

TSGS#22(03)0610

Meeting #22 Maui, Hawaii, USA, 15 - 18 December 2003



TSG-SA WG5 (Telecom Management) Status Report

Reported by

Michael TRUSS
TSG-SA WG5 Chair

Agenda Item: 7.5.1

Document for: Information

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3GPP SA5 Officers

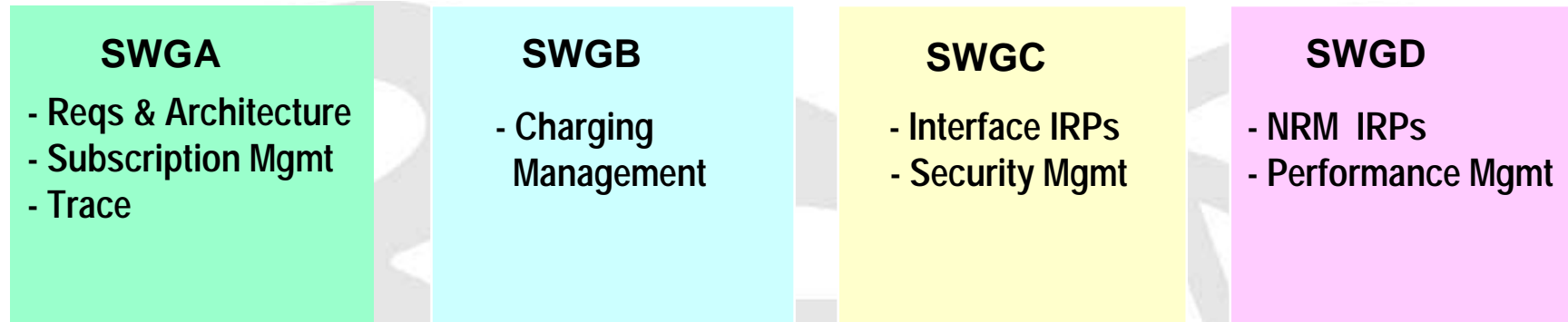


OAM&P (Operations, Administration, Maintenance & Provisioning)

- **Chair**
Michael TRUSS (Motorola Ltd/ ETSI) – elected 04/2002
- **Vice Chair**
Dr Li Yewen (China Mobile/CCSA) – elected 07/2003
Christian TOCHE (Nortel Networks/ ETSI) – elected 04/2002
- **MCC Support: Adrian ZOICAS (MCC) – since 01/2000**

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SA5's Sub-WG Structure



- Appointed SWG officials at SA5#35bis (10/2003) and SA5#36 (11/2003).
 - See next slides

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



SWG A Telecom Management Architecture, Requirements & Trace

- **Istvan ABA (T-Mobile Austria)** – Chair
- **Tommy BERGGREN (TeliaSonera)** – Vice Chair
- **Kari RÖNKÄ (Nokia)** – Vice Chair



Liaison:

ITU-T SG4 (Architecture / Conformance),
T2 & CN4 (GUP/Subscription Management),
TMF (MMC, Mobile Management Team, MTEM),
CN1/4 , RAN 2/3, GERAN (Trace).

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



SWGB Charging Management - (32.2xy, 32.005/015)

- Karl-Heinz NENNER (T-Mobile) – Chair
- Gerald GÖRMER (Siemens) – Vice Chair



Liaison: GSM Association (BARG, IREG, SERG),
OMA MCC,
IETF-AAA (Diameter, Credit-Control),
T2 (MMS Charging).

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



SWGCI Interface IRPs and Security Management

- Thomas TOVINGER (Ericsson) – Chair
- Joerg SCHMIDT (Motorola) – Vice Chair

SA5 warmly thanked **Frédéric BONNEAU** (Nortel Networks) for the outstanding technical & human contribution during the two (2) years of SWGC Vice-Chairmanship.



Liaison: ITU-T SG 4 (CORBA, tML/XML)
T1M1 (CORBA, tML)
3GPP2 (Delta Specification to 3GPP SA5 OAM&P TSs)

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



SWG D Performance Management / NRM IRPs

- Christian TOCHE (Nortel Networks) – Chair
- Ulf HUBINETTE (Ericsson) – Vice Chair
- Olaf POLLAKOWSKI (Siemens) – Vice Chair



Liaison: ITU-T SG4 (IMT2000 Management),
TMF (Wireless Service Measurement Team),
RAN3 (Remote Electrical Tilting (RET) Antenna)

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Meetings held



SA5 #35bis

New Orleans, LA, USA, 1- 5 Oct 2003, hosted by NAF

- Attended by 43 delegates (Chinese delegates could not attend)
- Report in S5-030700

SA5 #36

Shanghai, CHINA, 17-21 Nov 2003, hosted by China Mobile (CMCC)

- Attended by 74 delegates
- Draft report in S5-030720

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Inter-Organizational Co-operation with:



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

- **Discussions in progress on IRP IS Template & UML Repertoire:**
 - ITU-T SG4 are using 3GPP 32.102 material in M.3020 status document.

3GPP2 TSG-S on Management standards

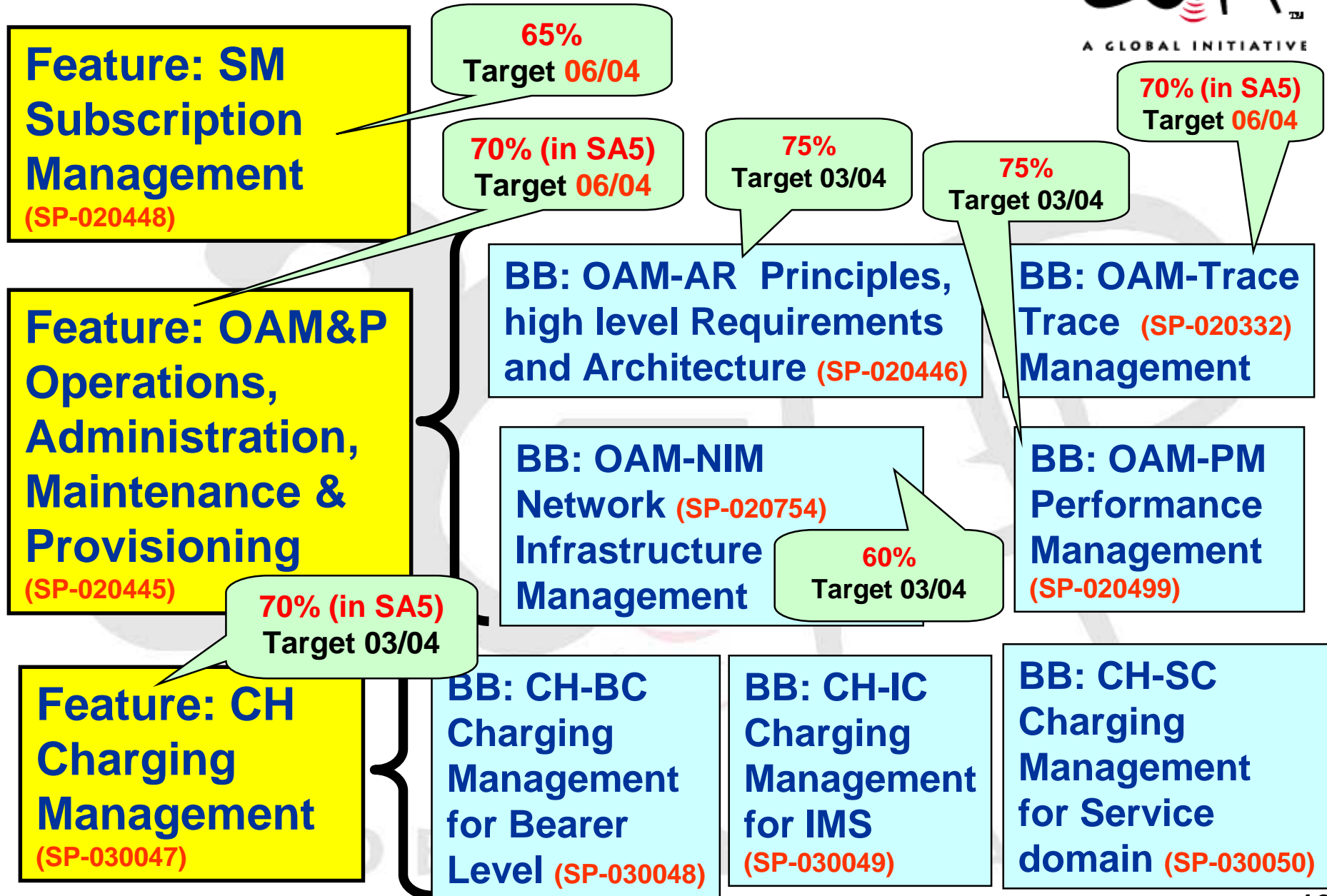
- **3GPP2 TSG-S is referencing SA5's TSs in its specification S.S0028-B "OAM&P for cdma2000 (3GPP2 R5 Delta Specification)", which also documents some exception areas as well as providing specifications for cdma2000 Network Resource Models.**
- **Co-operation on XML Reconciliation and Rel-6 Delta Specification is progressing.**

TMF on 3G-mobile Management standards

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

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SA5 Telecom Management Rel-6 Status overview



Status of Rel-6 Feature: Subscription Management



SA5 Rel-6 Feature: Subscription Management (SM)

- TSG Approval target delayed from **03/2004** to **06/2004**.
- 32.140/1 SM Requirements/Architecture – SA Approved.
- **32.171/2** (SM Network Resource Model (NRM) IRP: Requirements / IS)
- sent to SA#22 (12/2003) for Information - SA Approval target **03/2004**.
- 32.173 Protocols (IRP Solution Set) – SA Approval target **06/2004**.
Work on GUP has been analysed and GUP Stage 3 may be re-used for the SM IRP Solution Sets (provided T2/CN4 will deliver Stage3 GUP on time).

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Status of Rel-6 Feature OAM&P (1/4): OAM-AR



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

- TSG Approval target remains: **03/2004.**
- **3 New TSs for SA Information:**
 - **32.150** Integration Reference Point (IRP) Concept and Definitions
 - **32.151** IRP Information Service Template
 - **32.152** IRP Information Service UML Repertoire

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Status of Rel-6 Feature OAM&P (2/4): OAM-NIM



SA5 Rel-6 BB: Network Infrastructure Management

- TSG Approval target remains: **03/2004 (however difficult to achieve)**
- **4 New TSs for SA Information:**
 - **32.331** Notification Log IRP: Requirements
 - **32.341** File Transfer IRP: Requirements – SA#21 Information
 - **32.342** File Transfer IRP Information Service
 - **32.350** Communication Surveillance Requirements – SA#21 Information
 - **32.351** Communication Surveillance IRP Requirements
 - **32.352** Communication Surveillance IRP Information Service
- **3 New TSs for SA Approval:**
 - **32.361** Entry Point IRP: Requirements
 - **32.362** Entry Point IRP: Information Service
 - **32.363** Entry Point IRP: CORBA SS

Status of Rel-6 Feature OAM&P (3/4): OAM-PM



SA5 Rel-6 BB: Performance Management (PM)

- TSG Approval target remains: **03/2004.**
- **1 New TS for SA Approval:**
 - 32.411 Performance Management IRP Requirements – SA Approved
 - **32.412** Performance Management IRP: Information Service

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



SA5 Rel-6 BB: Subscriber and Equipment Trace Management

- **TSG Approval target delayed from 03/2004 to 06/2004.**
 - Not sufficient progress on 32.422, 32.423, 52.008 for submission to SA#22 for Information as scheduled.
 - For 32.422 (Trace control and Configuration Management) the greatest problems pertain to UTRAN, IMS and GERAN. The CS Domain and PS Domain parts of 32.422 are in a good shape (though communication with CN4 still ongoing).
 - The UTRAN parts of 32.422 need responses from RAN3 and the IMS parts need responses from the CN1.
 - The GERAN parts of 32.422 are currently marked as being FFS. The possibility of still including the GERAN parts to 32.422 for Rel-6, as well as the future of 52.008 is currently unclear.

Status of Rel-6 Charging Management (1/4)



SA5 Rel-6 Feature Charging Management (CH)

- TSG Approval target remains: **03/2004** (dependent on SA2).
- Common Rel-6 online charging application adopted
- Strong SA2 & IETF dependencies & set-back
- Very good progress overall
- **2 New TSs for SA Information:**
 - **32.240** Charging architecture and principles
 - **32.250** Circuit Switched (CS) domain charging

Online Charging System (OCS)

- Request from SA#21 to pursue 1-of-2 options in TR 32.815 v.600 :
 - SA5 works on a resolution & plans to report a conclusion at SA#23 (03/2004)
 - Available Draft 32.296-030 "Online System: Applications and Interfaces"

Status of Rel-6 Charging Management (2/4)



Status:

- IETF dropped the previous Credit Control Application (CCA) draft in favour of a new concept ("DCC"). As a consequence, 3GPP Rel-5 IMS online charging in 32.225 is based on an incomplete & discontinued IETF Draft.
- This change could have substantial consequences on a common Rel-6 online charging. Information from IETF on this change was only very recently received.

SA5 Plan:

1. Lay down the functional requirements for the Rel-6 common 3GPP Online Charging Application - to be based on Rel-5 IMS online charging.
2. Analyse the IETF DCC to see if it fulfils these requirements.
3. If it doesn't, discuss the IETF AAA WG potential changes to the DCC.
4. If the new DCC is adopted for Rel-6, then consider its applicability to IMS Rel-5.

3GPP/IETF Co-ordination Issues:

- No information on the changes in IETF AAA was received via the established coordination channels.
- IETF CCA, which is vital for Rel-5 IMS online charging, is listed only as a Rel-6 dependency.

WLAN Charging (Draft 32.252)

- Progress depends on SA2's finalization of the overall WLAN architecture & handover of charging work to SA5.

Offline Charging

- Role of WAG for per-user-charging not settled, SA1/2 communication on requirements still ongoing.
- LI issues in foreign VPLMN

Online Charging

- Issues listed on the previous slide also apply
- Issues listed under “Offline Charging” also apply

IP Flow Based Bearer Charging

- Progress depends on SA2 finalisation of TR 23.825 & handover of charging work to SA5.
- SA2's 23.825 target for Approval is SA#22 (12/2003).
- This work is expected to impact GPRS and WLAN for both offline and online charging (32.251/2, 32.298/9).
- SA5 noted that the current draft 23.825 does not consider the provisioning aspects of IP flow bearer charging.

NOTES:

1. **32.251** (GPRS charging), **32.252** (WLAN charging) cover offline & online.
2. **32.298** describes CDR parameters & encoding (impacted by IP flow parameters in the WLAN and GPRS CDRs), **32.299** correspondingly for the contents of the online charging requests.

Future SA5 Meetings

Meeting	Date	Location	Host	Note
SA5#36bis	12-16 Jan 2004	Vancouver, CANADA	NAF	No MCC support
SA5#37	23-27 Feb 2004	Malaga, SPAIN	EF3	
TSG#23	09-18 Mar 2004	Phoenix, USA	NAF	
SA5#37bis	29 March - 2 April 2004	SA, FRANCE	ETSI	No MCC support guaranteed
SA5#38	10-14 May 2004	Beijing	Datang Mobile	
TSG#24	01-10 Jun 2004	Seoul, KOREA	TTA	
SA5#38bis	28 June - 2 Jul 2004	SA, FRANCE	ETSI	No MCC support guaranteed
SA5#39	16-20 Aug 2004	Montreal, CANADA	NAF	
TSG#25	07-16 Sep 2004	Palm Springs, USA	NAF	
SA5#39bis	27 Sep - 01 Oct 2004	SA, FRANCE	ETSI	No MCC support guaranteed
SA5#40	15-19 Nov 2004	Europe ??	EF3??	
TSG#26	07-16 Dec 2004	Athens, GREECE	EF3	

NOTE: CCSA Members (>20% of SA5) are not getting US-entry visa.
 As Chinese members are active contributors & office holders,
 SA5 meetings in the US are not foreseen on short/mid term.

Abbreviations commonly used in SA5



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AVP	Attribute Value Pair		
BS	Billing System		
CDR	Charging Data Record	DN	Distinguished Name
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

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

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SA5 Documents provided to this Plenary

SP-030610	Status report of SA5 to SA #21	SP-030631	Rel-6 CR 32.111-1
SP-030611	2 Rel-5/6 CR 32.102	SP-030632	New Rel-6 TS 32.351 - for Information
SP-030612	Rel-6 CR 32.421	SP-030633	New Rel-6 TS 32.352 - for Information
SP-030613	New Rel-6 TS 32.150 - for Information	SP-030634	New Rel-6 TS 32.361 - for Approval
SP-030614	New Rel-6 TS 32.151 - for Information	SP-030635	New Rel-6 TS 32.362 - for Approval
SP-030615	New Rel-6 TS 32.152 - for Information	SP-030636	New Rel-6 TS 32.363 - for Approval
SP-030616	New Rel-6 TS 32.171 - for Information	SP-030637	New Rel-6 TS 32.342 - for Information
SP-030617	New Rel-6 TS 32.172 - for Information	SP-030638	New Rel-6 TS 32.331 - for Information
SP-030618	3 Rel-99/4/5 CR 32.015/32.215	SP-030639	2 Rel-4/5 CR 32.311
SP-030619	2 Rel-4/5 CR 32.205	SP-030640	2 Rel-4/5 CR 32.312
SP-030620	2 Rel-5 CR 32.205/32.215	SP-030641	2 Rel-5 CR 32.642/652
SP-030621	Rel-5 CR 32.215	SP-030642	4 Rel-5 CR 32.624/34/44/54
SP-030622	3 Rel-5 CR 32.225	SP-030643	4 Rel-5 CR 32.622/32/42/52
SP-030623	New Rel-6 TS 32.240 - for Information	SP-030644	Rel-5 CR 32.622
SP-030624	New Rel-6 TS 32.250 - for Information	SP-030645	2 Rel-5/6 CR 32.403
SP-030625	Rel-99 CR 32.106-6	SP-030646	10 Rel-4/5 CR 32.642/3/4/5, 32.655, 32.615
SP-030626	Rel-5 CR 32.111-3	SP-030647	Rel-6 CR 32.401
SP-030627	2 Rel-5 CR 32.111-4	SP-030648	3 Rel-6 CR 32.622/23/25
SP-030628	2 Rel-6 CR 32.111-2/3	SP-030649	Rel-6 CR 32.411
SP-030629	3 Rel-6 CR 32.111-2/3/4	SP-030650	New Rel-6 TS 32.412 - for Approval
SP-030630	6 Rel-4/5/6 CR 32.602/612/662	SP-030715	2 Rel-4/2 CR 32.642

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



SP-030611

2 Rel-5/6 CR 32.102

Doc-1st-Level	Spec	CR	Ph	Subject	Category	Version	Doc-2nd-Level	WI
SP-030611	32.102	031	Rel-5	Replace the term UMTS in line with SA1/2 with 3G / 3GPP	F	5.4.0	S5-032733	OAM-AR
SP-030611	32.102	032	Rel-6	Replace the term UMTS in line with SA1/2 with 3G / 3GPP	F	6.0.0	S5-032734	OAM-AR

SP-030613

New Rel-6 TS 32.150 - for Information

"Telecommunication management; Integration Reference Point (IRP) Concept and Definitions"

SP-030614

New Rel-6 TS 32.151 - for Information

"Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Template"

SP-030615

New Rel-6 TS 32.152 - for Information

"Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) Repertoire"

Feature: Subscription Management (SM)



SP-030616 New Rel-6 TS 32.171 - for Information

"Telecommunication management; Subscription Management Network Resource Model (NRM) Integration Reference Point (IRP): Requirements"

SP-030617 New Rel-6 TS 32.172 - for Information

"Telecommunication management; Subscription Management Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".

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BB: Trace Management (OAM-Trace)



SP-030612 Rel-6 CR 32.421

Doc-1st-Level	Spec	CR	Ph	Subject	Cat	Ver-C	Doc-2nd-Level	WI
SP-030612	32.421	002	Rel-6	Correction of IMS subscriber identification for Trace	F	6.1.0	S5-032712	OAM-Trace

Feature: Charging Management (CH) 1/3



SP-030618

3 Rel-99/4/5 CR 32.015/32.215

Doc-1st-Level	Spec	C R	Ph	Subject	C at	Ve r- Cu	Doc-2nd-Level	WI
SP-030618	32.0 15	0 3 9	R9 9	Correction of "Data Record Format Version"	F	3.b .0	S5-034710	CH
SP-030618	32.2 15	0 2 8	Rel -4	Correction of "Data Record Format Version"	A	4.5 .0	S5-034711	CH
SP-030618	32.2 15	0 2 9	Rel -5	Correction of "Data Record Format Version"	A	5.4 .0	S5-034712	CH

SP-030619

2 Rel-4/5 CR 32.205

Doc-1st-Level	Spec	C R	Ph	Subject	C at	Ve r- Cu	Doc-2nd-Level	WI
SP-030619	32.2 05	02 1	Rel -4	Add inter-network accounting in the GMSC (only if CN#22 approved CN3 CR 29.007)	B	4.5 .0	S5-034759	OAM- CH
SP-030619	32.2 05	02 2	Rel -5	Add inter-network accounting in the GMSC (only if CN#22 approved CN3 CR 29.007)	A	5.4 .0	S5-034760	OAM- CH

Feature: Charging Management (CH) 2/3



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SP-030620

2 Rel-5 CR 32.205/32.215

Doc-1st-Level	Spec	C R	Ph	Subject	C at	Ve r- Cu	Doc-2nd-Level	WI
SP-030620	32.205	023	Rel-5	Correction to Level of CAMEL Service	F	5.4.0	S5-034643	OAM-CH
SP-030620	32.215	030	Rel-5	Correction to Level of CAMEL Service	F	5.4.0	S5-034644	OAM-CH

SP-030621

Rel-5 CR 32.215

SP-030621	32.215	031	Rel-5	Correction on QoS Information (only if CN#22 approved CN4 CR 24.008)	F	5.4.0	S5-034768	OAM-CH
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SP-030622

3 Rel-5 CR 32.225

SP-030622	32.225	020	Rel-5	Correction of MRFC-CDR content definition for multi-party-call establishment	F	5.3.0	S5-034650	OAM-CH
SP-030622	32.225	021	Rel-5	Correction on ICID definition	F	5.3.0	S5-034766	OAM-CH
SP-030622	32.225	022	Rel-5	Removal of ASR and ASA	F	5.3.0	S5-034767	OAM-CH

Feature: Charging Management (CH) 3/3



SP-030623 New Rel-6 TS 32.240 - for Information

**"Telecommunication management; Charging management;
Charging Architecture and Principles"**

SP-030624 New Rel-6 TS 32.250 - for Information

**"Telecommunication management; Charging management;
Circuit Switched (CS) domain charging"**

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BB: Network Infrastructure Management



SP-030625 Rel-99 CR 32.106-6

(OAM-NIM) 1/7

Doc-1st-Level	Spec	C R	Ph	Subject	C at	Ver - Cu r	Doc-2nd-Level	W I
SP-030625	32.106-6	01 1	R9 9	Remove characters causing IDL Compilation error	F	3.3. 0	S5-037275	C M

SP-030626 Rel-5 CR 32.111-3

SP-030626	32.111-3	0 3 1	Rel -5	Add missing IDL definitions to support Security Alarms	F	5.4 .0	S5-037240	OAM- NIM
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SP-030627 2 Rel-5 CR 32.111-4

SP-030627	32.111-4	0 2 3	Rel -5	Add missing parts for the support of security alarms	F	5.6 .0	S5-037258	OAM- NIM
SP-030627	32.111-4	0 2 4	Rel -5	Mapping completion of getAlarmList	F	5.6 .0	S5-037276	OAM- NIM

SP-030628 2 Rel-6 CR 32.111-2/3

SP-030628	32.111-2	02 8	Rel- 6	Remove references to GSM 12.11	F	5.4. 0	S5-037278	OAM- NIM
SP-030628	32.111-3	03 2	Rel- 6	Remove references to GSM 12.11	F	5.4. 0	S5-037279	OAM- NIM

BB: Network Infrastructure Management



SP-030629 3 Rel-6 CR 32.111-2/3/4 (OAM-NIM) 2/7

SP-030629	32.111-2	027	Rel-6	Align the operation getAlarmList with the notification notifyAlarmListRebuilt	B	5.4.0	S5-037277	OAM-NIM
SP-030629	32.111-3	033	Rel-6	Align operation getAlarmList with the notification notifyAlarmListRebuilt	B	5.4.0	S5-037255	OAM-NIM
SP-030629	32.111-4	025	Rel-6	Align operation getAlarmList with the notification notifyAlarmListRebuilt	B	5.6.0	S5-037256	OAM-NIM

SP-030630 6 Rel-4/5/6 CR 32.602/612/662

SP-030630	32.602	004	Rel-4	Correction of System Context	F	4.1.0	S5-037266	OAM-CM
SP-030630	32.602	005	Rel-5	Correction of System Context	A	5.1.0	S5-037267	OAM-CM
SP-030630	32.612	007	Rel-4	Correction of System Context	F	4.4.0	S5-037268	OAM-CM
SP-030630	32.612	008	Rel-5	Correction of System Context	A	5.1.1	S5-037269	OAM-CM
SP-030630	32.662	002	Rel-5	Correction of System Context	F	5.0.0	S5-037270	OAM-CM
SP-030630	32.662	003	Rel-6	Correction of System Context	A	6.0.0	S5-037271	OAM-CM

BB: Network Infrastructure Management



SP-030631 Rel-6 CR 32.111-1

(OAM-NIM) 3/7

Doc-1st-Level	Spec	C R	Phase	Subject	Cat	Version-Curr	Doc-2nd-Level	WI
SP-030631	32.111-1	005	Rel-6	Add retrieval of alarm history information requirement	B	5.1.1	S5-037249	OAM-NIM

SP-030632 New Rel-6 TS 32.351 - for Information

SP-030633 New Rel-6 TS 32.352 - for Information

“Communication Surveillance (CS) IRP: Requirements / Information Service”

SP-030634 New Rel-6 TS 32.361 - for Approval

SP-030635 New Rel-6 TS 32.362 - for Approval

SP-030636 New Rel-6 TS 32.363 - for Approval

“Entry Point (EP) IRP: Requirements / Information Service / CORBA SS”

SP-030637 New Rel-6 TS 32.342 - for Information

“Telecommunication management; File Transfer (FT) IRP: Information Service”

SP-030638 New Rel-6 TS 32.331 - for Information

“Telecommunication management; Notification Log IRP: Information Service”

BB: Network Infrastructure Management

(OAM-NIM) 4/7



SP-030639 2 Rel-4/5 CR 32.311

Doc-1st-Ver	Specs	CR	Phae	Subject	Cat	Versi	Doc-2nd-L	WI
SP-030639	32.311	001	Rel-4	Align with 32.102	F	4.0.2	S5-038786	OAM-CM
SP-030639	32.311	002	Rel-5	Align with 32.102	A	5.0.1	S5-038787	OAM-CM

SP-030640 2 Rel-4/5 CR 32.312

SP-030640	32.312	001	Rel-4	Align with 32.102 and 32.311	F	4.0.1	S5-038783	OAM-CM
SP-030640	32.312	002	Rel-5	Align with 32.102 and 32.311	A	5.0.1	S5-038784	OAM-CM

SP-030641 2 Rel-5 CR 32.642/652

SP-030641	32.642	017	Rel-5	Add missing notification notifyPotentialFaultyAlarmlist	F	5.2.0	S5-038789	OAM-NIM
SP-030641	32.652	016	Rel-5	Add missing notification notifyPotentialFaultyAlarmlist	F	5.2.0	S5-038790	OAM-NIM

SP-030642 4 Rel-5 CR 32.624/34/44/54

SP-030642	32.624	012	Rel-5	Remove notifications from MOC managedFunction - Align with 32.622 (IS)	F	5.1.0	S5-038763	OAM-NIM
SP-030642	32.634	003	Rel-5	Add notifications to functional objects - Align with 32.632 (IS)	F	5.0.0	S5-038791	OAM-NIM
SP-030642	32.644	010	Rel-5	Add notifications to functional objects - Align with 32.642 (IS)	F	5.2.0	S5-038765	OAM-NIM
SP-030642	32.654	008	Rel-5	Add notifications to functional objects - Align with 32.652 (IS)	F	5.2.0	S5-038766	OAM-NIM

BB: Network Infrastructure Management (OAM-NIM) 5/7



SP-030643 4 Rel-5 CR 32.622/32/42/52

Doc-1st-Level	Spec	C R	Ph	Subject	C a t	Ve r	Doc-2nd	WI
SP-030643	32.62 2	0 1 0	Rel -5	Add Missing VsDataContainer for ManagedFunction & ManagedElement and Other IOCs (Version 2)	F	5.1 .0	S5- 038770	OAM- NIM
SP-030643	32.63 2	0 1 0	Rel -5	Remove redundant VsDataContainer Containment UML - Now Covered by 32.622	F	5.4 .0	S5- 038771	OAM- NIM
SP-030643	32.64 2	0 1 8	Rel -5	Remove redundant VsDataContainer Containment UML - Now covered by 32.622	F	5.2 .0	S5- 038792	OAM- NIM
SP-030643	32.65 2	0 1 7	Rel -5	Remove redundant VsDataContainer Containment UML - Now covered by 32.622	F	5.2 .0	S5- 038793	OAM- NIM

SP-030644 Rel-5 CR 32.622

SP-030644	32.62 2	011	Rel -5	Correction of UML diagram and other corrections	F	5.1.0	S5- 038811	OAM -NIM
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BB: Network Infrastructure Management (OAM-NIM) 6/7



SP-030646 10 Rel-4/5 CR 32.642/3/4/5, 32.655, 32.615

Doc-1st-Level	Spec	CR	Phase	Subject	Cat	Version	Doc-2nd-Level	WI
SP-030646	32.615	011	Rel-4	Correction of the number of possible URAs from 1 to 8	F	4.3.0	S5-038665	OAM-CM
SP-030646	32.615	012	Rel-5	Correction of the number of possible URAs from 1 to 8	F	5.1.0	S5-038666	OAM-NIM
SP-030646	32.642	015	Rel-4	Correction of the number of possible URAs from 1 to 8	F	4.3.0	S5-038686	OAM-CM
SP-030646	32.642	016	Rel-5	Correction of the number of possible URAs from 1 to 8	A	5.2.0	S5-038687	OAM-CM
SP-030646	32.643	005	Rel-4	Correction of the number of possible URAs from 1 to 8.	F	4.2.0	S5-038660	OAM-CM
SP-030646	32.643	006	Rel-5	Correction of the number of possible URAs from 1 to 8.	A	5.1.0	S5-038688	OAM-CM
SP-030646	32.644	008	Rel-4	Correction of the number of possible URAs from 1 to 8	F	4.2.0	S5-038661	OAM-CM
SP-030646	32.644	009	Rel-5	Correction of the number of possible URAs from 1 to 8	A	5.2.0	S5-038798	OAM-CM
SP-030646	32.645	006	Rel-5	Correction of the number of possible URAs from 1 to 8	F	5.1.0	S5-038667	OAM-NIM
SP-030646	32.655	005	Rel-5	Correction of the number of possible URAs from 1 to 8	F	5.1.0	S5-038668	OAM-NIM

BB: Network Infrastructure Management (OAM-NIM) 7/7



SP-030648 3 Rel-6 CR 32.622/23/25

Doc-1st-Level	Spec	CR	Phase	Subject	Category	Version	Doc-2nd-Level	WI
SP-030648	32.622	012	Rel-6	Add SetofMcc attribute in Generic NRM IOCs for NRM alignment	B	5.1.0	S5-038796	OAM-NIM
SP-030648	32.623	007	Rel-6	Add SetofMcc attribute in Generic NRM IOCs for NRM alignment	B	5.1.0	S5-038795	OAM-NIM
SP-030648	32.625	003	Rel-6	Add SetofMcc attribute in Generic NRM XML definition for NRM alignment	B	5.1.2	S5-038794	OAM-NIM

SP-030715 2 Rel-4/2 CR 32.642

SP-030715	32.642	013	Rel-4	Correction in attribute description for “maximumTransmissionPower” to remove dual interpretation – Align with RAN3’s TS 25.433	F	4.3.0	S5-038684	OAM-CM
SP-030715	32.642	014	Rel-5	Correction in attribute description for “maximumTransmissionPower” to remove dual interpretation - Align with RAN3's 25.433	A	5.2.0	S5-038685	OAM-CM

BB: Performance Management (OAM-PM)



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SP-030645 2 Rel-5/6 CR 32.403

Doc-1st-Level	Spec	CR	Phase	Subject	Category	Version-Curr	Doc-2nd-Level	WI
SP-030645	32.403	024	Rel-5	Correction of terms used for subcounter definitions	F	5.4.0	S5-038802	OAM-PM
SP-030645	32.403	025	Rel-6	Correction of terms used for subcounter definitions	A	6.1.0	S5-038803	OAM-PM

SP-030647 Rel-6 CR 32.401

SP-030647	32.401	012	Rel-6	Add requirements for Measurement Job overload management	B	5.2.0	S5-038693	OAM-PM
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SP-030649 Rel-6 CR 32.411

SP-030649	32.411	002	Rel-6	Add PM IRP compliance clause	B	6.1.0	S5-038809	OAM-PM
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SP-030650 New Rel-6 TS 32.412 - for Approval

"Performance Management (PM) Integration Reference Point (IRP): Information Service (IS)"

The End

See you next time !

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