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TSG SA1 STATUS REPORT

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1 General Overview of Progress

The TSG_SA1#28 Plenary Meeting was held in Beijing, P.R. China from the 4 - 8 April 2005. It was chaired by Mr Michele Zarri (T-Mobile), Mr Paul Carpenter (RIM) (and Mr Chris Sachno for about five minutes). The secretary was Mr Michael Clayton from the MCC (who did not chair at any time during the meeting). The host was Huawei.

2 External Liaisons

The following liaison statements have been sent from SA1 to external bodies.

Document Number	Title	To	Copy	Sent
S1-050509	LS GSMA Video Telephony Interoperability Project (VTIOP) - Liaison Statement to SA1 regarding WID for VT as a teleservice	GSMA VTIOP, GSMA SRG		10/04/2005
S1-050537	LS on Service connectivity and provisioning	OMA-DM, GSMA SCAG	SA	10/04/2005

SA1 has managed to keep its output of liaison statements to nine at this meeting.

3 Change Requests for R99

3.1 Use of terms “calling subscriber” and “destination subscriber (02.68, 02.69)

There are two CRs for R99 at this meeting to GSM 02.68 and GSM 02.69 on the use of terms “calling subscriber” and “destination subscriber”. According to the definition of these terms in sub clause 3.1 in 02.68 and 02.69, a calling subscriber can be a service subscriber or a dispatcher. However, the behaviour of the subscriber and/or dispatcher and how they are handled in the network is different. Therefore, the stage 1 does not reflect the functionality that is currently in the network.

Currently, there are two different implementations in the field due to this 2G (GSM) specification being unclear, and this needs to be corrected.

There are also mirror CRs up to Rel-7 for 42.068 and up to Rel-6 for 42.069.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050209	02.68	A015	-	R99	F	Correction on the use of calling subscriber and destination subscriber (02.68 - R99)	8.1.0	8.2.0	S1-050469
SP-28	SP-050209	42.068	009	-	Rel-4	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-4)	4.1.0	4.2.0	S1-050470
SP-28	SP-050209	42.068	010	-	Rel-5	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-5)	5.0.1	5.1.0	S1-050471
SP-28	SP-050209	42.068	011	-	Rel-6	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-6)	6.0.0	6.1.0	S1-050472
SP-28	SP-050209	42.068	012	-	Rel-7	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-7)	7.2.0	7.3.0	S1-050477

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
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SP-28	SP-050210	02.69	A016	-	R99	F	Correction on the use of calling subscriber and destination subscriber (02.69 - R99)	8.1.0	8.2.0	S1-050473
SP-28	SP-050210	42.069	003	-	Rel-4	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-4)	4.1.0	4.2.0	S1-050474
SP-28	SP-050210	42.069	004	-	Rel-5	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-5)	5.0.1	5.1.0	S1-050475
SP-28	SP-050210	42.069	005	-	Rel-6	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-6)	6.0.0	6.1.0	S1-050476

4 Change Requests for Rel-4

There are no CRs for Rel-4.

5 Change Requests for Rel-5

5.1 AoC and SCUDIF (22.024, 22.086)

There is one subject for Rel-5 in terms of CRs relating to AoC and SCUDIF. The stage 2 for SCUDIF (TS 23.172) does not specify anything related to interactions with the AoC supplementary service and so it is necessary to put these into the stage one for AoC in the form of a new sub-clause.

If SCUDIF is used to change the bearer from audio to video, or vice versa, there could be a significant amount of difference between the cost being presented to the customer and the actual bill calculated in the network. Hence, on success of SCUDIF a facility message is sent to convey new values for the CAI parameters.

Both 22.024 and 22.068 are affected and so two documents SP-050x003 and SP-050x004 are presented for approval which also contain mirror CRs for Rel-5 and Rel-6.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050211	22.024	002	-	Rel-5	F	AoC in SCUDIF for 22.024	5.0.0	5.1.0	S1-050396
SP-28	SP-050211	22.024	003	-	Rel-6	A	AoC in SCUDIF for 22.024	6.0.0	6.1.0	S1-050397

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050212	22.086	003	-	Rel-5	F	AoC in SCUDIF for 22.086	5.0.0	5.1.0	S1-050398
SP-28	SP-050212	22.086	004	-	Rel-6	A	AoC in SCUDIF for 22.086	6.0.0	6.1.0	S1-050399

6 Change Requests for Rel-6

The following sections contain CRs to release 6.

6.1 Correction of abbreviation of OSA in 21.905 (Rel-6)

Document SP-050213 contains CRs to 21.905 in correct the abbreviation for OSA. Rather than Open Service Access currently it is Open Service Architecture which was the old acronym.

The change is for Rel-6 and Rel-7.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050213	21.905	062	-	Rel-6	F	Correction of abbreviation in 21.905 (Rel-6)	6.8.0	6.9.0	S1-050487
SP-28	SP-050213	21.905	063	-	Rel-7	A	Correction of abbreviation in 21.905 (Rel-7)	7.0.0	7.1.0	S1-050488

6.2 Correction to interworking between CAMEL and SCUDIF calls (22.078)

The present clause 21 of 22.078 deals with the interworking of CAMEL and SCUDIF although the title of the clause also contains a reference to video calls. Since the control of video calls is already available in earlier CAMEL Phases then this can be removed from the title. Also, the restrictions that apply to video calls are similar to restrictions that apply to data calls, fax calls etc. and to video calls should not be singled out.

Also, to improve readability the SCUDIF-specific requirements need to be split up into sub-clauses of clause 21. There are also aspects related to:

- Call Party Handling;
- User Interaction;
- User-requested service change;
- CAMEL warning tones;
- Mid-call procedure;
- Follow-on call; and,
- Service initiation at unsuccessful call establishment.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050214	22.078	185	-	Rel-6	F	CR, Correction to interworking between CAMEL and SCUDIF calls	6.7.0	6.8.0	S1-050534
SP-28	SP-050214	22.078	186	-	Rel-7	A	CR, Correction to interworking between CAMEL and SCUDIF calls	7.3.0	7.4.0	S1-050535

6.3 Removal of E Calls in the PS domain from Rel-6 (22.101, 22.234)

At SA #27 it was announced that Emergency calls in the PS domain would not be completed for the Rel-6 timeframe. Therefore, SA1 was given an action to remove the requirement from Rel-6.

There were two references found regarding this in 22.101 and 22.234.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050215	22.101	161	-	Rel-6	F	CR to 22.101 on removal of E Calls in the PS domain from Rel-6	6.9.0	6.10.0	S1-050486
SP-28	SP-050215	22.234	016	-	Rel-6	F	CR to 22.234 on Removal of requirements for emergency calls for IMS in Rel-6	6.2.0	6.3.0	S1-050524

6.4 CR on Service Provider Name (22.101)

At the last meeting of SA1, a liaison statement was received from T3 (CT6) indicating that

the implementation of the Service Provider Name (SPN) service is open to interpretations leading to different handset implementations. T3 (CT6) was asking for some clarification; essentially, there is a choice between a handset dependant implementation or a USIM dependent one.

In the end, the operator option held sway and so two CRs to Rel-6 and Rel-7 are being presented in document SP-050216 for approval.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050216	22.101	162	-	Rel-6	F	CR on Service Provider Name	6.9.0	6.10.0	S1-050518
SP-28	SP-050216	22.101	163	-	Rel-7	A	CR on Service Provider Name	7.1.0	7.2.0	S1-050519

6.5 Requirements for the handling of SIP URIs with Presence or IM prefixes (22.228)

It would appear that CN1 (CT1) has been studying SIP URI message interworking between 3GPP IMS based networks (where URI prefixes are not needed) and (fixed) SIP IP networks that sometimes use prefixes as specified by the IETF. Whilst it is recognised that 3GPP IMS networks (a) don't need URI prefixes and (b) are currently capable of correctly routing any incoming URIs with prefixes to the addressee (by ignoring any prefixes), operators consider it desirable to be able to append prefixes to URIs, if needed, for correct routing to entities in non-3GPP networks.

This was reported in SA1, in conjunction with a CR to 22.228 to include the requirement. It was agreed at SA1 and is provided in document SP-050217 for approval.

Subsequent to the SA1 meeting, it would appear that the CR could benefit from some improvement and it is possible that a revision to this CR could be made available at the SA #28 meeting.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050217	22.228	031	-	Rel-6	F	Requirements for the handling of SIP URIs with Presence or IM prefixes	6.8.0	6.9.0	S1-050452

6.6 Support of PS Services (22.234)

At SA #27 SA1 put forward two CRs to 22.234 on Service Requirements for I-WLAN (Rel-6, Rel-7). The main interest of I-WLAN is access to 3GPP PS based services, but the requirement is only implicitly stated in clause 5 "Service principles". SA1 believed that this should be more explicit and so is proposing the addition of a statement under clause 6 "Service Requirements".

The CR014 was approved and CR013 was returned to SA WG1 for update to clarify the clause 6.3 for SMS and MMS services (TD SP-050061). This has been done and the Rel-6 is presented in document SP-050218 for approval.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050218	22.234	015	-	Rel-6	F	CR to 22.234 Rel6: support of 3GPP PS services	6.2.0	6.3.0	S1-050480

6.7 Additional requirements for OSA service broker (22.127)

Service brokering is a term used to encapsulate the functions of service selection, service provisioning, feature or service interaction and service chaining. The OSA APIs provide a suite of APIs that address many of the functional and operational aspects of enabling service delivery through open standardised specifications. However there are no defined mechanisms or semantics that address the full scope of service brokering, in particular selection and provisioning for multi service usage requiring service interaction and service chaining.

The functions of service brokering apply equally to legacy circuit switched environments and next generation IMS, and it is therefore necessary to introduce an OSA requirement for Service brokering that will allow a suitable solution for service brokering consistent with the OSA and broader 3GPP architecture and specifications to be provided.

A CR to introduce this concept was provided in document SP-050065 at SA #27, but it was there was an objection that the addition of the proposed text would make the requirements unclear and cause much discussion in other WGs. The CRs were therefore sent back to SA WG1 for clarification and SA WG1 was asked to liaise with other impacted groups and return with an agreeable CR.

This has been done and a revised version is provided in document SP-050219.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050219	22.127	076	2	Rel-7	B	Additional requirements for OSA service broker	6.8.0	6.9.0	S1-050483

7 Change Requests for Rel-7

The following sections contain CRs to release 7.

7.1 Correction of WLAN into I-WLAN (22.038)

It was noticed at the last meeting that there is a reference to WLAN in 22.038. This should really be I-WLAN and so this simple change is presented in document SP-050x012 to correct this.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050220	22.038	028	-	Rel-7	F	CR 22.038 rel-7: Correction of WLAN into I-WLAN	7.3.0	7.4.0	S1-050479

7.2 Introducing notification based on current location of target UE (22.071)

SA1 is presenting a CR to 22.071 which Introduces notification based on current location of target UE. Essentially, there are times at which a user of a mobile may wish be notified of a request to be located. Under these conditions, an application that is granted conditional reporting authorization must notify and obtain reporting authorization from the User of target UE after performing positioning but prior to reporting the location of target UE.

Thus the User of the target UE shall be given an opportunity to accept or reject the positioning attempt only when the user is at chosen locations(s) that are specified in the

user's privacy profile. In these circumstances, the User will have to be located first and an additional privacy checking, on his/her location will be performed. This additional privacy check may result in the user being notified before his location is sent to the requesting entity.

The CR to implement this is provided for approval in SP-050x013.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050221	22.071	073	-	Rel-7	C	Introducing notification based on current location of target UE	7.1.0	7.2.0	S1-050531

7.4 Clarification of LCS in I-WLAN and correction of reference (22.234)

There are two independent CRs to 22.234 one to correct a faulty reference and the other to clarify LCS as it relates to I-WLAN.

Regarding the correction to the reference, the affected text refers to a title of a sub clause in 22.101. The name of this particular subchapter was changed in CR 22.101-136 in Release 6 and was propagated to release 7. Hence, the offending text is deleted and a reference made only to 22.101.

The second CR makes a specific reference to the support of LCS in I-WLAN.

Both CRs are provided for approval in SP-050222.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050222	22.234	017	-	Rel-7	F	CR to 22.234 on a Correction of a faulty reference in 22.234	7.1.0	7.2.0	S1-050525
SP-28	SP-050222	22.234	018	-	Rel-7	B	Clarification of LCS in I-WLAN	7.1.0	7.2.0	S1-050532

7.5 Various CRs on AIPN (22.978)

There are a number of CRs to 22.978 to improve the TR after its approval at SA #27.

The first CR contains a number of editorial changes.

The second makes a change to the text describing service adaptation, which appears in two chapters of TR 22.978 describing the 'Key Aspects of an AIPN'. In order to avoid duplication of essentially the same content it is necessary that these two pieces of text are combined.

The third makes changes to improve the informative annexes.

The next changes aligns the identified recommended requirements' with the conclusions of TR 22.978 and merges two similar requirements contained within two different sections of TR 22.978.

The CR 005 adds the requirement concerning content-based charging between operators.

The next CR 006 adds some more flexible service adaptation, which is under the operator's control. This CR adds the requirement for the AIPN to adapt sessions not only according to terminal capabilities, but also according to user preferences, subscriber

priorities, network conditions or other operator-defined criteria.

The CR 007 clarifies the use of multiple public identities by individuals.

The penultimate CR enables integrated rich services in AIPN, which is difficult for operators to do easily and rapidly in traditional service architectures.

Finally, CR 009 introduces Group Communication Services to AIPN.

The CRs are presented in SP-050223 for approval.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	SP-050223	22.978	001	-	Rel-7	F	Corrections to TR 22.978	7.0.0	7.1.0	S1-050496
SP-28	SP-050223	22.978	002	-	Rel-7	F	Improvements to Key Aspects of an AIPN	7.0.0	7.1.0	S1-050497
SP-28	SP-050223	22.978	003	-	Rel-7	F	Improvement of TR 22.978 Annexes	7.0.0	7.1.0	S1-050498
SP-28	SP-050223	22.978	004	-	Rel-7	F	Alignment and improvement of 'Recommended requirements' and 'Conclusions' of TR 22.978	7.0.0	7.1.0	S1-050499
SP-28	SP-050223	22.978	005	-	Rel-7	F	Content-based charging between operators	7.0.0	7.1.0	S1-050502
SP-28	SP-050223	22.978	006	-	Rel-7	C	More Flexible service adaptation under operator's control	7.0.0	7.1.0	S1-050503
SP-28	SP-050223	22.978	007	-	Rel-7	C	Multiple public addresses for single device/user	7.0.0	7.1.0	S1-050529
SP-28	SP-050223	22.978	008	-	Rel-7	F	Enabling integrated rich services in AIPN	7.0.0	7.1.0	S1-050538
SP-28	SP-050223	22.978	009	-	Rel-7	B	CR to improve multicast description in TR 22.978	7.0.0	7.1.0	S1-050539

7.5 Various CRs on VGCS (42.068)

There are four CRs for Rel-7 to 42.068.

The first CR relates to sending or receiving of short messages in parallel to an active group call. Currently members of an active group call (talkers or listeners) are not able to send or receive point-to-point short messages in parallel to the group call. This CR changes this and is requested for the use of VGCS for public authority officials.

The Second CR relates to support of GPRS in parallel to an active group call. It is similar to the first, but this time allows for GPRS to be used in parallel to a VGCS call.

The third CR clarifies that in a group call SMS is addressed by the group call reference.

The last CR clarifies the requirements for VGCS talker change. In a Voice Group Call, if a listener wants to talk with higher priority or wants to talk in a case of emergency he needs to indicate his wish to talk with high priority to the network. If the current - lower priority - talker is located in the same cell, the uplink over the air in this cell is not free and so this CR clarifies that the privileged service subscriber shall not become the new talker until he is accepted by the network.

Also, the CR mandates that additional information about the current talker shall be received by all the listeners of the voice group call, regardless whether they have requested the talker functionality or indicated an emergency situation.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
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SP-28	SP-050224	42.068	013	-	Rel-7	B	CR to 42.068: Sending or receiving of short messages in parallel to an active group call	7.2.0	7.3.0	S1-050491
SP-28	SP-050224	42.068	014	-	Rel-7	B	CR to 42.068: Support of GPRS in parallel to an active group call	7.2.0	7.3.0	S1-050492
SP-28	SP-050224	42.068	015	-	Rel-7	F	Addressing SMS to a Group	7.2.0	7.3.0	S1-050493
SP-28	SP-050224	42.068	016	-	Rel-7	F	CR to 42.068 - Clarification on requirements for VGCS talker change	7.2.0	7.3.0	S1-050528

7.6 Voice Call Continuity requirements (22.101)

At SA #27, SA2 introduced a new WI (SP-050177) called Voice call continuity between CS and IMS (incl. I-WLAN). At the time, it was questioned where the requirements would come from and based on this, the WI was revised and SA1 was directed check this WID from the requirements perspective and provide input to SA WG2.

SA1 has done this and started work on the requirements. These come in the form of a CR to 22.101, which adds a new sub clause. It is presented in document SP-050x018 for approval.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	Doc-2nd-Level
SP-28	x018	22.101	164	-	Rel-7	B	Voice Call Continuity requirements	7.1.0	7.2.0	S1-050581

8 New TSs/TRs

SA1 has one TS to present for information/approval.

8.1 TS 22.279 (v1.0.1) on Combined CS Calls and IMS Sessions (Rel-7)

At the last SA meeting, 22.979, which contained a Feasibility study on Combined CS Calls and IMS Sessions was approved. Also at SA 27, SA2 presented 23.279 for information and at the time it was questioned what was the basis for the requirements for the stage 2.

SA1 has now progressed the stage 1 for this in 22.279, which specifies service requirements for Combining CS and IMS services (CSICS), using a CS speech or CS multimedia call in association with an IMS session. The IMS session may consist of one or more IMS services

The TS is being presented as version 1.0.1, but in light of the ongoing work in SA2, SA1 is requesting that a one stop approval process be applied.

Therefore, the TS is being presented in document SP-050226 for approval.

9 WIs from SA1

9.1 Updated WI on Review of Network Selection Principles

This work item was approved at SA #27 (SP-050184) and the purpose is to review the network selection mechanisms in TS22.011 and requirements from other work areas, to take account of new methods of access and new operator types and to ensure that the appropriate access is chosen based on the requirements described in the WID.

The work has progressed well and a draft of 22.811 exists. SA1 is now in a position to judge when the output will be ready and this simple update of the WID contains changes

to the timescales and identifies the deliverable.

It is presented in document SP-050227 for approval.

9.2 Update of WID for Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism

Now that the report on Combining CS and IMS services has been approved (SA #27 22.979) the work on this issue has progressed with the TS in 22.279 which is being presented for information and approval (see section 8.1). Based on this decision to produce a stage 1 TS for Combinational services (TS22.279), rather than just CRs to existing specifications, and considering the need to reference the new CSI WID recently approved by CT, it is proposed to amend the existing SA WID (SP-050074) to reflect these changes.

There are a number of changes in the text to refer to the stage 1 and the expected output and timescale section is adjusted.

It is presented in SP-050228 for approval.

9.3 New WI for Personal Network (PN) and Personal Area Network (PAN)

Within the context of the WI AIPN to study the feasibility of the progression of the 3GPP system to an AIPN it has been identified that some features have been created which might be of interest for earlier completion and even beneficial for deployment in a mixed CS/PS domain. Two, in particular, have been identified:

“Personal Network: *A Personal Network, in the context of AIPN, consists of more than one device (terminal or server provided by the AIPN operator) under the control of one user providing access to the AIPN. These devices are interconnected by the AIPN such that the user perceives a continuous secure connection regardless of their relative locations. The user controls the PN using facilities provided by the AIPN.”*

“Personal Area Network: *A Personal Area Network (PAN), in the context of AIPN consists of more than one device (terminal) controlled by, and physically close to, the same user (person). All the devices within a PAN use the same USIM. These devices are connected together using internal PAN means. The user obtains services from the AIPN using his multiple devices which all access the users USIM through the PAN to gain access to the AIPN. The user controls the PAN directly.”*

This WI is a feature which is associated with AIPN and it is presented in document SP-050229 for approval.

9.4 New WI on Multimedia Telephony Capabilities for IMS

Another new work item is being presented by SA1 on Multimedia Telephony Capabilities for IMS. In addition to reusing the IMS system as defined by 3GPP, TISPAN is defining an IMS based Multimedia Telephony service, that is similar but not identical to the CS based Telephony service provided by traditional ISDNs and PSTNs. TISPAN has named this service PSTN/ISDN simulation Service.

A similar service, defined by 3GPP, is needed for wireless access to IMS, in order to be able to define services to the end-users, and to support interoperability in multi-vendor and multi-operator environment and to provide the user with the same experience across the

different IP based accesses and domains.

The SA1 WI is presented in document SP-050230 for approval.

9.5 New WI on Transferring of emergency Call data

Recently, a number of discussions were between the Commission for the European Communities (CEC), the automotive industry, the telecommunication industry and ETSI standards groups regarding the provision of in-vehicle emergency calls. Based on initial discussions, a joint initiative of the CEC (DG Enterp and DG InfoSo), industry and other stakeholders was defined with aims to accelerate the development, deployment and use of Intelligent Integrated Safety Systems that use information and communication technologies in intelligent solutions, in order to increase road safety and reduce the number of accidents on Europe's roads. This initiative was called **eSafety**.

As part of this initiative, **eCall** was defined as a specific item in the scope of the eSafety initiative. It is intended to extent the current E112 capabilities to enable the Transferring of eCall data between the Vehicle and the Public Safety Answering Points (PSAPs). This should rely on existing GSM/UMTS infrastructure.

SA1 has reviewed the work briefly and are of the opinion that the approach should be global. Based on this, SA1 is proposing a WI for this work based on input from all the members of 3GPP on order to get a co-ordinated approach.

It is presented in SP-050231 for approval.

9.5 New WI on WID on MBMS Enhancements

In the near future it is expected that an increasing number of MBMS services deployment will be seen. This will soon lead to the expectation of more stable services and more access alternatives for accessing them, e.g. via IP accesses such as WLAN.

From operators' point of view it would also be desirable to profit from the radio-resource efficient broadcast / multicast mechanisms provided by MBMS transport services for IMS based services. Examples could be value-added services like e-learning or PoC-enhancements. Additionally, MBMS should provide higher bit-rates for applications like digital TV etc.

Although the basic functionality already exists in Rel-6 MBMS, additional requirements are necessary to enhance the current MBMS in Rel-7 and enable IMS to use MBMS transport.

Hence, SA1 is presenting a new WI to cover this in SP-050232 for approval.

10 Other Issues

10.1 Vice Chairmanship of SA1

One of the vice chairman of SA1, Paul Carpenter, completed his first term of office at the last meeting. Therefore, a call for candidates was issued and sent on the SA1 and SA leaders list email exploders, with a view to having a vote at SA1 #28. Since this is his first term of office, Mr Carpenter was eligible to stand again for a second term and consequently his nomination was received.

At the last meeting of SA1, a further call for candidates was made. There being no other candidates, Mr Carpenter was elected by acclamation by SA1.

11 Meetings of SA1

11.1 Meetings since last SA

The following meetings have been held since SA #27.

Meeting	Date	Place	Host
SA1#28 3GPPSA1-SWG	04 April – 08 April 2005 2 - 4 May 2005	Beijing, P.R. China Kista, Sweden	Huawei Ericsson

11.2 Planned meetings

SA1 has the following meetings scheduled, so far.

SA1 Plenary

Meeting	Date	Place	Host
SA1#29	11 - 15 July 2005	Povoa de Varzim, Portugal	European friends of 3GPP
SA1#30	24 - 28 October 2005	Vancouver, Canada	American friends of 3GPP

SA1 SWGs

None planned.

Annex 1: Documents provided to this Plenary

Tdoc	Title	Source	Agenda	Doc for
SP-050207	Presentation of SA1 to SA #28	SA WG1 Chairman	7.1.1	Information
SP-050208	Status Report of SA1 to SA #28	SA WG1 Chairman	7.1.1	Information
SP-050209	CRs to 02.68 and 42.068 on Correction on the use of calling subscriber and destination subscriber (R99, Rel-4 Rel-5, Rel-6, Rel-7)	SA1	7.1.3	Approval
SP-050210	CRs to 02.69 and 42.069 on Correction on the use of calling subscriber and destination subscriber (R99, Rel-4 Rel-5, Rel-6)	SA1	7.1.3	Approval
SP-050211	CRs to 22.024 on AoC in SCUDIF (Rel-5, Rel-6)	SA1	7.1.3	Approval
SP-050212	CRs to 22.086 on AoC in SCUDIF (Rel-5, Rel-6)	SA1	7.1.3	Approval
SP-050213	CRs 21.905 on Correction of abbreviation of OSA (Rel-6, Rel-7)	SA1	7.1.3	Approval
SP-050214	CRs to 22.078 on Correction to interworking between CAMEL and SCUDIF calls (Rel-6, Rel-7)	SA1	7.1.3	Approval
SP-050215	CRs to 22.101 and 22.234 on Removal of requirements for emergency calls for IMS and PS (Rel-6)	SA1	7.1.3	Approval
SP-050216	CRs to 22.101 on Service Provider Name (Rel-6, Rel-7)	SA1	7.1.3	Approval
SP-050217	CR to 22.228 on Requirements for the handling of SIP URIs with Presence or IM prefixes (Rel-6)	SA1	7.1.3	Approval
SP-050218	CR to 22.234 on support of 3GPP PS services (Rel-6)	SA1	7.1.3	Approval
SP-050219	CRs to 22.127 on Additional requirements for OSA service broker (Rel-6)	SA1	7.1.3	Approval
SP-050220	CR 22.038 on Correction of WLAN into I-WLAN (Rel-7)	SA1	7.1.3	Approval
SP-050221	CR to 22.071 on Introducing notification based on current location of target UE (Rel 7)	SA1	7.1.3	Approval
SP-050222	CRs to 22.234 on Clarification of LCS in I-WLAN and corrections (Rel-7)	SA1	7.1.3	Approval
SP-050223	CRs to 22.978 with various subjects (Rel-7)	SA1	7.1.3	Approval
SP-050224	CRs to 42.068 with various subjects (Rel-7)	SA1	7.1.3	Approval
SP-050225	CRs to 22.101 to include Voice Call Continuity requirements (Rel-7)	SA1	7.1.3	Approval
SP-050226	TS 22.279 (v1.0.1) - Combined CS Calls and IMS Sessions	SA1	7.1.3	Information
SP-050227	Update of Network Selection Principles WID	SA1	7.1.3	Approval
SP-050228	Update of WI for Combined CS Calls and IMS Sessions	SA1	7.1.3	Approval

SP-050229	New WI for Personal Network (PN) and Personal Area Network (PAN)	SA1	7.1.3	Approval
SP-050230	New WI for Multimedia Telephony Capabilities for IMS	SA1	7.1.3	Approval
SP-050231	New WI for Transferring of emergency Call data	SA1	7.1.3	Approval
SP-050232	New WI for MBMS Enhancements	SA1	7.1.3	Approval

Annex 2: CRs provided to this Plenary

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	SA1 Doc
SP-28	SP-050209	02.68	A015	-	R99	F	Correction on the use of calling subscriber and destination subscriber (02.68 - R99)	8.1.0	8.2.0	S1-050469
SP-28	SP-050209	42.068	009	-	Rel-4	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-4)	4.1.0	4.2.0	S1-050470
SP-28	SP-050209	42.068	010	-	Rel-5	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-5)	5.0.1	5.1.0	S1-050471
SP-28	SP-050209	42.068	011	-	Rel-6	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-6)	6.0.0	6.1.0	S1-050472
SP-28	SP-050209	42.068	012	-	Rel-7	A	Correction on the use of calling subscriber and destination subscriber (42.068 - Rel-7)	7.2.0	7.3.0	S1-050477
SP-28	SP-050210	02.69	A016	-	R99	F	Correction on the use of calling subscriber and destination subscriber (02.69 - R99)	8.1.0	8.2.0	S1-050473
SP-28	SP-050210	42.069	003	-	Rel-4	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-4)	4.1.0	4.2.0	S1-050474
SP-28	SP-050210	42.069	004	-	Rel-5	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-5)	5.0.1	5.1.0	S1-050475
SP-28	SP-050210	42.069	005	-	Rel-6	A	Correction on the use of calling subscriber and destination subscriber (42.069 - Rel-6)	6.0.0	6.1.0	S1-050476
SP-28	SP-050211	22.024	002	-	Rel-5	F	AoC in SCUDIF for 22.024	5.0.0	5.1.0	S1-050396
SP-28	SP-050211	22.024	003	-	Rel-6	A	AoC in SCUDIF for 22.024	6.0.0	6.1.0	S1-050397
SP-28	SP-050212	22.086	003	-	Rel-5	F	AoC in SCUDIF for 22.086	5.0.0	5.1.0	S1-050398
SP-28	SP-050212	22.086	004	-	Rel-6	A	AoC in SCUDIF for 22.086	6.0.0	6.1.0	S1-050399
SP-28	SP-050213	21.905	062	-	Rel-6	F	Correction of abbreviation in 21.905 (Rel-6)	6.8.0	6.9.0	S1-050487
SP-28	SP-050213	21.905	063	-	Rel-7	A	Correction of abbreviation in 21.905 (Rel-7)	7.0.0	7.1.0	S1-050488
SP-28	SP-050214	22.078	185	-	Rel-6	F	CR, Correction to interworking between CAMEL and SCUDIF calls	6.7.0	6.8.0	S1-050534
SP-28	SP-050214	22.078	186	-	Rel-7	A	CR, Correction to interworking between CAMEL and SCUDIF calls	7.3.0	7.4.0	S1-050535
SP-28	SP-050215	22.101	161	-	Rel-6	F	CR to 22.101 on removal of E Calls in the PS domain from Rel-6	6.9.0	6.10.0	S1-050486
SP-28	SP-050215	22.234	016	-	Rel-6	F	CR to 22.234 on Removal of requirements for emergency calls for IMS in Rel-6	6.2.0	6.3.0	S1-050524
SP-28	SP-050216	22.101	162	-	Rel-6	F	CR on Service Provider Name	6.9.0	6.10.0	S1-050518
SP-28	SP-050216	22.101	163	-	Rel-7	A	CR on Service Provider Name	7.1.0	7.2.0	S1-050519
SP-28	SP-050217	22.228	031	-	Rel-6	F	Requirements for the handling of SIP URIs with Presence or IM prefixes	6.8.0	6.9.0	S1-050452
SP-28	SP-050218	22.234	015	-	Rel-6	F	CR to 22.234 Rel6: support of 3GPP PS services	6.2.0	6.3.0	S1-050480
SP-28	SP-050219	22.127	076	2	Rel-7	B	Additional requirements for OSA service broker	6.8.0	6.9.0	S1-050483
SP-28	SP-050220	22.038	028	-	Rel-7	F	CR 22.038 rel-7: Correction of WLAN into I-WLAN	7.3.0	7.4.0	S1-050479
SP-28	SP-050221	22.071	073	-	Rel-7	C	Introducing notification based on current location of target UE	7.1.0	7.2.0	S1-050531
SP-28	SP-050222	22.234	017	-	Rel-7	F	CR to 22.234 on a Correction of a faulty reference in 22.234	7.1.0	7.2.0	S1-050525
SP-28	SP-050222	22.234	018	-	Rel-7	B	Clarification of LCS in I-WLAN	7.1.0	7.2.0	S1-050532
SP-28	SP-050223	22.978	001	-	Rel-7	F	Corrections to TR 22.978	7.0.0	7.1.0	S1-050496
SP-28	SP-050223	22.978	002	-	Rel-7	F	Improvements to Key Aspects of an AIPN	7.0.0	7.1.0	S1-050497
SP-28	SP-050223	22.978	003	-	Rel-7	F	Improvement of TR 22.978 Annexes	7.0.0	7.1.0	S1-050498
SP-28	SP-050223	22.978	004	-	Rel-7	F	Alignment and improvement of 'Recommended requirements' and 'Conclusions' of TR 22.978	7.0.0	7.1.0	S1-050499

SP-28	SP-050223	22.978	005	-	Rel-7	F	Content-based charging between operators	7.0.0	7.1.0	S1-050502
SP-28	SP-050223	22.978	006	-	Rel-7	C	More Flexible service adaptation under operator's control	7.0.0	7.1.0	S1-050503
SP-28	SP-050223	22.978	007	-	Rel-7	C	Multiple public addresses for single device/user	7.0.0	7.1.0	S1-050529
SP-28	SP-050223	22.978	008	-	Rel-7	F	Enabling integrated rich services in AIPN	7.0.0	7.1.0	S1-050538
SP-28	SP-050223	22.978	009	-	Rel-7	B	CR to improve multicast description in TR 22.978	7.0.0	7.1.0	S1-050539
SP-28	SP-050224	42.068	013	-	Rel-7	B	CR to 42.068: Sending or receiving of short messages in parallel to an active group call	7.2.0	7.3.0	S1-050491
SP-28	SP-050224	42.068	014	-	Rel-7	B	CR to 42.068: Support of GPRS in parallel to an active group call	7.2.0	7.3.0	S1-050492
SP-28	SP-050224	42.068	015	-	Rel-7	F	Addressing SMS to a Group	7.2.0	7.3.0	S1-050493
SP-28	SP-050224	42.068	016	-	Rel-7	F	CR to 42.068 - Clarification on requirements for VGCS talker change	7.2.0	7.3.0	S1-050528

Annex 3: 3G&GSM TSs and TRs under SA1 responsibility

Spec	Title	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	Rel-7
01.02	General Description of a GSM Public Land Mobile Network (PLMN)		4.0.2	5.0.0	6.0.1						
01.48	ISDN-based DECT/GSM interworking; Feasibility study			5.0.1	6.0.1						
01.56	GSM Cordless Telephony System (CTS) (Phase 1); CTS Authentication and Key Generation Algorithms Requirements					7.0.0					
01.60	GPRS requirements				6.0.0						
02.01	Principles of telecommunication services supported by a GSM Public Land Mobile Network(PLMN)	3.2.0	4.6.0	5.5.0	6.2.0	7.1.0					
02.02	Bearer Services (BS) Supported by a GSM Public Land Mobile Network (PLMN)	3.2.0	4.2.2	5.3.2	6.1.1	7.0.2					
02.03	Teleservices Supported by a GSM Public Land Mobile Network (PLMN)	3.4.1	4.3.1	5.3.2	6.0.0	7.0.0					
02.04	General on Supplementary Services	3.7.1	4.9.1	5.7.4	6.1.1	7.1.2					
02.06	Types of Mobile Stations (MS)	3.2.0	4.5.2	5.2.1	6.1.1	7.0.1					
02.07	Mobile Station (MS) Features	3.4.1	4.8.2	5.4.1	6.2.0	7.1.0					
02.11	Service accessibility	3.7.0	4.9.0	5.0.1	6.1.0	7.1.0					
02.16	International Mobile Station Equipment Identities (IMEI)	3.0.1	4.7.1	5.2.0	6.2.0	7.2.0					
02.20	Collection charges	3.0.1									
02.22	Stage 1 for personalisation of GSM ME			5.4.0	6.0.0	7.0.0					
02.24	Description of Charge Advice Information (CAI)		4.5.0	5.0.1	6.0.1	7.0.1					
02.30	Man-machine Interface (MMI) of the Mobile Station (MS)	3.9.0	4.13.0	5.7.1	6.1.0	7.1.1					
02.34	High Speed Circuit Switched Data (HSCSD); Stage 1			5.2.1	6.0.0	7.0.0					
02.40	Procedures for Call Progress Indications	3.2.0	4.5.0	5.0.0	6.0.0	7.0.1					
02.41	Operator Determined Barring		4.5.2	5.1.1	6.0.0	7.0.0					
02.42	Network Identity and Timezone (NITZ); Service Description, Stage 1			5.1.0	6.0.0	7.0.0					
02.43	Support of Localised Service Area (SoLSA); Service description; Stage 1					7.3.0	8.0.0				
02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1					7.2.1	8.0.1				
02.57	Mobile Station Application Execution Environment (MExE) Service description Stage 1					7.1.0					
02.60	General Packet Radio Service Stage 1 Description				6.3.1	7.5.0					
02.63	Packet Data on Signalling channels Service (PDS); Stage 1			5.0.0	6.0.0	7.0.0					
02.66	Support of Mobile Number Portability (MNP); Service description; Stage 1					7.1.0					
02.67	Enhanced Multi-Level Precedence and Pre-			5.1.1	6.1.1	7.0.1					

	emption Service (eMLPP); Stage 1										
02.68	Voice Group Call Service (VGCS); Stage 1			5.2.1	6.0.1	7.0.2	8.1.0				
02.69	Voice Broadcast Service (VBS); Stage 1			5.2.1	6.0.1	7.0.2	8.1.0				
02.71	Location Services (LCS); Stage 1					7.3.0					
02.72	Call Deflection Service description; Stage 1					7.2.1					
02.78	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)			5.6.0	6.6.1	7.2.0					
02.79	Support of Optimal Routeing (SOR); Service definition (Stage 1)			5.2.0	6.0.0	7.0.0					
02.81	Line Identification Supplementary Services; Stage 1		4.6.1	5.1.0	6.0.0	7.0.0					
02.82	Call Forwarding (CF) Supplementary Services; Stage 1	3.6.1	4.5.2	5.0.0	6.0.0	7.0.1					
02.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1		4.6.7	5.0.0	6.0.0	7.0.0					
02.84	MultiParty (MPTY) Supplementary Services; Stage 1		4.4.7	5.0.0	6.0.0	7.0.0					
02.85	Closed User Group (CUG) Supplementary Services; Stage 1		4.2.6	5.0.0	6.0.0	7.0.0					
02.86	Advice of Charge (AoC) Supplementary Services; Stage 1		4.1.5	5.0.0	6.0.0	7.0.0					
02.87	User-to-User Signalling (UUS) Service Description; Stage 1					7.1.2					
02.88	Call Barring (CB) Supplementary Services; Stage 1	3.6.1	4.4.3	5.0.0	6.0.0	7.0.0					
02.90	Unstructured Supplementary Service Data (USSD); Stage 1		4.1.1	5.1.0	6.0.0	7.0.0					
02.91	Explicit Call Transfer (ECT)			5.1.1	6.0.0	7.0.0					
02.93	Completion of Calls to Busy Subscriber (CCBS) Service Description; Stage 1				6.0.1	7.0.0					
02.95	Support of Private Numbering Plan (SPNP); Service description; Stage 1			5.2.0	6.0.0	7.0.0	8.0.0				
02.96	Name Identification Supplementary Services; Stage 1				6.0.1	7.0.0					
02.97	Multiple Subscriber Profile (MSP) Phase 1; Service description; Stage 1					7.1.0					
21.905	Vocabulary for 3GPP Specifications						3.3.0	4.5.0	5.9.0	6.8.0	
22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)						3.2.0	4.3.0	5.0.0	6.0.0	
22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)						3.6.0	4.2.0	5.0.0	6.0.0	
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)						3.3.0	4.3.0	5.2.0	6.0.0	
22.004	General on supplementary services						3.3.0	4.3.0	5.1.0	6.0.0	
22.011	Service accessibility						3.8.0	4.8.0	5.1.0	6.4.0	7.1.0
22.016	International Mobile Equipment Identities (IMEI)						3.3.0	4.2.1	5.0.0	6.0.0	
22.024	Description of Charge Advice Information (CAI)						3.0.1	4.0.0	5.0.0	6.0.0	

22.030	Man-Machine Interface (MMI) of the User Equipment (UE)						3.4.0	4.1.0	5.0.0	6.0.1	7.0.0
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1						3.2.1	4.1.0	5.0.0	6.0.0	
22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1						3.4.0	4.3.0	5.4.0	6.4.0	7.3.0
22.041	Operator Determined Call Barring						3.3.1	4.1.0	5.0.0	6.2.0	
22.042	Network Identity and Time Zone (NITZ) service description; Stage 1						3.0.1	4.2.1	5.1.0	6.0.0	
22.057	Mobile Execution Environment (MEEx) service description; Stage 1						3.0.1	4.1.0	5.4.0	6.0.0	
22.060	General Packet Radio Service (GPRS); Service description; Stage 1						3.5.0	4.4.0	5.3.0	6.0.0	
22.066	Support of Mobile Number Portability (MNP); Stage 1						3.2.0	4.0.0	5.1.0	6.1.0	
22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1						3.0.1	4.1.0	5.0.0	6.1.0	
22.071	Location Services (LCS); Stage 1						3.5.0	4.6.0	5.4.0	6.7.0	7.1.0
22.072	Call Deflection (CD); Stage 1						3.0.1	4.0.0	5.0.0	6.0.0	
22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1						3.9.0	4.5.0	5.15.0	6.7.0	7.3.0
22.079	Support of optimal routeing; Stage 1						3.0.1	4.0.0	5.0.0	6.0.0	
22.081	Line Identification supplementary services; Stage 1						3.2.0	4.1.0	5.0.0	6.0.0	
22.082	Call Forwarding (CF) Supplementary Services; Stage 1						3.0.2	4.2.0	5.0.0	6.0.0	
22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1						3.0.1	4.1.0	5.0.0	6.0.0	
22.084	MultiParty (MPTY) supplementary service; Stage 1						3.0.1	4.1.0	5.0.0	6.0.0	
22.085	Closed User Group (CUG) supplementary services; Stage 1						3.1.0	4.1.0	5.0.0	6.0.0	
22.086	Advice of Charge (AoC) supplementary services; Stage 1						3.1.0	4.0.0	5.0.0	6.0.0	
22.087	User-to-user signalling (UUS); Stage 1						3.1.0	4.0.0	5.0.0	6.0.0	
22.088	Call Barring (CB) supplementary services; Stage 1						3.0.2	4.1.0	5.0.0	6.0.0	
22.090	Unstructured Supplementary Service Data (USSD); Stage 1						3.1.0	4.0.0	5.0.0	6.0.0	
22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1						3.1.0	4.0.0	5.0.0	6.0.0	
22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1						3.0.1	4.0.0	5.0.0	6.0.0	
22.094	Follow Me service description - Stage 1						3.1.0	4.1.0	5.0.0	6.0.0	
22.096	Name identification supplementary services; Stage 1						3.0.1	4.0.0	5.0.0	6.0.0	
22.097	Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1						3.2.0	4.1.0	5.0.0	6.0.0	

22.100	UMTS Phase 1						3.7.0				
22.101	Service aspects; Service principles						3.17.0	4.10.0	5.13.0	6.9.0	7.1.0
22.105	Services and service capabilities						3.10.0	4.3.0	5.2.0	6.3.0	
22.115	Service aspects; Charging and billing						3.4.0	4.1.0	5.4.0	6.4.0	
22.121	Service aspects; The Virtual Home Environment (VHE); Stage 1						3.3.1	4.1.1	5.3.1		
22.127	Service Requirement for the Open Services Access (OSA); Stage 1							4.4.0	5.5.0	6.8.0	
22.129	Handover requirements between UTRAN and GERAN or other radio systems						3.6.0	4.4.0	5.2.0	6.1.0	
22.135	Multicall; Service description; Stage 1						3.4.0	4.2.0	5.0.0	6.0.0	
22.140	Multimedia Messaging Service (MMS); Stage 1						3.1.0	4.3.0	5.4.0	6.7.0	
22.141	Presence service; Stage 1									6.4.0	
22.146	Multimedia Broadcast/Multicast Service (MBMS); Stage 1									6.6.0	
22.174	Push service; Stage 1									6.2.0	
22.226	Global text telephony (GTT); Stage 1: Service description								5.2.0	6.0.0	
22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1								5.6.0	6.8.0	7.1.0
22.233	Transparent end-to-end packet-switched streamng service; Stage 1								5.0.0	6.3.0	
22.234	Requirements on 3GPP system to Wireless Local Area Network (WLAN) interworking									6.2.0	7.1.0
22.240	Service requirements for 3GPP Generic User Profile (GUP); Stage 1									6.5.0	
22.242	Digital Rights Management (DRM); Stage 1									6.3.0	
22.243	Speech recognition framework for automated voice services; Stage 1									6.4.0	
22.246	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1									6.2.0	
22.250	IP Multimedia Subsystem (IMS) Group Management; Stage 1									6.0.0	
22.340	IP Multimedia Subsystem (IMS) messaging; Stage 1									6.2.0	
22.800	IP Multimedia Subsystem (IMS) subscription and access scenarios									6.0.0	
22.811	Review of network selection principles										0.4.1
22.857	Run-time independent framework feasibility study									6.0.0	
22.903	Study on Videotelephony teleservic										0.1.0
22.934	Feasibility study on 3GPP system to Wireles Local Area Network (WLAN) interworking									6.2.0	
22.935	Feasibility study on Location Services (LCS) for Wireles Local Area Network (WLAN) interworking										1.0.0
22.936	Behaviour of multi-system terminals										0.3.0
22.940	IP Multimedia Subsystem (IMS) messaging;									6.0.0	

	Stage 1										
22.944	Report on service requirements for UE functionality split							5.1.0	6.0.0		
22.949	Study on a generalized privacy capability								6.0.0		
22.950	Priority service feasibility study								6.4.0		
22.951	Service aspects and requirements for network sharing								6.1.0		
22.952	Priority service guide								6.2.0		
22.953	Multimedia priority service feasibility study									0.3.0	
22.971	Automatic establishment of roaming relationships						3.1.1				
22.975	Advanced addressing						3.1.0				
22.977	Feasibility study for speech-enabled services								6.0.0		
22.978	All-IP network (AIPN) feasibility study									7.0.0	
22.979	Feasibility study on combined Circuit Switched (CS) calls and IP Multimedia Subsystem (IMS) sessions									7.0.0	
23.057	Mobile Execution Environment (MExE); Functional description; Stage 2						3.4.0	4.5.0	5.1.0	6.2.0	
34.907	Report on electrical safety requirements and regulations						3.0.0				
34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions						3.0.0				
42.043	Support of Localised Service Area (SoLSA); Service description; Stage 1							4.0.0	5.0.0	6.0.0	
42.056	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1							4.0.0	5.0.0	6.0.0	
42.068	Voice Group Call Service (VGCS); Stage 1							4.1.0	5.0.1	6.0.0	7.2.0