

TSG-SA WG2 report at TSG SA #23

**Magnus Olsson, SA2 Chairman
and
Sang-Ui Yoon, MCC (SA2 Support)**

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- **General aspects (events since SA#22, statistics, next meetings)**
- **Issues on Rel99 and before**
- **Issues on Release 4**
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- **Progress and issues on Release 6**
- **S2 Tasks not Completed by March**
- **Actions expected from SA#23 by SA2**

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General aspects (1/5)

Meetings since TSG-SA #22

- **TSG-SA WG2 plenary meetings:**
 - SA2#37 in Innsbruck/Austria, 12~16 Jan, hosted by European Friends of 3GPP, co-located with SA1
 - SA2#38 in Atlanta/U.S.A., 16~20 Feb, hosted by North American Friends of 3GPP, co-located with CN1~CN5

General aspects (5/5)

Statistics at SA2#37 and SA2#38:

- Around 80 delegates attended each meeting
- Around 1.000 temporary documents handled, among them:
 - 99 incoming LSs
 - 45 outgoing LSs
 - 192 CRs (including revisions)
- 861 people registered on the SA2 e-mail reflector on March 2nd.

General aspects (2/5)

SA2 drafting sessions held during SA2#37 & SA2#38:

- LCS, chaired by Mr. Gavin Wong (Vodafone)
- MBMS, chaired by Mr. André Jarvis (THREE) at S2 #37 and Antti Pasanen (Nokia) at S2 #38
- WLAN, chaired by Mr. Frédéric Paint (Telenor)
- Charging, chaired by Dr. Alexander Milinski (Siemens)
- Network sharing, chaired by Dr. Ulf Nilsson (TeliaSonera) at S2 #38
- Push, chaired by Mr. Nicholas Alfano (RIM) at S2 #37 and Dr. Liz Daniel (Lucent) at S2 #38

E-mail discussions monitored by Mr. Aki Noda (Fujitsu).

SA2 Vice-Chairs: Mr. Aki Noda and Dr. Alexander Milinski

THANKS TO ALL OF THEM !!

General aspects (3/5)

Next SA2 meetings:

- **SA2 #39: 19 - 23 April, 2004**
 - Shenzhen, China
 - Hosted by ZTE
- **SA2 #40: 17 - 21 May, 2004**
 - Sophia Antipolis, France
 - Hosted by ETSI

General aspects (4/5)

SA2 Meeting Plan for 2004:

- **SA2 #41: Montreal/Canada, hosted by North American Friends of 3GPP, 16 - 20 August, 2004**
- **SA2 #42: Sophia Antipolis/France, hosted by ETSI, 11 - 15 October, 2004**
- **SA2 #43: Korea, hosted by Samsung, 15 - 19 November, 2004**

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Issues on Rel99 and before

- **LCS (03.71 and 23.171)**
 - **CRs on Routing of Emergency Calls based on Geographical Coordinates**
 - **The R6 CRs was approved at SA#22 and SA also asked for CRs on earlier releases**

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Issues on Release 4

- Nothing R4 specific this time



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Issues on Release 5 (1/2)

- In addition to mirror CRs of R99 and Rel4 changes:
 - GPRS (TS 23.060):
 - Correction of PDP context to SAPI mapping
 - Removal of preservation procedure for realtime bearers in A/Gb mode
 - QoS
 - 23.107: Addition of a note that the delivery order attribute should be set to 'no' for PDP Type = 'IPv4' or 'IPv6'.
 - 23.207: Inclusion of Update Authorization Procedure

Issues on Release 5 (2/2)

- **Early UE (TS 23.195)**
 - **Alignment with GERAN decisions and removal of duplicated text**
- **Architecture Requirements (TS 23.221)**
 - **Clarification that the COMMON ID is not sent to the UTRAN in the case of rejection of the LA/RA update request by the CN**
- **IMS (TS 23.228)**
 - **Clarification of the relation of IMS sessions and PDP Contexts**

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Rel-6 work item status (1/7)

- **Architecture (TS 23.002)**
 - **Clean up of the Gq interface description**
- **GPRS Stage 2 (TS 23.060)**
 - **Provision of S-CDR information to the GGSN**
 - **Deletion of informative Annex B Figures and C Tables**
 - **Partial roaming restrictions**
 - **SGSN QoS restriction during GGSN initiated PDP ctx modification procedure**
 - **Addition of IMEISV for Automatic Device Detection function**
 - **Correction to pre-defined PFI**

Rel-6 work item status (2/7)

- **Location Services Stage 2 (TS 23.271)**
 - Roaming support for Area Event LDR
 - Clarification on the privacy check procedure
 - Integration of IMS Users into the LCS Architecture
 - Introduction of LCS QoS Class and Enhancement of MO-LR
- **GUP Stage 2 (TS 23.240)**
 - Addition of a listing function
 - Rg reference point alignment with Liberty ID-WSF
 - Generalizing the subscriber identity term to resource identity
 - Authorization enhancements
 - Authorization model alignment with GUP Information Model

Rel-6 work item status (3/7)

- **IMS Phase 2 (TS 23.228)**
 - **21 CRs agreed:**
 - **Session based messaging**
 - **Message size limitations for Immediate messaging**
 - **Clarifications and optimization in registration information flow**
 - **Relationship between private user IDs and IMS subscription**
 - **Record Route at S-CSCF**
 - **Relation of IMS sessions and PDP Contexts**
 - **Local Services**
 - **Resource reservation in IMS**
 - **etc..**
- **Presence (TS 23.141)**
 - **Clarification on the support for the Ut reference point**

Rel-6 work item status (4/7)

- **MBMS Stage 2 (TS 23.246)**
 - **13 CRs agreed:**
 - Clarifications and corrections
 - Paging Coordination
 - Buffering of MBMS data at the RNC
 - Distribution of BM-SC functionality
 - MBMS Application Adjunct Server
 - SGSN filtering of RAs to support RA-based optimization
 - TMGI Definition and Objective and NSAPI in MBMS Multicast Service Activation
- **QoS (TS 23.107)**
 - Clarification of the handling of the ARP attribute

Rel-6 work item status (5/7)

- **WLAN (TS 23.234)**
 - The WLAN TS 23.234 is sent to SA#23 for approval
 - SA2 only expects corrections and no functional modifications after SA#23
- **Push Services (TR 23.976)**
 - TR 23.976 is sent to SA#23 for approval
 - The TR is nearly complete, but one issue remains to be solved:
 - There is no agreement on whether to recommend that NRPCA for dynamic IP addresses shall be standardized or not
 - A “show of hands” at SA2#38 resulted in 6 hands in favor and 9 against standardization of NRPCA for dynamic IP addresses
 - SA is asked to provide guidance on how to reach a decision
- **SES (TR 23.877)**
 - The TR 23.877 is sent to SA#23 for approval

Rel-6 work item status (6/7)

- **BARS (TR 23.977)**
 - TR 23.977 progressed with additional aspects on: Handover scenarios, IMS to CS interworking, use of SIP as an inter PLMN signalling protocol and TFO-TrFO codec type alignment
 - TR 23.977 planned to be sent for approval at SA#24
- **Gq/Policy control (TS 23.207)**
 - New procedures added, information on mapping in AF and PDF added, etc..
 - SA2 expects some more category B CRs after SA#23
- **IP Flow Based Bearer Level Charging (TS 23.125)**
 - TS 23.125 is sent to SA#23 for approval
 - The TR 23.825 v1.0.0 was presented for information in SA #21 September 2003. The TR was then “converted” to the TS 23.125.
 - SA2 expects to complete the TS before SA#24

Rel-6 work item status (7/7)

- **IPv6 and IPv4 related issues (TR 23.881)**
 - TR 23.881 is sent to SA#23 for information
 - SA2 expects the TR to be complete in June
- **PoC (TR 23.979)**
 - TR 23.979 progress dependant on stable OMA PoC AD
 - It is estimated that SA2 can stabilize the TR 3 months/2 meetings after a stable OMA PoC AD is available
- **Network Sharing Stage 2 (TR 23.851)**
 - The TR 23.851 is sent to SA#23 for approval
 - It is proposed to create a stage 2 TS for Network Sharing based on the TR
 - SA2 expects to complete the TS by SA#24

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S2 Tasks not Completed by March(1/7)

- PS domain and IMS impacts for supporting IMS Emergency calls
 - No contributions for the last two SA2 meetings
 - Substantial amount of work remains
 - SA2 Completion date moved to November
 - Will not make R6
- FS on applicability of GALILEO for LCS
 - SA2 has asked other WGs for feedback on the study but has not received anything (since May)
 - No contributions received in SA2 (since May)

S2 Tasks not Completed by March(2/7)

- **IMS Messaging**
 - A few more Category B CRs are expected
 - SA2 Completion date set to April
- **3GPP Enablers for services like Push to Talk over Cellular (PoC)**
 - SA2 Completion date set to June
 - Dependency on Stable OMA AD, it is expected that SA2 can be ready 3 months/2 meetings after a stable OMA PoC AD (including requirements on the underlying Network)

S2 Tasks not Completed by March(3/7)

- Interworking aspects and migration scenarios for IPv4 based IMS Implementations (Study)
 - The study is expected to be completed by June
- Support of Push Services
 - The TR 23.976 is up for approval at SA#23
 - The only outstanding issue is the decision whether NRPCA with Dynamic IP address assignment shall be standardized or not
 - SA2 completion date kept as March but marked with 95% progress as there is still one open issue

S2 Tasks not Completed by March(4/7)

- Network Sharing
 - TR for approval at SA#23
 - TS to be created based on the content of the TR
 - Open Issues:
 - Architectural solution for rerouting/redirection in the MOCN architecture
 - SA2 completion date set to June
- Definition of the Gq interface
 - A few more Category B CRs are needed
 - Open Issue:
 - Rejection of Media Parameters in PDF
 - SA2 completion date set to April

S2 Tasks not Completed by March(5/7)

- Overall architectural aspects of IP flow based bearer level charging
 - TS up for approval at SA#23 (based on the content of the existing TR)
 - Outstanding issues:
 - Relation to some aspects of GPRS charging (e.g. identification of nodes, relation to GPRS online charging, Charging key)
 - Impacts on the architecture based on whether OCS, CRF and TPF belong to the home or visited network
 - Relation with IMS
 - Relation to WLAN
 - SA2 completion date set to June

S2 Tasks not Completed by March(6/7)

- **Bandwidth and resource savings in CS networks**
 - Outstanding issues:
 - Complex Handover Scenarios
 - Recommendations
 - SA2 completion date set to June
- **CS Video and Voice**
 - Outstanding issues:
 - Compare mechanisms to implement the requirements in an 800 series TR and based on the chosen solution potentially produce a stage 2 description
 - SA2 completion date set to June

S2 Tasks not Completed by March(7/7)

- **New WID: Access Class Barring and Overload Protection (S2-040042)**
 - SA2 Completion date set to June
- **New WID: Combining CS bearers with IMS (S2-040044)**
 - SA2 Completion date, for FS, set to September

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Actions expected from SA#23 by SA2 (1/5)

Presentation for information:

**TR 23.881 on “Interworking aspects and migration scenarios for IPv4 based IMS Implementations”,
Version 1.0.0 in [SP-040048](#)**

Actions expected from SA#23 by SA2 (2/5)

Presentation for approval:

- TR 23.976 on "Push Architecture", Version 2.0.0 in **SP-040046**
- TR 23.877 on "Speech Enabled Services", Version 2.0.0 in **SP-040047**
- TS 23.234 on "3GPP WLAN interworking", Version 2.5.0 in **SP-040049**
- TS 23.125 on "Overall High Level Functionality and Architecture Impacts of Flow Based Charging", Version 2.0.0 in **SP-040050**
- TR 23.851, "Network sharing; Architecture and Functional Description", Version 2.0.0 in **SP-040051**

Actions expected from SA#23 by SA2 (3/5)

Approval of the following CRs (1/2):

- 23.002 (Network Architecture):
 - CR list in [SP-040031](#)
- 23.060 (GPRS/PS domain stage 2):
 - CR list in [SP-040032](#)
- 23.107 (QoS):
 - CR list in [SP-040033](#)
- 23.195 (Early UE handling)
 - CR list in [SP-040034](#)
- 23.207 (End to end QoS):
 - CR list in [SP-040035](#)

Actions expected from SA#23 by SA2 (4/5)

Approval of the following CRs (2/2):

- **23.221 (Architecture Requirements):**
 - CR list in **SP-040036**
- **23.228 (IMS Stage 2):**
 - CR list in **SP-040037**
- **23.240 (GUP stage 2):**
 - CR list in **SP-040038**
- **23.246 (MBMS Stage 2):**
 - CR list in **SP-040039**
- **03.71, 23.171 and 23.271 (LCS Stage 2):**
 - CR list in **SP-040040**

Actions expected from SA#23 by SA2 (5/5)

- **Updated WID for approval:**
 - Updated WID for Flow Based Charging in **SP-040041**
 - Revised WID on Circuit Switched Video and Voice Service in **SP-040043**
 - Updated WID on Network Sharing in **SP-040045**
- **New WID for approval:**
 - New WID on 3GPP Access Class Barring and Overload Protection in **SP-040042**
 - New WID on Combining CS bearers with IMS in **SP-040044**



That's all, folks.

Thank You!

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