Technical Specification Group Services and System Aspects **TSGS#10(00) 0531**
Meeting #10, Bangkok, Thailand, 11-14 December 2000

Source: **Chairman, Secretary SA1**

Title: **Status Report of SA_WG1 (Services)**

Document for: **Information and Decision**

Agenda Item: **7.1.1**

TSG SA1 STATUS REPORT

1   General Overview of Progress

The TSG SA WG1 #10 meeting was held in Orlando USA from the 14th to 17th November 2000**Error! Style not defined.**. It was chaired by Mr Alan Cox (Vodafone) and the secretary was Mr Michael Clayton from the MCC. The host was Pacific Bell Wireless and Siemens with the social event being hosted by Qualcomm.

SA1 continues to make good progress. Our work on R99 has been confined to a few CRs for correction or alignment. We are reaching some stability for the service requirements for those items which are targeted for Rel 4. We submit two specifications for approval: 22.127 "Service Requirements for the Open Services Access (OSA) (Stage 1)" version 2.0.0 and 22.228 "Service Requirements for the IP Multimedia Core Network Sub-system (stage 1)" version 2.0.0.

Revised Work Items description sheets for OSA is presented for information/approval. Most of the remaining work of SA1 for R00 is covered by existing WIDs. SA1 now structures its entire meeting in with the project plan.

At this meeting, SA1 are presenting 1 CR to R98, 1 CR to R97, 10 CRs to R99, 22 CRs to Rel-4, 8 CRs to Rel-5 and two specifications for approval. The specifications are:

Tdoc	Title	Agenda
SP-000551	TS 22.127 "Service Requirement for the Open Services Access (OSA) Stage 1" version 2.0.0 for approval	7.1.3
SP-000552	TS 22.228 "Service requirements for the IP Multimedia Core Network Subsystem (Stage 1)" version 2.0.0 for approval	7.1.3

2   Change Requests for R99 or earlier

The majority of CRs presented by SA1 are for Release 4. However, there are some corrections to R97, R98 and R99.

The following sections give a brief outline of the CRs.

2.1   CAMEL 22.078 R99

At the last meeting of SA1, a liaison statement was received from CN2 on support of CAMEL phase 1 and phase 2. TSG-CN2 has asked TSG-SA1 to endorse the decision that an IPLMN or VPLMN supporting CAMEL phase 2 shall also support CAMEL phase 1, and proposed some change requests to implement this.

TSG-CN2 also asked TSG-SA1 for advice on the long-term solution to this problem.

The principle that a higher version of CAMEL will support interworking with lower versions was adopted by SA1 but the CRs for CAMEL phase 3 have not yet been prepared. The policy for CAMEL phase 4 and above is still being debated and will need to be addressed separately.

A liaison statement has been sent to CN4 and copied to CN.

The proposed CRs were agreed in SA1 and presented in SP-000536 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000536	02.78	A042		R97	F	Support of CAMEL Phase 1 and 2	6.4.0	6.5.0	S1-000808

| SP-10 | SP-000536 | 02.78 | A043 | | R98 | A | Support of CAMEL Phase 1 and 2 | 7.0.0 | 7.1.0 | S1-000809 |
| SP-10 | SP-000536 | 22.078 | 071 | | R99 | A | Support of CAMEL Phase 1 and 2 | 3.5.0 | 3.6.0 | S1-000810 |

It was apparent in SA1 that it is currently not possible in CAMEL Phase 3 to uniquely identify a PDP context at the CSE. This prevents operators correlating the CSE processes for one PDP context after Routeing Area Update or it prevents correlation of records created in the CSE with the CDRs created by the SGSN.

To enable PDP Context correlation, a charging ID is already available within GPRS as well as at the CSE. However the charging ID is only unique together with the address of the GGSN that allocated it. The corresponding GGSN address is currently not transferred to the CSE.

TSG CN WG2 have agreed CRs to CAMEL specifications introducing the GGSN Address for the PDP Context Establishment Acknowledge and Change Of Position PDP Context event reports and provided two CRs against 3G TS 22.078 (R99 and Rel-4), proposing the introduction of the GGSN Address, for approval at the next SA Plenary.

These have been agreed at SA1 and are presented for approval in document SP-000537.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000537	22.078	065		R99	F	Introduction of GGSN Address	3.5.0	3.6.0	S1-000855
SP-10	SP-000537	22.078	067		Rel-5	A	Introduction of GGSN Address	5.0.0	5.1.0	S1-000857
SP-10	SP-000537	22.078	066		Rel-4	A	Introduction of GGSN Address	4.0.0	4.1.0	S1-000856

2.2   Operator Determined Call Barring (22.041)

SA1 has received a liaison statement from CN4 on Operator Determined Barring of Packet Oriented Services that arrived late in the meeting. It was noted that the stage 1 for Operator Determined Barring for UMTS Release 99 (TS 22.041 v3.1.0) includes a service requirement for various types of operator determined barring of packet oriented services. Unfortunately CN WG4 (and its predecessor, CN WG2 SWGB) did not receive any contributions to introduce the corresponding enhancements to the stage 2 and stage 3 specifications (TS 23.008, TS 23.015 and TS 29.002).

SA WG1 has been asked to draft the necessary change request to remove from TS 22.041 the service requirement for Operator Determined Barring of packet oriented services. SA WG1 are also being asked to decide whether they require Operator Determined Barring of packet oriented services to be supported in UMTS Release 4, and to advise CN WG4 of their decision.

It was decided in SA1 to re-phrase the explanation and to make a CR to the R99 and Rel-4 versions. The R99 CR is to take out the feature out and the CR to Rel-4 is to re-word it to make it clearer. The CRs to do this are provided in document SP-000532.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000532	22.041	003		R99	F	Operator Determined Barring of Packet	3.1.0	3.2.0	S1-000852
SP-10	SP-000532	22.041	004		Rel-4	B	Operator Determined Barring of Packet Oriented Services	3.2.0	4.0.0	S1-000853

2.3 Encrypted USIM-ME interface

T3 has sent a liaison statement to SA1 on Encrypted USIM-ME interface, in which T3 inform SA1 that 3G TS 22.101 still seems to contain a requirement which had been considered not necessary from a security point of view by SMG10.

The requirement is that an encrypted terminal-UICC interface is a basic mandatory UE requirement.

SA1 agreed with this situation and has drafted CRs to R99, Rel-4 and Rel-5 to remove this requirement. The CRs are presented in document SP-000533 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000533	22.101	058		Rel-4	A	Deleting Encrypted USIM-ME interface	4.1.0	4.2.0	S1-000798
SP-10	SP-000533	22.101	057		R99	F	Deleting Encrypted USIM-ME interface	3.11.0	3.12.0	S1-000797
SP-10	SP-000533	22.101	059		Rel-5	A	Deleting Encrypted USIM-ME interface	5.0.0	5.1.0	S1-000799

2.4 Handover Requirements

At the last meeting, SA1 received a proposal to align the requirements in 22.129 with what actually is available in R99. It also replaces the terms UMTS and GSM to be in line with other SA1 specifications. The CR was provided on the email exploder with no comments other than from the SA chairman. However, it would appear that not all delegates received the CR and it caused some significant debate in SA1.

There were some serious concerns regarding the deletion of the features in this CR. It is clear that an email approval is not possible due to the time constraints to the next plenary. A group was formed to discuss this CR and a revision of the proposal was received for release 99 and another for Rel-4.

However, there was still an objection to these change requests from Hutchison 3G. The changes could have serious implications to Hutchison 3G.

If the requirements are being removed because they are not supported in the R99 specification set, then the changes must be done. It was decided by SA1 to send the final version of this CR to SA #10 asking SA and the other groups to confirm that the requirements being removed are not supported in the R99 specification set.

Q1: **SA #10 is asked to ratify through the representation from CN that the requirements being removed in SP-000534 are not supported in the R99 specification set.**

The CRs are provided in document SP-000534 for investigation and/or approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000534	22.129	015		R99	F	Handover requirements	3.4.0	3.5.0	S1-000863
SP-10	SP-000534	22.129	016		Rel-4	A	Handover requirements	4.0.0	4.1.0	S1-000864

2.5 Round-trip delay (22.105)

For some time now, in both SA1 and SA, the definition of delay for QoS has been

discussed. It was noted that originally the maximum of 400ms was lifted from the ITU. Typically, the value in GSM is around 100ms and it would appear unfortunate to specify a limit that could be mistaken for a design parameter. Moreover, there is another issue of where to measure the delay and if it should be contained within the 3G network. The opinion of the meeting that the measurement should be related to the 3G network only and it should be better than, or comparable with, GSM.

It was decided in SA1, to make a change to 22.105 to indicate that 100ms is reasonable.

This CR is being presented in document SP-000535 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000535	22.105	028		R99	A	Alignment of delay definition	3.9.0	3.10.0	S1-000812

3 Work Items with SA1 Lead

3.1 Bearer Modification without pre-notification

SA1 has kept a close dialogue with CN3 on the WI Bearer Modification without Pre-notification. The work is stable in SA1 but CN3 has asked SA1 to review the text in TS 22.001 to ensure a clear explanation of the requirements. A proposal to clarify this was provided in SA1, which contained a CR to 22.101.

It was agreed to send the CR to SA #10 for approval and it is presented in document SP-000539.

Meeti	Doc-1st-	Spec	CR	Rev	Phase	Cat	Subject	Versi	Versi	Doc-2nd-
SP-10	SP-000539	22.001	005		Rel-4	B	Subscription Check	4.0.0	4.1.0	S1-000772

3.2 Facsimile

For some time now, the work on Facsimile has been dormant. However, at the last meeting SA1 received two proposed CRs relating to Fax.

SA1 received a CR to 22.105 to correct the list of access dependent features. In particular NT CS fax has been implemented in Release 4 (TS 23.146) and Specifications for NT fax for GERAN has been removed. Hence, SA1 is presenting a CR to 22.105 in document SP-000547.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000547	22.105	029		Rel-4	B	Correction to list of access dependent features.	4.0.0	4.1.0	S1-000850

SA1 has also received a liaison statement from CN3 to SA1 on the removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases. In particular CN3 are asking SA1 to consider removing NT fax from GSM for Rel-4 and onwards. Should SA1 agree to remove NT fax from GSM for Rel-4 and onwards, CN3 asks SA1 to amend TS 22.003 to reflect that TS61and TS62 NT applies to UMTS only. Furthermore, CN3 asks SA1 to correct TS 22.003 Rel-99 and Rel-4 to reflect that TS61 and TS62 T applies to GSM only.

The view of SA1 was that no changes should be made to R99 as this could be viewed as a

functional change. There is a consistent specification set for R99, even though it is not implemented and not used.

Therefore, SA1 is proposing one CR to 22.003 Rel-4 for approval in document SP-000540.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000540	22.003	004		Rel-4	C	Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases	4.0.0	4.1.0	S1-000866

3.3   GPRS (22.060)

At the last meeting of SA, there was a CR presented to the R99 version of 22.060 to remove PTM-G service. Sadly, it was not noticed that a Rel-4 (R00) version already existed. Hence, a CR was required for the Rel-4 version. This is provided for approval in document SP-000542.

Also for 22.060, a proposed CR was received on Push Services. The CR provides a definition of a push service: i.e. a service type which delivers information (data/multimedia) initiated from a network node (which may be external to the PLMN) to the end user. The service will cause a PDP context to be activated if needed. What makes this a push service is that it is initiated from a network node.

The CR to implement this is provided in document SP-000542.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000542	22.060	019		Rel-4	C	Removal of PTM-G service	4.1.0	4.2.0	S1-000782
SP-10	SP-000542	22.060	020		Rel-4	C	Push Service	4.1.0	4.2.0	S1-000842

3.4   Advanced Multi-level Precedence and Pre-emption (22.067)

At the last meeting of SA1 a CR to 22.067 was presented to include a definition of called party pre-emption. This was agreed in SA1 and is being presented to SA #10 for approval in document SP-000543.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000543	22.067	002		Rel-4	B	Introduces definition of called party pre-emption	3.0.1	4.0.0	S1-000846

3.5   OSA enhancements

Work on the OSA has progressed in SA1 with the focus being with the SA1 OSA ad hoc that has held two meetings in between SA1 meetings #9 and #10.

The ad hoc has been keeping a keen dialogue open with its counterparts both CN5 and CN3. This has resulted, in part, with a more accurate plan of the work and an update of the WID. Whilst the WI sheet was approved in principle at SA #9, it was decided to present the update since the work plan (which has been incorporated in the project plan) is more up to date. One main difference is that a decision has been made as to what work will be completed for Rel-4 and what is intended for Rel-5.

The updated WID is presented in document SP-000553. It is the choice of SA #10 as to whether to approve the update or note it, but this notwithstanding, the WI itself is

approved.

SA1 also now believes that the TS is stable enough to be presented for approval. Hence, TS 22.127 "Service Requirement for the Open Services Access (OSA) Stage 1" version 2.0.0 is presented for approval in document SP-000551.

3.6 Provisioning of IP-based multimedia services

SA1 continues to deal with the WI provisioning of IP-based multimedia services.

The SA1 "IP multimedia service ad hoc" has had a report from the Oxford workshop on services, and this has influenced slightly the approach of the group. In particular, the issue of the requirements for interworking between IP Multimedia networks and existing networks has been discussed at length in the ad hoc and in SA1.

It is understood that IM networks will provide a complete solution for the support of IP multimedia applications of which voice communications via IM will be a major part. SA1 has received inputs that imply interworking between the IM subsystem and the CS systems, but the question is at what level.

One interpretation is supporting a voice call from the IM subsystem to the CS subsystem and vice versa. In this instance, the user in the CS domain should not experience anything different than if they are connected to another CS domain user; i.e. the CS user experience should not differ.

This did not achieve universal support.

As for TS 22.228, the view of the majority of SA1 is that it should be sent to SA1 for approval. Ericsson objected to this and asked that it be sent to plenary for information only. The primary reason being the uncertainty of the interworking between the IM subsystem and the CS networks.

This is a major issue with significant implications and, as such, the resolution should really be done under change control. Moreover, it is understood that 23.228 is also being presented for approval.

With this, SA1 is presenting 22.228 version 2.0.0 for approval in document SP-000552.

4 Work Items with other Lead

4.1 Location Services (22.071)

A great deal of work has been done on the WI Location Services. One issue was the work on DEGA, which is listed in the workplan. This will not be done as there is not sufficient interest at this time. It was decided to remove it from the work plan.

One CR relates to the privacy exception list in CR 22.071-019. This intended for Rel-4, but that if not possible, then it will be put to Rel-5. A liaison statement to this effect has been sent to SA2 asking if it is possible. Currently, this is destined for Rel-4.

Another CR was provided in SP-000544 to provide additional functionality for repositioning of a user if for some reason it is lost; e.g. when there is loss of coverage. This was agreed in SA1 to send this to SA #10 and SA2.

The rest of the CRs have been reviewed in line with the project plan, have been agreed in

the Location Services ad hoc and have been ratified by SA1 plenary.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000544	22.071	019		Rel-4	A	Privacy Exception List	4.1.0	4.2.0	S1-000787
SP-10	SP-000544	22.071	020		Rel-4	B	Periodic Location Reporting	4.1.0	4.2.0	S1-000788
SP-10	SP-000544	22.071	021		Rel-4	B	Location Service Request	4.1.0	4.2.0	S1-000791
SP-10	SP-000544	22.071	022		Rel-4	C	Periodic Location Reporting amendment	4.1.0	4.2.0	S1-000851
SP-10	SP-000544	22.071	023		Rel-4	C	Addition of achieved location information accuracy with reference to TS 23.032	4.1.0	4.2.0	S1-000803

4.2   SIM Application Toolkit

In line with the work ongoing in the T3 work item "use of local link as a bearer for USAT", SA1 has produced two CRs to 22.038. The first is for release 4 and the second for release 5.

The CRs are presented in document SP-000541 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000541	22.038	006		Rel-4	B	Introduction of USAT local link mechanism	4.0.0	4.1.0	S1-000861
SP-10	SP-000541	22.038	007		Rel-5	B	Introduction of USAT local link mechanism	5.0.0	5.1.0	S1-000862

4.3   CAMEL (22.078)

Two correctional CRs are being presented to SA #10 for approval. The first is CR to 22.078 on Removal of Volume charging for GPRS Session. This is a correction to 22.078 to reflect the actual status of CAMEL as completed in the stage 2 and stage 3.

Another correction to 22.078 was provided to SA #9 but was referred to SA1. This has been done, resulting in a revision. In general this is an alignment, but does contain a great deal of editorial corrections.

Both CRs are presented in document SP-000538.

Another CR addressed in SA1 and the ad hoc was that of the Introduction of IP multimedia session control in CAMEL Phase 4. This CR had been seen at SA#9 and had caused some concern; in particular Ericsson objected on the grounds that the term "IP telephony" was not defined in CRs.

Several contributions were received at both the ad hoc and SA1, one of which as a slightly modified version of the CRs. Siemens believes it is too simple to define "IP Telephony" with better words and submit the CR again. It has to be made clear to which extent CS and IM services are overlapping. In case of a "larger" overlap, approaches like CAMEL might succeed. In cases of "smaller" overlapping area, CAMEL may still survive in the CS domain but different approaches might be found for service provisioning methods in the IM domain.

It was reported that SA2 does actually support this in CAMEL interface in 23.228 and that this is actually alignment with the stage 2. There is a joint meeting between SA1 and SA2 on IM subsystem, and this issue was brought up during this meeting. The prime directive was to confirm that the architecture in stage 2 does support this feature. If SA2 cannot confirm that this can be supported then this issue should be brought to SA #10.

Q2:   SA2 is asked to confirm that the architecture in the stage 2 specifications supports Introduction of IP multimedia sessions control in CAMEL Phase 4.

In the joint meeting, it was agreed that CAMEL should apply to all media elements and not just to speech. A liaison statement has been written to explain this and is expected from SA2 at SA #10.

However, this does not solve the issue for CR 22.078-074. In SA1 it was agreed that the CR should be submitted for approval, but that both Siemens and Ericsson have some reservations. It is provided in document SP-000538 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000538	22.078	062	3	R99	F	Alignment with stage 2 & 3, and editorial clarification	3.4.1	3.5.0	S1-000751
SP-10	SP-000538	22.078	072		R99	F	Removal of Volume charging for GPRS Session	3.4.1	3.5.0	S1-000750
SP-10	SP-000538	22.078	074		Rel-5	B	Introduction of IP multimedia sessions control in CAMEL Phase 4	5.0.0	5.1.0	S1-000753
SP-10	SP-000538	22.078	063		Rel-5	B	Introduction of Call Party Handling	5.0.0	5.1.0	S1-000752

Another CR provided to SA1related to Criteria for the Mid-Call event detection point. In addition CR to 22.078-068 was on Enhancement to the Mid Call event to include out of band information. It was agreed to provide both of these CRs in SP-000545 to SA #10 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000545	22.078	073		Rel-5	C	Criteria for the Mid-Call event detection point	5.0.0	5.1.0	S1-000754
SP-10	SP-000545	22.078	068		Rel-5	B	Enhancement to the Mid Call event to include out band information	5.0.0	5.1.0	S1-000783

4.3   Support of UMTS AKA for GSM (22.101)

SA1 has received a liaison statement from S3 on Clarification of UMTS-AKA for GSM R'99 Mobiles. S3 has discussed the use of a SIM card and a USIM card in mobile entities. S3 has made the following working assumptions:

1) A SIM card does not support the UMTS authentication and key agreement mechanism.

2) A GSM Release 99 mobile entity will support the UMTS authentication and key agreement protocol as specified in TS 33.102 when a USIM is inserted into a mobile entity.

An answer from T3 on this: T3 point out that working assumption 2) implies that every GSM R'99 mobile must fully support the USIM/ME interface as defined in TS 31.101 and TS 31.102 in addition to the SIM/ME interface specified in GSM 11.11.

The understanding of T3 is that the 3G security context (including the UMTS-AKA) is only available with a USIM and that support of USIM is not required for a GSM only ME.

A proposal to solve this issue was received in SA1 and there are two options to implement this:

1. The USIM/ME interface is implemented in GSM only ME so that the USIM and the UMTS AKA is supported by these terminals

2. The SIM/ME interface is upgraded to support UMTS authentication (in fact partially, which means that the AUTN token is passed to the SIM which implements network authentication and anti-replay from sequence number, but there will be no integrity key since there is no integrity on GSM radio path)

In order for the operators to have a better security in their GSM R99 networks, it is proposed by SA1 to enhance the SIM/ME interface for GSM only ME to support the UMTS authentication in part (network authentication and anti-replay from sequence number, but there will be no integrity key since there is no integrity on GSM radio path).

The understanding of SA1 is that legacy mobiles are not required to support new functionality in general and support of UMTS-AKA would appear to be new functionality.

Document S1-000806 was revised to S1-000859 and a Rel-5 version of the CR was also provided in S1-000860. It was agreed to send these CRs to SA #10 for approval.

The CRs to implement this is provided in document SP-000546 for approval.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000546	22.101	060		Rel-4	B	Support of UMTS AKA for GSM only mobiles	4.1.0	4.2.0	S1-000859
SP-10	SP-000546	22.101	061		Rel-5	B	Support of UMTS AKA for GSM only mobiles	5.0.0	5.1.0	S1-000860

4.4   Instant messaging (22.140)

In between the last two SA1 meetings there have been some discussions on the inclusion of Instant Messaging in 22.140 as part of Multimedia Messaging. This has been done in discussion with TSG-T2.

There was some concern that the work will not be done in time for Rel-4 but it was decided that it should be put into the SA1 stage 1 and then taken out if the work is not done in time. A further concern is that work ongoing in the IETF, which could make this a proprietary approach. This was taken on board and will be taken into account.

The CR is being presented to SA #10 for approval in document SP-000548.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000548	22.140	003		Rel-4	B	Incorporating Instant Messaging Capabilities in MMS	4.0.0	4.1.0	S1-000868

5   Other Items

5.1   Definitions and Abbreviations (21-905)

SA1 is presenting two CRs to 21.905. The first relates to the inclusion of the acronyms in and abbreviations from GSM 01.04 version 7.0.0 and the other introduces a definition of ASCI. Both CRs are being presented in document SP-000549.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000549	21.905	005		Rel-4	B	Inclusion of GSM 01.04 v 7.0.0	3.2.0	3.3.0	S1-000736

						acronyms and abbreviations in the vocabulary			
SP-10	SP-000549	21.905	004		Rel-4	B	Introduces ASCI definition	4.0.0	4.1.0	S1-000731

5.2 Correction of VBS and VCGS

At a much earlier meeting of SA, a CR was introduced to clarify the interaction of VBS and VCGS with CCBS. However, the version 8.0.0 of both VBS and VGCS was created recently from the latest version 7.0.0 of both specifications since this had not been done. In the process, the agreed CRs were not implemented. Therefore, a CR to both 02.68 and 02.69 is being presented to implement the CR that was already agreed, and the two CRs to 42.068 and 42.069 are presented to complete the set. All the CRs are presented in document SP-000550.

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000550	02.68	A014		R99	F	Correction of implementation of Clarification of interaction with CCBS service	8.0.0	8.1.0	
SP-10	SP-000550	02.69	A015		R99	F	Correction of implementation of Clarification of interaction with CCBS service	8.0.0	8.1.0	
SP-10	SP-000550	42.068	001		Rel-4	A	Correction of implementation of Clarification of interaction with CCBS service	4.0.1	4.1.0	
SP-10	SP-000550	42.069	001		Rel-4	A	Correction of implementation of Clarification of interaction with CCBS service	4.0.1	4.1.0	

6 Work Item Descriptions

6.1 OSA

At the last SA plenary, a WI description for OSA was presented for approval. Whilst it was approved in principle, it has subsequently been decided to update it in line with the current thinking of SA1 and CN. The main change is the identification of the work for Rel-4 and Rel-5. It is provided in document SP-000393 for approval.

SA Meet	SA Doc.	Spec	Phase	WID Title/Subject	SA1 Doc
SP-10	SP-000553	22.127	Rel-4, 5	Modified OSA WID "Scope of the Open Service Access	S1-000827

6.2 Display of Service provider name

At the last meeting of SA1 a proposal was received for a CR to 22.101 on Display of service provider name in the UE for Rel-4 and Rel-5. A new procedure was described in order to display the correct information on the terminal about the provider of the service. When in the home network the service provider is displayed, and such a name is stored in the USIM by the USIM issuer. When roaming, the radio network providing the service is displayed in parallel (optionally) with the service provider name.

In addition, SA1 received a liaison statement from T3 on the Enhancement of CPHS Network Operator Name. Whilst these are two different names, it is possible that a procedure for both names could be similar if not the same. Therefore it is necessary to study the two subjects, possibly under the same work item.

Whilst the CRs to implement the changes were not agreed in SA1, it was decided to discuss this by email between SA1 #10 and #11 with a view to presenting them to SA #11.

Also, it was decided to propose a new WI for this work. It is presented for approval in document SP-000533

SA Meet	SA Doc.	Spec	Phase	WID Title/Subject	SA1 Doc
SP-10	SP-000553	22.042	Rel-5	WID for "Service Provider Name"	S1-000841

7   Outlook for future meetings

SA1 has continued in earnest with the work of Release 4 and release 5. The TS "Service requirements for the IP Multimedia Core Network" in TS22.228 is being presented for approval, as is "Service Requirement for the Open Services Access (OSA) in TS22.127".

SA1 continues to concentrate on the work program to bring this in to line with the work items ongoing or pending.

Alan Cox has announced his intention to stand down as chairman after the next meeting of SA1. There will be an election at that meeting, in Capetown, to appoint a successor.

8   Planned meetings of SA1

SA1#11   6-9 February 2001 Capetown, South Africa, hosted Vodacom

SA1#12   7-11 May 2001 Helsinki, Finland, hosted by Sonera

SA1#13   9-13 July 2001   North America, hosted by

SA1#14   5-9 November 2001 Japan, hosted by NTT DoCoMo

Alan Cox

Annex 1: Documents provided to this Plenary

Tdoc	Title	Agenda
SP-000530	Presentation of Status report from SA WG1 to SA#10	7.1.1
SP-000531	Status report from SA WG1 to SA#10	7.1.1
SP-000532	CRs to 22.041 on Operator Determined Barring of Packet Oriented Services (R99)	7.1.3
SP-000533	CRs to 22.101 on Deleting Encrypted USIM-ME interface (R99)	7.1.3
SP-000534	CRs to 22.129 on Handover requirements (R99)	7.1.3
SP-000535	CR to 22.105 on Alignment of delay definition (R99)	7.1.3
SP-000536	CRs to 02.78 and 22.078 on Support of CAMEL Phase 1 and 2 (R97/98/99)	7.1.3
SP-000537	CRs to 22.078 on Introduction of GGSN Address (R99)	7.1.3
SP-000538	CRs to 22.078 to correct misalignments (R99)	7.1.3
SP-000539	CR to 22.101 on Subscription Check (Rel-4)	7.1.3
SP-000540	CR to 22.003 on Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases (Rel4)	7.1.3
SP-000541	CRs to 22.038 on LS on USAT local link mechanism and impact on TS 22.038 (Rel-4/Rel-5)	7.1.3
SP-000542	CRs to 22.060 for corrections (Rel-4)	7.1.3
SP-000543	CR to 22.067 on Introduction of definition of called party pre-emption (Rel-4)	7.1.3
SP-000544	CRs to 22.071 (Rel-4)	7.1.3
SP-000545	CRs to 22.078 on mid call event (Rel-5)	7.1.3
SP-000546	CRs to 22.101 on Support of UMTS AKA for GSM only mobiles (Rel-4/Rel-5)	7.1.3
SP-000547	CR to 22.105 on Correction to list of access dependent features (Rel-4)	7.1.3
SP-000548	CR to 22.140 on Incorporating Instant Messaging Capabilities in MMS (Rel-4)	7.1.3
SP-000549	CRs to 21.905 on introduction of definitions and abbreviations (Rel-4)	7.1.3
SP-000550	CRs to 02.68, 02.69, 42.068 and 42.069 to correction incorrect implementation of CR on CCBS interaction (R99/Rel-4)	7.1.3

	implementation of CR on CCBS interaction (R99/Rel-4)	
SP-000551	TS 22.127 "Service Requirement for the Open Services Access (OSA) Stage 1" version 2.0.0 for approval	7.1.3
SP-000552	TS 22.228 "Service requirements for the IP Multimedia Core Network Subsystem (Stage 1)" version 2.0.0 for approval	7.1.3
SP-000553	Various WIDs for information and approval	7.1.3

Annex 2: CRs provided to this Plenary

SA Meet	SA Doc.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc
SP-10	SP-000532	22.041	003		R99	F	Operator Determined Barring of Packet Oriented Services	3.1.0	3.2.0	S1-000852
SP-10	SP-000532	22.041	004		Rel-4	B	Operator Determined Barring of Packet Oriented Services	3.2.0	4.0.0	S1-000853
SP-10	SP-000533	22.101	057		R99	F	Deleting Encrypted USIM-ME interface	3.11.0	3.12.0	S1-000797
SP-10	SP-000533	22.101	058		Rel-4	A	Deleting Encrypted USIM-ME interface	4.1.0	4.2.0	S1-000798
SP-10	SP-000533	22.101	059		Rel-5	A	Deleting Encrypted USIM-ME interface	5.0.0	5.1.0	S1-000799
SP-10	SP-000534	22.129	015		R99	F	Handover requirements	3.4.0	3.5.0	S1-000863
SP-10	SP-000534	22.129	016		Rel-4	A	Handover requirements	4.0.0	4.1.0	S1-000864
SP-10	SP-000535	22.105	028		R99	A	Alignment of delay definition	3.9.0	3.10.0	S1-000812
SP-10	SP-000536	02.78	A042		R97	F	Support of CAMEL Phase 1 and 2	6.4.0	6.5.0	S1-000808
SP-10	SP-000536	02.78	A043		R98	A	Support of CAMEL Phase 1 and 2	7.0.0	7.1.0	S1-000809
SP-10	SP-000536	22.078	071		R99	A	Support of CAMEL Phase 1 and 2	3.5.0	3.6.0	S1-000810
SP-10	SP-000537	22.078	065		R99	F	Introduction of GGSN Address	3.5.0	3.6.0	S1-000855
SP-10	SP-000537	22.078	066		Rel-4	A	Introduction of GGSN Address	4.0.0	4.1.0	S1-000856
SP-10	SP-000537	22.078	067		Rel-5	A	Introduction of GGSN Address	5.0.0	5.1.0	S1-000857
SP-10	SP-000538	22.078	062	3	R99	F	Alignment with stage 2 & 3, and editorial clarification	3.4.1	3.5.0	S1-000751
SP-10	SP-000538	22.078	063		Rel-5	B	Introduction of Call Party Handling	5.0.0	5.1.0	S1-000752
SP-10	SP-000538	22.078	072		R99	F	Removal of Volume charging for GPRS Session	3.4.1	3.5.0	S1-000750

SP-10	SP-000538	22.078	074		Rel-5	B	Introduction of IP multimedia sessions control in CAMEL Phase 4	5.0.0	5.1.0	S1-000753
SP-10	SP-000539	22.001	005		Rel-4	B	Subscription Check	4.0.0	4.1.0	S1-000772
SP-10	SP-000540	22.003	004		Rel-4	C	Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases	4.0.0	4.1.0	S1-000866
SP-10	SP-000541	22.038	006		Rel-4	B	LS on USAT local link mechanism and impact on TS 22.038	4.0.0	4.1.0	S1-000861
SP-10	SP-000541	22.038	007		Rel-5	B	LS on USAT local link mechanism and impact on TS 22.038	5.0.0	5.1.0	S1-000862
SP-10	SP-000542	22.060	019		Rel-4	C	Removal of PTM-G service	4.1.0	4.2.0	S1-000782
SP-10	SP-000542	22.060	020		Rel-4	C	Push Service	4.1.0	4.2.0	S1-000842
SP-10	SP-000543	22.067	002		Rel-4	B	Introduces definition of called party pre-emption	3.0.1	4.0.0	S1-000846
SP-10	SP-000544	22.071	019		Rel-4	A	Privacy Exception List	4.1.0	4.2.0	S1-000787
SP-10	SP-000544	22.071	020		Rel-4	B	Periodic Location Reporting	4.1.0	4.2.0	S1-000788
SP-10	SP-000544	22.071	021		Rel-4	B	Location Service Request	4.1.0	4.2.0	S1-000791
SP-10	SP-000544	22.071	022		Rel-4	C	Periodic Location Reporting amendment	4.1.0	4.2.0	S1-000851
SP-10	SP-000544	22.071	023		Rel-4	C	Addition of achieved location information accuracy with reference to TS 23.032	4.1.0	4.2.0	S1-000803
SP-10	SP-000545	22.078	068		Rel-5	B	Enhancement to the Mid Call event to include out band information	5.0.0	5.1.0	S1-000783
SP-10	SP-000545	22.078	073		Rel-5	C	Criteria for the Mid-Call event detection point	5.0.0	5.1.0	S1-000754
SP-10	SP-000546	22.101	060		Rel-4	B	Support of UMTS AKA for GSM only mobiles	4.1.0	4.2.0	S1-000859

SP-10	SP-000546	22.101	061		Rel-5	B	Support of UMTS AKA for GSM only mobiles	5.0.0	5.1.0	S1-000860
SP-10	SP-000547	22.105	029		Rel-4	B	Correction to list of accesses dependent features.	4.0.0	4.1.0	S1-000850
SP-10	SP-000548	22.140	003		Rel-4	B	Incorporating Instant Messaging Capabilities in MMS	4.0.0	4.1.0	S1-000868
SP-10	SP-000549	21.905	004		Rel-4	B	Introduces ASCI definition	4.0.0	4.1.0	S1-000731
SP-10	SP-000549	21.905	005		Rel-4	B	Inclusion of GSM 01.04 v 7.0.0 acronyms and abbreviations in the vocabulary	3.2.0	3.3.0	S1-000736
SP-10	SP-000550	02.68	A014		R99	F	Correction of implementation of Clarification of interaction with CCBS service	8.0.0	8.1.0	
SP-10	SP-000550	02.69	A015		R99	F	Correction of implementation of Clarification of interaction with CCBS service	8.0.0	8.1.0	
SP-10	SP-000550	42.068	001		Rel-4	A	Correction of implementation of Clarification of interaction with CCBS service	4.0.1	4.1.0	
SP-10	SP-000550	42.069	001		Rel-4	A	Correction of implementation of Clarification of interaction with CCBS service	4.0.1	4.1.0	

Annex 3: TSs and TRs under SA1 responsibility

Type	Number	Title
TR	21.905	3G Vocabulary
TS	22.001	Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network(PLMN)
TS	22.002	Bearer Services Supported by a GSM PLMN
TS	22.003	Teleservices Supported by a GSM Public Land Mobile Network (PLMN)
TS	22.004	General on Supplementary Services
TS	22.011	Service accessibility
TS	22.016	International Mobile Equipment Identities (IMEI)
TS	22.024	Description of Charge Advice Information (CAI)
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)
TS	22.034	High Speed Circuit Switched Data (HSCSD) – Stage 1
TS	22.038	SIM application toolkit (SAT); Stage 1
TS	22.041	Operator Determined Call Barring
TS	22.042	Network Identity and Time Zone (NITZ), stage 1
TS	22.043	Support of Localised Service Area (SoLSA) – Stage 1
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1
TS	22.060	General Packet Radio Service (GPRS); Stage 1
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) – Stage 1
TS	22.071	Location Services (LCS); Stage 1 (T1P1)
TS	22.072	Call Deflection (CD); Stage 1
TS	22.078	CAMEL; Stage 1
TS	22.079	Support of Optimal Routing; Stage 1
TS	22.081	Line Identification Supplementary Services; Stage 1
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1
TS	22.087	User-to-user signalling (UUS); Stage 1
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1
TS	22.094	Follow Me Stage 1
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1
TS	22.100	UMTS Phase 1
TS	22.101	UMTS Service principles
TS	22.105	Services & Service capabilities
TS	22.115	Service Aspects Charging and billing
TS	22.121	Provision of Services in UMTS – The Virtual Home Environment
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems
TS	22.135	Multicall Stage1

Type	Number	Title
TS	22.140	Multimedia Messaging Service Stage 1
TR	22.907	Terminal concepts
TR	22.960	Mobile multimedia services
TR	22.971	Automatic establishment of roaming relationships
TR	22.972	Multimedia
TR	22.975	Advanced addressing
TR	22.976	Release 2000 services and capabilities
TR	23.927	VHE, Open Service Architecture