TSG-SA WG5 (Telecom Management) Status Report

Reported by

Albert H. Yuhan
TSG-SA WG5 Chair

3GPP SA5 Officers

- **Chair** – since 03/99, re-elected 02/2001

   Albert H. YUHAN (VoiceStream Wireless)

- **Vice Chair** – since 06/99, re-elected 02/2001

   Michael TRUSS (Motorola Ltd)

- **Secretary** – since 01/00

   Adrian ZOICAS (MCC)

- **Five (5) Rapporteur Groups (RG)**

Re-elected for a 2nd two-years term at SA5#18, Versailles - 02/2001
   Chair: Albert H. YUHAN
   Vice Chair: Michael TRUSS

Officers *(cont.) - Rapporteur Groups*

- **AR/PR – Architecture & Principles**

  Michael TRUSS (Motorola Ltd), Tommy BERGGREN (Telia) – since 06/99

- **CB – Charging & Billing**

  Thaddeus KOBYLARZ (AT&T Corp) – since 10/00

- **CM – Configuration Management**

  Thomas TOVINGER (Ericsson L.M.) – since 07/99

- **FM – Fault Management**

  Patrick JURE (Lucent Technologies NS UK) – since 07/00

- **PM – Performance Management**

  Karl-Heinz NENNER (T-Mobil) – since 07/99

Meetings

- ## SA5 #17

  - 22 – 26 Jan 2001 in Sophia-Antipolis, France hosted by ETSI
    Attended by 46 delegates

  - Full report in S5-010100

- ## SA5 #18

  - 26 Feb – 2 Mar 2001 in Versailles, France hosted by Nortel Networks France
    Attended by 54 delegates

  - Full report in S5-010200

Activity Highlights

- **Release 99 completed at SA#10, December 2000**
- **Release 4**
  - **Work items/plan approved at SA#10, December 2000**
  - **Work started in January 2001**
  - **Completion status of Release 4 at SA#11 is 40%**
  - **100% completion (all under CR) target remains 06/01**
  - **TMF input by 3GPP IMs may advance Rel5 items into Rel4**
- **Release 5**
  - **Subscription Management (SM) Feature started**
- **Intra-3GPP coordination/communication** (SA1/2,T2,CN5)
- **Interaction with external organizations** (TMF, IETF-AAA)

Administrative / Organizational

Re-elected for a 2nd term at SA5#18, Versailles - 02/2001

Chair: **Albert YUHAN (VoiceStream Wireless)**

Vice Chair: **Michael TRUSS (Motorola Ltd)**

Inter-Organizational

- **Communication with SA1 on Subscription Management WI**

  $\Rightarrow$ **It has been agreed that when CRs are prepared to update TS 32.140 and 32.101 a Liaison will be sent to S1, S2, T2 and CN groups requesting comment & input.**

  It is hoped to send this liaison at SA5#19 (April 2001).

- **Presentation by SA1 delegate (Jörg SWETINA – Siemens Austria) on Open Service Access (OSA)**

Inter-Organizational *(cont.)*

- **Communication with T2 on Subscription Management WI and the concept of User Equipment management**

  => As a result of Terminal Management progress (see the next slide) attendance of SA5 delegate(s) at a T2 meeting is being actively investigated.

  A liaison has been sent to T2 from SA5 #18 (March 2001).

Inter-Organizational *(cont.)*

- **Continued interaction with TMF MMC for 3G mobile management standards work co-operation**

   => As a result of a joint session at SA5#18 (March 2001) it was agreed to co-operate on:

   $\Rightarrow$ **SA5's User Equipment Management draft Feature-level WI and TMF's Mobile Terminal Equipment Management Project**

   $\Rightarrow$ **SA5's PM Measurements and TMF's Wireless Service Based Measurements**

   => As a result of a joint SA5 CM Rapporteur Group / TMF MMC meeting at SA5#18, an input based on TMF's MCCM Catalyst Project will be taken for Release 4/5.

Inter-Organizational *(cont.)*

- **Agreement with 3GPP2 TSG S WG2 continues**

  => The agreement with 3GPP2 TSG S WG2 continues, and that group is referencing SA5's specifications and it is only developing own delta specification for exception areas.

Inter-Organizational (cont.)

- **Co-operation with T1M1 on CORBA framework alignment**

    => Mainly done within ITU-T (see next slide)

Inter-Organizational *(cont.)*

- **Co-operation with ITU-T SG4 on CORBA framework standardization**

  => As a result of SA5 members' participation at the ITU-T SG4 meeting in Geneva, January 2001, the ITU_T CORBA Framework Recommendation will normatively reference the 3GPP TS 32.106-3 (Notification IRP CORBA SS) for event / notification management.

  => Further co-operation is under investigation (Feasibility Study in Release 5)

Technical, *Work Planning*

Feature: *Charging and OAM&P (Rel4/5)*

Contains Six (6) SA5 BBs (SA#10 approved) - Work started 01/2001:

- **OAM-AR:** Principles, high level Requirements and Architecture - Rel 4 (40% complete)
- **OAM-CM:** Configuration Management - Rel 4 (50% complete)
- **OAM-FM:** Fault Management - Rel 4 (40% complete)
- **OAM-PM:** Performance Management - Rel 4 (40% complete)
- **OAM-CH:** Charging Management - Rel 4 (25% complete)
- **OAM-CH/IP:** Charging Management for all-IP UMTS networks - Rel 5 (0% complete)

Four (4) SA5 BBs requested by other TSGs - Work started 01/2001:

- **QoSPS-OAMCH: Ensure reliable QoS for PS domain (SA2) - Charging (SA5.CH) - Rel 4 (10% complete)**
- **OSA1-OAM: OSA enhancements (SA1/CN5) - Charging (SA5.CH) - Rel NA (0% complete) – just started**
- **LCS1-OAM: Location Services enhancements (SA2) - Charging + OAM&P (SA5) - Rel NA (0% complete) – remains Low- Priority and un-resourced**
- **IMS-OAM: Provisioning of IP-based MMS (SA1) - Charging and OAM&P (SA5) - Rel 5 (0% complete) – a Policy Management WT has been incorporated under the SA5 Feature: "Charging and OAM&P"; for Charging 0%**

TSG Approval Target for Release 4: 06/2001 (TSG#12)

Technical, Work Planning (cont.)

Feature: UTRAN Operations & Maintenance procedures (Rel4)

- **Objective: To capture procedures and guidelines for identifying solutions to manage a multi-vendor UTRAN effectively.**

- **Draft produced (TR 32.800) - estimated 75% complete**

- **Consistency checks underway with:**
    - **RAN3 specifications (25.430 & 25.433) - estimated 20%complete**

- **TSG Approval Target: 06/2001 (TSG#12)**

Technical, *Work Planning (cont.)*

Feature: *Subscription Management (Rel5)*

- **Operational Requirements and Specifications (TS 32.140)**
  - **Subscription Management is a feature that permits operators to provision services for a specific customer subscription, i.e. create/amend/delete subscription data (30% complete)**

- **Co-ordination planned with other working groups on e.g.:**
  - **VHE enhancement (SA1), (U)SIM Toolkit enhancement (T3), MExE enhancement (SA1/T2), HSS interface (CN). Draft 32.140 for information to these groups expected by 04/2001.**
  - **Charging and OAM&P (SA5 Feature)**
    OAM-AR: Principles +Architecture, OAM-CM: Configuration Management (60% complete)
    OAM-CH: Charging Management (0% complete)

- **Completion of requirements planned for 09/2001**

- **TSG Approval Target: 12/2001 (TSG#14)**

Technical, Release-99

- **2 Changes requested to 32.005 -- SP-010023**

SA approval is requested

- **6 Changes requested to 32.015 -- SP-010024**

SA approval is requested

- **1 Change requested to 32.101 -- SP-010022**

SA approval is requested

- **1 Change requested to 32.102 -- SP-010026**

SA approval is requested

- **2 Changes requested to 32.111-3 -- SP-010031**

SA approval is requested

Technical, Release-99 (cont.)

- **2 Changes requested to 32.106-2 -- SP-010027**

SA approval is requested

- **7 Changes requested to 32.106-3 -- SP-010028**

SA approval is requested

- **2 Changes requested to 32.106-5 -- SP-010029**

SA approval is requested

- **7 Changes requested to 32.106-6 -- SP-010030**

SA approval is requested

- **2 Changes requested to 32.106-7 -- SP-010031**

SA approval is requested

Technical, Specifications to be created for Release 4

GSM 12-series (for management of GSM networks),

assigned to SA5, should NOT be moved to Release 4

- 12.71 (approved 06/00) will NOT be continued in SA5 (new owner looked for)

Nr	Title	former WG	WG	WG other
12.00	Objectives and Structure of GSM PLMN Management	SMG6	S5	-
12.01	Common Aspects of Public Land Mobile Network (PLMN)	SMG6/3	S5	NP
12.02	Subscriber, Mobile Equipment (ME) and Services Data	SMG6/1	S5	S1
12.03	Security Management	SMG6/1/3	S5	S1/NP
12.04	Performance Management and Measurements for a GSM PLMN	SMG6/1/3	S5	S1/NP
12.05	Subscriber Related Call and Event Data	SMG6/1	S5	S1
12.06	Network Configuration Management and Administration	SMG6/3	S5	NP
12.07	Public Land Mobile Network (PLMN) Quality of Service	SMG6/1/3	-	-
12.08	Subscriber and Equipment trace	SMG6/3	S5	NP
12.11	Fault management of the Base Station System (BSS)	SMG6/1/2	S5	S1/GP
12.15	General Packet Radio Service (GPRS); GPRS Charging	S5	S5	-
12.20	Base Station System (BSS) Management Information	SMG6/3	S5	NP
12.30	ETSI Object Identifier Tree; Mobile Domain O&M	SMG6	S5	-
12.71	Location Services (LCS); Location services management	S5	S5	-

Technical, Specifications to be created for Release 4

3GPP Release 99, 32-series (management of 3G networks)

Nr	Title	Rel-4	Comment
32.005	Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	No	New TSs (32.1x5)
32.015	Charging and billing; 3G call and event data for the Packet Switched (PS) domain	No	New TSs (32.1y5)
32.101	3G Telecom Management principles and high level requirements	Auto	create after SA#11
32.102	3G Telecom Management Architecture	CR	at SA#11
32.104	3G Performance Management	Auto	create after SA#11
32.106-1	Configuration Management; Part 1: 3G configuration management; Concept and requirements	Auto	create after SA#11
32.106-2	Configuration Management; Part 2: Notification Integration Reference Point; Information Service Version 1	CR	at SA#12
32.106-3	Configuration Management; Part 3: Notification Integration Reference Point; CORBA Solution Set Version 1:1	CR	at SA#12
32.106-4	Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	CR	at SA#12
32.106-5	Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1	No	CR at SA#12 to split into 5 sub-parts (32.106-5-1/5)
32.106-6	Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	No	ditto (32.106-6-1/5)
32.106-7	Configuration Management; Part 7: Basic Configuration Management IRP CMIP	No	ditto (32.106-7-1/5)
32.106-8	Configuration Management; Part 8: Name convention for Managed Objects	Auto	create after SA#11
32.111-1	Fault Management; Part 1: 3G fault management requirements	CR	at SA#12
32.111-2	Fault Management; Part 2: Alarm Integration Reference Point: Information Service	CR	at SA#12
32.111-3	Fault Management; Part 3: Alarm Integration Reference Point: CORBA Solution Set Version 1:1	CR	at SA#12
32.111-4	Fault Management; Part 4: Alarm Integration Reference Point: CMIP Solution Set	CR	at SA#12

19

Technical, New Specifications for Release 4

- **A new TS 32.xyz on CS domain Charging, based on and replacing 32.005 in Release 4, is submitted in SP-010025 to**

SA for information as version 1.0.0

Type	Number	Title	Vers	Comment
TS	32.xyz	3G charging data description for the CS domain	1.0.0	SA#11 for information
TR	32.800	Management Level Procedures and Interaction with UTRAN	0.1.0	

Technical, Release-5 (cont.)

- **Feature-level WI under consultation:**
  - **User Equipment (UE) Management**
    - UE Software update
    - UE Diagnostic test

**Draft WI created,
currently circulating to other 3GPP WGs for comment,
before submission to SA#12 for Approval**

Future SA5 Meetings

Ad-hoc meetings panned to achieve Rel4 in 06/01

Meeting	Date	Location	Host
SA5 #19	2 - 6 April 2001	Los Angeles, USA	3GPP NA
SA5#19bis (CM/FM AH)	17-20 April	Budapest, Hungary	Ericsson
SA5#19ter (FM AH)	9-11 May	Sophia Antipolis, France	ETSI
SA5#19quad (CM AH)	14-16 May or 21-23 May	Sophia Antipolis, France or Phoenix, USA	ETSI or AWS
SA5 #20	28 May - 1 June	UK	BT, Vodafone
SA5 #21	16 – 20 July	Naperville, USA	Lucent
SA5 #22	3 – 7 September	France ??	Alcatel
SA5 #23	15 – 19 October	Sweden ??	Telia
SA5 #24	26 – 30 November	North America	3GPP NA