TSG-SA WG2 report
at TSG SA #26

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and

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General aspects (1/5)

Meetings since TSG-SA #25

- **TSG-SA WG2 plenary meeting:**
  - **SA2#42 in Sophia Antipolis, France, 11-15 October, hosted by ETSI**
  - **SA2#43 in Seoul, Korea, 15-19 November, hosted by Samsung**

General aspects (2/5)

Statistics at SA2#42 and 43:

ï **Around 90 delegates attended each meeting**

ï **Around 1000 temporary documents handled, among them:**

ñ **80 incoming LSs**

ñ **32 outgoing LSs**

ñ **120 CRs**

ï **872 people registered on the SA2 e-mail reflector on December 6th.**

General aspects (3/5)

SA2 drafting sessions held during SA2#42 and #43:

ï MBMS, chaired by Mr. Antti Pasanen (Nokia) and Mr. Andre Jarvis (3)

ï WLAN, chaired by Mr. Nicolas Martiquet (Orange) and Mr. Osok Song (Samsung)

ï Charging, chaired by Dr. Alexander Milinski (Siemens)

ï Network sharing, chaired by Dr. Ulf Nilsson (TeliaSonera)

ï CS Voice and Video, chaired by Mr. Chris Pudney (Vodafone)

ï E2E QoS, chaired by Mr. Robert Jaksa (Huawei)

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 (4/5)

Next SA2 meeting:

ï **SA2#44: 26 January ñ 2 February, 2005**

   ñ **Budapest, Hungary**

   ñ **Hosted by EF3**

General aspects (5/5)

Planned SA2 meetings for 2005:

- **SA2 #45: April 4 - 8, CN**
- **SA2 #46: May 9 - 13, EU**
- **SA2 #47: June 27 ñ July 1, NA**
- **SA2 #48: September 5 ñ 9, ETSI**
- **SA2 #49: November 7 - 11, Asia**

- **General aspects (Events since SA#25, statistics, next meetings)**
- ***Issues on Rel99 and before***
→ - **Issues on Release 4**
- **Issues on Release 5**
- **Issues on Release 6**
- **Issues on Release 7**
- **Actions expected from SA#26 by S2**

Issues on Rel99 and before

ï **No issues**

- ï **General aspects (Events since SA#25, statistics, next meetings)**
- ï **Issues on Rel99 and before**
- ➔ ï ***Issues on Release 4***
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Issues on Release 4

ñ **LCS (TS 23.271)**

ï **Correction to resolve invalid references**

ï **General aspects (Events since SA#25, statistics, next meetings)**

ï **Issues on Rel99 and before**

ï **Issues on Release 4**

➔ ï ***Issues on Release 5***

ï **Issues on Release 6**

ï **Issues on Release 7**

ï **Actions expected from SA#26 by S2**

Issues on Release 5

- **QoS (TS 23.107)**
  - **Clarification on handling of the delivery order attribute**
- **IMS (TS 23.228)**
  - **The option to forward HSS name from I-CSCF to S-CSCF is removed (alignment with stage 3)**
- **Iu\A\Gb-Flex (TS 23.236)**
  - **Clarification of the NRI position within (P)-TMSI**
  - **It is clarified that the TLLI is not received in every LLC frame**

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Rel-6 work item status (1/8)

- **Overall Architecture (TS 23.002)**
  - **Addition of floor control in the list of MRFP functions**
  - **Removing GPS specific text from the description of Stand-Alone SMLC (SAS)**
- **GPRS Stage 2 (TS 23.060)**
  - **Transfer of selected core network operator identity between SGSN and MSC/VLR for Network Sharing**
  - **Introduction of management based triggering of Trace activation**
  - **Clarification on handling of preserved Real Time PDP context**
- **QoS (TS 23.107)**
  - **Clarification on handling of the delivery order attribute**
    - **Similar to the R5 CR but not a pure mirror**

Rel-6 work item status (2/8)

ï **IP Flow Based Bearer Level Charging (TS 23.125)**

   ñ **19 CRs agreed on corrections related to e.g.:**

      ï **Selection of CRF, CCF/OCS addressing**

      ï **Connection maintenance**

      ï **Modification of charging rules**

      ï **Clarification of Credit Pooling**

      ï **Granularity of charging data collection**

      ï **SGSN event is MCC/MNC related**

      ï **Handling of PDP contexts**

      ï **Charging Rules apply on a per PDP context basis**

      ï **CRF is responsible for policy control functions in FBC**

      ï **Selection of charging rules**

      ï **Security considerations between CRF and AF**

      ï **Volume and time based charging and online charging procedure**

      ï **Bearer termination message flow**

      ï **Rx handling**

      ï **Removal of FFS notes**

      ï **Clarify the terminology related to instances**

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Rel-6 work item status (3/8)

- IMS Phase 2 (TS 23.228)
    - **18 CRs agreed on corrections and clarifications on e.g.:**
        - **Treatment of SIP forking request**
        - **Floor control**
        - **IMS end-points shall be able to support sending or receiving DTMF tone indications**
        - **Clarification of which endpoints may be involved in Session Redirects and Transfers**
        - **Addition of Application Server termination section**
        - **Revision of session set-up from external SIP client**
        - **Missing step in identity procedure**
        - **Correction to PSTN Termination**
        - **Removal of support for local services**
        - **Removal of Editor's Note on ISC**
        - **Reorganization and clarification of session flows**
        - **Changes for commonality in regards to token generation**
        - **Tel-URI related reference updates**
        - **Informing AS on Registration**
        - **Editorial corrections and changes to SIP URL terminology**

Rel-6 work item status (4/8)

- **WLAN (TS 23.234)**
  - **25 CRs agreed on additions, modifications and corrections related to e.g.:**
    - **Editorial corrections and clean up**
    - **Clarification on Wd, Wm and Ww reference points**
    - **Charging in WLAN interworking architecture**
    - **Correction of online charging disconnect procedure**
    - **Clarification on network selection and PLMN selection procedure**
    - **Correction of multiple service authorization requirement**
    - **Removal of WLAN UE registration at tunnel establishment**
    - **Providing configuration parameter to the WLAN UE during tunnel establishment**
    - **Removing tunnel redirection option**
    - **Clarification of the procedure to disconnect the last tunnel**
    - **Remove duplicated charging requirement for the PDG**
    - **3GPP WLAN User profile Update**
    - **Correction on Annex E**

Rel-6 work item status (5/8)

ï **GUP Stage 2 (TS 23.240)**

    ñ **Removal of UE as GUP Data Repository**

Rel-6 work item status (6/8)

- **MBMS Stage 2 (TS 23.246)**
  - **19 CRs agreed, related to e.g.:**
    - MBMS Service Area
    - Session Identity
    - Separate rendering for 2G and 3G
    - MBMS Session Notification
    - MBMS UE context
    - MBMS Broadcast Session Stop Procedure
    - Clarification of BM-SC functions
    - Change between supporting and non-supporting SGSN
    - MBMS Architecture corrections
    - How to Avoid Overloading the Central Server after Sending Service Announcement
    - Correction for MBMS Multicast Deactivation Procedure
    - Corrections for Inter SGSN Serving RNS Relocation & Routing Area Update Cases
    - Guaranteed bitrate for Streaming MBMS
    - MBMS Charging Related Correction
    - Separate MBMS Sessions for 2G and 3G for same MBMS Bearer Service
    - Insertion of List of PMM-CONNECTED UEs into MBMS Service Context
    - Clarification of MBMS UE Linking handling
    - Delaying data transfer at session start
    - List of number of PMM-IDLE UEs per RA parameter for RAN
    - Editorial and terminology corrections

Rel-6 work item status (7/8)

- **Network Sharing (TS 23.251)**
  - **Addition of informative Annex ì NRI allocation examplesî**
  - **Indication of selected CN operator in connected mode**
- **Location Services Stage 2 (TS 23.271)**
  - **9 CRs related to, e.g.:**
    - **Service Type checking corrections**
    - **Privacy mechanism at deferred location request ñ UE available event**
    - **QoS Class at Deferred Location Request**
    - **Clarifications on the LCS authorisation response**
    - **Delete new address of MSC/SGSN from Subscriber Location Report**
    - **NA-ESRD Provision for NI-LR Location Based Routing in North America**
    - **POI applicability**

Rel-6 work item status (8/8)

- **PoC (TR 23.979)**
  - **TR 23.979 is complete and presented for approval at SA#26**
  - **No further Stage 2 or Stage 3 work has been identified**

- **IPv4 based IMS implementations (TR 23.981)**
  - **Clarification to the Interworking support in dual stack IM CN subsystem**

- **CS Voice and Video**
  - **TR 23.903 (Re-dial solution) is presented for approval**
  - **Some additional Stage 3 CRs may be needed to complete the Re-dial solution (see TR 23.903)**

- **General aspects (Events since SA#25, statistics, next meetings)**
- **Issues on Rel99 and before**
- **Issues on Release 4**
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➔ - ***Issues on Release 7***
- **Actions expected from SA#26 by S2**

Issues on Release 7

- **Access Class Baring and Overload Protection (TR 23.898)**
  - **TR 23.898 is progressing well**
  - **Planned completion date is March 2005**
- **Combination of CS and IMS (TR 23.899)**
  - **TR 23.899 is presented for information and includes partial conclusions**
  - **The first phase of Combining CS and IMS services & Capability Detection mechanism is stable and can be used to start specification work**
  - **New WID for specification of Phase 1, Combining CS and IMS services & Capability Detection mechanism, is also provided to SA#26**

Issues on Release 7

- **PS domain and IMS impacts for supporting IMS Emergency calls (TR 23.867)**
  - An updated WID is provided to SA#26
  - The IMS level impact is estimated to be completed by June 2005
- **Study on E2E QoS Enhancements (TR 23.802)**
  - TR 23.802 is progressing well
  - Estimated completion date is June 2005

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Issues on Release 7

- **FS on applicability of GALILEO for LCS**
  - **SA2 has asked other WGs for feedback on the study but has not received anything (since May 2003)**
  - **No contributions received in SA2 (since May 2003)**

ï **General aspects (Events since SA#25, statistics, next meetings)**

ï **Issues on Rel99 and before**

ï **Issues on Release 4**

ï **Issues on Release 5**

ï **Issues on Release 6**

ï **Issues on Release 7**

➔ ï *Actions expected from SA#26 by S2*

Actions expected from SA#26 by SA2 (1/5)

ï **Presentation for approval:**

  ñ **TR 23.903, " Redial Solution for Voice-Video Switching", Version 2.0.0 in SP-040822**

  ñ **TR 23.979, î 3GPP enablers for OMA PoC Servicesî , Version 2.0.0 in SP-040749**

ï **Presentation for information:**

  ñ **TR 23.899 î Report on alternative architectures for combining CS Bearers with IMSî , Version 1.0.0 in SP-040748**

Actions expected from SA#26 by SA2 (2/5)

Approval of the following CRs (1/3):

- **23.002 (Overall Architecture):**
    - **CR list in SP-040750**

- **23.060 (GPRS/PS domain stage 2):**
    - **CR list in SP-040751**

- **23.107 (E2E QoS):**
    - **CR list in SP-040752**

- **23.125 (IP flow based charging):**
    - **CR list in SP-040753 and SP-040875**

Actions expected from SA#26 by SA2 (3/5)

Approval of the following CRs (2/3):

ï **23.228 (IMS Stage 2):**

   ñ **CR list in SP-040754**

ï **23.234 (WLAN interworking):**

   ñ **CR list in SP-040755**

ï **23.236 (Iu/A/Gb-Flex):**

   ñ **CR list in SP-040756**

ï **23.240 (GUP stage 2):**

   ñ **CR list in SP-040757**

Actions expected from SA#26 by SA2 (4/5)

Approval of the following CRs (3/3):

- ï **23.246 (MBMS Stage 2):**
    - ñ **CR list in SP-040758**
- ï **23.251 (Network Sharing)**
    - ñ **CR list in SP-040759**
- ï **23.271 (LCS Stage 2):**
    - ñ **CR list in SP-040760**
- ï **23.981 (IPv4 based IMS Implementations):**
    - ñ **CR list in SP-040761**

Actions expected from SA#26 by SA2 (5/5)

ï **Updated WID for approval:**

  ñ **Updated WID on PS domain and IM CN subsystem support for IMS Emergency sessions in SP-040746**

ï **New WID for approval:**

  ñ **WID for Combining CS and IMS services & Capability Detection mechanism in SP-040747**

That's all, folks.

Thank You!

Abbreviations

NI-LR	**Network Induced Location Request**
DTM	**Dual Transfer Mode**
IMEISV	**International Mobile station Equipment Identity and Software Version Number**
FBC	**Flow Based Charging**
PUA	**Presence User Agent**
BARS	**Bandwidth And Resource Savings in cs networks**
MRFP	**Multimedia Resource Function Processor**
SMLC	**Serving Mobile Location Center**
SAS	**Stand-Alone SMLC**
NA-ESRD	**North American Emergency Services Routing Digits**

See also 3GPP TS 21.905