TSG-SA WG5 (Telecom Management) Status Report

Reported by

Michael TRUSS
TSG-SA WG5 Chair

Agenda Item: **7.5.1**
Document for: **Information**
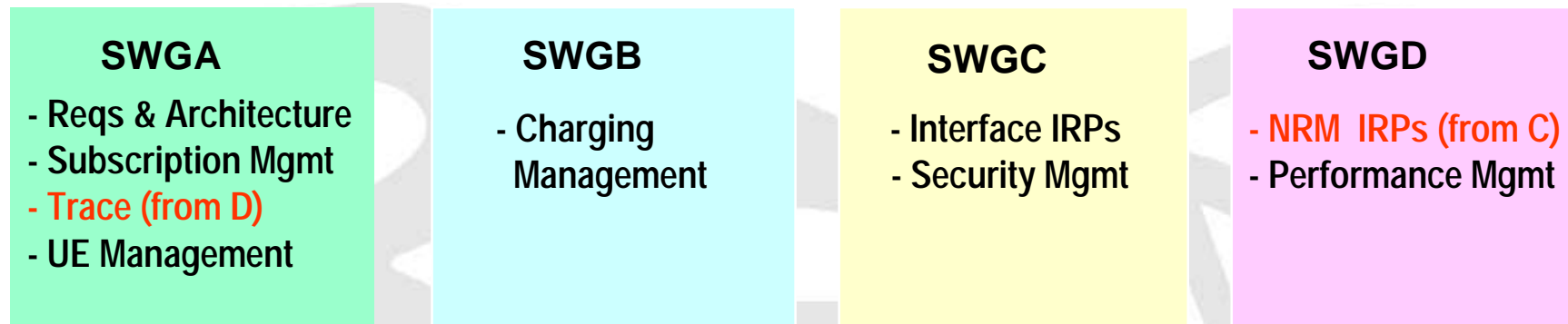
3GPP SA5 Officers

OAM&P (Operations, Administration, Maintenance & Provisioning)

- **Chair**

  Michael TRUSS (Motorola Ltd/ ETSI) – elected 04/2002

- **Vice Chair**

  **Dr Li Yewen (China Mobile/CCSA) – elected 07/2003
  (at SA5#34bis, Cork on the River Lee, IRELAND)**

  Christian TOCHE (Nortel Networks/ ETSI) – elected 04/2002

- **MCC Support: Adrian ZOICAS (MCC) – since 01/2000**

SA5's Sub-WG Re-Structuring 3GPP

A GLOBAL INITIATIVE

SWGA	SWGB	SWGC	SWGD
- Reqs & Architecture - Subscription Mgmt - Trace (from D) - UE Management	- Charging Management	- Interface IRPs - Security Mgmt	- NRM IRPs (from C) - Performance Mgmt

❑ **New Structure Effective from end of SA5#35 (5 Sep 2003).**

❑ **Balances work load more effectively between SWGs A,C& D.**

❑ **SWG A,C&D Leadership Nominations invited at SA5#35bis (6-10 Oct 2003).**

Notes:

1. *Red Text highlights moved work items.*

2. *The SWGB Structure is un-changed, SWGB Leadership Nominations and appointments occurred at SA5#34 (May 2003) when Karl-Heinz NENNER (T-Mobile), the existent SWGB chair, was unanimously reconfirmed by the group.*

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SA5's Sub-WG structure (1/4)

SWGA Telecom Management Architecture, Requirements & Trace
- **Michael TRUSS (Motorola) – stepped-down 09/03 – Chair**
- **Tommy BERGGREN (TeliaSonera)   – Vice Chair**

RG OAM-AR: Tommy BERGGREN (TeliaSonera)   – Rapporteur
- **Architecture (32.101), Principles & Requirements (32.102)**

RG OAM-SM: Istvan ABA (T-Mobile Austria)   – Rapporteur
- **Subscription Management (SM) (32.140/1, 32.17x)**

RG OAM-Trace: Kari RÖNKÄ (Nokia)   - Rapporteur
- **Subscriber & Equipment Trace (32.42x/52.008) - moved from SWGD**

RG OAM-UEM: – No Rapporteur - Work stopped
- **User Equipment Management (UEM) (32.802)**

Liaison: ITU-T SG4 (Architecture / Conformance),
OMA & T2 (UEM), CN5 (OSA Management),
T2 & CN4 (GUP/Subscription Management),
TMF (MMC, Mobile Management Team, MTEM).

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SA5's Sub-WG structure (2/4) 3GPP

SWGB Charging Management - (32.2xy, 32.005/015)
Issue solved: Human Resources shortage reported at SA#20

- **Karl-Heinz NENNER (T-Mobile)** – Chair

RG CH-BC: Benni ALEXANDER (Nokia)   – Rapporteur
- Charging Management for Bearer level

RG CH-IC: Patrik TEPPO (Ericsson)   – New Rapporteur
- Charging Management for the IMS

RG CH-SC: Gerald GÖRMER (Siemens)   – Rapporteur
- Charging Management for the Service domain

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

SA5's Sub-WG structure (3/4)

SWGC Interface IRPs and Security Management

(NRM IRPs moved to SWGD)

- **Thomas TOVINGER (Ericsson)**   **– Chair**
- **Joerg SCHMIDT (Motorola)**   **– Vice Chair**
- **Frédéric BONNEAU (Nortel Networks)**   **– Vice Chair**

Liaison: **ITU-T SG 4 (CORBA, tML/XML)**

                   T1M1 (CORBA, tML)

                   3GPP2 (Delta Specification to 3GPP SA5 OAM&P TSs)

SA5's Sub-WG structure (4/4)

SWGD Performance Management

(Trace Management moved to SWGA)
(NRM IRPs moved from SWGC to SWGD)

- Christian TOCHE (Nortel Networks) – Chair
- Ulf HUBINETTE (Ericsson)   – Vice Chair
- Kari RÖNKÄ (Nokia)   – Vice Chair (moved to SWGA with the Trace work)

RG OAM-PM: Ulf HUBINETTE (Ericsson)   – Rapporteur
- Performance Management: measurements, concepts, definition, requirements, PM IRP (32.40x, 32.41x, 12.04, 32.104, 52.402)

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

Meetings held

SA5#34-Ter SWGD & SWGB

– **Cork, IRELAND, 10-11 July 2003,**

– **hosted by Motorola Ltd. & the University College Cork (UCC)**

SA5 #34bis

– **Cork, IRELAND, 14-18 July 2003, hosted by Motorola Ltd.**

– **Attended by 57 delegates**

– **Report in S5-030500**

SA5#35-SWGB   **27 Aug - 5 Sep 2003 , hosted by ETSI**

SA5#35-SWGD   **28 Aug - 5 Sep 2003, hosted by ETSI**

SA5#35-SWGC   **1 - 10 Sep 2003, hosted by ETSI**

SA5 #35

– **Sophia Antipolis, FRANCE, 1- 5 Sep 2003, hosted by ETSI**

– **Attended by 49 delegates**

– **Draft report in S5-030520**

Inter-Organizational
Co-operation with:

3GPP2 TSG-S on Management standards

- 3GPP2 TSG-S is referencing SA5's TSs in its specification S.S0028-B "OAM&P for cdma2000 (3GPP2 R5 Delta Specification)", which also documents some exception areas as well as providing specifications for cdma2000 Network Resource Models.

- Co-operation on XML Reconciliation and Rel-6 Delta Specification is progressing.

- SA5 planning for co-location with 3GPP2 TSG-S for SA5#36bis (January 2004)

Inter-Organizational
Co-operation with:

ITU-T SG4 & T1M1 on CORBA framework, IS Methodology and XML/tML standardization

- **Discussions in progress on IS Template & UML Repertoire:**
  - **ITU-T SG4 are using 3GPP 32.102 material in M.3020 status document.**
  - **SA5 has responded to ITU-T SG4 from SA5#35 (09/2003) answering specific questions and inviting further co-operation.**

TMF on 3G-mobile Management standards

- **ongoing with Wireless Service Measurement Team on BB OAM-PM.**

Open Mobile Alliance (OMA)

- **with OMA Requirements Group on UEM Requirements.**

Overview of SA5's Rel-6 Work Items

Feature: SM Subscription
(SP-020448)

Feature: OAM&P Operations, Administration, Maintenance & Provisioning
(SP-020445)

BB: OAM-AR Principles, high level Requirements and Architecture (SP-020446)

BB: OAM-Trace Trace (SP-020332) **Management**

BB: OAM-NIM Network (SP-020754) **Infrastructure Management**

BB: OAM-UEM User (SP-020608) **Equipment Management**

BB: OAM-PM Performance Management (SP-020499)

Feature: CH Charging Management
(SP-030047)

BB: CH-BC Charging Management for Bearer Level (SP-030048)

BB: CH-IC Charging Management for IMS (SP-030049)

BB: CH-SC Charging Management for Service domain (SP-030050)

Status of Rel-6 Feature: Subscription Management

SA5 Rel-6 Feature: Subscription Management (SM) – progress to **60%**

- **TSG Approval target remains 03/2004.**
- **Work done against WID in SP-020448 - SA#17 approved (09/02)**

Work ongoing:

- **32.140/1, Use Cases, Investigate CN4's Rel-5 23.008 and SA5's R96 12.02, Interface IRP, IRP Network Resource Model, Investigate GUP re-use as SM solution set.**

Specification status:

- **32.140 SM Requirements - SA#19 Approved**
- **32.141 SM Architecture - SA#21 submittal for Approval (SP-030405)**

Approval target 03/2004 for:

- **32.171 Service Operations Management (SOM): SM Resources IRP: Requirements**
- **32.172 SOM; SM Resources IRP: Network Resource Model**
- **32.173 Protocols (IRP Solution Set)**

Status of Rel-6 Feature OAM&P (1/6): OAM

SA5 Rel-6 Feature: OAM&P - progress to 50%

- Work done against WID SP-020445 - SA#17 approved (09/02)
- TSG Approval target remains: 03/2004.

Title of Feature/Building Block/	SA#21
Feature: OAM&P	50%
BB: Principles, high level Requirements and Architecture	50%
BB: Network Infrastructure Management	40 %
BB: Performance Management	50%
BB: Trace Management	60%
BB: User Equipment Management	12%

- See BB status on the next slides

Status of Rel-6 Feature OAM&P (2/6): OAM-AR

SA5 Rel-6 BB: Principles, high level Requirements and Architecture

– progress to 50%

- **Work done against WID SP-020446 - SA#17 approved (09/02).**
- **TSG Approval target remains: 03/2004.**

- **Work on-going: Subscription Management updates, Management of Service Specific Entities, Impact of Emergency Call Enhancements, Traffic Congestion Controls, Impact of Network Sharing, Impact of WLAN Inter-working**

- **Further updates based on IETF under investigation.**

Status of Rel-6 Feature OAM&P (3/6): OAM-NIM

SA5 Rel-6 BB: Network Infrastructure Management - progress to 40%

- **Work done against WID SP-020754 - SA#18 approved (12/02).**
- **TSG Approval target remains: 03/2004.**

- **8 New TSs for SA information:**
  - **32.350** Communication Surveillance Requirements,
  - **32.361/2/3** Entry Point IRP: Requirements/ Information service/ CORBA solution set,
  - **32.681** Inventory Management Requirements,
  - **32.695** Inventory Management Network Resources IRP: XML File Format Definition,
  - **32.711/2** Transport Network NRM IRP: Requirements/ Network Resource Model.
- **Work on-going: Security Management, Communication Surveillance, Entry Point, Alignment of China Mobile/SA5 CM/FM framework & NRMs, Generic File Transfer IRP, Log Management IRP, Inventory Management, ATM-UTRAN Interface Management, UTRAN NRM Enhancements for TDD and FDD modes.**

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Status of Rel-6 Feature OAM&P (4/6): OAM-PM

SA5 Rel-6 BB: Performance Management (PM) – progress to 50%

- **Work done against WID SP-020499 - SA#17 approved (09/02).**
- **TSG Approval target remains: 03/2004.**

- **Work on-going:**
  - IRP Information Service/solution sets,
  - File Format enhancements,
  - Measurement Job Administration,
  - Performance Threshold Management ,
  - Performance Measurement definitions.

Status of Rel-6 Feature OAM&P (5/6): OAM-Trace

SA5 Rel-6 BB: Trace Management (impacts other TSGs: RAN3, CN1/4)
– progress in SA5 to 60% (3GPP overall 30%)

- Work done against WID SP-020332 - SA#16 approved (06/02).

- TSG Approval target remains: 03/2004.

- SA5 Work on-going: Concepts and requirements, Control and configuration management, Data definition and management , Impacts on Network Signalling Interfaces, GSM Trace.

- Feedback expected on new work to be done by CN1/4.

- Monitoring RAN3 work task progress:
  RAN3 WT Subscriber and Equipment Trace support in UTRAN
  - progress to 15% (completion 9/03=>3/04)

  - WI started at RAN #20;
  - RAN3 internal TR started with some requirements and 2 identified high-level solutions for Management activation

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Status of Rel-6 Feature OAM&P (6/6): OAM-UEM

SA5 Rel-6 BB: User Equipment Management

– 3GPP (SA5/3) stagnation since two SA plenaries at 12%

- Good progress: OMA Device Management.

- SA5 work stopped.

- No feedback from other 3GPP WGs.

- Revised WID prepared but again not submitted to SA.

- No Rapporteur.

Status of Rel-6 Feature: Charging Management: CH 3GPP

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SA5 Rel-6 Feature Charging Management (CH)

- progress in SA5 to **55%**

- **Work done against WIDs SP-030047/48/49/50 - SA#19 approved (03/2003).**
- **TSG Approval target remains: 03/2004.**

New TR 32.815 On-line Charging System architecture study – for SA approval
(Started spin-off work TS 32.296 OCS: Applications and interfaces)

4 New TSs for SA information:

32.271	**Location Service (LCS) charging**
32.270	**Multimedia Messaging Service (MMS) charging**
32.298	**Charging Data Record (CDR) parameter description**
32.251	**Packet Switched (PS) domain charging**

- **Problem of human resources now solved. Work progress improved with new delegates.**
- **The discussion on potential reorganisation of the charging work in 3GPP has resulted in an agreement that no changes should be pursued within Rel-6.**
- **For post-Rel-6, no consensus was reached if and how any of the various options considered should be implemented.**

IP Flow Based Bearer Charging Evolution (SA2)

- **SA2 TR 23.825 for SA#21 information & target for Approval SA#22 (12/03).**

Future SA5 Meetings

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPSA#21	OR	22 - 25 Sep 2003	Frankfurt	DE
3GPPSA5#35-bis	WG	6 - 10 Oct 2003	New Orleans	US
3GPPSA5#36	WG	17 - 21 Nov 2003	Shanghai	CN
3GPPSA#22	OR	15 - 18 Dec 2003	Hawaii	US
3GPPSA5#36-Bis	WG	12 - 16 Jan 2004	Portland	US
3GPPSA5#37	WG	23 - 27 Feb 2004	TBD (EF3)	Europe
3GPPSA#23	OR	15 - 17 Mar 2004	US	US
3GPPSA5#37-Bis	WG	29 Mar - 2 Apr 2004	Sophia Antipolis	FR
3GPPSA5#38	WG	10 - 14 May 2004	Beijing	CN
3GPPSA#24	OR	7 - 9 Jun 2004	KOREA	KR
3GPPSA5#38-bis	WG	28 Jun - 2 Jul 2004	Sophia Antipolis	FR
3GPPSA5#39	WG	16 - 20 Aug 2004	TBD (NAF/SA2 ?)	US
3GPPSA#25	OR	13 - 15 Sep 2004	US	US
3GPPSA5#39-Bis	WG	4 - 8 Oct 2004	Sophia Antipolis	FR
3GPPSA5#40	WG	15 - 19 Nov 2004	TBD (EF3)	Europe
3GPPSA#26	OR	13 - 15 Dec 2004	Athens	GR

Abstract

Abbreviations commonly used in SA5

AVP	Attribute Value Pair
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

IMS	IP Multimedia Subsystem	IOC	Information Object Class
IRP	Integration Reference Point	IS	Information Service
ITF-N	Interface-N (Network-NM Interface)	MOC	Managed Object Class

NRM	Network Resource Model
OAM&P	Operations, Administration, Maintenance & Provisioning
O(S)S	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	XML	Extensible Mark-up Language

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Documents and issues for discussion, information and approval

SA5 Documents provided to this Plenary

SP-030400	Status report of SA5 to SA #21		
SP-030401	Rel-5 CR 32.101	SP-030417	2 Rel-4/5 CR 32.624
SP-030402	2 Rel-4/5 CR 32.102	SP-030418	6 Rel-5 CR 32.652/3/4/5, 32.615/645
SP-030403	Rel-6 CR 32.102	SP-030419	2 Rel-4/5 CR 32.632
SP-030404	Rel-6 CR 32.140	SP-030420	Rel-5 CR 32.644
SP-030405	New Rel-6 TS 32.141 - for Approval	SP-030421	Rel-5 CR 32.674
SP-030406	3 Rel-4/5 CR 32.200	SP-030422	New Rel-6 TS 32.350 - for Information
SP-030407	3 Rel-4 CR 32.205/215	SP-030423	New Rel-6 TS 32.361 - for Information
SP-030408	Rel-5 CR 32.235	SP-030424	New Rel-6 TS 32.362 - for Information
SP-030409	New Rel-6 TR 32.815 - for Approval	SP-030425	New Rel-6 TS 32.363 - for Information
SP-030410	New Rel-6 TS 32.251 - for Information	SP-030426	New Rel-6 TS 32.681 - for Information
SP-030411	New Rel-6 TS 32.271 - for Information	SP-030427	New Rel-6 TS 32.695 - for Information
SP-030412	New Rel-6 TS 32.270 - for Information	SP-030428	New Rel-6 TS 32.711 - for Information
SP-030413	New Rel-6 TS 32.298 - for Information	SP-030429	New Rel-6 TS 32.712 - for Information
SP-030414	Rel-5 CR 32.615	SP-030430	3 Rel-6 CR 32.401
SP-030415	Rel-4 CR 32.303	SP-030431	6 Rel-4/5/6 CR 32.403
SP-030416	2 Rel-4/5 CR 32.111-4	SP-030432	Rel-6 CR 32.411

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

SA approval is requested for

SP-030401   Rel-5 CR 32.101

SP-030402   2 Rel-4/5 CR 32.102

SP-030403   Rel-6 CR 32.102

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030401	32.101	023	-	Rel-5	Removal/Replacement of the term UMTS - Alignment with SA1/2 specifications	F	5.4.0	S5-032522	OAM-AR
SP-030402	32.102	028	-	Rel-4	Correction of subclause X.2.1 in Annex C	F	4.3.0	S5-036611	OAM-AR
SP-030402	32.102	029	-	Rel-5	Correction of subclause X.2.1 in Annex C	A	5.3.0	S5-036613	OAM-AR
SP-030403	32.102	030	-	Rel-6	Expansion to UML repertoire to support more concise modelling of stage 2 specifications	C	5.3.0	S5-036798	OAM-AR

Feature: Subscription Management (SM)

SA approval is requested for

SP-030404   **Rel-6 CR 32.140**

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030404	32.140	001	-	Rel-6	Correction to figure 3 (Architecture for management of Subscription Profile components)	F	6.0.0	S5-032527	SM

SP-030405   **New Rel-6 TS 32.141 - for Approval**

SP-030405	New Rel-6 TS 32.141 (Services operations management; Subscription management architecture) - **for Approval**

Feature: Charging Management (CH) 1/3

SA approval is requested for

SP-030406   3 Rel-4/5 CR 32.200

SP-030407   3 Rel-4 CR 32.205/215

SP-030408   Rel-5 CR 32.235

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030406	32.200	024	-	Rel-4	Stage 2/3 alignment of Location charging principles	F	4.4.0	S5-034436	OAM-CH
SP-030406	32.200	025	-	Rel-5	Stage 2/3 alignment of Location charging principles	A	5.4.0	S5-034437	OAM-CH
SP-030406	32.200	026	-	Rel-5	Corrections on service key related procedures - Alignment with CAMEL	F	5.4.0	S5-034555	OAM-CH
SP-030407	32.205	019	-	Rel-4	Correction to positioning data in ASN.1.	F	4.4.0	S5-034440	OAM-CH
SP-030407	32.205	020	-	Rel-4	Correction of ASN.1 code errors in LCS definitions	F	4.4.0	S5-034441	OAM-CH
SP-030407	32.215	027	-	Rel-4	Corrections of ASN.1 syntax	F	4.4.0	S5-034442	OAM-CH
SP-030408	32.235	017	-	Rel-5	Correction of content adaptation indication in the MMS Retrieval CDR - Alignement with T2's 23.140	F	5.3.0	S5-034556	OAM-CH

Feature: Charging Management (CH) 2/3

SA approval is requested for

SP-030409   **New Rel-6 TR 32.815 - for Approval**

SP-030409	New Rel-6 TR 32.815 (Charging management; On-line Charging System (OCS) architecture study) **- for Approval**

SA is invited to note in SP-030409 the spin-off activity

S5-034547	Work Item Description on WT: New Rel-6 TS 32.296 on Online Charging System

Feature: Charging Management (CH) 3/3

SA is invited to note

SP-030410   **New Rel-6 TS 32.251 - for Information**

SP-030411   **New Rel-6 TS 32.271 - for Information**

SP-030412   **New Rel-6 TS 32.270 - for Information**

SP-030413   **New Rel-6 TS 32.298 - for Information**

SP-030410	Rel-6 TS 32.251 Telecommunication Management; Charging Management; Packet Switched (PS) domain charging
SP-030411	Rel-6 TS 32.271 Telecommunication Management; Charging Management; Location Service (LCS) charging
SP-030412	Rel-6 TS 32.270 Telecommunication Management; Charging Management; Multimedia Messaging Service (MMS) charging
SP-030413	Rel-6 TS 32.298 Telecommunication Management; Charging Management; Charging Data Record (CDR) parameter description

BB: Network Infrastructure Management (OAM-NIM) 1/4

SA approval is requested for

SP-030414 Rel-5 CR 32.615

SP-030415 Rel-4 CR 32.303

SP-030416 2 Rel-4/5 CR 32.111-4

SP-030417 2 Rel-4/5 CR 32.624

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030414	32.615	009	-	Rel-5	Add missing Activities to Session Log XML	F	5.1.0	S5-036797	OAM-NIM
SP-030415	32.303	011	-	Rel-4	Incorporation of version handling, adopting release 5 agreements	F	4.4.0	S5-036801	OAM-CM
SP-030416	32.111-4	021	-	Rel-4	Correction of syntax error in type SetComment	F	4.5.0	S5-036800	OAM-CM
SP-030416	32.111-4	022	-	Rel-5	Correction of syntax error in type SetCommentInfo	A	5.5.0	S5-036799	OAM-CM
SP-030417	32.624	010	-	Rel-4	Rel-4/5 alignement of OIDs of some attributes and name bindings	F	4.4.0	S5-036776	OAM-CM
SP-030417	32.624	011	-	Rel-5	Rel-4/5 alignement of OIDs of some attributes and name bindings	F	5.0.0	S5-036777	OAM-CM

SA approval is requested for

SP-030418 6 Rel-5 CR 32.652/3/4/5, 32.615/645

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030418	32.652	015	-	Rel-5	Inclusion of External BSS Function in GERAN NRM - Alignment with 32.632	F	5.1.0	S5-037029	OAM-NIM
SP-030418	32.653	006	-	Rel-5	Inclusion of External BSS Function in GERAN CORBA solution set - Alignment with 32.652	F	5.1.0	S5-037030	OAM-NIM
SP-030418	32.654	007	-	Rel-5	Inclusion of ExternalBssFunction - Alignment with 32.652	F	5.1.0	S5-037032	OAM-NIM
SP-030418	32.655	004	-	Rel-5	Inclusion of External BSS Function in GERAN XML Schema - Alignment with 32.652	F	5.1.0	S5-037031	OAM-NIM
SP-030418	32.615	010	-	Rel-5	Inclusion of External BSS Function in GERAN XML Schema - Alignment with 32.652/655	F	5.1.0	S5-036947	OAM-NIM
SP-030418	32.645	005	-	Rel-5	Inclusion of External BSS Function in GERAN XML Schema – impacts on 32.645 (UTRAN XML Schema) - Alignment with 32.652/655	F	5.1.0	S5-036946	OAM-NIM

BB: Network Infrastructure Management (OAM-NIM) 3/4

SA approval is requested for

SP-030419   2 Rel-4/5 CR 32.632

SP-030420   Rel-5 CR 32.644

SP-030421   Rel-5 CR 32.674

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Versi	Doc-2nd-Le	Workitem
SP-030419	32.632	008	-	Rel-4	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	F	4.3.0	S5-036954	OAM-CM
SP-030419	32.632	009	-	Rel-5	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	A	5.3.0	S5-037025	OAM-CM
SP-030420	32.644	004	-	Rel-5	Correction of wrong attribute name	F	5.1.0	S5-037027	OAM-NIM
SP-030421	32.674	001	-	Rel-5	Addition of the missing OID for ts32-674Package	F	5.0.0	S5-037028	OAM-NIM

BB: Network Infrastructure Management (OAM-NIM) 4/4

SA is invited to note

SP-030422	New Rel-6 TS 32.350 - for Information
SP-030423	New Rel-6 TS 32.361 - for Information
SP-030424	New Rel-6 TS 32.362 - for Information
SP-030425	New Rel-6 TS 32.363 - for Information
SP-030426	New Rel-6 TS 32.681 - for Information
SP-030427	New Rel-6 TS 32.695 - for Information
SP-030428	New Rel-6 TS 32.711 - for Information
SP-030429	New Rel-6 TS 32.712 - for Information

SP-030422	New Rel-6 TS 32.350 (Communication Surveillance (CS) requirements) - **for Information**
SP-030423	New Rel-6 TS 32.361 (Entry Point (EP) Integration Reference Point (IRP): Requirements) - **for Information**
SP-030424	New Rel-6 TS 32.362 (Entry Point (EP) Integration Reference Point (IRP): Information service) - **for Information**
SP-030425	New Rel-6 TS 32.363 (Entry Point (EP) Integration Reference Point (IRP): CORBA solution set) - **for Information**
SP-030426	New Rel-6 TS 32.681 (Inventory Management (IM) Integration Reference Point (IRP): Requirements) - **for Information**
SP-030427	New Rel-6 TS 32.695 (Inventory Management (IM) network resources Integration Reference Point (IRP): XML file format definition) - **for Information**
SP-030428	New Rel-6 TS 32.711 (Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements) - **for Information**
SP-030429	New Rel-6 TS 32.712 (Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Information service) - **for Information**

BB: Performance Management (OAM-PM)

SA approval is requested for

SP-030430   3 Rel-6 CR 32.401
SP-030431   6 Rel-4/5/6 CR 32.403
SP-030432   Rel-6 CR 32.411

c-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-2nd-Le	Workitem
SP-030430	32.401	009	-	Rel-6	Addition of "jobId" and "reportingPeriod" parameters in the file format definition	C	5.2.0	S5-038548	OAM-PM
SP-030430	32.401	010	-	Rel-6	Removal of measurement job state and status attributes	C	5.2.0	S5-038549	OAM-PM
SP-030430	32.401	011	-	Rel-6	Refinement of the conditions for setting "suspect flag"	C	5.2.0	S5-038551	OAM-PM
SP-030431	32.403	018	-	Rel-4	Correction of collection method for SGSN measurements	F	4.4.0	S5-038552	OAM-PM
SP-030431	32.403	019	-	Rel-5	Correction of collection method for SGSN measurements	A	5.3.0	S5-038553	OAM-PM
SP-030431	32.403	020	-	Rel-6	Correction of collection method for SGSN measurements	A	6.0.0	S5-038554	OAM-PM
SP-030431	32.403	021	-	Rel-4	Correction of "outgoing intra-cell hard handovers measurements"	F	4.4.0	S5-038556	OAM-PM
SP-030431	32.403	022	-	Rel-5	Correction of "outgoing intra-cell hard handovers measurements"	A	5.3.0	S5-038557	OAM-PM
SP-030431	32.403	023	-	Rel-6	Correction of "outgoing intra-cell hard handovers measurements"	A	6.0.0	S5-038558	OAM-PM
SP-030432	32.411	001	-	Rel-6	Expansion of the requirements for threshold alarms on bounded variables	C	6.0.0	S5-038550	OAM-PM

The End

See you next time !