

TSG-SA WG2 report at TSG SA #28

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General aspects (1/5)

SA2 Leadership changes:

- **New MCC support**
 - **Maurice Pope**

General aspects (2/5)

SA2 drafting sessions held during SA2#45 and #46:

- FBC and PCC, chaired by Balazs Bertenyi (Nokia)
- E2E QoS, chaired by Robert Jaksa (Huawei)
- CSI, chaired by Yun Chao Hu (Ericsson) and Wenlin Zhang (Huawei)
- VCC/SC, chaired by Andrew Bennet (Lucent)

E-mail discussions monitored by Wenlin Zhang (Huawei) and Frank Mademann (Siemens).

SA2 Vice-Chairs: Frank Mademann and Wenlin Zhang

THANKS TO ALL OF THEM !!

General aspects (3/5)

Meetings since TSG-SA #27

- **TSG-SA WG2 plenary meeting:**
 - **SA2#45 in Beijing, China, 4 – 8 April, hosted by Huawei**
 - Joint session with SA1 on AIPN
 - **SA2#46 in Athens, Greece, 9 - 13 May, hosted by EF3**
 - Joint SA2/RAN2/RAN3 session on SAE/RAN LTE

General aspects (4/5)

Statistics at SA2#45 and #46:

- **Around 120 delegates attended each meeting**
- **Around 420 temporary documents handled, among them:**
 - **76 incoming LSs**
 - **23 outgoing LSs**
 - **134 CRs handled (including revisions), of which 45 agreed CRs**
- **916 people registered on the SA2 e-mail reflector on May 24th.**

General aspects (5/5)

Planned SA2 meetings for the rest of 2005:

- **SA2#47: 27 June – 1 July, 2005**
 - Joint sessions with RAN3 on SAE/RAN LTE
 - Montreal, Canada, Hosted by NAF
- **JM SA2-ETSI AT-F, July 11 pm, 2005**
- **JM SA2/CT1/ETSI TISPAN, 12 - 13 July, 2005**
- **JM SA2/CT1, 14 July, 2005**
 - Sophia Antipolis, France, Hosted by ETSI
- **JM SA2/RAN2/RAN3, 1-2 September, 2005**
 - London, UK, Hosted by EF3
- **SA2#48: 5 – 9 September, 2005**
 - Sophia Antipolis, France, Hosted by ETSI
- **Joint SA2/RAN2/RAN3, 19-20 September, 2005**
 - Tallinn, Estonia, Hosted by EF3
- **SA2 #49: November 7 - 11, Asia**

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Issues on Release 5 and before

- **Nothing this time**



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Issues on Release 6

- **Overall Architecture (TS 23.002)**
 - Addition of the MBMS and FBC entities into the overall architecture
- **GPRS Stage 2 (TS 23.060)**
 - Clarification on the Activation of secondary PDP context without TFT
- **QoS stage 2 (TS 23.107)**
 - The scope is modified to clarify that GERAN is included in the scope
 - Alignment between 25.413 on the value range of the RAB attribute ARP (extended to 15 possible values, apart from GERAN when the Gb Bearer Service is used).

Issues on Release 6

- **IP Flow Based Bearer Level Charging (TS 23.125)**
 - TPF behavior in case of no charging rules for a bearer
 - FBC Terminology amendments
 - Alignment of Re-authorization triggers
 - OCS initiated bearer removal
- **Presence (TS 23.141)**
 - Correction of description of PNA indirect control of Presence Information flow
 - Alignment with Stage 3 on partial publications
 - Clarification on the Location of the Presence Server and Presence entities
 - Clarification on UE based PUA/Network based PUA
 - Update of references
- **E2e QoS (TS 23.207)**
 - Update on the handling of binding information

Issues on Release 6

- **IMS Phase 2 (TS 23.228)**
 - Alignment of Session-based Messaging flows with stage 3
 - Clarification on AS forking
 - Corrections to wild carded PSIs
 - Clarification to the routing of SIP signaling within the IMS network
 - Session setup with media set to inactive
 - Correction to ENUM resolution for Infrastructure ENUM
- **WLAN (TS 23.234)**
 - Correction to Wn Reference Point
 - Clarification on the need for user authentication at tunnel establishment
 - Mandating the support of Immediate Purging
 - Detecting the start of a WLAN Direct IP Access session based on Wa/Wd Accounting Messages

Issues on Release 6

- **MBMS Stage 2 (TS 23.246)**
 - Clarification on the use of MBMS support indication from SGSN to UE
 - Modifications for MBMS tracing
 - Clarification of the TMGI definition
 - Correction to charging information for MBMS
 - Corrections to Inter SGSN Routeing Area Update procedure
 - Clarification of MBMS Join
 - Clarification that a UE needs to join again for MBMS bearer service it has locally deactivated
 - Clarification of Estimated Session Duration
 - General corrections

Issues on Release 6

- **Network Sharing (TS 23.251)**
 - Clarification of PS and CS domain registration coordination for non-Gs Networks
- **Location Services Stage 2 (TS 23.271)**
 - Clarifications on the use of non-dialable callback number
- **PoC (TR 23.979)**
 - Correction of OMA PoC references

Issues on Release 6

- **Load Redistribution between CN nodes in A/Gb/Iu flex**
 - SA2 has, at the last 3 meetings, discussed the potential mechanisms to remove load from one CN node using A/Gb/Iu flex in an orderly manner
 - At the last SA2 meeting SA2 tried to conclude on the placement of 2 functionalities (RAN or CN):
 - The triggering functionality that determines that a new CN node needs to be selected
 - And the selection functionality that performs the actual selection of a new CN node
 - SA2 has agreed on a working assumption that selection functionality is placed in RAN
 - SA2 has not yet reached agreement on the placement of the triggering functionality (RAN or CN):
 - a show of hands at the last SA2 meeting indicated a slight majority for the CN based trigger (4 hands vs 3 hands)
 - SA2 will continue the technical evaluation via e.g. phone conferences
 - SA2 also encourage the members to form an opinion on the issue, to facilitate an informed decision at the next SA2 meeting, if necessary via a show of hands

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Issues on Release 7

- **IMS (TS 23.228) and Fixed Broadband access to IMS**
 - **Support of Access Network NAT traversal**
- **Location Services Stage 2 (TS 23.271)**
 - **Clarifications for EU on MT-LR without HLR query and NI-LR**
 - **Addition of missing abbreviation of RTT**

Issues on Release 7

- **Combination of CS and IMS (TS 23.279/TR 23.899)**
 - TS 23.279 is presented to SA#28 for approval
 - If/how to continue with TR 23.899 will be discussed at the next meeting
- **PS domain and IMS impacts for supporting IMS Emergency calls (TR 23.867)**
 - The IMS level impacts are progressed to meet ETSI TISPAN Phase 1 deadline
 - TR 23.867 is presented to SA#28 for information

Issues on Release 7

- **Study on E2E QoS Enhancements (TR 23.802)**
 - TR 23.802 is presented to SA#28 for information
- **SMS and MMS over generic IP access (TR 23.804)**
 - TR 23.804 is presented to SA#28 for approval

Issues on Release 7

- **Selective disabling (TR 23.805)**
 - TR 23.805 is progressing well but decision on the mechanism to use is still pending
- **Voice Call Continuity (TR 23.806)**
 - TR 23.806 is presented to SA#28 for information
- **FS on applicability of GALILEO for LCS**
 - SA2 propose to discontinue this feasibility study

Issues on Release 7

- **Policy Control Evolution (TR 23.803)**
 - TR 23.803 is presented to SA#28 for information
- **I-WLAN (TR 23.836)**
 - TR 23.836 is started and progressing well

Issues on Release 7

- **3GPP System Architecture Evolution (TR 23.882)**
 - Joint Session with SA1 on AIPN
 - Joint Session with RAN2&3 on SAE/RAN LTE
 - Some requirements and a baseline architecture is agreed
 - In addition SA2 has documented two architecture proposals that represents on a high level the spectrum of various architecture proposals
 - See also <http://www.3gpp.org/ftp/Specs/html-info/23882.htm>

Issues on Release 7

- **3GPP System Architecture Evolution (TR 23.882)**
 - At the Joint Session with RAN2&3 in Athens companies presented their ideas for the new architecture and identify the key architecture issues
 - Due to lack of time it was not possible to agree on a list of key issues in the meeting but the Chairs were asked to take the issues raised into consideration when producing the agenda for the next meetings
 - Guidance from RAN/SA would be appreciated on the following issues:
 - Is the evolved system envisioned to work on new and/or existing frequency bands?
 - Is it expected that the evolved system is primarily deployed in the same area as an existing UTRAN System or not?

Issues on Release 7

- **3GPP System Architecture Evolution (TR 23.882)**
 - In addition RAN and SA are asked to clarify if the SAE/RAN LTE work shall take into consideration that the “legacy” WCDMA RAN should be able to be connected to the new CN, and, to what extent should the WCDMA RAN benefit from the SAE/LTE work?

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Actions expected from SA#28 by SA2 (1/5)

- **Presentation for approval:**
 - TS 23.279 "Combining CS and IMS services", Version 2.0.0 in **SP-050344**
 - TR 23.804 "Support of SMS and MMS over generic 3GPP IP access", Version 2.0.0 in **SP-050349**
- **Presentation for information:**
 - TR 23.802 "Architectural Enhancements for End-to-End Quality of Service (QoS)" Version 1.0.0 in **SP-050346**
 - TR 23.806, "Voice Call Continuity between CS and IMS Study", Version 1.0.0 in **SP-050347**
 - TS 23.804 "Internet Protocol (IP) based IP Multimedia Subsystem (IMS) emergency sessions", Version 1.0.0 in **SP-050348**
 - TS 23.803 "Evolution of policy control and charging", Version 1.0.0 in **SP-050354**

Actions expected from SA#28 by SA2 (2/5)

Approval of the following CRs (1/3):

- 23.002 (Overall Architecture):
 - CR list in **SP-050332**
- 23.060 (GPRS/PS domain stage 2):
 - CR list in **SP-050333**
- 23.107 (e2e QoS):
 - CR list in **SP-050334**
- 23.125 (IP flow based charging):
 - CR list in **SP-050335**
- 23.141 (Presence):
 - CR list in **SP-050336**

Actions expected from SA#28 by SA2 (3/5)

Approval of the following CRs (2/3):

- **23.207 (E2e QoS):**
 - CR list in **SP-050337**
- **23.228 (IMS):**
 - CR list in **SP-050338**
- **23.234 (WLAN interworking):**
 - CR list in **SP-050339**
- **23.246 (MBMS Stage 2):**
 - CR list in **SP-050340, SP-050353 and SP-050355**
 - **The CR in SP-050355 is a combination of CR # 147 and 154 distributed in SP-050353. If SP-050355 is approved it replaces the CRs in SP-050353**
- **23.251 (Network Sharing)**
 - CR list in **SP-050341**

Actions expected from SA#28 by SA2 (4/5)

Approval of the following CRs (3/3):

- 23.271 (LCS Stage 2):
 - CR list in **SP-050342**
- 23.979 (3GPP enablers for PoC services):
 - CR list in **SP-050343**

Actions expected from SA#28 by SA2 (5/5)

- **New WIDs for approval:**
 - WID on IMS Communication Service Identifier in **SP-050350**
 - WID on Feasibility study on enhancement of radio performance for VoIMS in **SP-050351**
- **Revised WIDs:**
 - WID on Voice call continuity between CS and IMS (incl. I-WLAN) in **SP-050352**

That's all, folks.

Thank You!

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Abbreviations

| | | | |
|---------|---|-------------------------|-----------------------------------|
| NI-LR | Network Induced Location Request | RTT | Round Trip Time |
| DTM | Dual Transfer Mode | NAT | Network Address Translator |
| IMEISV | International Mobile station Equipment Identity and Software Version Number | PSI | Public Service Identifier |
| | | TPF | Traffic Plane Function |
| FBC | Flow Based Charging | PNA | Presence Network Agent |
| PUA | Presence User Agent | TFT | Traffic Flow Template |
| BARS | Bandwidth And Resource Savings in cs networks | ARP | Allocation and Retention Priority |
| MRFP | Multimedia Resource Function Processor | See also 3GPP TS 21.905 | |
| SMLC | Serving Mobile Location Center | | |
| SAS | Stand-Alone SMLC | | |
| NA-ESRD | North American Emergency Services Routing Digits | | |
| FBC | Flow Based Charging | | |
| PCC | Evolution of Policy Control and Charging | | |
| SC | Service Continuity | | |
| VCC | Voice Call Continuity | | |
| MT-LR | Mobile Terminate Location Request | | |