

TSGS#17(02)0444

Meeting #17, Biarritz, France, 9-12 September 2002



TSG-SA WG5 (Telecom Management) Status Report

Reported by

Michael TRUSS
TSG-SA WG5 Chair

Agenda Item: 7.5.3

Document for: Information

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SWG structure



SWG Area of Responsibility

SWGA Telecom Management - Architecture and Requirements

WI(spec): Architecture (32.101), Principles & Requirements (32.102),
Subscription Management (SM) (32.140), User Equipment Management (UEM) (32.802).

Liaison: ITU-T SG4 (Architecture / Conformance), T2 & OMA (UEM),
TMF (MMC, Mobile Management Team, MTEM), CN5 (OSA Management).

SWGB Charging Management

WI(spec): Charging (32.200-series),

Liaison: GSM Association (BARG Charging Principles Working Party, IREG, SERG),
3G.IP (IP/Charging requirements for IMS), T2 (MMS Charging), CN5 (OSA Charging),
IETF-AAA/ 3GPP CN4 (Diameter), IPDR (Charging).

SWGC Telecom Network Infrastructure Management (TM Solutions)

WI(spec): Configuration (32.106/32.600-series), & Fault Management (32.111/32.300-series),
Integration Reference Points (IRPs) to support products of SA5's SWGs.

Liaison: ITU-T SG 4 (CORBA, tML/XML), T1M1 (CORBA, tML), 3GPP2 (Delta Specification).

SWGD Performance Management and Trace Management

WI(spec): Performance Management: measurements, concepts, definition, requirements, PM IRP
(32.400-/52.400-series), Subscriber and UE Tracing (32.400-series, 52.008).

Liaison: ITU-T SG4 (IMT2000 Management), TMF (Wireless Service Measurement Team),
CN1/4, RAN 2/3, GERAN (Trace)

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SA5 #29 *Meetings held*

- 24–28 June 2002 in Beijing/CHINA hosted by Nortel Networks
- Attended by 57 delegates
- Full report in S5-020500

SA5 SWG meetings

- SA5#28 bis (SWGC/D) 20-21 June 2002 in Beijing/CHINA (CMCC) on CMCC's 3G Network Management Interface specification
- SA5#29 bis (SWGB Charging) 14–18 Aug 2002, Tampere (Nokia)
- SA5#29 ter (SWGC NIM,CM/FM) 15–16 Aug 2002, Tampere (Nokia)

SA5 #30

- 19–23 August 2002 in Tampere/FINLAND hosted by Nokia
- Attended by 65 delegates
- Draft report in S5-020507

Joint sessions during SA5#30 in Tampere/FINLAND

- with T2 SWG2 on GUP Mgmt & Data Definition (follow-on 10/02)
- with T2 SWG2 on Subscription Management (follow-on 10/02)
- with T2 SWG2 on User Equipment Management (follow-on 10/02)
- with T2 on MMS Charging

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Inter-Organizational

Co-operation with:

3GPP2 TSG-S on Management standards

- 3GPP2 TSG-S is referencing SA5's TSs in its specification S.S0028 "OAM&P for cdma2000 (3GPP Delta Specification)", which also documents some exception areas (e.g. network resource model for cdma2000)
- Co-located meeting planned (SA5#37, San Francisco, 14–18 Jul 2003)

ITU-T SG4 & T1M1 on CORBA framework and XML/TML standardization

- Further co-operation is under investigation

TMF on 3G-mobile Management standards

- with Wireless Service Measurement Team on PM BB

Open Mobile Alliance (OMA)

- LS sent 08/02 on Rel-6 UEM work (**SP-020428**)

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Subscription Management (SM) - Feature



- **Moved from Rel-5 to Rel-6**
- **SM is linked to GUP Rel-6**
- **New Rapporteur (Nokia) for Rel-6 at SA5#30 (08/02)**
- **WID submitted to SA#17 for Approval**

NOTES:

- **Stage 1 TS 32.140 submitted to SA#15 is 95% complete**
- **Stage 2 and 3 are 10% complete**

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Charging and OAM&P - Feature

- **Rel-5 is 100% completed; approval target 09/02**
- **Rel-6 will be split in two separate Features:
Charging Management (WID to be submitted to SA#18)
and OAM (WID submitted to SA#17 for Approval)**

NOTES:

- **32.225 IMS Charging:**
 - Draft TS v200 submitted for SA#17 Approval
- **32.235 Charging:**
 - Rel-4/5 CRs on MMS Charging submitted for SA#17 Approval
- **32.6/3/1xy-series Network Infrastructure Management:**
 - 18 New draft TSs submitted for SA#17 Approval
 - Some 50 CRs to existing TSs submitted for SA#17 Approval
- **32.401/3 Performance Management**
 - CRs submitted for SA#17 Approval

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User Equipment Management (UEM) - BB



- Rel-5 was completed at SA#16 (TR 32.802: User Equipment Management (UEM) feasibility study) produced in co-operation with T2.
- Rel-6 UEM is no longer a Feature (like it was in Rel-5) but a BB due to much narrower scope and, as a consequence, progress will be reported in the future under the Rel-6 OAM Feature.
- Rel-6 UEM BB-level WID is submitted to SA#17 for Approval.
- Established liaison with OMA (Open Mobile Alliance) for Rel-6 UEM work.



Trace Management - BB

- **Rel-6 Trace Management is no longer a Feature (like it was in Rel-5) but a BB and, as a consequence, progress will be reported in the future under the Rel-6 OAM Feature.**
- **Trace BB-level WID was approved at SA#16 (SP-020332).**

NOTES:

32.421 Trace Concepts and Requirements (85% complete)

- **was submitted to SA#16 (06/02) for Information**
- **to be submitted to SA#18 (12/02) for Approval**

32.422 Trace Control and Configuration Management (45% complete)

- **Detail requirements for CN1/4, GERAN, RAN2/3 – availability target 12/02**

32.423 Trace Data Definition and Management (35% complete)

52.008 GSM Subscriber and Equipment Trace (55% complete)

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Future SA5 Meetings

Meeting	Date	Location	Host
SA5#31	7-11 Oct 2002	Atlanta, GA, USA	NAF
SA5#31bis	13-15 Nov 2002	Vienna, Austria	EF3
SA5#32	18-22 nov. 2002	Vienna, Austria	EF3
TSG#18	3 - 12 Dec 2002	New Orleans, USA	NAF
SA5#33	20-24 Jan 2003	Sophia Antipolis, FRANCE	ETSI
SA5#34	24-28 Feb 2003	TBD, USA	NAF
TSG#19	11 - 21 Mar 2003	Jersey Island, UK	UK Friends
SA5#35	7 - 11 April 2003	Berlin, GERMANY	EF3
SA5#36	19-23 May 2003	Sophia Antipolis, FRANCE	ETSI
TSG#20	10 - 19 Jun 2003	FINLAND	NOKIA
SA5#37	14 – 18 Jul 2003	San Francisco, CA, USA	3GPP2
SA5#38	1-5 Sep or 2003	CHINA (tic) or Europe	CMCC
TSG#21	16 - 25 Sep 2003		
SA5#39	6 - 10 Oct 2003	USA	NAF
SA5#40	17-21 Nov 2003	Europe (not ETSI) or Asia	???
TSG#22	9 - 18 Dec 2003		



Abbreviations commonly used in SA5 A GLOBAL INITIATIVE

BS	Billing System
CDR	Charging Data Record
CM	Configuration Management
CMIP	Common Management Information Protocol
COPS	Common Open Policy Service
CORBA	Common Object Request Broker Architecture
FM	Fault Management
GDMO	Guidelines for the Definition of Managed Objects
IDL	Interface Definition Language
IRP	Integration Reference Point
IS	Information Service
NRM	Network Resource Model
OS	Operations System
OSS	Operations Support System
PDP	Policy Decision Point
PM	Performance Management
SNMP	Simple Network Management Protocol (IETF)
SOM	Service Operations Management
SS	Solution Set
TM	Telecom Management
TMF	TeleManagement Forum
TMN	Telecommunications Management Network (ITU-T)
TOM	Telecom Operations Map (TMF)
UML	Unified Modelling Language

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***Documents and issues for
discussion, information
and approval***

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SA5 Documents provided to this Plenary 1/2

SP-020444	Status report of SA5 to SA #17
SP-020445	Rel-6 OAM Feature-level WID (Operations, Administration, Maintenance & Provisioning - OAM&P) - 32 Series (except Charging)
SP-020446	Rel-6 OAM-AR Building Block-level WID (Principles, high level Requirements and Architecture)
SP-020447	Rel-6 OAM-UEM Building Block-level WID (User Equipment Management)
SP-020448	Rel-6 SM Feature-level WID (Subscription Management)
SP-020449	Rel-5 CR 32101 Introduction of new section "O&M of the UMTS Infrastructure Management"
SP-020450	Rel-5 CRs 32102
SP-020451	Rel-5 CR 32802 Corrections to Abbreviations, Architecture, Proposed plan, Risks and Annex A clauses
SP-020452	Rel-6 OAM-NIM Building Block-level WID (Network Infrastructure Management; 32100-, 300-, 600-Series)
SP-020453	Rel-5 New TS 32225 Charging data description for the IP Multimedia Subsystem (IMS)
SP-020454	Rel-4 CRs 32235-200
SP-020455	Rel-5 CR 32235 Support for Network Persistent Storage in MMS charging
SP-020456	Rel-5 New TS 32321-200 Test Management IRP; Requirements
SP-020457	Rel-5 New TS 32322-200 Test Management IRP IS
SP-020458	Rel-5 New TS 32323-200 Test Management IRP CORBA SS
SP-020459	Rel-5 New TS 32324-200 Test Management IRP CMIP SS
SP-020460	Rel-5 New TS 32625-200 Bulk CM IRP XML file formats for Generic NRM
SP-020461	Rel-5 New TS 32635-200 Bulk CM IRP XML file formats for CN NRM
SP-020462	Rel-5 New TS 32645-200 Bulk CM IRP XML file formats for UTRAN NRM
SP-020463	Rel-5 New TS 32655-200 Bulk CM IRP XML file formats for GERAN NRM
SP-020464	Rel-5 New TS 32661-200 Kernel CM IRP Requirements
SP-020465	Rel-5 New TS 32662-200 Kernel CM IRP IS
SP-020466	Rel-5 New TS 32663-100 Kernel CM IRP CORBA SS
SP-020467	Rel-5 New TS 32664-100 Kernel CM IRP CMIP SS
SP-020468	Rel-5 New TS 32671-200 State Management IRP Requirements
SP-020469	Rel-5 New TS 32672-200 State Management IRP Information Service
SP-020470	Rel-5 New TS 32673-100 State Management IRP CORBA SS
SP-020471	Rel-5 New TS 32674-200 State Management IRP CMIP Solution Set
SP-020472	Rel-5 New TS 32691-100 Inventory Management Network Resources IRP: Requirements
SP-020473	Rel-5 New TS 32692-100 Inventory Management Network Resources IRP: Network Resource Model

SA5 Documents provided to this Plenary 2/2

SP-020474	Rel-4 CR 32111-2 Remove functionality in the Rel-4 Information Service corresponding to Rel-5 Fault Management requirements
SP-020475	Rel-4 CR 32111-3 Correction of CORBA IDL Optional Perceived Severity
SP-020476	Rel-5 CR 32111-3 Addition of "indeterminate" probable cause in IDL definition
SP-020477	Rel-5 CRs 32111-1/2/3
SP-020478	Rel-5 CRs 32111-2/3 upgrade to Rel-5
SP-020479	Rel-5 CRs 32102/ 32303/ 32111-3 Add optional parameters in CORBA SS IDLs
SP-020480	Rel-5 CR 32111-4 Add Alarm Clearance Functionality in the CMIP SS
SP-020481	Rel-5 CR 32300 upgrade to Rel-5
SP-020482	Rel-4/5 CRs 32303
SP-020483	Rel-5 CRs 32600/1/2/3 upgrade to Rel-5
SP-020484	Rel-4 CR 32612 Correction of pre- and post-conditions for the operations getSessionStatus and getSessionLog
SP-020485	Rel-4 CR 32613 Correct Mapping of fallbackEnabled Qualifier
SP-020486	Rel-5 CRs 32611/2/3 upgrade to Rel-5
SP-020487	Rel-5 CR 32621 upgrade to Rel-5
SP-020488	Rel-5 CR 32622/3/4 upgrade to Rel-5
SP-020489	Rel-5 CRs 32632/3 upgrade to Rel-5
SP-020490	Rel-4 CR 32642 UML corrections
SP-020491	Rel-5 CR 32641 upgrade to Rel-5
SP-020492	Rel-5 CRs 32642
SP-020493	Rel-5 CR 32643 upgrade to Rel-5
SP-020494	Rel-4 CR 32652 UML corrections
SP-020495	Rel-5 CR 32651 upgrade to Rel-5
SP-020496	Rel-5 CRs 32652
SP-020497	Rel-5 CR 32653 upgrade to Rel-5
SP-020499	Rel-6 OAM-PM Building Block-level WID (Performance Management; 32401, 32403, 32411, 32412, 32413)
SP-020500	Rel-6 New TS 32411-100 PM IRP Requirements
SP-020501	Rel-4 CR 32401 Alignment with CM TSs of measurement file parameter descriptions and examples
SP-020502	Rel-5 CRs 32401
SP-020503	Rel-5 CRs 32403



SA approval is requested for

SP-020445 Rel-6 OAM Feature-level WID (Operations, Administration, Maintenance & Provisioning)

The OAM Feature includes five (5) Building Blocks:

SP-020446 OAM-AR (Principles, high level Requirements & Architecture)

SP-020447 OAM-UEM (User Equipment Management)

SP-020452 OAM-NIM (Network Infrastructure Management)

SP-020499 OAM-PM (Performance Management)

SP-020332 OAM-Trace Mg (Trace Management) was approved at SA#16

SP-020448 Rel-6 SM Feature-level WID (Subscription Management)

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BB: Principles, high level Requirements and Architecture (OAM-AR)

SA approval is requested for

SP-020449 Rel-5 CR 32101

SP-020450 Rel-5 CRs 32102

SP-020451 Rel-5 CRs 32802

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**BB: Network Infrastructure Management
(OAM-NIM)**



SA approval is requested for

SP-020456 Rel-5 TS 32321-200 Test Management IRP; Requirements

SP-020457 Rel-5 TS 32322-200 Test Management IRP IS

SP-020458 Rel-5 TS 32323-200 Test Management IRP CORBA SS

SP-020459 Rel-5 TS 32324-200 Test Management IRP CMIP SS

SP-020460 Rel-5 TS 32625-200 Bulk CM IRP XML for Generic NRM

SP-020461 Rel-5 TS 32635-200 Bulk CM IRP XML for CN NRM

SP-020462 Rel-5 TS 32645-200 Bulk CM IRP XML for UTRAN NRM

SP-020463 Rel-5 TS 32655-200 Bulk CM IRP XML for GERAN NRM

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**BB: Network Infrastructure Management
(OAM-NIM)**



SA approval is requested for

- SP-020464** Rel-5 TS 32661-200 Kernel CM IRP Requirements
- SP-020465** Rel-5 TS 32662-200 Kernel CM IRP IS
- SP-020466** Rel-5 TS 32663-100 Kernel CM IRP CORBA SS
- SP-020467** Rel-5 TS 32664-100 Kernel CM IRP CMIP SS (for Information-ONLY)

- SP-020468** Rel-5 TS 32671-200 State Management IRP Requirements
- SP-020469** Rel-5 TS 32672-200 State Management IRP IS
- SP-020470** Rel-5 TS 32673-100 State Management IRP CORBA SS
- SP-020471** Rel-5 TS 32674-200 State Management IRP CMIP SS

- SP-020472** Rel-5 TS 32691-100 Inventory Management Network Resources
IRP: Requirements
- SP-020473** Rel-5 TS 32692-100 Inventory Management Network Resources
IRP: Network Resource Model

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**BB: Network Infrastructure Management
(OAM-NIM)**



SA approval is requested for

SP-020474 Rel-4 CR 32111-2

SP-020475 Rel-4 CR 32111-3

SP-020476 Rel-5 CR 32111-3

SP-020477 Rel-5 CRs 32111-1/2/3

SP-020478 Rel-5 CRs 32111-2/3 upgrade to Rel-5

SP-020479 Rel-5 CRs 32102/ 32303/ 32111-3

SP-020480 Rel-5 CR 32111-4

SP-020481 Rel-5 CR 32300 upgrade to Rel-5

SP-020482 Rel-4/5 CRs 32303

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**BB: Network Infrastructure Management
(OAM-NIM)**



SA approval is requested for

- SP-020483** Rel-5 CRs 32600/1/2/3 upgrade to Rel-5
- SP-020484** Rel-4 CR 32612
- SP-020485** Rel-4 CR 32613
- SP-020486** Rel-5 CRs 32611/2/3 upgrade to Rel-5
- SP-020487** Rel-5 CR 32621 upgrade to Rel-5
- SP-020488** Rel-5 CR 32622/3/4 upgrade to Rel-5
- SP-020489** Rel-5 CRs 32632/3 upgrade to Rel-5
- SP-020490** Rel-4 CR 32642 UML corrections
- SP-020491** Rel-5 CR 32641 upgrade to Rel-5
- SP-020492** Rel-5 CRs 32642
- SP-020493** Rel-5 CR 32643 upgrade to Rel-5
- SP-020494** Rel-4 CR 32652 UML corrections
- SP-020495** Rel-5 CR 32651 upgrade to Rel-5
- SP-020496** Rel-5 CRs 32652
- SP-020497** Rel-5 CR 32653 upgrade to Rel-5

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BB: Performance Management (OAM-PM)

SA approval is requested for

SP-020501 Rel-4 CR 32401

SP-020502 Rel-5 CRs 32401

SP-020503 Rel-5 CRs 32403

SA is invited to note

SP-020500 Rel-6 New TS 32411-100 PM IRP Requirements

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BB: Charging Management (OAM-CH)

- Rel-5 was just finalized with huge effort and good spirit of compromise in **08/02**
- Rel-5 is **100%** complete; approval target **09/02**
- Rel-6 Feature-level WID to be submitted to SA#18 (**12/02**)

SA approval is requested for

SP-020453

Rel-5 New TS 32225-200 Charging data description for IMS

SP-020454

Rel-4 CRs 32235

SP-020455

Rel-5 CR 32235

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The End

See you next time !

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