

SA1 Status Report to SA#29

SP-050500

Michele Zarri, T-Mobile
SA1 Chairman

.....**T**..Mobile..

A GLOBAL INITIATIVE

SA1 Leadership

- **Chairman: Michele Zarri (T-Mobile)**
- **Secretary: Michael Clayton (MCC)**
- **Vice-chairs:**
- **Paul Carpenter (RIM),**
 - Elected at SA1#28 (April 2005)
- **Chris Sachno (NTT DoCoMo),**
 - Elected at SA1#23 (January 2004)

SA1 Sub Working Groups and ad hocs

- **Active**
 - LoCation Services (LCS)
 - Wireless LAN (I-WLAN)
 - Priority Services
 - AIPN (All-IP Network)
 - CSICS (CS and IMS Combinational Services)
 - Multi-system terminals
 - VT/MITe (Videotelephony/Multimedia Telephony)
 - Network Selection Procedures
 - Personal Network Management
 - Voice Call Continuity
 - Ecall
- **Dormant**
 - Network protection

Meetings Held

- **SA1 Plenary**
 - SA1#29: 11 – 15 July 2005
 - Povia de Varzim, Portugal
 - Hosted by EF3
 -
- **SA1 VCC SWG**
 - 08 – 10 August 2005
 - Seattle, USA
 - Hosted by North American Friends of 3GPP

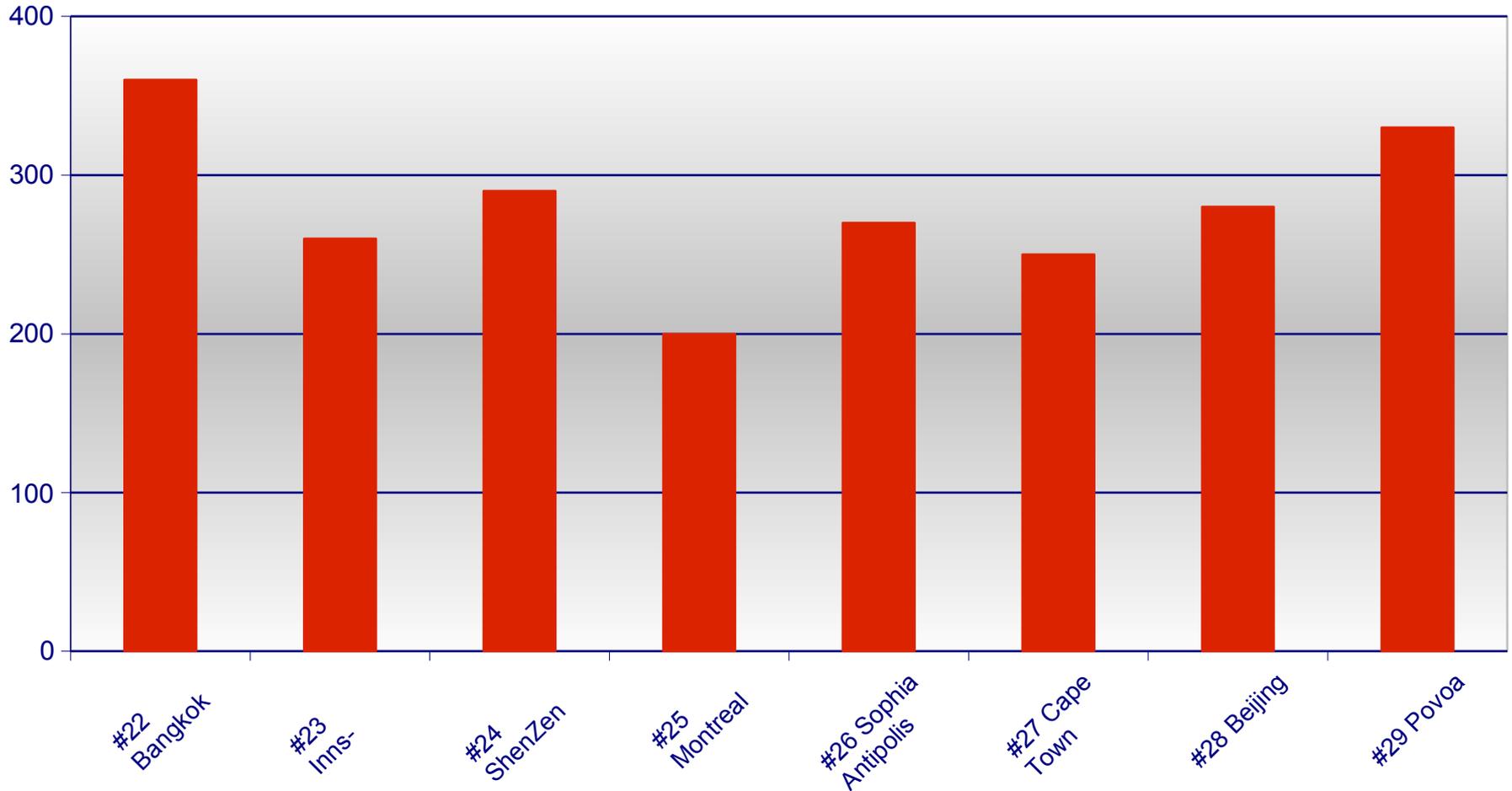
SA1 General Progress

- **Most of the Release 7 work has been completed and some of the work is ahead of schedule**
- **Initiated to work on the deliverables requested by the ETSI MSG (eCall)**
- **Agreed to send to SA three new work items**
- **Solved some long standing issues**

SA1 General Progress statistics

- Received **35** Liaison statements
- Agreed **32** Change requests
- Agreed **5** new work items or revised WIDs
- Sent **14** liaison statements
- Agreed **5** TS and/or TR for information or approval
- Handled 300 documents

SA1 Documents



Sub working groups summaries (I/II)

- **Priority**
(chaired by James Garrahan from Telcordia)
- **LCS**
(chaired by David Williams from Qualcomm)
- **XIX (Combinational services)**
(chaired by John Watson from Vodafone)
- **AIPN**
(chaired by Chris Sachno from NTT DoCoMo)
- **Network selection principles**
(chaired by Paul Carpenter from RIM)

Sub working groups, Ad hoc summaries (II/II)

- **Videotelephony/Multimedia telephony**
(chaired by Peter Blekert from Ericsson)
- **Multisystem terminals**
(chaired by David Williams from Qualcomm)
- **eCall**
(chaired by Steve Vardy from Motorola)
- **PNM**
(chaired by Armin Toepfer from Vodafone)
- **VCC**
(chaired by Luisa Marchetto from Cingular)

AIPN SWG

- The AIPN SWG met for three quarter days during SA1#29
- **32** contributions and **2** LSs: all handled
- The topics covered included:
 - AIPN work plan
 - Drafting of the AIPN Stage 1 (TS 22.258)
 - Improvements to the general description
 - Drafting of high level requirements
 - Drafting of EUTRA(N) service requirements
 - E2E performance requirements
 - Improvements to multi-access and seamless mobility requirements

continued...

AIPN SWG

... continued

- Service requirements for AIPN traffic models
- Service requirements for basic AIPN capabilities
- Relationship between AIPN and other functionalities
- **Although 3 months ahead of schedule, it was agreed to send the AIPN stage 1 TS 22.258 for information to SA plenary.**
 - This will enable the other groups to familiarise themselves with the content of this technical specification which is relevant to their current activities. In particular the SA2 work on SAE and RAN work LTE respectively. An LS has been sent to this group for this purpose

LCS SWG

- **Feasibility study on LCS for I-WLAN progressed**
 - text for clauses 5 and 6 on service requirements, Quality of Service, and conclusions was agreed
- **TR22.935 v1.3.0 Feasibility study for Location services (LCS) over I-WLAN is ready to be sent for approval at SA**
- **Liaison Statement to OMA Location Group on I-WLAN and Secure User Plane (SUPL)**
- **CR to TS22.071 on LCS using IMEI for identification purposes in the case of emergency calls without (U)SIM was agreed**

Multisystem terminals **SWG**

- **The meeting continued to work on TR 22.936 Multisystem terminals producing v0.4.0.**
- **The highlights of the changes are as follows:**
 - **Agreed scope**
 - **Use cases clarified**
 - **Implications of use cases described further**
 - **New clause on deployment issues**
 - **Redundant annexes removed**
- **TR 22.936 v0.4.0 is considered >50% complete**
 - **Agreed in plenary to send it to SA#29 for information**
- **The WID has been revised**

Priority SWG

- **7** participants from **7** companies
- **4** input documents, **3** output documents
- The meeting
 - agreed to a CR to TR 22.952 (Priority Service Guide) for Directed Retry Handover.
 - noted the draft of the MPS Feasibility Study TR 22.953 (v 0.6.0).
 - agreed text for the Service Description (Clause 5) for TR 22.953 (MPS Feasibility Study).
- The meeting agreed in principle to a revised draft of the MPS Feasibility Study TR 22.953 (v 0.7.0) as a basis for future contribution.

Network selection principles

- The NSP SWG met for three sessions during SA1#29 and made excellent progress on the development of TR22.811.
- There were 16 new proposals coming from 5 different companies.
- The current version of the TR 22.811 Review of network selection principles has been prepared to be sent to TSG SA#29 for information.

Network selection principles

- The meeting agreed the following changes to 22.811:
 - introductory text for the TR,
 - the use of the RPLMN,
 - UE behaviour in fringe coverage,
 - multimode devices and multi-provider environments.
- The SWG also made good progress on updating and reviewing existing material
- It was agreed that at this stage closer cooperation with CT1 and other WGs is required to progress the work 

Voice Continuity ad-hoc (I/III)

- VCC ad hoc meeting held during the July 11-15 SA1#29 meeting in Povoia de Varzim, Portugal to continue work on defining requirements for VCC.
- **34** delegates from **27** companies attended.
- **16** input documents and **5** output documents.
- Requirements were proposed to clarify general description, security, charging, triggers for VCC, supplementary services, and handling of multiple UICCs and multiple subscriptions for VCC
 - 4 change requests have been agreed

Voice Continuity ad-hoc (II/III)

- **A response LS to SA3 was written responding to their question on use of SIMs for VCC.**
- **A response LS to SA2 was written responding to their questions on use of multiple handsets, multiple subscriptions, and multiple UICCs for VCC.**
- **Open issues after the meeting during SA1#29:**
 - **VCC triggers,**
 - **further security clarifications,**
 - **handling of multiple subscriptions after VCC**

Voice Continuity ad-hoc (III/III)

- **The VCC ad hoc met again in Bellevue on the 9-10 August 2005 producing the following results:**
 - **The meeting agreed two revisions to change requests approved at SA1#29**
 - **The meeting also decided that the interaction between VCC and multiple subscriptions will need to be handled as part of a more general analysis of service requirements for multiple subscriptions**
 - **SA1 believe that further enhancements to the requirements may be needed depending on the feedback from other groups, but at the same time no new requirements are envisaged for VCC in Rel-7**

Multimedia Telephony & Videotelephony (I/III)

- There were **22** contributions – **15** handled
- The SWG handled contributions related to two work items:
 - Multimedia Telephony Capabilities for IMS (MITe)
 - Study of Videotelephony teleservice (VT)
- **Multimedia Telephony Capabilities for IMS**
 - Agreed to start with analysing a subset of the CS supplementary services and compare them with the work done by TISPAN.
 - The TR skeleton was agreed after online editing.™
 - A comparison between CS and IMS capabilities was captured in chapter 8.

Multimedia Telephony & Videotelephony (II/III)

- The VT WID was updated to remove a potential overlap with MITE
- Videotelephony TR 22.903 was updated with contributions to the following chapter:
 - Ch 4.2 related to Videotelephony over PS was removed.
 - Ch 4 and 6 with regards to Supplementary Services, particular “HOLD” was added.
 - Ch 6 with subchapters on “Emergency call”, In-call Modification and Notifications.
 - Ch 7 with regard to backward compatibility
 - A conclusion chapter in the end of the TR (no text agreed so far) was added.

Multimedia Telephony & Videotelephony (III/III)

- **TR 22.903 v 0.3.0 “Study on Videotelephony Teleservice” was agreed to be sent to SA#29 for information**
- **All the remaining contributions on the MI Te and VT were handled in the plenary**

eCall Ad Hoc

- **16** delegates representing **16** companies
- **5** input documents, **2** output documents
- The meeting considered the requirements identified in the LS from MSG and identified issues and deductions associated with each of the requirements for inclusion in an improved draft of the TR
- The meeting agreed to continue to improve the TR through e-mail discussion on the email TM reflector
- It was necessary to amend Work Plan (the TR was expected to be 50% complete at this point

CS/CS SWG

- This was the 6th Circuit Switched IMS Combinational Service SWG Meeting - The 'XIX' Club
- **13** delegates from **9** companies
- TR22.979 has been successfully updated to address the comments raised in SA#28 and it is now ready for approval
- **Combinational Services:**
 - Promote the uptake of IMS services
 - Make best use of existing CS infrastructure
 - Fast set-up by predicting the users need to add an IMS session to an ongoing CS call or vice-versa

Personal Area Networks management SWG

- **The Personal Area Network Management SWG met for the first time during SA1#29**
- **The following documents were handled:**
 - **Personal Network WID**
 - **Draft Skeleton TS 22.xxx Personal Network Management**
 - **3 contributions to the new TS**
- **Version 0.1.0 of the new TS was agreed as basis for further contributions**
- **A revision of the WID was discussed but has not been agreed. The proposed way forward is to organise the work in multiple building blocks**

New & updated Work Items and study items

UPDATES

- Multisystem terminals (**WI**)
- Study on Videotelephony teleservice (**SI**)

NEW

- Machine to Machine communications (**SI**)
- Study of Customised Ring Back Tone (CRBT) Requirements (**SI**)
- Study of public warning system (**SI**)

(WI = Work Item, SI = Study Item)

Multisystem terminals WID update

- **The multisystem terminal work item description was updated to reflect the new expected timescales for the completion of the work**

Study on Videotelephony teleservice WID update

- **With the approval of the work item description on multimedia IMS telephony service, it was felt appropriate to update the videotelephony WID so that overlapping is avoided**
- **Changes have been made to the linked work items as well as to the objectives**

Study item on Machine to Machine communications

- The study intends to collect requirements for M2M communication
- The major objectives are achieving a lean and simple design as well as efficient use of resources
- Special consideration should be given to:
 - Charging mechanisms
 - Addressing
 - Types of communication
 - Handling of large numbers of subscriptions and subscriber data within the network

continued...

New!

Study item on Machine to Machine communications

... continued

- Handling issues of large number of M2M subscriptions for the user of M2M services
- Impact of optimisations for security resulting from improvement for M2M

QUESTION TO SA

- **Should the study item produce a 800 or 900 series TR?**

Study of Customised Ring Back Tone

- **The objective of this study item is to study requirements that need to be standardized for CRBT, especially additional features and roaming/interoperability support.**
- **Some requirements are listed as follows:**
 - **Users can access and choose the ring back tones**
 - **When calling a user of another PLMN, the caller can still hear the ring back tone set by the called party.**
 - **When roaming to another PLMN, the caller can still hear the ring back tone set by the called party**
 - **The caller can hear the ring back tone set by the called party who is roaming to another PLMN.**

New!

Study of Public warning system

- **The objective of this Work Item is**
 - to define requirements to come to a harmonized implementation of and use by public authorities of public alert systems.
- **The Service aspects are:**
 - The public warning system shall be able to address a large number of citizens (including roamers (tourists)) in near real-time with information that is relevant to their location.
 - The solution shall be able to handle multiple languages. The solution shall respond to the needs of a multi-lingual society including situations where more than one script is in use as the official language.

New!

Release 7 status

- The majority of the work items targeting Rel-7 have been completed within the given timescales
- **In case it is agreed to freeze the stage 1 requirements for Rel-7 in this meeting SA1 would like to ask TSG SA for a dispensation for the following items:**
 - IMS Service brokering (follow-up of OSA service brokering)
 - eCall requirements
 - Enhancements to the Equivalent Home PLMN
 - Network selection principles
 - Study on Videotelephony teleservice

IMS service brokering

- This work is the continuation of the OSA service brokering WID which was agreed at SA#26.
- Further information on the scope of this work item is provided in document SP-050532 provided in this meeting.

eCall requirements

- The ETSI MSG group has required for the eCall requirements to be available by the end of 2005.
- At present it seems unlikely that SA1 will be able to complete the technical report before March 2006
- In order to avoid further delay in the approval of the technical specifications (i.e. Making eCall a Rel-8 feature) SA1 would like to ask for 2 additional meetings to complete the requirements.

Enhancements to the Equivalent Home PLMN

- **At SA1#29 a change request was agreed to enhance the equivalent home PLMN concept introduced at SA1#26.**
- **It was noted that this enhancement may have a significant impact on the original functionality of the EHPLMN**
- **SA1 would like to have another meeting to finalise the requirements for the enhancements to the EHPLMN**

Network selection principles

- As mentioned in the previous two meetings, SA1 would like to have two additional meetings in order to finalise the requirements for network selection enhancements identified in TR 22.811
- The reason for the request of additional time include:
 - The complexity of the topic
 - The need to involve other groups in the discussion before finalising the requirements (see here: )TM

Study on Videotelephony teleservice

- **As announced at SA#28, the study on videotelephony teleservice will only result in specifications work at SA#31 (March 2006). The technical report TR22.903 is presented for information at this meeting and will be presented for approval at SA#30.**
- **When the TR has been approved SA1 will prepare the necessary change requests to the existing technical specifications that will be presented at SA#31**

Voice Call Continuity

- SA1 did not discuss in the plenary whether the requirements for VCC which will be created in the next meetings should be part of Rel-7 or not. **SA plenary is invited to decide on this issue**
- In the Bellevue meeting, the ad hoc agreed that:
 - the existing requirements are sufficient for providing the service and further enhancements may be brought in for the next release.
 - refinements to the Rel-7 requirements may be needed depending on the feedback from other groups.

LCS for I-WLAN

- **SA1 did not discuss whether the requirements for LCS for I-WLAN should be part of Rel-7 or not, so SA plenary is invited to decide on this issue**
- **SA plenary is invited to note that**
 - **TR 22.935 is presented for approval at this meeting**
 - **It is expected that if the TR is approved the requirements will be introduced in TS 22.071 at the next meeting of SA1 and presented for approval at SA#30**

Issues/highlights

- **Incoming Liaison statements**
 - SA1 still receives a large number of liaison statements with no actions for SA1.
 - In order to save valuable meeting time SA1 would like to invite the other working groups to avoid sending such liaison statements.
- **Introduction of Study Items**
 - It was noted that the current WID template may not be suitable for Study Items (e.g. the ‘classification of WI’ section does not seem to be applicable to Study Items). Therefore, **SA1 would like to invite TSG SA to consider creation of a new template for TSG SA Study Items.**

Issues/highlights

- **2G GBA discussion in SA1**
 - 2G GBA will require the support of the SIM/UE interface at Rel-7 which currently is optional.
 - **This is a policy decision on whether support of 2G SIM longevity is required which is a decision that SA needs to take** 
 - There is a desire for some operators to have this, but some operators do not need it and it could be considered a burden.
 - There is nothing for SA1 to do in relation to SA1 TSs or TRs.

Issues/highlights

- **Presentation from the Fixed-Mobile Convergence Alliance**
 - A presentation from the FMCA highlighting the parts of their activity relevant to SA1 was given at SA1#29. It was agreed that the cooperation has the potential to be fruitful and the FMCA members were invited to indicate what problems they have experienced with the products implementing 3GPP specifications so that they can be solved.

Issues/highlights

- **Presentation from the IST SIMPLICITY project**
 - **Simplicity stands for “Secure, Internet-able, Mobile Platforms Leading Citizens Towards simplicityY.**
Some of the work done in this project makes use of 3GPP specifications (e.g. The SIMPLICITY user profile is an implementation of GUP. It is envisaged that the cooperation will continue in the future.
- **Joint meeting with CT1, RAN2, CT6 and GERAN1 on Network Selection Principles** 
 - **As agreed, in order to progress the work further, SA1 needs to receive feedback on TR 22.811 from the groups that will be tasked to develop the stage 2 and 3. It would be beneficial to hold such meeting before SA1 starts drafting change requests.**

Actions on WG1 allocated during SA#28 (I/VIII)

- **A27-04 VGCS**
 - As the new work item may have significant impact on the GERAN work, TSG SA asked that the draft requirements prepared in SA1 for the “Improvements to the VGCS” WID (SP-050075) are sent immediately to GERAN1 for comments.
- **Status:**
 - CR sent for approval at this meeting: **CLOSED**

Actions on WG1 allocated during SA#28 (II/VIII)

- **A27-13 Network selection principles review**
 - TSG SA asked SA1 to cooperate with the relevant groups before agreeing any requirement on this topic. As the technical report is concluded, there may be the need to organise a workshop on this subject.
- **Status:**
 - The TR is presented for information at this meeting
 - A meeting with CT1 before the next SA1 meeting will be requested. **CLOSED**

Actions on WG1 allocated during SA#28 (III/VIII)

- **A28-01 Missing definitions in 21.905**
 - During the SA plenary meeting it turn out that the definitions of SCUDIF and DSAC are missing from the vocabulary document, and SA1 has been asked to add them.
- **Status:**
 - Change requests have been prepared. **CLOSED**

Actions on WG1 allocated during SA#28 (IV/VIII)

- **A28-02 Combinational services**
 - SA1 is requested to update the stage 1 specification with respect to the plenary comments (i.e., alignment between stage 1 and stage 2 on supplementary services, clean-up of combinational call/session terminology) and bring in for approval at SA#29
- **Status:**
 - SA1 addressed the issues identified by SA plenary and is presenting the technical specification for approval. **CLOSED**

Actions on WG1 allocated during SA#28 (V/VIII)

- **A28-03 2G GBA**
 - SA3 approved a CR enabling the use of GBA (Generic Bootstrap Architecture) to be used with 2G SIMs. This provides a lower level of security than GBA with USIM. SA1 must however decide for which services this lower level of security will be allowed.
- **Status:**
 - SA1 has studied the liaison statement from SA3 and concluded that since the security experts are comfortable with this solution it is also acceptable for SA1. **CLOSED**

See also this 

Actions on WG1 allocated during SA#28 (VI/VIII)

- **A28-04 IMS local services**
 - IMS Local Services is now taken out of the stage 2 specifications. SA1 should verify that any requirement related to local services is removed from 22.228 and other stage 1 specifications under the control of SA1 if applicable.
- **Status:**
 - A change request has been agreed to remove the IMS local services references from the stage 1 specifications. **CLOSED**

Actions on WG1 allocated during SA#28 (VII/VIII)

- **A28-05 Voice over IMS**
 - SA4 is studying the Performance Characterization of VoIMS over HSDPA\EUL channels and requires SA1 to make some study on the possible requirements.
- **Status:**
 - SA1 discussed the possibility of providing detailed performance requirements, but it was agreed that it should be sufficient to state that the voice quality should not be worse than that provided by the circuit switched based voice service.
 - SA1 would welcome a more detailed description of what type of requirements SA4 is expecting to be produced. **CLOSED**

Actions on WG1 allocated during SA#28 (VIII/VIII)

- **A28-06 3G-324M video telephony**
 - The SA4 chairman reported that in order to progress the work on the approved WID on “3G-324M Video Telephony Call Setup Times Improvements” it will be necessary that SA1 define the requirements.
- **Status:**
 - SA1 will continue to investigate the issue and requirements may be provided in the future meetings as a result of the VCC work. In general SA1 believe that the general statement that the set up time should not be worse than that of a normal speech call should provide sufficient guidance to SA4. **CLOSED**

Future SA1 Plenary Meetings

SA1#30	24 – 28 October 2005	Los Angeles, USA
SA1#31^{*†}	13 – 17 February 2006	TBD, North America.
SA1#32	03 April – 07 April 2006	TBD, Asia
SA1#33[*]	26 June – 30 June 2006	TBD, Europe

*** Co-located with SA2**

† Co-located with CT groups



***Documents for
information and
approval***

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Documents from SA1 to SA (I/III)

● SP-050418	Reply to LS on the usage of 2G SIM cards in GBA	06.
● SP-050417	Reply to LS on Long Term Evolution for the UTRA and UTRAN	06.
● SP-050500	Presentation of status report to SA Plenary	07.01
● SP-050501	TR 22.936 v1.0.0 for Multi-System TR	08.01
● SP-050502	Multisystem Terminals WID review	08.01
● SP-050503	TR 22.811 Review of Network Selection Principles V1.0.0	08.04
● SP-050504	CR on TS22.001 Release 7 - Automatic Calling Repeat attempts for VT fallback to voice	08.05
● SP-050505	TR 22.903 study on videotelephony teleservice V1.0.0	08.05
● SP-050506	Videotelephony WID update	08.05
● SP-050507	WID on study of public warning systems	08.13
● SP-050508	CR on 22.078 Rel-5, Correction to description of the mid-call detection point	09.07
● SP-050509	CR to 21.905 Definition and abbreviation for SCUDIF	09.07
● SP-050510	CR to 22.228 for allowing IMS to use multicast capabilities of the access network	10.05

Colour coding

Information

Technical specification/report

Change request

Work Item Description

Documents from SA1 to SA (II/III)

● SP-050511	CR to 22.228 - Removal of Local Services	10.05
● SP-050512	CR to 22.952 Directed Retry Handover	10.08
● SP-050513	CR to 22.038 R6: Addition of UTRAN packet service as a data bearer for the UICC	10.34
● SP-050514	CR to 22.078 on Correction to description of Dialed Services due to introduction of EDS	10.34
● SP-050515	CR to 21.905 on definition and abbreviation for DSAC	10.34
● SP-050516	CR to 22.071, on Identification of the UE based on the IMEI	11.16
● SP-050517	TS 22.279 Combined CS calls and IMS sessions V2.0.0	11.02
● SP-050518	CsR to 21.1010 for VCC	11.21
● SP-050519	CR to 22.105 on Clarification on service based QoS requirement	11.28
● SP-050520	CR to 22.115 on clarification on charging for SCUDIF	11.28
● SP-050521	Enhancement of the EHPLMN feature to allow Load Balancing	11.28

Colour coding

Information

Technical specification/report

Change request

Work Item Description

Documents from SA1 to SA (III/III)

● SP-050522	CRs to 22.101 under the item TEI	11.28
● SP-050523	CR 22.038: Addition of HSDPA as a data bearer for the UICC	11.29
● SP-050524	CR to 21.905: SBLP introduction	11.29
● SP-050525	CRs to TS 42.068 on Sending additional information to dispatchers	11.29
● SP-050526	TS 22.258 on AIPN stage 1 v1.0.0	11.01
● SP-050527	Proposed Study item : Facilitating Machine to Machine Communication in GSM and UMTS (M2M)	11.29
● SP-050528	Proposed WID on customised ring back tones	11.29
● SP-050529	TR22.935 v2.0.0 Feasibility Study on Location Services (LCS) for Interworking-WLAN	08.13
● SP-050530	CR to 22.246 on Support of enhanced MBMS user services providing multiple QoS levels	10.05
● S1-050531	CR to 22.228 on CS/IMS interworking for Multimedia calls	08.03

Colour coding

Information

Technical specification/report

Change request

Work Item Description