consistency across the phases.

The CR agreed by SA1 has been sent to T3 and SMG9 where an equivalent has been agreed in T3 for presentation to T for approval.

The CR 22.101-039 is presented in document SP-000202 for approval.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version- | Version- |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | Current | New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000202 | S1-000326 | 22.101 | 039 | | R99 | F | Clarification for USIM Application selection | 3.9.0 | 3.10.0 |

## 2.2.10 Services & Service capabilities (22.105)

At the last plenary of SA (#7) there was concern over the delay end to end given in 22.105. In section 5.5 of TS 22.105, Supported End User QoS, the end to end delay values are specified as '<150 msec preferred and <400 msec limit'. It should be noted that if a service is offered where the delay approaches this upper limit then the user perception of the service may be poor.

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

Based on this, a CR is being presented in document SP-000203 to add a note to the table to indicate this maximum delay applies to the worst case namely for a mobile to mobile call.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000203 | S1-000364 | 22.105 | 024 | | R99 | F | Clarification of requirement in TS 22.105 for Delay | 3.8.0 | 3.9.0 |
| SP-000203 | S1-000442 | 22.105 | 025 | | R99 | F | Access dependent services | 3.8.0 | 3.9.0 |

## 2.2.11 VHE (22.121)

For a little while now, SA1 has been working on the Prioritisation of VHE Service Capability Features. This has been done in conjunction with S2; a great deal of effort has been spent on the stage 2 VHE/OSA specification (23.127) with the aim to provide an open service architecture, which satisfies the needs of the Virtual Home Environment as addressed in the stage 1 VHE/OSA specification (22.121).

However, not all the requirements have been supported in 23.127 v2.0.0 and SA2 have suggested that the features not supported be postponed to R00. SA1 are given to understand that the stage 2 and stage3 are aligned, and so SA1 is presenting a CRs to reduce the scope of VHE/OSA.

CRs to do this are presented namely to:

? Remove section 10.2.3 "Address Translation SCF";

? Provide a consistent set of documents for release 99 and to align stage 1 with stage 2 by reducing the scope of the VHE/OSA requirements in section 10.1.3 "Registration service capability feature";

? Reduce scope of User Profile Management service capabilities;

? Provide for general alignment of the stage 1 specification to the current scope of the stage 2 document; and,

? Remove instances of "FFS" since this is not applicable to be in a stable document.

These are presented in document SP-000204.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000204 | S1-000267 | 22.121 | 007 | | R99 | C | Modification of section 10.2.6 on reducing the scope of the VHE/OSA reqirements | 3.2.0 | 3.3.0 |
| SP-000204 | S1-000334 | 22.121 | 010 | | R99 | F | Alignment of VHE Stage 1 top VHE/OSA Stage 2 and stage 3 | 3.2.0 | 3.3.0 |
| SP-000204 | S1-000283 | 22.121 | 008 | | R99 | C | Removal of section 10.2.3 Address Translation SCF | 3.2.0 | 3.3.0 |
| SP-000204 | S1-000285 | 22.121 | 009 | | R99 | C | Modification of section 10.2.9 to reduce scope of User Profile Management service capabilities | 3.2.0 | 3.3.0 |

S2 have also proposed that the name of the "Non-Framework service capability features" be changed into *"Network Service Capability Features".* After some discussion SA1 has decided not to accept this and a liaison statement has been sent back to this effect.

### 2.2.12 Multicall (22.135)

The discussions on harmonisation of 22.135 have continued with a number clarifications being passed between WGs.

From SA1's perspective, it is understood that the priority is to align the stage 1 with the stage 2 and to that end the group is taking its lead from T and CN.

Therefore, a CR to 22.135 on Alignment of handover requirements for Multicall, as well as an equivalent CR to 22.0129 are being presented for approval.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000205 | S1-000348 | 22.135 | 005 | | R99 | F | Alignment of handover requirements for Multicall | 3.2.0 | 3.3.0 |
| SP-000205 | S1-000349 | 22.129 | 012 | | R99 | C | Alignment of handover requirements for Multicall | 3.2.0 | 3.3.0 |

### 2.2.13 SoLSA (22.043)

Some clarifications of the requirements and editorial changes have been made to 02.43 and 22.043 on SoLSA to update the Stage 1 for 3GPP use and clarification and align the requirements with release 99 system functionality.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000206 | S1-000324 | 02.43 | A002 | | R98 | F | Clarification of requirements and editorial changes | 7.2.0 | 7.3.0 |
| SP-000206 | S1-000325 | 22.043 | 003 | | R99 | F | Clarification of requirements and editorial changes | 3.0.1 | 3.1.0 |

### 2.2.14 Email approved CRs

In the process of aligning the stage 1 specifications with the stage 2 and 3s, a number of proposals have been received from other groups. Whilst this is not strictly the correct process, it has been decided to accept these CRs in the interest of timing. Therefore, the following CRs have been approved via the SA1 email approval process.

#### 2.2.14.1    Support of Mobile Number Portability (22.066)

This proposal for alignment has been proposed by N4.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000207 | S1-000434 | 22.066 | 003 | | R99 | F | North American Service Provider Number Portability impacts for Mobile Number Portability | 3.1.0 | 3.2.0 |

#### 2.2.14.2    Multimedia Messaging Service (22.140)

This proposal for alignment has been proposed by T2.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000208 | S1-000424 | 22.140 | 002 | | R99 | F | R99 alignment to stage 2 | 3.0.0 | 3.1.0 |

### 2.2.15 3G Vocabulary (21.905)

A number of inputs have been received for 21.905 on 3G vocabulary. Some are adding new definitions and/or abbreviations, others are to clean up the report. They have been combined into one CR (21.905-001) which is presented for approval in document SP-000209.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000209 | S1-000369 | 21.905 | 001 | | R99 | B | New Abbreviations and Definitions for R99, language alignment and editorial changes | 3.0.0 | 3.1.0 |

## 2.3    Release 2000

### 3.2.1   PLMN selection (22.101 and 22.011)

At the last meeting a R'00 CR to 22.011 presented to SA1 concerned reselection attempts of GPRS terminals. The proposed modification gives clarification regarding reselection attempts of GPRS class A or class B terminals; i.e. the text includes class A and B but not class C and rather than adding class C, the change proposes to delete classes A and B. It would appear that there is no text in 22.060 on reselection.

Time has been give for the CR to be checked and it has now been approved over email. The

CR is presented in document SP-000211.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000211 | S1-000335 | 22.011 | 016 | | R00 | B | Reselection attempts of GPRS terminals | 4.0.0 | 4.1.0 |

### 3.2.2 Location Services (22.071)

SA1 continues to receive input from North America on the subject of Location Services. At the last meeting a proposal was received to incorporate value added location services requirements (from GSM-NA service requirements document). Editorial enhancements are also provided as well as addition of support for Velocity parameter in position request response.

These have been combined with other requirement identified in SA1 to form a CR which will create the R'00 version of 22.071.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000212 | S1-000338 | 22.071 | 006 | | R00 | C | Incorporation of TSG SA1#8 LCS Contributions and email contributions | 3.2.0 | 4.0.0 |

### 3.2.3 CAMEL (22.078)

The work on CAMEL for release 2000 is progressing well. With the approval of CRs for R'99 above, it can be seen that the functionality for CAMEL phase 3 has been reduced to bring it into line with what has been achived for CAMEL in other groups. It has been decided that whatever has been removed from CAMEL phase 3 will not automatically be included in CAMEL phase 4 (for R'00). Specific requests, with reasoning, will be required. A work item description is being presented which lists the, so far, agree content of CAMEL phase 4 (see below).

It has been suggested that the stage 1 for CAMEL phase 4 be restructured so that the additions for phase 4 can be more clearly identified. If this is to go ahead, then some substantial editorial CRs can be expected.

### 3.2.4 Emergency calls (22.101)

The subject of emergency calls has come up under release 2000 also. The proposal put forward was the use of an emergency category to be included with the call setup. This is based on the idea first tried for R'99 and discussed in a number of TSGs, but has moved to R'00.

Therefore CR 22.101-037 is presented to SA #8 for approval.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000213 | S1-000352 | 22.101 | 037 | | R00 | B | Emergency Calls and numbers used | 3.9.0 | 4.0.0 |

### 3.2.5 Multimedia Messaging Service (22.140)

The MMS is intended to be a new service to overcome SMS-inherent limitations together with

the integration of other messaging services. Messaging services based on streaming data transmission should therefore be considered too.

Therefore, CR 22.140-001 has been elaborated to introduce streaming. It should be noted that this is the first CR to create a release 2000 version of 22.140 and is provided in document SP-000214.

| Doc-1st-Level | Doc-2nd-Level | Spec | CR | Rev | Phase | Cat | Subject | Version-Current | Version-New |
|---|---|---|---|---|---|---|---|---|---|
| SP-000214 | S1-000347 | 22.140 | 001 | | R00 | B | Introduction of streaming for MMS | 3.0.0 | 4.0.0 |

### 3.2.6 Release 2000 services and capabilities (22.976)

The work on 22.976 "Study on Release 2000 services and capabilities" has continued in earnest within SA1 and an ad hoc of SA1. A great deal of progress has been made.

The TR has been presented to SA2 and CN, and been made available to all other TSGs. The comments received, thus far, have been addressed in a phone conference. Any comments not yet included (if at all) will be dealt with under change control.

It is presented for approval in document SP-000215.

The work from now on will be to elaborate CRs to SA1 specifications to incorporate the requirements of the TR.  CRs will be dealt with and agreed at SA1 #9 for presentation to SA #9 in September.

### 3.2.7 New work items

The following Work Items have been agreed by SA1 to be presented for approval in document SP-000216.

| | | | | |
|---|---|---|---|---|
| SP-000216 | S1-000278 | WI on Support of Localised Service Area (SoLSA) in Release 2000 | | Nokia |
| SP-000216 | S1-000299 | WI on Support of IP multimedia services in UMTS | | Mark Cataldo |
| SP-000216 | S1-000337 | Global Text Telephony, work item proposal | | Gunnar Hellström |
| SP-000216 | S1-000354 | WI on Bearer modification without pre-notification | | Wayne Ashwell |
| SP-000216 | S1-000381 | WI on Global Text Telephony work item proposal | | Gunnar Hellstrom |
| SP-000216 | S1-000446 | WI on Scope of VHE in Release 2000 | | Jumoke Ogunbekun |
| SP-000216 | S1-000447 | WI on Scope of Open Interface for Service Provision in Release 2000 | | Jumoke Ogunbekun |

## 4    Outlook for future meetings

With the stability of the work for Release 99 SA1 will now continue in earnest with the work of Release 2000. The report 22.976 is being presented for approval at this meeting, and so it remains to implement the requirements given in this TR into the existing specifications as CRs.

## 5    Planned meetings of S1

S1#9      17 – 21 July 2000            Taastrup, Denmark      TeleDanmark

The chairman would like to express thanks to Tommi Kokkola (vice-chairman) and the secretary, Michael Clayton, in preparing the information for this report.

Alan Cox

## Annex 1: Documents provided to this Plenary

| Tdoc | Title | Agenda |
|------|-------|--------|
| SP-000190 | Presentation of Status report from SA WG1 to SA#7 | 6.1.1 |
| SP-000191 | Status report from SA WG1 to SA#7 | 6.1.1 |
| SP-000192 | CRs to Bearer Services Supported by a PLMN (22.002) | 6.1.3 |
| SP-000193 | CRs to Access Control Classes & Network Selection (22.011) | 6.1.3 |
| SP-000194 | CRs on International Mobile Equipment Identities (IMEI) (02.16, 22.016) | 6.1.3 |
| SP-000195 | CRs to International Mobile Equipment Identities (IMEI) (22.016) | 6.1.3 |
| SP-000196 | CRs to SIM Application Toolkit (22.038) | 6.1.3 |
| SP-000197 | CRs to GPRS (22.060) | 6.1.3 |
| SP-000198 | CRs to CAMEL (22.078) | 6.1.3 |
| SP-000199 | CRs to Calling Line Identity (22.081) | 6.1.3 |
| SP-000200 | CRs to 22.101 on Emergency Calls | 6.1.3 |
| SP-000201 | CRs to Service Principles (22.101) on H.324M support for CS multimedia | 6.1.3 |
| SP-000202 | CRs to Service Principles (22.101) on USIM selection | 6.1.3 |
| SP-000203 | CRs to Services & Service capabilities (22.105) | 6.1.3 |
| SP-000204 | CRs to VHE (22.121) | 6.1.3 |
| SP-000205 | CRs to Multicall (22.135) | 6.1.3 |
| SP-000206 | CRs to SoLSA (02.43, 22.043) | 6.1.3 |
| SP-000207 | CRs to Support of Mobile Number Portability (22.066) | 6.1.3 |
| SP-000208 | CRs to Multimedia Messaging Service (22.140) | 6.1.3 |
| SP-000209 | CRs to 3G Vocabulary (21.905) | 6.1.3 |
| SP-000210 | CRs to PLMN selection (22.101) for Release 2000 | 6.1.3 |
| SP-000211 | CRs to PLMN selection (22.011) on Reselection attempts of GPRS terminals Release 2000 | 6.1.3 |
| SP-000212 | CRs to Location Services (22.071) for Release 2000 | 6.1.3 |
| SP-000213 | CRs to Emergency calls (22.101) for Release 2000 | 6.1.3 |
| SP-000214 | CRs to Multimedia Messaging Service (22.140) | 6.1.3 |
| SP-000215 | Release 2000 services and capabilities (22.976) | 6.1.3 |
| SP-000216 | Work Item Descriptions for Release 2000 | 6.1.3 |

## Annex 2: CRs provided to this Plenary

| Doc-1st-Level | Status-1st-Level | Spec | CR | Rev | Phase | Subject | Cat | Version-Current | Version-New | Doc-2nd-Level |
|---|---|---|---|---|---|---|---|---|---|---|
| SP-000194 | | 02.16 | A009 | | P2 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 4.6.0 | 4.7.0 | S1-000263 |
| SP-000194 | | 02.16 | A010 | | R96 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 5.1.0 | 5.2.0 | S1-000265 |
| SP-000194 | | 02.16 | A011 | | R97 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 6.1.0 | 6.2.0 | S1-000261 |
| SP-000194 | | 02.16 | A012 | | R98 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 7.1.0 | 7.2.0 | S1-000262 |
| SP-000206 | | 02.43 | A002 | | R98 | Clarification of requirements and editorial changes | F | 7.2.0 | 7.3.0 | S1-000324 |
| SP-000197 | | 02.60 | A026 | | R98 | Deletion of IHOSS (Point to Point Octet Stream Service) | C | 7.4.0 | 7.5.0 | S1-000340 |
| | | 02.68 | A013 | | R00 | Introduction of Originator-to-dispatcher information into VGCS | B | 8.0.0 | 8.1.0 | S1-000430 |
| | | 02.69 | A014 | | R00 | Introduction of Originator-to-dispatcher information into VBS | B | 8.0.0 | 8.1.0 | S1-000431 |
| SP-000209 | | 21.905 | 001 | | R99 | New Abbreviations and Definitions for R99, language alignment and editorial changes | B | 3.0.0 | 3.1.0 | S1-000369 |
| SP-000192 | | 22.002 | 006 | | R99 | Lower User Rates in UMTS for Circuit Switched Data Services | F | 3.3.0 | 3.4.0 | S1-000274 |
| | Not used | 22.004 | 004 | | | Definition of Multicall supplementary services (Franco) | | | | |
| SP-000193 | | 22.011 | 015 | 1 | R99 | Network Selection | B | 3.2.0 | 3.3.3 | S1-000244 |
| SP-000211 | | 22.011 | 016 | | R00 | Reselection attempts of GPRS terminals | B | 4.0.0 | 4.1.0 | S1-000335 |
| | Withdrawn | 22.016 | 003 | | R00 | IMEI coding | C | 3.1.0 | 4.0.0 | S1-000370 |
| SP-000195 | | 22.016 | 003 | 1 | R99 | IMEI coding | F | 3.1.0 | 3.2.0 | S1-000441 |
| SP-000194 | | 22.016 | 004 | | R99 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 3.1.0 | 3.2.0 | S1-000266 |
| SP-000194 | | 22.016 | 005 | | R00 | Modification of section 2 to delete unnecessary information about phases and releases removed | D | 3.1.0 | 4.0.0 | S1-000264 |
| SP-000196 | | 22.038 | 003 | | R99 | Deletion of note to non-existent TS | F | 3.1.0 | 3.2.0 | S1-000432 |
| SP-000206 | | 22.043 | 003 | | R99 | Clarification of requirements and editorial changes | F | 3.0.1 | 3.1.0 | S1-000325 |
| SP-000197 | | 22.060 | 012 | | R99 | Deletion of IHOSS (Point to Point Octet Stream Service) | C | 3.3.0 | 3.4.0 | S1-000341 |
| SP-000197 | | 22.060 | 013 | | R00 | Deletion of IHOSS (Point to Point Octet Stream Service) | C | 4.0.0 | 4.1.0 | S1-000342 |

| Doc-1st-Level | Status-1st-Level | Spec | CR | Rev | Phase | Subject | Cat | Version-Current | Version-New | Doc-2nd-Level |
|---|---|---|---|---|---|---|---|---|---|---|
| SP-000197 | | 22.060 | 014 | | R99 | Removal of X.25 support from Release 99. | C | 3.3.0 | 3.4.0 | S1-000343 |
| SP-000197 | | 22.060 | 015 | | R00 | Removal of X.25 support from Release 99. | C | 4.0.0 | 4.1.0 | S1-000344 |
| SP-000197 | | 22.060 | 016 | | R99 | Clarification of support of registration to external networks | C | 3.3.0 | 3.4.0 | S1-000365 |
| SP-000197 | | 22.060 | 017 | | R00 | Clarification of support of registration to external networks | C | 4.0.0 | 4.1.0 | S1-000366 |
| SP-000207 | | 22.066 | 003 | | R99 | North American Service Provider Number Portability impacts for Mobile Number Portability | F | 3.1.0 | 3.2.0 | S1-000434 |
| SP-000212 | | 22.071 | 006 | | R00 | Incorporation of TSG SA1#8 LCS Contributions and email contributions | C | 3.2.0 | 4.0.0 | S1-000338 |
| SP-000198 | | 22.078 | 037 | | R99 | Correction to the reduced scope of CAMEL Phase 3 in release 99 – enhancements to call forwarding | F | 3.3.0 | 3.4.0 | S1-000232 |
| SP-000198 | | 22.078 | 038 | | R99 | Correction to the reduced scope of CAMEL Phase 3 in release 99 – deletion of MexE / SAT free format data parameter  in Annex A.1 | F | 3.3.0 | 3.4.0 | S1-000247 |
| SP-000198 | | 22.078 | 039 | | R99 | Correction to description of subscriber dialled services | F | 3.3.0 | 3.4.0 | S1-000251 |
| SP-000198 | | 22.078 | 040 | | R99 | Clarification for conditional triggering for subscribed dialled services | F | 3.3.0 | 3.4.0 | S1-000252 |
| SP-000198 | | 22.078 | 041 | | R99 | Removal of NPI from conditional triggering | C | 3.3.0 | 3.4.0 | S1-000255 |
| SP-000198 | | 22.078 | 042 | | R99 | Corrections to Interactions with Supplementary Services | D | 3.3.0 | 3.4.0 | S1-000395 |
| SP-000198 | | 22.078 | 043 | | R99 | Removal of question marks from the A.1 information flow table | D | 3.3.0 | 3.4.0 | S1-000396 |
| SP-000198 | | 22.078 | 044 | | R99 | Definition of Geodetic Information | D | 3.3.0 | 3.4.0 | S1-000402 |
| SP-000198 | | 22.078 | 045 | | R99 | Distinction between initial and subsequent service events | D | 3.3.0 | 3.4.0 | S1-000403 |
| SP-000198 | | 22.078 | 046 | | R99 | Update of CAMEL roaming issues (section 16) | D | 3.3.0 | 3.4.0 | S1-000404 |
| SP-000198 | | 22.078 | 047 | | R99 | Removal of Editor's notes and corrections to Annex 1 | D | 3.3.0 | 3.4.0 | S1-000390 |
| | Revised rev2 | 22.078 | 048 | | R99 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS re3 | D | 3.3.0 | 3.4.0 | S1-000415 |
| SP-000198 | | 22.078 | 048 | 2 | R99 | CR to 22.078 R99 on Corrections to CAMEL interworking with GPRS re3 | D | 3.3.0 | 3.4.0 | S1-000445 |
| SP-000199 | | 22.081 | 003 | | R99 | Access dependent services | B | 3.1.0 | 3.2.0 | S1-000443 |
| SP-000210 | | 22.101 | 033 | | R99 | Network selection procedures removed from section 16, reference to 22.011 added | D | 3.9.0 | 3.10.0 | S1-000271 |
| SP-000210 | | 22.101 | 034 | | R00 | Network selection procedures removed from section 16, | D | 3.9.0 | 4.0.0 | S1-000270 |

| Doc-1st-Level | Status-1st-Level | Spec | CR | Rev | Phase | Subject | Cat | Version-Current | Version-New | Doc-2nd-Level |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | reference to 22.011 added | | | | |
| SP-000200 | | 22.101 | 035 | | R99 | Emergency Calls and numbers used | B | 3.9.0 | 3.10.0 | S1-000350 |
| SP-000200 | | 22.101 | 036 | | R00 | Emergency Calls and numbers used | B | 3.9.0 | 4.0.0 | S1-000351 |
| SP-000213 | | 22.101 | 037 | | R00 | Emergency Calls and numbers used | B | 3.9.0 | 4.0.0 | S1-000352 |
| SP-000201 | | 22.101 | 038 | | R99 | CS multimedia support | B | 3.9.0 | 3.10.0 | S1-000362 |
| SP-000202 | | 22.101 | 039 | | R99 | Clarification for USIM Application selection | F | 3.9.0 | 3.10.0 | S1-000326 |
| SP-000203 | | 22.105 | 024 | | R99 | Clarification of requirement in TS 22.105 for Delay | F | 3.8.0 | 3.9.0 | S1-000364 |
| SP-000203 | | 22.105 | 025 | | R99 | Access dependent services | F | 3.8.0 | 3.9.0 | S1-000442 |
| SP-000204 | | 22.121 | 007 | | R99 | Modification of section 10.2.6 on reducing the scope of the VHE/OSA reqirements | C | 3.2.0 | 3.3.0 | S1-000267 |
| SP-000204 | | 22.121 | 008 | | R99 | Removal of section 10.2.3  Address Translation SCF | C | 3.2.0 | 3.3.0 | S1-000283 |
| SP-000204 | | 22.121 | 009 | | R99 | Modification of section 10.2.9 to reduce scope of User Profile Management service capabilities | C | 3.2.0 | 3.3.0 | S1-000285 |
| SP-000204 | | 22.121 | 010 | | R99 | Alignment of VHE Stage 1 top VHE/OSA Stage 2 and stage 3 | F | 3.2.0 | 3.3.0 | S1-000334 |
| SP-000205 | | 22.129 | 012 | | R99 | Alignment of handover requirements for Multicall | C | 3.2.0 | 3.3.0 | S1-000349 |
| SP-000205 | | 22.135 | 005 | | R99 | Alignment of handover requirements for Multicall | F | 3.2.0 | 3.3.0 | S1-000348 |
| SP-000214 | | 22.140 | 001 | | R00 | Introduction of streaming for MMS | B | 3.0.0 | 4.0.0 | S1-000347 |
| SP-000208 | | 22.140 | 002 | | R99 | R99 alignment to stage 2 | F | 3.0.0 | 3.1.0 | S1-000424 |

## Annex 3: TSs and TRs under SA1 responsibility

| Type | Number | Title | Planned / achieved | WG | Editor |
|------|--------|-------|--------------------|----|--------|
| TR | 21.905 | 3G Vocabulary | Dec 99 | S1 | Michele Zarri |
| TS | 22.001 | Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network(PLMN) | | S1 | |
| TS | 22.002 | Bearer Services Supported by a GSM PLMN | Oct 99 | S1 | Paul Carpenter |
| TS | 22.003 | Teleservices Supported by a GSM Public Land Mobile Network (PLMN) | | S1 | Tommi Kokkola |
| TS | 22.004 | General on Supplementary Services | Oct 99 | S1 | Paul Carpenter |
| TS | 22.011 | Service accessibility | Oct 99 | S1 | Jean-Paul Gallaire |
| TS | 22.016 | International Mobile Equipment Identities (IMEI) | Oct 99 | S1 | Tommi Kokkola |
| TS | 22.024 | Description of Charge Advice Information (CAI) | Oct 99 | S1 | Stephanie Manning |
| TS | 22.030 | Man-Machine Interface (MMI) of the Mobile Station (MS) | Oct 99 | S1 | Tommi Kokkola |
| TS | 22.034 | High Speed Circuit Switched Data (HSCSD) – Stage 1 | Oct 99 | S1 | Tommi Kokkola |
| TS | 22.038 | SIM application toolkit (SAT); Stage 1 | Oct 99 | S1 | Bill Robinson |
| TS | 22.041 | Operator Determined Call Barring | Oct 99 | S1 | Stephanie Manning |
| TS | 22.042 | Network Identity and Time Zone (NITZ), stage 1 | Oct 99 | S1 | Mikael Dahlkvist |
| TS | 22.043 | Support of Localised Service Area (SoLSA) – Stage 1 | Oct 99 | S1 | Tommi Kokkola |
| TS | 22.057 | Mobile Station Application Execution Environment (MexE); Stage 1 | Oct 99 | S1 | Mark Cataldo |
| TS | 22.060 | General Packet Radio Service (GPRS); Stage 1 | Oct 99 | S1 | Paul Carpenter |
| TS | 22.066 | Support of Mobile Number Portability (MNP); Stage 1 | Oct 99 | S1 | |
| TS | 22.067 | enhanced Multi-Level Precedence and Pre-emption service (eMLPP) – Stage 1 | Oct 99 | S1 | Joerg Swetina |
| TS | 22.071 | Location Services (LCS); Stage 1 (T1P1) | Oct 99 | S1 | Randolph Wohlert |
| TS | 22.072 | Call Deflection (CD); Stage 1 | Oct 99 | S1 | Horst Rauch |
| TS | 22.078 | CAMEL; Stage 1 | Oct 99 | S1 | Michel Grech |
| TS | 22.079 | Support of Optimal Routing; Stage 1 | Oct 99 | S1 | |
| TS | 22.081 | Line Identification Supplementary Services; Stage 1 | Oct 99 | S1 | Thomas Ahnberg |
| TS | 22.082 | Call Forwarding (CF) Supplementary Services; Stage 1 | Oct 99 | S1 | Jean Paul Gallaire |
| TS | 22.083 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1 | Oct 99 | S1 | |
| TS | 22.084 | MultiParty (MPTY) Supplementary Service; Stage 1 | Oct 99 | S1 | |
| TS | 22.085 | Closed User Group (CUG) Supplementary Services; Stage 1 | Oct 99 | S1 | |
| TS | 22.086 | Advice of Charge (AoC) Supplementary Services; Stage 1 | Oct 99 | S1 | Stephanie Manning |
| TS | 22.087 | User-to-user signalling (UUS); Stage 1 | Oct 99 | S1 | Christian Braden |
| TS | 22.088 | Call Barring (CB) Supplementary Services; Stage 1 | Oct 99 | S1 | |
| TS | 22.090 | Unstructured Supplementary Service Data (USSD); Stage 1 | Oct 99 | S1 | Tommi Kokkola |
| TS | 22.091 | Explicit Call Transfer (ECT) Supplementary Service; Stage 1 | Oct 99 | S1 | |
| TS | 22.093 | Call Completion to Busy Subscriber (CCBS); Stage 1 | Oct 99 | S1 | |
| TS | 22.094 | Follow Me Stage 1 | Dec 99 | S1 | |
| TS | 22.096 | Calling Name Presentation (CNAP); Stage 1 (T1P1) | Oct 99 | S1 | |
| TS | 22.097 | Multiple Subscriber Profile (MSP); Stage 1 | Oct 99 | S1 | Stephanie Manning |
| TS | 22.100 | UMTS Phase 1 | April 99 | S1 | Jean-Paul Gallaire |

| Type | Number | Title | Planned / achieved | WG | Editor |
|------|--------|-------|--------------------|----|--------|
| TS | 22.101 | UMTS Service principles | April 99 | S1 | Stephanie Manning |
| TS | 22.105 | Services & Service capabilities | April 99 | S1 | Wayne Ashwell |
| TS | 22.115 | Service Aspects Charging and billing | April 99 | S1 | Emanuele Montegrosso |
| TS | 22.121 | Provision of Services in UMTS – The Virtual Home Environment | June 99 | S1 | Jumoke Ogunbekum |
| TS | 22.129 | Handover Requirements between UMTS and GSM or other Radio Systems | April 99 | S1 | David Cooper |
| TS | 22.135 | Multicall Stage1 | Dec 99 | S1 | Tommi Kokkola |
| TS | 22.140 | Multimedia Messaging Service Stage 1 | Dec 99 | S1 | Gunnar Schmidt |
| TR | 22.907 | Terminal concepts | April 99 | S1 | Mika Tolvanen |
| TR | 22.960 | Mobile multimedia services | April 99 | S1 | Thomas Ahnberg |
| TR | 22.971 | Automatic establishment of roaming relationships | April 99 | S1 | Emanuele Montegrosso |
| TR | 22.972 | Multimedia | Dec 99 | S1 | |
| TR | 22.975 | Advanced addressing | April 99 | S1 | Stephan Kleier |
| TR | 22.976 | Release 2000 services and capabilities | June 00 | S1 | Mark Cataldo |
| TR | 23.927 | VHE, Open Service Architecture | Dec 99 | S1 | |