

TSGS#24(04)0281



Text report in SP-040282

SA1 Status Report to SA#24 ***SP-040281***

Michele Zarri, T-Mobile
SA1 Chairman

.....T.....Mobile.....

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SA1 Leadership

- **Chairman: Michele Zarri (T-Mobile)**
- **Secretary: Michael Clayton (MCC)**
- **Vice-chairs:**
- **Paul Carpenter (RIM),**
 - Elected at SA1#20
- **Chris Sachno (NTT DoCoMo),**
 - Elected at SA1#23

SA1 Sub Working Groups

- **Messaging**
- **LoCation Services (LCS)**
- **IP Multimedia Services (IMS)**
- **Wireless LAN (I-WLAN)**
- **Generic User Profile (GUP)**
- **Priority Services**
- **MBMS**

Meetings Held

- **SA1 Plenary**
 - **S1#24: 10 – 14 May 2004**
 - **Shenzhen, China**
 - **Hosted by ZTE**

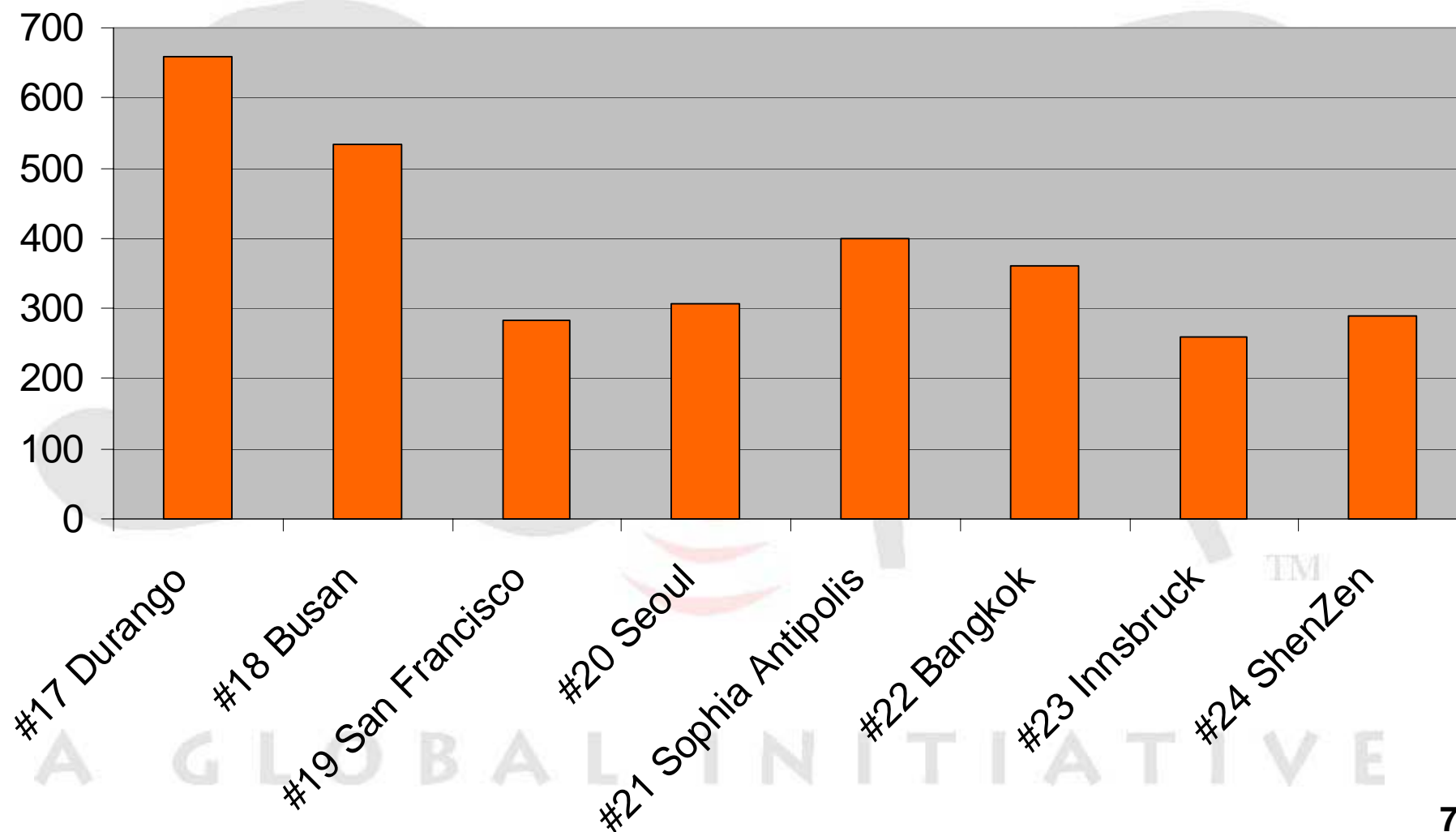
SA1 General Progress

- Starting to work on a number of Release 7 Work Items
- Major work on I-WLAN (particularly PLMN selection)
- Resolution of long standing IMS Messaging issue
- Priority service work on multimedia priority service on track
- Still ongoing discussion on some USAT issues and GUP issues

SA1 General Progress stats

- Received **66** Liaison statements
- Agreed **35** Change requests
- Agreed **8** new work items or revised WIDs
- Sent **15** liaison statements
- Agreed **0** TS and/or TR for information or approval
- Handled 288 documents

SA1 Documents



Sub working groups, Ad hoc summaries

- **Messaging (chaired by Mr Paul Carpenter from RIM)**
- **Priority (chaired by Mr James Garrahan from Telecordia)**
- **WLAN (chaired by Mr Chris Sachno from NTT DoCoMo)***
- **LCS (chaired by Mr David Williams from Qualcomm)**
- **MBMS (chaired by Mr Michael Clayton from MCC)***

*** Interim chairmen**

- **The Chairman would like to thank the SWG chairs for their hard work during the meeting**

Messaging SWG

- **The meeting took place over two sessions and received input on a number of proposed enhancements for MMS.**
- **The meeting covered 4 main areas:**
 - **Handling of Private Addressing Schemes**
 - **Presentation of MMS by the USAT**
 - **IMS Messaging Terminology**
 - **Harmonisation of Short Codes for Services Based on SMS, MMS and USSD.**

Priority SWG

- 10 participants from 9 companies
- 7 input documents, 7 output documents
- The meeting addressed 2 CRs to TR 22.950, the Priority Service Feasibility Study. Agreed to CRs (with modification) to present to SA1 for approval.
- The meeting addressed 3 CRs to TR 22.952, the Priority Service Guide. Agreed to CRs (with modification) to present to SA1 for approval.
- The meeting noted a draft (with modification) of the MPS Feasibility Study TR (v 0.1.0) to be used as a basis for future contribution.

WLAN SWG (I/II)

- The WLAN SWG met for 5 sessions at SA1#24.
- There were 29 input documents in total: 15 LSs and 14 input contributions.
- The topics covered included:
 - Network and PLMN Selection for 3GPP-WLAN interworking
 - Corrections to TS 22.234
 - Multiple connections to VPLMNs simultaneously
 - UE connection to I-WLAN
 - WLAN Charging Identifiers
 - Notifying other WGs about the status and content of the work on 3GPP-WLAN Interworking within SA1 .

WLAN SWG (II/II)

- There were 11 output documents: 6 output CRs and 5 LSs.
- 6 sessions requested for the WLAN SWG @SA1#25 as considerable interest in work is expected to continue.
- Report is provided within **S1-040468**.
- The Interim Chairman of the SWG (Mr. Chris Sachno) thanked all the delegates for their active contribution to the work.

LCS SWG

- ***Inclusion of GALILEO in 3GPP***
 - A feasibility study has been carried out in SA2
 - GSM-A asked for inclusion of GALILEO in 3GPP
 - WID for agreement in SA1 (479)
- ***Feasibility study of LCS in I-WLAN***
 - Outline f.s. noted (author not present)
 - Comments that a separate WID may be needed
 - User cases would be helpful
- **5 liaison statements considered and noted**

MBMS SWG (I/II)

- **The designated chairman was missing and so the meeting was chaired by MCC**
- **Two CRs were agreed by the SWG and one output liaison statement**
- **The issue of “Joining Availability Time” was discussed and SA1 agreed with SA2 that it was not necessary.**
 - **A CR in S1-040494 is in line with this.**

MBMS SWG (II/II)

- **The issue of releasing resources was discussed that was triggered by GERAN2; A liaison statement is being sent back in S1-040495**
 - Resources should not be released for Notifications.
 - Resources can be released for MBMS content.
 - There was still an objection from one company
- **ZTE have been working on requirements on "Efficient Usage of UE Memory" for MBMS but no CR could yet be agreed**

New Work Items

The following work items have been agreed in SA1 and sent for approval at SA:

- **Network Protection against Virus Infected Mobiles (SA#26)**
- **All-IP Network Feasibility Study (SA#26)**
- **Enhancements of VGCS in public networks (SA#26)**
- **Adding media to CS calls and IPMM sessions (SA#26)**
- **Multi system mobile stations (SA#26)**
- **Network Selection Enhancements (SA#26)**
- **A-GNSS concept to extend A-GPS to include GALILEO (SA#27)**
- **LCS for 3GPP Interworking WLAN (SA#26)**

Network protection against virus infected mobiles

The threat of a virus that repeatedly makes a connection request requiring both allocation of radio resources and network signalling processing can be substantial. The virus may be downloaded by the user unknowingly through various means: e-mail, SMS and Push services. While operators may be able to maintain some degree of control over the latter, the former pose a significant threat to the industry at large.

What is needed is therefore:

- A means of disabling an infected device from registering again on the network, both in the current network and any other network, i.e. effectively quarantining the device.
- A means of being able to repair the device
- A means of maintaining the disabled status of the device, even if the mobile has been successively switched off and on, until it is repaired.

All-IP network feasibility study

The objectives of this work item are to study further application of the All-IP Network concept. Identify and evaluate needs/drivers and identify work required to satisfy the short term and long term needs of 3GPP, specifically:

- 1. Investigate the business and technological drivers for progression of the 3GPP system to an All-IP Network:**
 - Study motivations
 - Study impact on current models (e.g. business/charging models)
 - Study the leverage of technological convergence and introduction of new technology in a cost effective way i.e. study if and how the introduction of a 3GPP All-IP Network will give a significant cost reduction (CAPEX and OPEX)
 - Identify any short and long term issues
- 2. To define and develop the end user and operator aspects of a 3GPP All-IP Network concept:**
 - Investigate the feasibility of evolving the 3GPP system towards an All-IP Network from existing functionalities:
 - Subsequent steps to be identified during the concluding phases of the Feasibility Study.

Enhancements of VGCS in public networks

Voice Group Services could be applicable in public networks for communication of public authority officials (police, firebrigade ..).

- **Enhancements needed for:**
 - **Speech encryption**
 - **SMS for group calls**
 - **Emergency alerting, talker identification ..**
- **Objective: CRs to existing specs**
- **Finalisation planned SA#26 (Dec. 2004)**

Adding media to CS calls and IPMM sessions

- The objective is to standardise a solution for adding IP media (picture, video, clip, file...) to a CS voice call or a CS voice call to an IP MM session.
- The first step is to conduct a feasibility study on the requirements, possible solutions; and their tradeoffs. Subsequent steps (e.g. the production of a TS and/or CRs; stage 2 and 3; and any other work) should be identified during the concluding phases of the feasibility study.

Multi-system mobile stations

It is proposed that SA1 should study the best way to document the behaviour of a multi system mobile station that supports 3GPP systems. This will be documented in a new Technical Report. The distinction between 3GPP internal requirements and system selection requirements between 3GPP and other systems should be kept clearly visible for the implementors.

Network selection enhancements

Experience has shown that the current network selection procedure can lead to a roaming UE selecting a network with which the HPLMN does not have a GPRS roaming agreement, even though there is a network available with GPRS roaming agreement in place.

As the range of devices available on the market diversifies there will be a number which rely upon the ability to use GPRS to enable key parts of their functionality. It would be advantageous if the network selection procedure for such devices would give precedence to the VPLMNs with which the HPLMN has a GPRS roaming agreement.

This WID aims to improve the user experience when roaming with GPRS services.

A-GNSS concept to extend A-GPS to include GALILEO

- The A-GPS method provides high service accuracy but service availability could be improved, especially when considering the obstacles masking the signals of part of the GPS satellites in urban environments.
- Other satellite positioning systems will be developed in the near future. It has been highlighted the advantages of enlarging the Assisted GPS concept to Assisted Global Navigation Satellite Systems, and particularly to the GALILEO system, since it allows to improve the lacks mentioned here above.
- It is then important for the 3GPP specifications to open the door to these other systems.
- The objective of this WID is to include the capability of assisted GALILEO into 3GPP.

LCS for 3GPP

Interworking WLAN

- The purpose of the feasibility study is to study a generic interworking functionality for LCS between 3GPP system and WLAN systems (e.g. IEEE 802.11 family, HIPERLAN/2, ...). In specific it aims at:
 - Study the LCS requirements for 3GPP WLAN Interworking scenarios.
 - Study the different possible LCS architectures for interworking.

Issues and progress reports

- **OSA GUP requirements**
- **PLMN selection in I-WLAN**
- **Other issues**

OSA GUP requirements

- **CN5 has asked for detailed GUP requirements for OSA so that this service capability can be supported in Rel-6.**
- **At present SA1 has not identified specific requirements for GUP besides the generic requirements for OSA**
- **SA1 still considers the support of GUP in OSA a requirement**

PLMN selection in I-WLAN

- **SA1 has tried to follow the procedure for PLMN selection described in 22.011**
- **It was attempted not to specify the WLAN access network selection which was considered not in the scope of SA1**
- **Two additional lists have been introduced for prioritisation of PLMNs providing I-WLAN, however they are not mandatory for PLMN selection with an I-WLAN**

Other issues

- **Liaison statements reduction**

In order to save valuable meeting time in SA1 as well as in other WGs it was agreed to try to reduce the number of outgoing LSs. Some of the LSs will be replaced by direct communication with the chairmen of the interested groups by the chairman of SA1 or by information given during the SA plenary. SA1 will in principle produce LSs only:

i) when change requests to core specifications are agreed that should receive urgent attention in other groups (e.g. CR to a frozen release)

ii) when requirements are clarified as a result of an incoming LS. (on a case by case basis)

LSs requiring clarifications on stage 1 that do not result in change requests will not normally be answered. (it is expected that the other WGs spend some time reading the stage 1 documents).

Other issues

- **Possible additional SWG meeting**

In order to progress the work on some of the WIDs agreed by SA1 with the aim of meeting the demanding timescales SA1 is evaluating the possibility of holding an additional set of SWG meetings in August - September.

- **Removal of obsolete Rel-5 text in Rel-6**

Actions on WG1 allocated during TSG SA#23 (I/VIII)

- **SA1 should consider document SP-040055 "CEPT/ECC consultation on use of short codes" and check if there is any impact on the current specifications**
 - **The issue was analysed in the Messaging SWG and it was concluded that no action is required. An LS on this issue, containing a proposed response to CEPT ECC, is provided for the consideration of TSG SA#24. **CLOSED****

Actions on WG1 allocated during TSG SA#23 (II/VIII)

- The GSM Association sent a LS on I-WLAN scenario 3 to SA where they listed a number of services that are considered important by the operators community.
 - A discussion took place in the WLAN SWG and it was agreed to add a definition of PS based services. This was considered sufficient to fulfil the operators' requirements. **CLOSED**

Actions on WG1 allocated during TSG SA#23 (III/VIII)

- **Use of the UTRAN to discover WLAN access networks**
 - The issue was discussed in the WLAN SWG and it was agreed that this capability has to be supported by detailed requirements explaining the expected user experience and the required functionality. It is expected that the discussion will continue at SA1#25. There was insufficient interest in progressing this issue further at this time.

CLOSED

Actions on WG1 allocated during TSG SA#23 (IV/VIII)

- **PLMN selection in I-WLAN**
 - A CR was prepared to TS 22.234 and distributed to CN1, T3 and SA2. More on this in slide 27 **CLOSED** (subject to the approval of the CR and other WGs feedback)
- **Single definition of Radio Access Technology**
 - This issue was discussed but no CR was agreed. **ONGOING**

Actions on WG1 allocated during TSG SA#23 (V/VIII)

- **Use of RAT in background scan**
 - SA1 has analysed the impacts identified by CN1 and has agreed a number of change requests to 22.011 aimed to mitigate the undesired side effects as well as to solve some problems that may occur (CR 65 and CR 59 are conditionally approved). A liaison statement has been sent to CN1 asking for their expert opinion on this issue. **CLOSED (subject to the approval of the CRs and CN1 feedback)**

Actions on WG1 allocated during TSG SA#23 (VI/VIII)

- Requirements for MMS private addressing schemes
 - A discussion took place on the email reflector where use cases for this feature were also presented. During the Messaging SWG a CR to 22.140 was agreed. **CLOSED (subject to the approval of the CR)**

Actions on WG1 allocated during TSG SA#23 (VII/VIII)

- **Requirements for multi-system UE**
 - SA1 has discussed the issue of multi-system UEs and agreed to initiate a WID to explore this area in detail. Furthermore SA1 has agreed a preliminary CR to 22.011 that covers some of the concerns raised during the discussion of the 3GPP – 3GPP2 selection at SA#23.
ONGOING

NOTE: see also the corresponding WID

Actions on WG1 allocated during TSG SA#23 (VIII/VIII)

- **Transfer of PLMN selection for I-WLAN from 22.011 to 22.234**
 - **Some text on PLMN selection in I-WLAN was still present in 22.011 even if it was more appropriate for the TS 22.234. Since this TS was only approved at SA#23, and in order not to lose the requirement the transfer was performed at this meeting. **CLOSED****

NOTE: see also the corresponding WID

Future SA1 Plenary Meetings

- SA1#25 28 June 2004 - 02 July 2004 North America
- SA1#26 11 October - 15 October 2004 Europe
- SA1#27 17 January - 21 January 2005 S.A.
- SA1#28 April 2005 TBD (Europe)

***Documents and Issues
for discussion,
information and approval***

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Documents/Issues from SA1 to SA (I/III)

SP-040286 Inclusion of ANP abbreviation as requested by SA3

SP-040286 TR 21.905 Addition WLAN UE definition and classes of equipment and abbreviation

SP-040283 Modification of table A1 required to remove wrong SS applicabilities to VG Services

SP-040283 Modification of table A1 required to remove wrong SS applicabilities to VG Services

SP-040287 Behaviour of Single Mode mobiles with regards to the use of access technology in the PLMN selector lists

SP-040287 Identification of FDD and TDD in the PLMN selector lists

SP-040287 Use of access technology in Periodic Network Selection attempts

SP-040287 Clarification on the use of the RAT during network selection

SP-040299 Multimode terminals with 3GPP capability

SP-040298 Support of multiple HPLMN codes

SP-040295 Priority usage of UICC parameters for I-WLAN

SP-040287 Mobile behaviour when performing Periodic Network Selection attempts in un-coordinated networks

Colour coding

Information

Change request

Technical specification/report

Work Item Description

Documents/Issues from SA1 to SA (II/III)

SP-040300 Accuracy of information Indication of capability
SP-040284 SCUDIF corrections for CAMEL interworking
SP-040284 SCUDIF corrections for CAMEL interworking
SP-040285 Correction to preconditions for connecting a held party to the group
SP-040285 Correction to preconditions for connecting a held party to the group
SP-040288 Correction of UICC related text.
SP-040301 Termination of location privacy override for emergency calls
SP-040292 Editorial Correction of R5 reference
SP-040289 Correction of open ended OSA high abstraction requirement
SP-040290 Support of MMS operator specific services
SP-040290 Clarification on MMS client interaction with UICC
SP-040290 Update to scope and removal of VHE based requirement.
SP-040291 Addition of a concept regarding UE joining time
SP-040293 Deletion of duplicated scenarios of Annex A
SP-040292 Editorial Correction of R5 reference
SP-040295 Priority usage of UICC parameters for I-WLAN
SP-040294 Addition of a definition of 3GPP PS based services

Colour coding

Information

Change request

Technical specification/report

Work Item Description

Documents/Issues from SA1 to SA (III/III)

SP-040294 Selection of a PLMN accessed via an I-WLAN

SP-040296 Deletion of Annex C (Informative) from draft ITU-T Recommendation F.706

SP-040296 Deletion of Annex B (Informative) from ITU-T Recommendation E.106

SP-040297 TR 22.952 - Correction to Figure 5.7: Priority Service Mobile Originated – Queue Time-Out

SP-040297 TR 22.952 - Correction to Figure 5.8: Priority Service Call Termination – Radio Resources Unavailable and Queue Time-Out

SP-040297 Change of TS 08.08 reference to 48.008

SP-040302 New WI on Network Protection against Virus Infected Mobiles

SP-040303 New WI on All-IP Network Feasibility Study

SP-040304 New WI on Enhancements of VGCS in public networks

SP-040305 New WI on Adding media to CS calls and IPMM sessions

SP-040306 New WI on Multi system mobile stations

SP-040307 New WI on Network Selection Enhancements

SP-040308 New WI on A-GNSS concept to extend A-GPS to include GALILEO

SP-040309 New WI on LCS for 3GPP Interworking WLAN

Colour coding

Information

Change request

Technical specification/report

Work Item Description