

Technical Specification Group Services and System Aspects TSGS#32(06)0302
Meeting #32, 5 - 8 June 2006,
Warsaw, Poland

Source: Chairman, Secretary SA1
Title: Status Report of SA_WG1 (Services)
Document for: Information and Decision
Agenda Item: 7.1

TSG SA1 STATUS REPORT

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1 General Overview of Progress

The was held in Shanghai, P.R. China from the 24th of April to the 28th of April 2006. It was chaired by Mr Michele Zarri (T-Mobile). The secretary was Mr Michael Clayton from the MCC. The host was China Mobile.

2 External Liaisons

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

| Document Number | Title | To | Copy | Sent |
|-----------------|-------|----|------|------|
| | | | | |
| | | | | |

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

3 Documents related to Rel 6 Features (09)

3.1(IMS2) - IMS Phase 2 (09.05)

Support of Local Numbers in the IMS

To support roaming, there is a need for the IMS (home environment) to be able to resolve and route calls that use the VPLMN/visited country's dialling plan to their correct destination.

Following the removal of stage 2 requirements from 23.228 (Rel-6) for support of local services, including support for local numbers in the IMS (home environment), it was agreed at TSG SA#28 that SA1 should also remove the stage 1 requirements from 22.228, and this was done in Rel-6 CR0032 and Rel-7 CR0033.

Subsequently, as part of the FBI (TISPAN) work, SA2 re-introduced support for local number in the IMS (22.228 Rel-7 CR0556) and, based on these requirements, CT1 are believed to be working on the stage 3 specifications.

Currently there are no stage 1 requirements to support this work.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|-------------------------------------|-------|----------|------------|
| SP-32 | SP-060303 | 22.228 | 0041 | | Rel-7 | F | Support of Local Numbers in the IMS | 7.3.0 | 7.4.0 | S1-060625 |

3.2(PRIOR) - Priority Service (09.08)

Addition of UMTS to GSM Redirection related text to 22.952

The current text in TR 22.952 does not indicate that for a call originated /terminated on the UTRAN that is redirected to GERAN, the user's priority level is used for subsequent call processing; and it does not include use cases for UTRAN circuit-switched voice priority call that is redirected to GERAN.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060304 | 22.952 | 0006 | - | Rel-6 | F | Addition of UMTS to GSM Redirection related text to 22.952 | 6.3.0 | 6.4.0 | S1-060650 |

3.3(WLAN) - WLAN-UMTS Interworking Rel-6 (09.12)

CR to 22.223 on Operator Determined Barring

The stage1 requirements on ODB for "WLAN Direct IP Access and WLAN 3GPP IP Access" are not handled in stage2. To align stage1 requirements with stage2 and to avoid the confusion of other working groups, it is

required to delete the related requirements from the TS22.234.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060305 | 22.234 | 0021 | - | Rel-7 | A | CR to 22.223 on Operator Determined Barring (Rel-7) | 7.3.0 | 7.4.0 | S1-060587 |
| SP-32 | SP-060305 | 22.234 | 0020 | - | Rel-6 | F | CR to 22.223 on Operator Determined Barring (Rel-6) | 6.3.0 | 6.4.0 | S1-060586 |

4 Documents related to Rel 7 (10)

4.1(EVGCS) - Enhancements of VGCS for public Authority Officials (10.02)

Enhancement for emergency situation

This CR aims at satisfying the requirement of the priority of uplink access of a subscriber with the higher talker priority indicates an emergency situation to the network, embodied the privilege of the subscriber with the higher talker priority and provided the more effective and convenient services for EGCS.

In the existing specification, only after the current talker with talker priority “emergency subscriber” is reset by a privileged service subscriber who is allowed to reset emergency call, others can access the uplink to become a talker. In the case of that, even if another subscriber who has enough reasons, such as the more urgent information should be notified, but has not be authorized to reset emergency call is not able to pre-empt the current emergency call. Therefore it is requirement that the network shall be able to allow the service subscriber with the highest talker priority to become the talker in the emergency call uplink access procedure and in the pre-emption procedure on an ongoing emergency group call.

Additional requirements for transfer of application-specific data

The current requirement states that application-specific data should always be distributed to service subscribers, however a more flexible solution is required to allow distribution to dispatchers, service subscribers, a VGCS application (in an external server or network-based) or any combination of the above. The current requirement states time critical data must be transferred in not more than 500ms. It is envisaged that this can be achieved for a single message transferred on the FACCH, which therefore restricts the amount of data than can be transferred. A payload of up to 4 bytes for time critical data has been discussed.

CR to 42.068 on increasing the number of dispatchers (Rel-7)

In the current specification, the maximum number of dispatchers is limited to five. GSM-R has asked to remove this limitation and to increase the dispatchers number as an optional requirement for some use cases. Taking consideration of possible negative impact on the QoS (i.e. the call set-up time), EPRT decided to limit the maximum number of dispatchers to 20.

Requirement for listener identification

Listener identity information is useful for public authority application (e.g. a police chief wants to know who is listening in order to assign tasks to group members) and railway networks (e.g. for dispatchers to identify if members are listening). Current VGCS specification doesn't include this functionality which may cause inconvenience for the group members and dispatchers to cooperate smoothly.

The approved WID is inclusive of such service ability.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060306 | 42.068 | 0036 | - | Rel-8 | C | Enhancement for emergency situation | 8.0.0 | 8.1.0 | S1-060635 |
| SP-32 | SP-060306 | 42.068 | 0025 | - | Rel-8 | C | Additional requirements for transfer of application-specific data | 8.0.0 | 8.1.0 | S1-060584 |
| SP-32 | SP-060306 | 42.068 | 0022 | 2 | Rel-7 | C | CR to 42.068 on increasing the number of dispatchers (Rel-7) | 7.5.0 | 7.6.0 | S1-060581 |
| SP-32 | SP-060306 | 42.068 | 0024 | - | Rel-8 | B | Requirement for listener identification | 8.0.0 | 8.1.0 | S1-060580 |

4.2(MBMSE & MBMSUSE) - MBMS Enhancements & MBMS User Service Extensions (10.06)

CR to 22.246 on Requirements of MBMS over generic IP

MBMS reception over generic IP access systems is almost indispensable for operators who are about to deploy MBMS services.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060307 | 22.246 | 0010 | - | Rel-8 | B | CR to 22.246 on Requirements of MBMS over generic IP | 7.0.0 | 8.0.0 | S1-060609 |

CR on TS22.246 to enhance the requirement of roaming

The current requirements for roaming are not clear enough. It should be explicitly stated that the roaming functionality as requested in OMA BCAS – access to home content while roaming - is supported by MBMS.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060308 | 22.246 | 0009 | - | Rel-7 | F | Rel-7 CR on TS22.246 to enhance the requirement of roaming | 7.0.0 | 7.1.0 | S1-060513 |

Requirements of MBMS over generic IP

MBMS reception over all 3GPP access systems is expected

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--------------------------------------|-------|----------|------------|
| SP-32 | SP-060309 | 22.146 | 0049 | - | Rel-8 | B | Requirements of MBMS over generic IP | 7.1.0 | 8.0.0 | S1-060610 |

4.3(MTSI) - Multimedia Telephony Capabilities for IMS (10.07)

TS 22.173 IMS Multimedia Telephony Service and supplementary services

Abstract of document:

The document defines the IMS Multimedia Telephony service and the minimum set of capabilities required to secure multi-vendor and multi-operator inter-operability for Multimedia Telephony and related Supplementary Services.

Changes since last presentation to TSG SA Meeting #31:

- References have been updated
- A requirement for user self provisioning of IMS supplementary services via the UE, or web portals has been added
- A requirement has been added, that the Conference service shall provide a similar user experience as the circuit switched Multiparty supplementary service but with multimedia capabilities.

Outstanding Issues:

- The requirement that the Conference service shall provide a similar user experience as the circuit switched Multiparty supplementary service needs to be aligned with TISPAN.

Contentious Issues:

- None

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|-------------------------|-------|----------|------------|
| SP-32 | SP-060310 | | | - | Rel-7 | | TS 22.173 version 1.1.0 | 2.0.0 | 7.0.0 | S1-060628 |

4.4(NSP-CR) - Network Selection Enhancements (10.08)

CR to TS22.011, Steering of Roaming

To clarify the effect on the User Controlled List and Forbidden List by the action of the Steering of Roaming mechanism.

Exception in Manual mode at power on

One of the conclusions from the SA1 SWG NSP study (approved in TR 22.811) was that in order to speed up network selection following UE power-up in manual network mode, it would be beneficial for the user and operator if the UE registers as soon as possible on the HPLMN if it is available.

At present, TS 22.011 mandates, even when HPLMN is available, the following:
The UE shall select the last mode used, as the default mode, at every switch-on.

The above implies that in case the UE previously has been powered-on in manual network mode it has to continue in the manual network mode. This leads the UE to enter limited service and the user will not be provided service IF the RPLMN and EPLMN are not found, but HPLMN/EHPLMN is available. This is not desirable from the user and operator perspective.

Incomplete PLMN list for manual mode information

At SA#31, CR 73 to 22.011 was approved, however there was an action for SA1 (AI31-07) to expand the list of PLMN types listed to include Forbidden PLMNs as this is considered useful information to a user, and to change the i.e. to an e.g. as this is not intended to be an exhaustive list.

CR to 22.011 on Confirmed to clarify the applicability

Clarify that the safe roaming functionality only applies if the UE is in automatic mode

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060311 | 22.011 | 0079 | - | Rel-7 | C | CR to TS22.011, Steering of Roaming | 7.3.0 | 7.4.0 | S1-060649 |
| SP-32 | SP-060311 | 22.011 | 0078 | - | Rel-7 | C | Exception in Manual mode at power on | 7.3.0 | 7.4.0 | S1-060633 |
| SP-32 | SP-060311 | 22.011 | 0077 | - | Rel-7 | C | Incomplete PLMN list for manual mode information | 7.3.0 | 7.4.0 | S1-060632 |
| SP-32 | SP-060311 | 22.011 | 0076 | - | Rel-7 | C | CR to 22.011 on Confirmed to clarify the applicability | 7.3.0 | 7.4.0 | S1-060630 |

Simplification of the scope of TR 22.811

Scope of TR 22.811 has been redrafted according to the guidelines given in TR 22.801

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060312 | 22.811 | 0003 | - | Rel-7 | F | CR to 22.811 - Simplification of the scope of TR 22.811 | 7.1.0 | 7.2.0 | S1-060631 |

4.5(PNPAN) - Personal Network Management (10.10)

Combination and Separation Management for PANs

As a result of device mobility, the user of a Personal Network sometimes needs to combine or separate some PANs so as to manage them in an easier way. For example, when the user is staying at home, he can combine his mobile office network (e.g. a PAN including laptop, headset and mobile phone) with home entertainment network (another PAN including television, speaker, music player, camera, etc.), since it's more simple for both the user and PNM entity to manage all devices in one PAN. And he can separate them again when he takes the mobile office network back to work.

To support and manage PAN's combination and separation, new functions of PNM are required for current specification.

CR to 22.259 on Security related changes.

Specific security related requirements were not fully covered in TS 22.259. SA1 did liaise with SA3 in order to obtain guidance on these matters.

SA3 now came back with a LS providing general guidance and proposing addition or improvements of text. The proposed CR follows SA3 suggestions to a wide extend.

Clarification of User Equipment in Personal Area Network

SA#31 requested clarification of terminology in TS 22.259 on Personal Network Management. Further, an LS was received from SA3 regarding editorial recommendations.

This CR provides terminology-related outcome of the SA1#32 PNM drafting sessions based on company input contributions, SA3 proposals, and drafting work during SA1#32.

CR on Requirements for TEs/MEs capabilities using services through access systems

The current requirements for Personal Area Network do not consider the access systems and reflect various capabilities of TEs/MEs.

However, TEs/MEs without a USIM are able to receive services through their own access systems after authenticating and authorizing through UE with USIM.

In last meeting, we agreed three types of connection models through ME in Annex A.3.

- MEs receive redirecting services through UE with USIM.
- MEs are able to receive services directly according to ME capabilities through their own access systems,
- MEs are able to receive user data through their own access system

This means that MEs have Multiple Network Connection through the access systems.

Hence, we consider the TE/ME capabilities using the access systems in PAN requirements.

To cover above all concepts, we intend to add some requirements related to the access systems according to TE/ME capabilities

Use Cases for PNM Redirecting Services in TS 22.259

TS 22.259 on Personal Network Management specifies the UE Redirecting Service and the PNE Redirecting Service.

No use cases are given for these services.

PNM - Requirements for PN updates and guest devices

TS 22.259 provides requirements for redirection settings in section 4.2.1. The requirements mention that the UEs shall be updated of PNM settings information. PNM settings may refer to UE capabilities and redirection settings of a PN. Addition or deletion of capabilities, or in more general words, changes in capabilities of a particular UE is updated to the PN service. In addition, these updates may also be sent to other UEs of the PN, based on rules set by the user, or user requests in the form of commands or graphical user interfaces. For example, a user may wish to know the current capabilities of all the UEs of his PN when deciding to redirect a particular service such as video call or multimedia content. This updating may be optimized by user providing the PN service with capability lists which contain the list of capabilities that he intends to be updated about. This update may be provided by the PN service. An advantage of capability list based updating is that not all UEs of the PN may require updating. Only those UEs that request receive updates.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060313 | 22.259 | 0006 | - | Rel-8 | B | Combination and Separation Management for PANs | 8.0.0 | 8.1.0 | S1-060655 |
| SP-32 | SP-060313 | 22.259 | 0005 | - | Rel-7 | F | CR to 22.259 on Security related changes. | 7.0.0 | 7.1.0 | S1-060654 |
| SP-32 | SP-060313 | 22.259 | 0004 | - | Rel-7 | D | Clarification of User Equipment in Personal Area Network | 7.0.0 | 7.1.0 | S1-060653 |
| SP-32 | SP-060313 | 22.259 | 0003 | - | Rel-7 | F | CR on Requirements for TEs/MEs capabilities using services through access systems (revised S1-060469) | 7.0.0 | 7.1.0 | S1-060646 |
| SP-32 | SP-060313 | 22.259 | 0002 | - | Rel-7 | F | Use Cases for PNM Redirecting Services in TS 22.259 | 7.0.0 | 7.1.0 | S1-060644 |
| SP-32 | SP-060313 | 22.259 | 0001 | - | Rel-7 | F | PNM - Requirements for PN updates and guest devices | 7.0.0 | 7.1.0 | S1-060643 |

4.6(FBI) - System Enhancements for Fixed Broadband Access (10.18)

TISPAN NGN defines the term UE in ETSI TR180 000

UE definition in 21.905 may not be suitable for TISPAN but due to the wide ranging consequences to 3GPP specifications and system concept it is not possible to change the current UE definition in 21.905

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060314 | 21.905 | 0069 | - | Rel-7 | F | TISPAN NGN defines the term UE in ETSI TR180 000 | 7.1.0 | 7.2.0 | S1-060567 |

4.7(VCC) - Voice call continuity between CS and IMS (VCC) (10.24)

Definition of IMS voice service

The terminology of “IMS Voice Service” has been used in VCC related specifications(both stage 1 and stage 2 specifications), e.g., in TS 22.101and TS 23.206.

SA1 has earlier clarified for SA2 that IMS Voice Service should be understood as the full duplex speech component of the IMS Multimedia telephony service specified in TS 22.173.

A reference to the IMS multimedia telephony service specification is added and the “IMS Voice service” is replaced with “full duplex speech component of the IMS multimedia telephony service”.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060315 | 22.101 | 0191 | - | Rel-8 | A | CR to 22.101 on Definition of IMS voice service Rel-8 | 8.0.0 | 8.1.0 | S1-060621 |
| SP-32 | SP-060315 | 22.101 | 0190 | - | Rel-7 | F | CR to 22.101 on Definition of IMS voice service Rel-7 | 7.5.0 | 7.6.0 | S1-060620 |

VCC additional flexibility

VCC can be activated when the subscriber is roaming. In that case it would be useful for an operator to disable VCC for specific users even if they have a VCC subscription as part of an operator policy (irrespective of potential associated roaming agreement).

Additionally, some VCC users might change terminals from time to time. In case the active terminal is not VCC-capable, it would be beneficial for the operator to to disable VCC for this user based on terminal capabilities information.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|----------------------------|-------|----------|------------|
| SP-32 | SP-060316 | 22.101 | 0187 | - | Rel-8 | B | VCC additional flexibility | 8.0.0 | 8.1.0 | S1-060561 |

4.8(ServID) - Identification of Communication Services in IMS (10.25)

Identification of communication services

n AI30-06 SA Plenary asked SA1 to review TR 23.816 and CR SP-050842 and to check if any associated requirement exists. This was done and it seems that there is already a sufficient requirement in the current version of TS 22.228, clause 5, high level requirements since a CR on this subject had been approved during SA1#30 (S1-051232).

Nevertheless the specification is contradicting itself in another clause 7.1, where the possibility to have standardized applications is ruled out and therefore such could not be identified as requested in clause 5. This is also not in line with an earlier CR to TS 22.101 which introduced the possibility to standardize services.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060317 | 22.228 | 0039 | - | Rel-7 | F | Identification of communication services, AI30-06 | 7.3.0 | 7.4.0 | S1-060560 |

4.9 Any other Rel-8 Documents (10.40)

CR to 22.105 on End-user expectations for gaming

According to research conducted on characteristics of games and related user behaviour the current values in TS 22.105 for End-user Performance Expectations on interactive gaming appear to be inaccurate. They need to be adjusted to support the RAN2 work on Improved support of gaming over HSDPA/EDCH

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060325 | 22.105 | 0046 | - | Rel-7 | F | CR to 22.105 on End-user expectations for gaming (Rel-8) | 6.4.0 | 7.0.0 | S1-060605 |

5 Documents related to Rel 8 or later Features (11)

5.1(AIPN) - All IP Network (11.01)

Justification and objectives for the newly created work item on requirements for service architecture enhancements have been removed from this WID.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|-------------------------------|------|----------|------------|
| SP-32 | SP-060318 | - | - | - | Rel-8 | - | Proposed revision of AIPN WID | - | - | S1-060603 |

5.2(TEI8) - Technical Enhancements and Improvements (11.03)

USSD TS 22.090 - Corrections

The reference numbering makes the document illogical, inconsistent use or terms/abbreviations adds to confusion

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|------------------------------|-------|----------|------------|
| SP-32 | SP-060319 | 22.090 | 0003 | - | Rel-8 | F | USSD TS 22.090 - Corrections | 6.0.0 | 8.0.0 | S1-060591 |

Clarification on handling of emergency number

In 6.5.3.2 of 22.030, the UE shall act in accordance with figure 3.5.3.2 when digits are entered to the UE to determine whether to interpret these as call set-up requests or supplementary service control procedures etc. If the input string isn't 2 digits starting with a "1" and USSD is supported by MS, MS shall interpret these as USSD. "08" is short string, which is different from other emergency numbers. So, "08" may be handled as USSD service.

But in 10.1.1 of 22.101, "08" should be interpret as normal call set-up request when a SIM/USIM is present and as emergency call setup when a SIM/USIM isn't present.

The ambiguities between handling of "08" as USSD service in 22.030 and handling of '08' as emergency number in 22.101 need to be corrected.

Because TS 22.030 has quoted 22.101 for emergency call as "With User Equipment supporting Telephony, it shall be possible to place an emergency call as specified in 3GPP TS 22.101 [18].", so we need only make it clear in a higher level in the TS 22.101.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060320 | 22.101 | 0194 | - | Rel-8 | F | Clarification on handling of emergency number | 8.0.0 | 8.1.0 | S1-060626 |

CR to 22.101 High Speed Interface between the Terminal and the UICC

The smart card is currently undergoing a significant trend towards higher memory capacities and increased computing power. It can be expected that such features will also significantly enhance services and service

opportunities related to 3GPP applications. Some examples:

- Instant branding: Customising a neutral handset with parameters and data loaded from the USIM.
- On-Card Web Server: HTTP pages on the USIM will bring web look-and-feel to USAT applications.
- Content streaming (deciphering) through the USIM will allow new card-based DRM approaches.
- Storage of multi-media contents, fast access to the USIM phonebook, etc.

All these applications require large amounts of data to be transferred to and from the USIM in a user-friendly timeframe which the current ME/USIM interface (based on standards from the 1980s) is not able to support. To overcome this bottleneck, it is proposed to include into 3GPP specifications the requirements for an optional new high speed interface between the terminal and the UICC for the benefit of the 3GPP USIM and ISIM.

CR to 22.101 on QoS Parameters Provision for Service Enabling

OMA device management is currently becoming a significant trend for provision service parameters. And DM has defined the solution for QoS parameters provision. The clarification of the detail solution can be found in S1-060491. Some reasons for QoS parameters provision:

- The emergence of new and exciting services requires QoS parameters provision.
- It shall be possible to allocate a particular QoS to any specific service of the user based on OMA DM.

CR 22.101 R8: Spam protection

An LS has been received from GSMA Security Group (S1-060064) during last meeting presenting their work and ideas about SMS and MMS spam protection. The document was noted, as there was no current work yet on this subject at 3GPP level.

SA3 has also received the same LS and has started to work on a work item (S3-060375) on Consumer protection against spam and malware, that take into account the GSMA study.

Service requirements should be taken into account by SA1

CR to 22.101 on Requirements for the determination of cell capability usage

To ensure a consistent level of service, and to meet user expectations, it is very important that the services being rendered to a user are matched to the cell's capabilities being used to access those services. Therefore, in addition to the cell's type and identity, there is also a need for real-time information about the cell capability being used to access a particular service to be made available to the core network. Based on this information, network operators can render the most appropriate service, dimension their networks based on the usage statistics, and set tariffs that more accurately reflect the radio resources being used to deliver each service

CR to 22.101 containing Corrections to align the Rel-8 and (latest) Rel-7 versions of TS 22.101

The Rel-8 version of TS 22.101 was created at TSG-SA#31 based on the agreement to move AIPN from Rel-7 to Rel-8. Unfortunately, at this time Rel-8 mirror CRs for the non-AIPN related CRs to the Rel-7 version of TS 22.101 approved at TSG-SA#31 were not created. Therefore, the Rel-8 version of TS 22.101 created at TSG-SA#31 is not fully aligned with the latest content of the Rel-7 version.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060321 | 22.101 | 0193 | - | Rel-8 | B | CR to 22.101 High Speed Interface between the Terminal and the UICC | 7.5.0 | 8.1.0 | S1-060624 |
| SP-32 | SP-060321 | 22.101 | 0192 | - | Rel-8 | B | CR to 22.101 on QoS Parameters Provision for Service Enabling | 8.0.0 | 8.1.0 | S1-060623 |
| SP-32 | SP-060321 | 22.101 | 0189 | - | Rel-8 | B | CR 22.101 R8: Spam protection | 8.0.0 | 8.1.0 | S1-060619 |
| SP-32 | SP-060321 | 22.101 | 0188 | - | Rel-8 | B | CR to 22.101 on Requirements for the determination of cell capability usage | 8.0.0 | 8.1.0 | S1-060594 |
| SP-32 | SP-060321 | 22.101 | 0186 | - | Rel-8 | F | CR to 22.101 containing Corrections to align the Rel-8 and (latest) Rel-7 versions of TS 22.101 | 8.0.0 | 8.1.0 | S1-060535 |

Authentication of source of SMS and provision of sender's name to 22.105

Currently SMS is widely used as notification in business ,for example the credit card authentication. So to make sure the the sender claimation in the SMS context is really the sender, we propose to provide a way for the end user to authenticate the SMS.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060322 | 22.105 | 0045 | - | Rel-8 | B | Authentication of source of SMS and provision of sender's name to 22.105 | 6.4.0 | 8.0.0 | S1-060539 |

Requirement for network initiated IMS registration request

Although not explicitly stated in this specification, the UE needs to perform a registration on the IMS before accessing the IMS services (i.e. Start an IMS session). This change request fills this gap by introducing the requirements for IMS registration (and de-registration) in the IMS stage 1.

Furthermore, in some scenarios an application server may need to request the terminal to activate an IMS session in order to transfer some data, however at present the network cannot request the invocation of an IMS session unless the UE is already registered in IMS. A requirement has been added to allow the network to request the UE to register on the IMS.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060323 | 22.228 | 0040 | - | Rel-8 | B | CR to 22.228 Requirement for network initiated IMS registration request | 7.3.0 | 8.0.0 | S1-060611 |

Add the live content requirement for streaming service in large scale network(multiserver system) to TS 22.233

Today large scale deployment of PSS is inevitable for big carriers, which can typically be a distributed network framework. However, when doing live streaming testing with such distributed framework, carriers find that there are very big interoperability problems among encoders and servers. The current specification did not consider the LIVE PSS between encoder and server, server and server as well as client and server to resolve the live streaming interoperability problem.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|-------|----------|------------|
| SP-32 | SP-060324 | 22.233 | 0030 | - | Rel-8 | B | Add the live content requirement for streaming service in large scale network(multiserver system) to TS 22.233 | 6.3.0 | 8.0.0 | S1-060627 |

6 Documents related to current Study Items (12)

6.1(CAT) - Study of Customised Alerting Tone (CAT) Requirements (12.01)

TR 22.982 on Customised Alerting Tones

Abstract of document:

The TR identifies the requirements and possible technical implementations for CAT service in CS domain, and the developments in PS domain.

Basically this TR considers voice services, though interaction with MITE services will be studied. Also Multi-media CAT will be taken into consideration, so the CAT user may experience favourable songs, multi-media clips or other customized alerting tones.

Changes since last presentation to TSG-SA Meeting #31:

- None, presentation for the first time.

Outstanding Issues:

- None

Contentious Issues:

- None

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-------|-----|--|------|----------|------------|
| SP-32 | SP-060326 | 22.982 | - | - | Rel-8 | - | TR 22.982 on Customised Alerting Tones | - | 1.0.0 | S1-060583 |

WID update

- Fulfilled action requested at SA
- Editorial modifications
- added two supporting companies

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|-----------------|------|----------|------------|
| SP-32 | SP-060327 | - | - | - | Rel-8 | - | CAT WI Revision | - | - | S1-060379 |

6.2(PRIOR-MM) - Multimedia Priority Service (12.04)

Multimedia Priority Service Feasibility Study Technical Report, V1.0.0

Abstract of document:

This Technical Report (TR) presents the results of the Feasibility Study on Multimedia Priority Service. The intent of this Feasibility Study is to assess the ability of 3GPP specifications to meet high-level requirements identified for Multimedia Priority Service. This Feasibility Study consisted of a multi-step process, namely:

1. Identify high-level requirements for Multimedia Priority Service.
2. Determine relevant 3GPP specifications for Multimedia Priority Service.
3. Perform a Gap Analysis to assess the ability of existing 3GPP specifications to meet the high-level Multimedia Priority Service requirements.

As defined in this document, Multimedia Priority Service allows qualified and authorized users to obtain priority access to the next available radio channel on a priority basis before other PLMN users during situations when PLMN congestion is blocking session establishment attempts. In addition, Multimedia Priority Service supports priority sessions on an “end-to-end” priority basis.

Multimedia Priority Service is intended to be used by qualified and authorized users, i.e., emergency service personnel, only during times of emergency situations and network congestion. Access to Multimedia Priority Service is limited to key personnel and those with leadership responsibilities and is not intended for use by all emergency service personnel.

Multimedia Priority Service is intended to be utilised for both Voice and Data in the Packet-switched domain and IMS.

Changes since last presentation:

- Editorial corrections and clarifications.

Outstanding Issues:

- May need to consider interaction with other services (e.g., IMS Multimedia Telephony, PoC, etc.).

Contentious Issues:

- None identified.

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|---|-------|----------|------------|
| SP-32 | SP-060328 | 22.953 | - | - | Rel-8 | - | [22.953] Multimedia Priority Service Feasibility Study Technical Report, V1.0.0 | 2.0.0 | 8.0.0 | S1-060517 |

MPS SI Update

- Applied the new template
- editorial modifications to the justification section
- new time scales (completed by this meeting)
- other minor editorial

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-------|-----|---------------|------|----------|------------|
| SP-32 | SP-060329 | - | - | - | Rel-8 | - | MPS SI Update | | | S1-060640 |

Multimedia Priority Service New Work item

The response to emergency situations (e.g. floods, hurricanes, earthquakes, terrorist attacks) depends on the communication capabilities of public networks. In most cases, emergency responders use private radio systems to aid in the logistics of providing critically needed restoration services. However, certain government and emergency management officials and other authorised users have to rely on public network services when the communication capability of the serving network may be impaired, for example due to

congestion or partial network infrastructure outages, perhaps due to a direct or indirect result of the emergency situation.

Priority Service for authorised persons in the context of circuit switched speech communications is described in TR 22.952. Similar prioritized service provision is needed for packet (e.g. IP) based multimedia services including data, video, audio, and text transmission capabilities.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-----|-----|------------|------|----------|------------|
| SP-32 | SP-060330 | - | - | - | - | - | MPS New WI | - | - | S1-060516 |

6.3(NetComp) - Network Composition (12.06)

Update of Network Composition WID

- added the specification number
- modified the completion date (TSG SA-35)
- added two supporting companies

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-----|-----|-----------------------------------|------|----------|------------|
| SP-32 | SP-060331 | 22.980 | - | - | - | - | Update of Network Composition WID | - | - | S1-060614 |

6.4Any other Studies (new proposed SIDs here) (12.16)

New WI for the Multi-media Conference

Multimedia conferencing is a service for two or more parties in different locations to communicate using a combination of audio, video, messaging and data. The data communication covers a variety of applications including whiteboard, document sharing, application sharing, desktop sharing, file delivery and etc. Multimedia conferencing is used for on-line collaboration, meeting, training, distance learning, medical treatment and etc. It has been getting more and more popular.

Multimedia conferencing covers a range of communication activities and technologies. Audio, video and data co-exist in a conversation of multiple parties, which is quite different from point-to-point multimedia conversation. Further more, multimedia conferencing provides a variety of data sharing as introduced above, but they have not been standardized within IMS. Therefore, how to develop the multimedia conferencing over IMS need to be studied, and firstly the comprehensive requirements of IMS multimedia conferencing should be carefully reviewed and identified.

Within 3GPP, some general requirements of IMS conferencing are identified in document TS 22.228, and TS 24.147 provides protocol details of conferencing within IMS. However many aspects for the complete IMS conferencing service have not been specified, such as data sharing, media control, floor control, conference policy, and etc. Within IETF, the SIPING WG specifies high level requirements of conferencing and a framework for conferencing with SIP. IETF XCON WG is to develop a standardized suite of protocols for conference, but the protocols do not intend for wireless mobile environments, and they are not specified with SIP. Within OMA, PoC is enhanced to support video, message and other media in addition to voice, and is defining the floor control mechanisms for different media; however applicability to conferencing needs to be checked.

In summary, to enable the IMS multimedia conferencing and achieve the interoperability, many aspects are to be standardized, especially data sharing in conferencing. We should carefully review and identify the requirements of multimedia conferencing, derive the related IMS requirements to support multimedia conferencing, and study the possible routes to standardization.

Objective

The objective of this study item is to study requirements that need to be standardized for IMS multimedia conferencing. Specifically, the objective of this study item is to:

- a) Identify features of IMS multimedia conferencing, and describe use cases that illustrate the service requirements for IMS multimedia conferencing.

- b) Derive the IMS requirements for multimedia conferencing services:
- the conference framework
 - data sharing session establishment/termination/management in a conference
 - MRF function for multimedia conferencing
 - multicast capability for multimedia conferencing
 - media control for audio, video and data
 - floor control for audio, video and data
 - conference policy
- c) Identify possible routes to standardization by:
- 1) Adopting existing and emerging standards, e.g. OMA, IETF.
 - 2) Modifying and enhancing existing and emerging standards.
 - 3) Developing of new standards.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-----|-----|---------------------------------------|------|----------|------------|
| SP-32 | SP-060332 | - | - | - | - | - | New WI for the Multi-media Conference | - | - | S1-060618 |

SID for study of a support for a Public Warning System

There are several natural disasters such as earthquakes, tsunami, and so on that result in considerable damage to the affected area as well as severe loss of life. When these disasters occur, it is essential that emergency information from local agencies (e.g. government/public service organisations) is provided to people within the disaster areas so actions can be taken to reduce damage and avoid loss of life.

In the particular case of earthquakes, early warning information based on detection of Primary waves can help avoid fatalities as it allows people in the affected area to execute safety measures (e.g. extinguishing gas stoves, opening doors, hiding under the table, moving to a safer place), before the arrival of the destructive Secondary wave.

The Japanese government intends to create early warning earthquake detection systems during 2006 and is requesting that mobile network operators deploy systems for broadcasting earthquake early warning information to mobile phone users.

Objective

The objectives of this study item are to perform a gap analysis on the existing 3GPP technologies if they were to be used to support a public warning system with particular emphasis on the following aspects (non-exhaustive list):

- Duration of delivery time (e.g. in 5 seconds);
- Volume of information (e.g. to sufficiently describe the warning to the user);
- granularity of the distribution of the public warning (e.g. Prefecture, County).
- prevention of spoofing of public warning messages
- interaction of the public warning message with the services active in the handset
- support of public warning messages in "legacy" handsets
- support of public warnings for roaming subscribers
- impact on battery life of the handset
- impact on existing infrastructure and dimensioning
- Support of multiple languages (e.g., deliver alert in the preferred language of the subscriber)
- Support of individuals with physical disabilities (e.g., visually impaired)
- Type of information to be provided (e.g., "what is the event?" "where is the event?" "where is the event heading (like a tornado)" "what actions should be taken by the user")

As each region (e.g. Japan, Europe, NA) may have different requirements based on many factors – e.g. what type of 'disasters' might be encountered in the region, what the regulators mandate, what the current legacy base capability is, etc., this study item also needs to account for the regional requirements and mandates for this type of service.

As this service is applicable to emergency situations every effort should be made to define a service that can be provided over existing mobile networks in the near-term. Therefore, conclusions on the requirements for this service should be provided to the technical groups, e.g. RAN2, GERAN2, CT1 during the duration of

this study to enable potential solutions to be identified and studied as soon as possible.

The study will take into account any related work in other bodies.

Finally, particular emphasis should be given to solutions that are suitable for addressing the requirements to deploy an Earthquake Alerting System.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-----|-----|--|------|----------|------------|
| SP-32 | SP-060333 | - | - | - | - | - | SID for study of a support for a Public Warning System | - | - | S1-060579 |

7 Proposed New WIDs (not part of an existing feature) (13)

3rd Party Charging - New WI

Provide a standardised option for calls to be charged to an alternate UE, or credit account. This feature will only be applicable between subscribers of the same network.

Objective

Provide capabilities that would identify a third party for billing. These may include:

- Calling Card
- Charging, Account Code Digits (account code digits as dialled by subscriber)
- Alternate Billing Digits
- Billing Digits Information
- ID Number

Charging standards currently do not support flows, messages, or ACR/CDR fields for Third Party Billing.

| SA | Doc. No. | TS or TR | CR. No. | Rev | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|-----|-----|-----|-----------------------------|------|----------|------------|
| SP-32 | SP-060334 | - | - | - | - | - | 3rd Party Charging - New WI | - | - | S1-060636 |

Proposed WID on SAE requirements

While SA1 was developing the AIPN stage 1 SA2 started to work on the system architecture evolution and these two activities have for a while continued on a parallel track. Later on, SA2 recognised that some of the requirements for the SAE could be derived from the AIPN stage 1 TS 22.258 and this generated a large number of liaisoning among the two groups. In order to rationalise the work in 3GPP it is therefore proposed to split the AIPN stage 1 in two parts: one capturing the requirements for the system architecture evolution (covered by this WID) and another capturing the requirements for services developed over the AIPN. This will restore the usual staged approach followed by 3GPP and will enable at the same time to develop the architecture for the support of those requirements present in TS 22.258 that have not been currently considered.

Motivations for further evolving the 3GPP system architecture include (non-exhaustive list):

- 1) Potential network and traffic cost reduction
- 2) Flexible accommodation and deployment of existing and new access technologies with mobility by a common IP-based network
- 3) Leverage of existing capabilities to evolve the 3GPP system towards an AIPN

Additionally, the following aspect identified within TR 21.902 "Evolution of 3GPP System" are considered relevant to the long-term evolution of the 3GPP system:

- 3GPP should focus on the inter-working between 3GPP Mobile Networks and other Networks considering mobility, high security, charging and QoS management

4 Objective

Spin off the architecture requirements from the AIPN stage 1 to form a new technical specification for the support of the system architecture evolution.

The objectives of this work item are to produce requirements to satisfy the short term and long term needs of 3GPP, specifically:

1. Investigate the feasibility of evolving the 3GPP taking into account the special requirements for the mobile community e.g. carrier grade, optimisation for the radio environment, recognizing support of multiple access system scenarios.
2. Support the evolution of the 3GPP System to an AIPN.
3. Identify the capability expansion required to introduce the AIPN concept into the 3GPP system taking into account migration and co-existence with the existing system

| SA | Doc. No. | TS or TR | CR. No. | Re v | Rel | Cat | Title | Vers | Vers New | SA1 Doc No |
|-------|-----------|----------|---------|------|-----|-----|----------------------------------|------|----------|------------|
| SP-32 | SP-060335 | - | - | - | - | - | Proposed WID on SAE requirements | - | - | S1-060602 |

8 Other Issues

8.1 Release independence of WIDs

Most of the change requests in SA1 against release 8 have been agreed with the TEI-8 work item code although in many occasions they are the continuation of work not completed in Release 7.

The WID does not indicate the release, so it would appear natural to use the same WID used for Rel-7 even if the work is targeting Release 8

9 Meetings of SA1

9.1 Meetings since last SA

The following meetings have been held since SA #31

| Meeting | Date | venue | Host |
|---------|----------------------|----------------------|--------------|
| SA1-32 | 24-Apr – 28 Apr 2006 | Shanghai, P.R. China | China Mobile |
| NWK-C | 29-May – 31 May 2006 | S.A., France | ETSI |

9.2 Planned meetings

SA1 Plenary

| Meeting | Date | venue | Host |
|---------|----------------------|------------------|------|
| SA1-33 | 26-Jun – 30 Jun 2006 | Lisbon, Portugal | EF3 |
| SA1-34 | 23-Oct – 27 Oct 2006 | Paris, France | EF3 |
| SA1-35 | 29-Jan – 02 Feb 2007 | Asia | tbc |
| SA1-36 | April 2007 | Europe | EF3 |

SA1 SWGs

None planned

Annex 1: Documents provided to this Plenary

| Tdoc | Title | Source | Agenda | Doc for |
|-------------|--|---------------|---------------|----------------|
| SP-060301 | SA1 status report presentation | SA WG 1 | 07.01 | Information |
| SP-060302 | SA1 status report | SA WG 1 | 07.01 | Information |
| SP-060303 | Support of Local Numbers in the IMS | SA WG 1 | 09.05 | Approval |
| SP-060304 | Addition of UMTS to GSM Redirection related text to 22.952 | SA WG 1 | 09.08 | Approval |
| SP-060305 | CRs to 22.223 on Operator Determined Barring | SA WG 1 | 09.12 | Approval |
| SP-060306 | Assorted CR to TS42.068 (VGCS) | SA WG 1 | 10.02 | Approval |
| SP-060307 | CR to 22.246 on Requirements of MBMS over generic IP | SA WG 1 | 10.06 | Approval |
| SP-060308 | Rel-7 CR on TS22.246 to enhance the requirement of roaming | SA WG 1 | 10.06 | Approval |
| SP-060309 | Requirements of MBMS over generic IP | SA WG 1 | 10.06 | Approval |
| SP-060310 | TS 22.173 version 1.1.0 | SA WG 1 | 10.07 | Approval |
| SP-060311 | Network selection enhancements Change requests to TS22.011 | SA WG 1 | 10.08 | Approval |
| SP-060312 | CR to 22.811 - Simplification of the scope of TR 22.811 | SA WG 1 | 10.08 | Approval |
| SP-060313 | Change requests to TS 22.259 Personal Area Networks | SA WG 1 | 10.10 | Approval |
| SP-060314 | TISPAN NGN defines the term UE in ETSI TR180 000 | SA WG 1 | 10.18 | Approval |
| SP-060315 | CR to 22.101 on Definition of IMS voice service | SA WG 1 | 10.24 | Approval |
| SP-060316 | VCC additional flexibility | SA WG 1 | 10.24 | Approval |
| SP-060317 | Identification of communication services | SA WG 1 | 10.25 | Approval |
| SP-060325 | CR to 22.105 on End-user expectations for gaming (Rel-8) | SA WG 1 | 10.40 | Approval |
| SP-060318 | Proposed revision of AIPN WID | SA WG 1 | 11.01 | Approval |
| SP-060319 | USSD TS 22.090 - Corrections | SA WG 1 | 11.03 | Approval |
| SP-060320 | Clarification on handling of emergency number | SA WG 1 | 11.03 | Approval |
| SP-060321 | Various change requests to 22.101 | SA WG 1 | 11.03 | Approval |
| SP-060322 | Add requirement for -authentication of source of SMS and provision of sender's name to 22.105 | SA WG 1 | 11.03 | Approval |
| SP-060323 | CR to 22.228 Requirement for network initiated IMS registration request | SA WG 1 | 11.03 | Approval |
| SP-060324 | Add the live content requirement for streaming service in large scale network(multiserver system) to TS 22.233 | SA WG 1 | 11.03 | Approval |
| SP-060326 | TR 22.982 on Customised Alerting Tones | SA WG 1 | 12.01 | Information |
| SP-060327 | CAT WI Revision | SA WG 1 | 12.01 | Approval |
| SP-060328 | Multimedia Priority Service Feasibility Study Technical Report, V1.0.0 | SA WG 1 | 12.04 | Approval |
| SP-060329 | MPS SI Update | SA WG 1 | 12.04 | Approval |
| SP-060330 | MPS New WI | SA WG 1 | 12.04 | Approval |
| SP-060331 | Update of Network Composition WID | SA WG 1 | 12.06 | Approval |
| SP-060332 | New WI for the Multi-media Conference | SA WG 1 | 12.16 | Approval |
| SP-060333 | SID for study of a support for a Public Warning System | SA WG 1 | 12.16 | Approval |
| SP-060334 | 3rd Party Charging - New WI | SA WG 1 | 13.00 | Approval |
| SP-060335 | Proposed WID on SAE requirements | SA WG 1 | 13.00 | Approval |