

TSGS#12(01)0230

Meeting #12, Stockholm, Sweden, 18-21 June 2001



TSG-SA WG5 (Telecom Management) Status Report

Reported by

**Albert H. Yuhan
TSG-SA WG5 Chair**

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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)
- **MCC Support** – since 01/00
Adrian ZOICAS (MCC)
- **Five (5) Rapporteur Groups**

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Officers (cont.) - Rapporteur Groups

- **AR/PR – Architecture & Principles**
Michael TRUSS (Motorola Ltd) – since 06/99
- **CB – Charging & Billing**
Thaddeus KOBYLARZ (AWS) – since 10/00
- **CM – Configuration Management**
Thomas TOVINGER (Ericsson L.M.) – since 07/99
- **FM – Fault Management**
Patrick JURÉ (Lucent Technologies NS UK) – since 07/00
- **PM – Performance Management**
Karl-Heinz NENNER (T-Mobil) – since 07/99

Meetings

- **SA5 #19**
 - 2 – 6 April 2001 in Los Angeles, CA, USA
hosted by 3GPP North American friends
Attended by 47 delegates
 - Full report in S5-010300
- **Three (3) Ad-Hoc meetings:**
 - SA5#19bis (CM/FM) 17-20 April 2001, Budapest (Ericsson)
 - SA5#19ter (FM) 9-11 May 2001 Sophia Antipolis (ETSI)
 - SA5#19quad (CM) 14-16 May 2001 Sophia Antipolis (ETSI)
- **SA5 #20**
 - 28 May – 1 June 2001 in Brighton, UK
hosted by BT
Attended by 57 delegates
 - Draft report in S5-010358

Activity Highlights

- **Release 4**

Feature: Charging and OAM&P (OAM)

- Completion status at SA#12 is **90%**
- 100% completion (all under CR) target is **09/01 (TSG#13)**

Feature: UTRAN Operations and Maintenance procedures (uOAM)

- Completion status at SA#12 is **100%**

- **Release 5**

Feature: Charging and OAM&P

- Completion status at SA#12 is **20%**

Feature: Subscription Management (SM)

- Completion status at SA#12 is **40%**

- **Intra-3GPP coordination/communication** (SA1/2,T2,CN4/5)

- **Interaction with external bodies** (3GPP2 S2, IETF-AAA, ITU-T SG4, T1M1, TMF MMC)

Inter-Organizational

Communication with:

- **SA1, SA2, CN4, T2 on Subscription Management**
 - ✍ Draft 32.140 sent to SA1 for information (04/01).
Awaiting feedback.
 - ✍ Liaison sent to SA1 (06/01) requesting participation in User Profile activity and attaching latest draft 32.140.
Awaiting feedback.
- **SA2 on IMS**
 - ✍ Presentation received at SA5#20 (06/01) from SA2 on IMS.
SA5 CR to introduce QoS Management into TS 32.101
submitted for approval TSG#12 (SP-010231).
 - ✍ QoS Presentation from SA2 planned during SA5#21 (07/01)

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Inter-Organizational (cont.)

Communication with:

- **T2 on Subscription & User Equipment Management**
 - ✍ Liaison sent to T2 (06/01) proposing work split on UEM.
Awaiting feedback.
- **T2, SA1, WAP Forum on SyncML, "Exploratory LS Concerning Mobile Device Management"**
 - ✍ Liaison sent to WAP Forum & T2 (06/01) proposing T2 take lead on communications with WAP Forum and SyncML.
- **T2 on Multimedia Messaging Service (MMS) charging**

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Inter-Organizational (cont.)

Communication with:

- **CN4 on updating “Subscriber and Equipment trace (GSM 12.08)”**
 - ✍ Nokia agreed to take the lead.
- **CN5 on potential work-overlap on Charging**

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Inter-Organizational (cont.)

- **Co-operation TMF MMC on 3G-mobile management standards work**
 - ✍ The output from TMF's MCCM Catalyst Project has been incorporated in the Configuration Management (CM) specifications Release 4 - with few exceptions covering all functionality and models of MCCM.
 - ✍ TMF's MCCM Catalyst Project has now finished and no further interaction on this subject is planned for the moment, but SA5 will continue to monitor TMF MMC (Mobile Marketing Center) .

Inter-Organizational (cont.)

- **Co-operation with 3GPP2 TSG S WG2 on Management standards work**

- ✍ The agreement with 3GPP2 TSG S WG2 continues, and that group is referencing SA5's specifications in its specification S.S0028 "OAM&P for cdma2000 (3GPP Delta Specification)". This specification also documents some exception areas (e.g. network resource model for cdma2000).

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Inter-Organizational (cont.)

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

 Mainly done within ITU-T (see next slide)

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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)

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Technical, Work Planning

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

Contains Six SA5 Building Blocks (SA#10 approved):

- 1 Principles, high-level requirements and architecture (OAM-AR)
100% for Approval TSG#12, (Rel4, **100%** complete)
- 2 Configuration Management (OAM-CM)
95% for Approval TSG#12, **5%** re-classified Rel5, (Rel4, **100%** complete)
- 3 Fault Management (OAM-FM)
80% for Approval TSG#12, **5%** for TSG#13, **15%** re-classified Rel5
(Rel4, **95%** complete)
- 4 Performance Management (OAM-PM)
50% for Approval TSG#12, **50%** for TSG#13, **10%** re-classified Rel5
(Rel4, **85%** complete)
- 5,6 Charging Management (x2) (OAM-CH Rel4, OAM-CH/IP Rel5)
80% for Information TSG#12, **100%** for Approval TSG#13
(Rel4, **80%** complete)

TSG Approval Targets:

90% of Rel4 – **06/01** (TSG#12)

10% of Rel4 – **09/01** (TSG#13)

Technical, Work Planning (cont.)

Feature: UTRAN Operations and Maintenance procedures (Rel4) (SA#10 approved)

- **Objective:** To capture procedures and guidelines for identifying solutions to manage a multi-vendor UTRAN effectively.
- **100% complete** – TR 32.800 V1.0.0 (Management Level Procedures and Interaction with UTRAN)
- TSG Approval Target: **06/01** (TSG#12)

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Technical, Work Planning (cont.)

Feature: Subscription Management (Rel5) - (SA#10 approved)

- 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. to create, amend and delete subscriber subscription data).
 - Estimated **40% complete**
- Co-ordination ongoing with other working groups on e.g.:
 - VHE Enhancements & User Profile (SA1), HSS Interface (CN4).
Draft 32.140 sent for information to these groups 04/01.
Awaiting feedback from SA1, CN4 since 04/01.
- Completion of requirements planned for **09/01**
- TSG Approval Target: **12/01** (TSG#14)

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Technical, Work Planning (cont.)

New Feature: User Equipment (UE) Management (Rel5)

- (for SA#12 approval – see WID in **SP-010234**)

Background:

- UE Management is a collection of functions and applications, which allow Operators/Service Providers to remotely manage UE.
- The deployment of higher bandwidth GPRS and 3G coincides with emerging, internet driven content provisioning, transport and presentation technologies. Furthermore, the capabilities of UE become more sophisticated and integrated (high-definition colour screen, faster processor, built-in camera, integrated media-player etc.)
- These sophisticated capabilities will require a flexible management infrastructure supporting end-customers, service providers, network operators and manufacturers.
- UE Management could be used by the network operator and manufacturer to extend service and network management, fault isolation and resolution to the remote UE.

TSG Approval Target: **06/02** (TSG#16)

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Technical, Release-99

SA approval is requested for

- 2 CRs to 32.015 (**SP-010235**)
- 6 CRs to 32.106-x (**SP-010284**)
- 1 CRs to 32.111-3 (**SP-010239**)

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Technical, Release 4

SA approval is requested for

- 7 CRs to 32.101 (**SP-010231**)
- 8 CRs to 32.102 (**SP-010232**)
- New TR 32.800 V1.0.0 (Management Level Procedures and Interaction with UTRAN) produced in co-operation with RAN3 (**SP-010233**)

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Technical, Release 4 (cont.)

SA approval is requested for

Configuration Management (CM)

- TS - reorganisation & Addition of new Features (e.g. a new Integration Reference Point (IRP) for the Bulk Configuration Management)
- 31 new specifications TS 32.300- & TS 32.600-series (**SP-010283**)
- **SA is invited to**
 - a) discontinue 32.106-series beyond R99
 - b) withdraw Rel4 32.106 parts 1& 8, automatically produced after SA#11 (Replaced by the new 32.600 and 32.300).
 - c) approve the 31 new v2.0.0 TSs

Technical, Release 4 (cont.)

SA approval is requested for

Performance Management (PM)

- 1 CR to 32.104 (**SP-010237**) - Add new Features and TS – split:

32.104-1 Performance Management Concept and Requirements

32.104-2 Performance Measurements – GSM (“old” 12.04)

32.104-3 Performance Measurements – UMTS and combined UMTS/GSM

SA is invited to

- a) withdraw 32.104 Rel4
 - b) approve Part 3 now at SA#12
 - c) postpone the Approval of Parts 1 and 2 for SA#13
- 32.104-1 V1.0.0 - **for Information**
 - 32.104-2 V1.0.0 - **for Information**
 - 32.104-3 V1.0.2 - **for Approval**

Technical, Release 4 (cont.)

SA approval is requested for

Fault Management (FM)

- 4 CRs to 32.111-1/4 (**SP-010282**)

As SA5 had not reviewed the implementation of the 32.111-4 CR (CMIP Solution Set), in contrast with 32.111-3 (CORBA Solution Set), it is submitted to SA#12 for seek of completion together with the CRs for the other 3 parts, however **for Information** only.

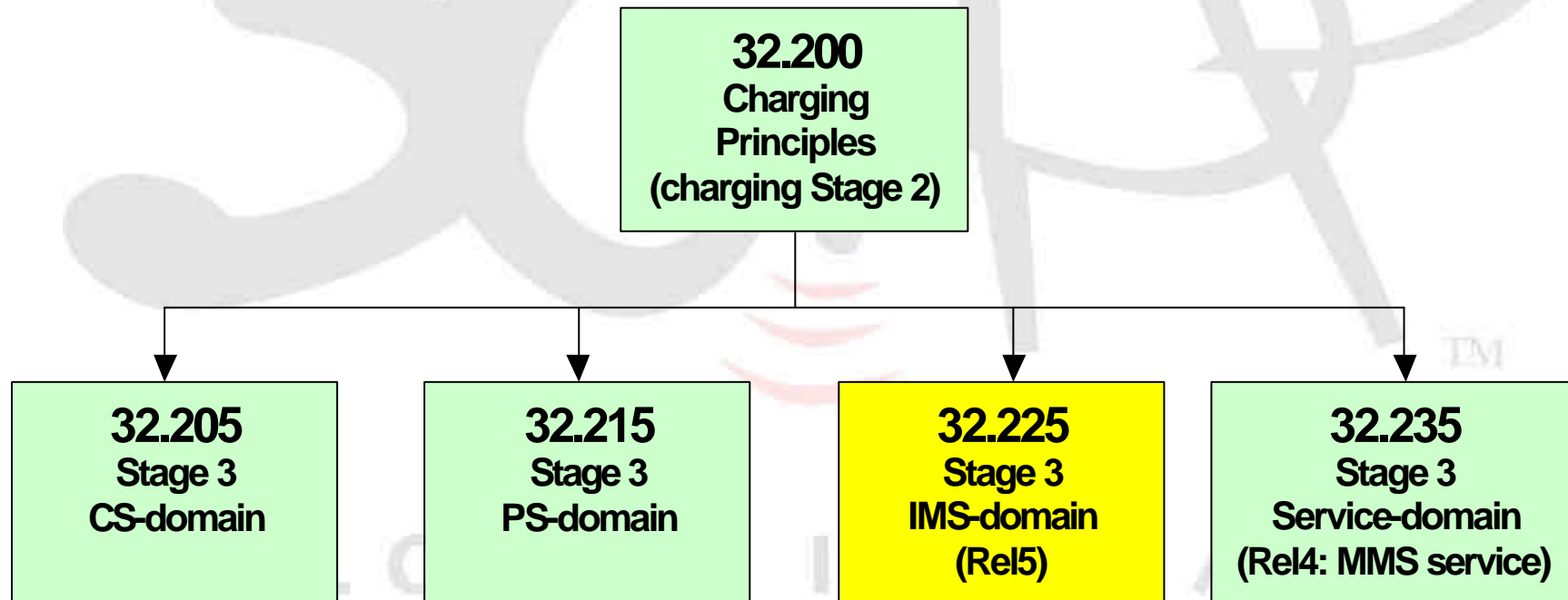
- 2 new specifications on Generic IRP Management
TS 32.112-1/2 (**SP-010285**)

Technical, Release 4 (cont.)

SA is invited to note

Charging & Billing Management (CB)

- 4 new specifications TS 32.200-series (**SP-010286**)
32.200, 32.205, 32.215, 32.235 - **for Information**



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Technical, Release-5

SA approval is requested for

- Feature-level Work Item Description on “User Equipment (UE) Management – UEM (SP-010234)
- Building Block-level Work Item Description on “Performance Management” – OAM-PM (SP-010238)

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Future SA5 Meetings

Meetin	Date	Location	Host
SA5#21	16 – 20 July 2001	Naperville, USA	Lucent
SA5#22	3 – 7 Sep 2001	Paris, France	Alcatel
TSG#13	18 - 27 Sep 2001	Beijing, China	Lucent /CWTS
SA5#23	15 -19 Oct 2001	TBD, Sweden	Telia
SA5#24	26 – 30 Nov 2001	Cancun, Mexico	NA friends
TSG#14	11 - 20 Dec 2001	Kyoto, Japan	ARIB/TTC
SA5#25	14-18 Jan 2002	Sophia Antipolis,	ETSI
SA5#26	25 Feb - 1 Mar 2002	Miami, FL / USA	NA Friends
TSG#15	5 - 14 March 2002	TBD, Korea	TTA
SA5#27	2-5 Apr 2002	Phoenix, AZ, USA	NA Friends
SA5#28	13-17 May 2002	Makuhari, Japan	Fujitsu/ARIB/TTC
TSG#16	4 - 13 June 2002	Rome / Italy (TBC)	Motorola
SA5#29	24-28 Jun 2002	TBD (Europe)	TBD
SA5#30	19-23 Aug 2002	TBD	TBD
TSG#17	3 - 12 September 2002	TBD, France	Alcatel
SA5#31	7-11 Oct 2002	TBD	TBD
SA5#32	18-22 Nov 2002	TBD	TBD
TSG#18	3 - 12 December 2002	TBD, North America	3GPP NA friends