

TSGS#26(04)0762

Meeting #26 Athens, GREECE, 13 - 16 December 2004



# ***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) – since 04/2002**

- **Vice Chairs**

**Dr Li Yewen (China Mobile/CCSA) – since 07/2003**

**Christian TOCHE (Nortel Networks/ ETSI) – since 04/2002**

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

# SA5's Sub-WG Structure



## SWG A

- Reqs & Architecture
- Subscription Mgmt
- Subscriber & UE Trace

## SWG B

Charging  
Management

## SWG C

OAM&P  
Interface Definition

## SWG D

OAM&P  
Data Definition

**SWG Officials - see next slides**

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



SWGA Telecom management Architecture, High-level requirements,  
Subscription management, Subscriber & UE Trace management

- István ABA (T-Mobile Austria) – Chair
- Tommy BERGGREN (TeliaSonera) – Vice Chair
- **Kari RÖNKÄ (Nokia) – Vice Chair**  
Stepped down at closure of Rel-6  
OAM-Trace work SA5#41 **11/2004**

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



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



## SWGB Charging Management

- Karl-Heinz NENNER (T-Mobile) – Chair
- Gerald GÖRMER (Siemens) – Vice Chair
- **Benni ALEXANDER (Nokia) – Vice Chair**  
**appointed 11/2004**

### Liaison:

GSM Association (BARG, IREG, SERG),  
OMA M-Commerce & Charging (MCC),  
IETF-AAA (Diameter, Credit-Control),  
T2 (MMS Charging),



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



## **SWGC OAM&P Interface Definition**

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

### **Liaison:**

**ITU-T SG 4 (CORBA, tML/XML, IS Methodology, UML),  
T1M1 (CORBA, tML),  
3GPP2 (Delta Specification to 3GPP SA5 OAM&P TSs).**

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



## **SWG D OAM&P Data Definition**

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

### **Liaison:**

**TMF (Wireless Service Measurement Team),  
RAN3 (Remote Electrical Tilting (RET) Antenna),  
3GPP2 (XML Reconciliation, NRMs, Performance measurements)**

# *Meetings held*



## **SA5 #39bis**

**SWGA, C, D**

**Sophia Antipolis, FRANCE, 27 Sep –1 Oct 2004, hosted by ETSI**

- **Attended by 30 delegates**

**SWGB (Charging)**

**Orlando, FL, USA, 27 Sep –1 Oct 2004, funded by SA5 Participants**

- **Attended by 9 delegates**
- **outside the meeting a Workshop was co-located with OMA/3GPP2 on PoC a. o. charging issues**

## **SA5 #40**

**Sanya, CHINA, 15-19 November 2004, hosted by China Mobile**

- **Attended by 74 delegates**
- **Draft report in S5-040713**



# ***Inter-Organizational Co-operation with:***



## **ITU-T SG4 & ATIS TMOC**

- Discussions on-going on CORBA framework, IS Methodology, UML, XML/tML standardization and overlap with Recommendation Q.827.1.
- Also liaising with ATIS TMOC on VoIP Account Management

## **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)."

New

## **IEEE 802.16 NETMAN Working Group**

- Establishing a relationship to exchange information related to the development of network management specifications for heterogeneous networks

## **IETF AAA Working Group**

- On Diameter Credit Control application for 3GPP Online Charging.

## **OMA Mobile Commerce & Charging (MCC) Working Group**

- On Re-use of 3GPP Charging Architecture and Specifications

## **TMF on 3G-mobile Management standards**

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

# SA5 Telecom Management Rel-6 Status overview



**Feature: SuM  
Subscription  
Management**  
(SP-020448)

**95%**  
Target **03/05** (was **09/04** then **12/04**)

**100%** (in SA5 as Trace has CN1/4 dependency)  
Completed **12/04** for all four (4) BBs

**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**

**BB: OAM-PM  
Performance  
Management**

**85%** (in SA5 as IP flow charging has SA2/CN3 dependency)  
Target **06/05** (was **09/04, 12/04**) **WLAN, PoC** and **New MBMS work**

**Feature: CH  
Charging  
Management**  
(SP-030047)

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

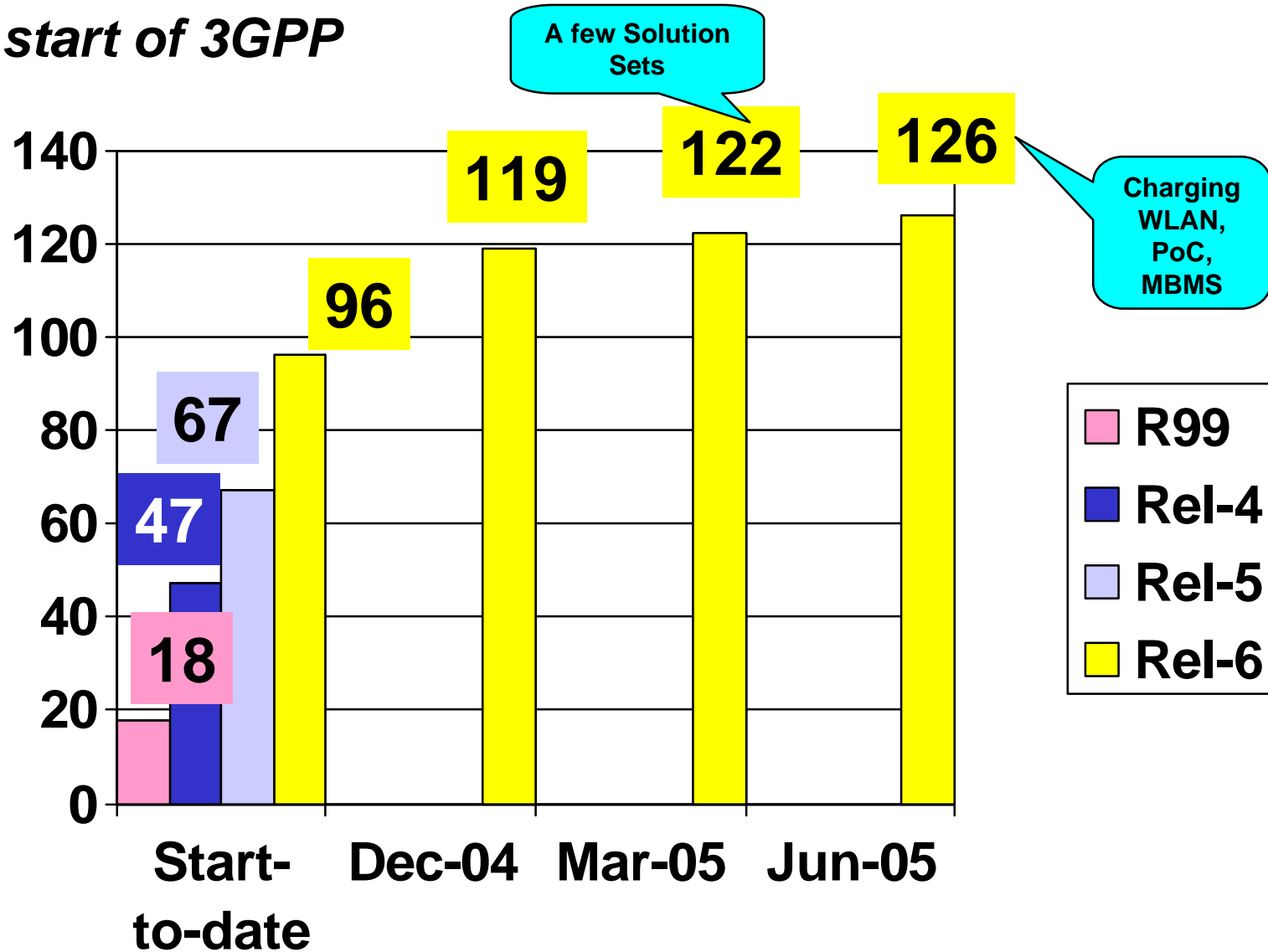
**BB: CH-IC  
Charging  
Management  
for IMS**  
(SP-030049)

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

# Evolution of SA5 specifications



- from start of 3GPP



# ***Status of Rel-6 Feature: Subscription Management (SuM)***

TSG Approval target moved to **Mar 2005** (was Sep 2004, Dec 2004)

Already SA Approved 4 TS/TR

- 32.140 SuM Requirements
- 32.141 SuM Architecture
- 32.171 SuM Network Resources Model (NRM) IRP Requirements
- 32.803 Process Guide; Use Cases in UML

SA#26 approval (2<sup>nd</sup> tentative) for 1 TS:

- 32.172 SuM NRM IRP Information Service (IS)

Target approval **Mar 2005** for 1 TS:

- SuM NRM IRP XML Definition – 32.175 **baseline draft available**

# ***Status of Rel-6 Feature OAM&P***



***Operation, Administration, Maintenance and Provisioning  
(completed Dec 04)***

**Already SA Approved: - some 90 TSs**

**For SA#26 approval: - some 20 TSs**

- **OAM-AR: Principles, high level Requirements & Architecture (completed June 04)**
- **OAM-NIM: Network Infrastructure Management (completed Dec 04)**
- **OAM-PM: Performance Management (completed Dec 04)**
- **OAM-Trace: Subscriber and Equipment Trace Management (completed Dec 04)**
  - **Contains Management Based Activation (MBA) and non-SIP Signalling Based Activation of Trace**
  - **Removed from Rel-6 Signalling Based Activation (SBA) of Trace in IMS (Reason CN1/IETF dependency on SIP)**

# OAM-Trace (cont'd)



- **Subscriber and Equipment Trace Management**
- SA5 part **completed Dec 04:**
  - Rel-6 SA5 32.423 (Trace data definition and management) – for SA#26 approval
  - Rel-6 SA5 52.008 (GSM subscriber and equipment trace) – for SA#26 approval
  - SA5 removed via Rel-6 CR Signalling Based Activation of Trace in IMS (Reason CN1/IETF dependency on SIP)
  - This closes the SA5 Rel-6 work on OAM-Trace
  
  - SA5 Rel-7 WID to be provided if/when New Rapporteur available

**CN Trace WID (involves CN1 and CN4) has been split into two parts:**

- Rel-6 Trace is non-SIP-based (CN4 WID at CN#26) – completion target **Mar 2005**
- Rel-7 SIP-based Trace (CN1 WID at CN#26) – completion target **Jun 2005** for:
  - CN1 24.229 (trace activation/deactivation over SIP between IMS entities)
  - CN4 29.228 (trace activation/deactivation over Cx interface).

# Status of Rel-6 Feature: Charging Management (CH)

TSG Approval target moved to **Jun 2005** (was Sep 2004, Dec 2004)

## Already SA Approved 8 TS/TR:

32.240	Charging architecture and principles
32.250	Circuit Switched (CS) domain charging
32.251	Packet Switched (PS) domain charging
32.270	Multimedia Messaging Service (MMS) charging
32.295	Charging Data Record (CDR) transfer
32.815	Online Charging System (OCS) architecture study
32.297	Charging Data Record (CDR) file format and transfer
32.299	Diameter charging applications

## SA#26 approval 3 TSs & new Rel-6 WID:

32.260	IP Multimedia Subsystem (IMS) charging
32.271	Location Services (LCS) charging
32.296	Online Charging System (OCS): Applications and interfaces
WID	Rel-6 on 32.273 MBMS Charging approval target <b>06/2005</b>

## Completion date for 4 TSs **Jun 2005**:

32.252	Wireless Local Area Network (WLAN) charging
32.272	PoC charging - coordinate with OMA
32.273	MBMS charging- work will start in <b>Jan 2005</b> (SA5#40bis)
32.298	Charging Data Record (CDR) parameter description

# SA5 Meetings



<b>3GPPSA5#40-Bis SWGB</b>	<b>11 - 13 Jan 2005</b>	<b>Sophia Antipolis</b>	<b>FR</b>
<b>3GPPSA5#41</b>	<b>24 - 28 Jan 2005</b>	<b>Lisbon</b>	<b>PT</b>
<b>3GPPSA#27</b>	<b>14 - 17 Mar 2005</b>	<b>Tokyo</b>	<b>JP</b>
<b>3GPPSA5#41-BIS</b>	<b>14 - 18 Mar 2005</b>	<b>Sophia Antipolis</b>	<b>FR</b>
<b>3GPPSA5#42</b>	<b>9 - 13 May 2005</b>	<b>TBD</b>	<b>US</b>
<b>3GPPSA#28</b>	<b>6 - 9 Jun 2005</b>	<b>Quebec</b>	<b>CA</b>
<b>3GPPSA5#42-BIS</b>	<b>27 Jun - 1 Jul 2005</b>	<b>Sophia Antipolis</b>	<b>FR</b>
<b>3GPPSA5#43</b>	<b>29 Aug - 2 Sep 2005</b>	<b>TBD</b>	<b>CH</b>
<b>3GPPSA#29</b>	<b>26 - 29 Sep 2005</b>	<b>Tallinn</b>	<b>EE</b>
<b>3GPPSA5#44</b>	<b>7 - 11 Nov 2005</b>	<b>TBD</b>	
<b>3GPPSA#30</b>	<b>5 - 8 Dec 2005</b>	<b>Malta</b>	<b>MT</b>



# Acknowledgements



**Mr Kari RONKA (Nokia)**  
SA5 SWGD/SWGA Vice-Chair for  
4 years and Rapporteur on  
Subscriber and User Equipment  
Trace Management

**Mr Ove WIKBERG (Ericsson)**  
Rapporteur (32.172/3) and active  
Member for 3 years on  
Subscription Management (SuM)



# Acknowledgements



**Mrs Dan LI**  
(Nortel Networks) - for her  
work on Performance and  
Network Infrastructure

**Mr David SIDOR**  
(Nortel Networks)  
ITU-T SG4 Chair  
SA5 Member for 5 years



# Abbreviations commonly used in SA5

A GLOBAL INITIATIVE

<b>AVP</b>	<b>Attribute Value Pair</b>	<b>TOM</b>	<b>Telecom Operations Map (TMF)</b>
<b>BS</b>	<b>Billing System</b>		
<b>CDR</b>	<b>Charging Data Record</b>	<b>DN</b>	<b>Distinguished Name</b>
<b>CM</b>	<b>Configuration Management</b>		
<b>CMIP</b>	<b>Common Management Information Protocol</b>		
<b>CMISE</b>	<b>Common Management Information Service</b>		
<b>COPS</b>	<b>Common Open Policy Service</b>		
<b>CORBA</b>	<b>Common Object Request Broker Architecture</b>		
<b>FM</b>	<b>Fault Management</b>		
<b>GDMO</b>	<b>Guidelines for the Definition of Managed Objects</b>		
<b>IDL</b>	<b>Interface Definition Language</b>		
<b>IMS</b>	<b>IP Multimedia Subsystem</b>	<b>IOC</b>	<b>Information Object Class</b>
<b>IRP</b>	<b>Integration Reference Point</b>	<b>IS</b>	<b>Information Service</b>
<b>ITF-N</b>	<b>Interface-N (Network-NM Interface)</b>	<b>MOC</b>	<b>Managed Object Class</b>
<b>NRM</b>	<b>Network Resource Model</b>		
<b>OAM&amp;P</b>	<b>Operations, Administration, Maintenance &amp; Provisioning</b>		
<b>O(S)S</b>	<b>Operations Support System</b>		
<b>PDP</b>	<b>Policy Decision Point</b>		
<b>PM</b>	<b>Performance Management</b>		
<b>SNMP</b>	<b>Simple Network Management Protocol (IETF)</b>		
<b>SuM</b>	<b>Subscription Management</b>	<b>UML</b>	<b>Unified Modelling Language</b>
<b>SS</b>	<b>Solution Set</b>	<b>XML</b>	<b>eXtensible Mark-up Language</b>
<b>TM</b>	<b>Telecom Management</b>		
<b>TMF</b>	<b>TeleManagement Forum</b>		
<b>TMN</b>	<b>Telecommunications Management Network (ITU-T)</b>		

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

# SA5 Telecom Management WID overview



(Feature & BB level ONLY)

**Feature: SuM  
Subscription  
Management**  
(SP-040763 was SP-020448)

**BB: OAM-AR  
Principles,  
high level  
Requirements  
and Architecture**  
(SP-040767 was SP-020446)

**BB: OAM-Trace  
Trace  
Management**  
(SP-040769 was SP-020332)

**Feature: OAM  
Operations,  
Administration,  
Maintenance &  
Provisioning**  
(SP-040766 was SP-020445)

**BB: OAM-NIM  
Network  
Infrastructure  
Management**  
(SP-040789 was SP-020754)

**BB: OAM-PM  
Performance  
Management**  
(SP-040782 was SP-020499)

**Feature: CH  
Charging  
Management**  
(SP-040773 was 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-040778 was SP-030050)

# Feature: Subscription Management (SuM)



Unique_ID	Name	Acronym	WID (URL)	
2062	Subscription Management	SuM	SP-020448	
SA Tdoc#	Title	Type	WI	
SP-040763	Updated WID Rel-6 SuM	WID	SuM	Approval
SP-040764	3 Rel-6 CR 32.140/171	CR	SuM	Approval
SP-040830	Rel-6 TS 32.172 Subscription Management (SuM) Network Resource Model (NRM) IRP Information Service	TS	SuM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.140	Subscription Management (SuM) requirements		6.2.0	
32.141	Subscription Management (SuM) architecture		6.1.0	
32.171	Subscription Management (SuM) NRM IRP Requirements		6.0.0	
32.172	Subscription Management (SuM) Network Resource Model (NRM) IRP Information Service		2.3.0	For approval Dec 2004
32.173	SuM NRM IRP CORBA Solution Set			Withdrawn from Rel-6
32.175	Subscription Management (SuM) NRM IRP XML definitions			For approval 03/2005
32.803	Process guide; Use cases in Unified Modelling Language (UML)		6.0.0	

Doc1stlevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040764	32.140	004	--	Rel-6	Editorial corrections and updates of Subscription Management (SuM) requirements	D	6.2.0	S5-042648	SuM
SP-040764	32.140	005	--	Rel-6	Change the Introduction clause to reflect what capability SuM is offering in Rel-6	F	6.2.0	S5-042649	SuM
SP-040764	32.171	001	--	Rel-6	Editorial modifications to "Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements"	D	6.0.0	S5-042650	SuM

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



Unique_ID	Name	Acronym	WID (URL)	
35011	Principles, high level Requirements and Architecture	OAM-AR	SP-020446	
SA Tdoc#	Title	Type	WI	
SP-040766	Updated WID Rel-6 OAM	WID	OAM-AR	Approval
SP-040767	Updated WID Rel-6 OAM-AR	WID	OAM-AR	Approval
SP-040768	2 Rel-6 CR 32.101/2 Principles and high level requirements / Architecture	CR	OAM-AR	Approval
Spec	Title	Rel-5	Rel-6	
32.101	Telecommunication management; Principles and high level requirements	5.5.0	6.0.0	
32.102	Telecommunication management; Architecture	5.6.0	6.3.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040768	32.101	026	--	Rel-6	Add sftp (secure ftp) as a valid File Transfer Protocol - Align with 32.341 File Transfer IRP Requirements	F	6.0.0	S5-042722	OAM-AR
SP-040768	32.102	037	--	Rel-6	Corrections and updates	F	6.3.0	S5-042756	OAM-AR

# BB: Subscriber and Equipment Trace Management (OAM-Trace)



Unique_ID	Name	Acronym	WID (URL)	
35015	Trace Management	OAM-Trace	SP-020332	
SA Tdoc#	Title	Type	WI	
SP-040769	Updated WID Rel-6 OAM-Trace	WID	OAM-Trace	Approval
SP-040770	4 Rel-6 CR 32.421/2 Trace concepts and requirements / Trace control and configuration management	CR	OAM-Trace	Approval
SP-040771	Rel-6 TS 32.423-200 Trace data definition and management	TS	OAM-Trace	Approval
SP-040772	Rel-6 TS 52.008-200 GSM subscriber and equipment trace	TS	OAM-Trace	Approval
Spec	Title	Rel-5	Rel-6	Note
32.421	Subscriber and equipment trace; Trace concepts and requirements		6.3.0	
32.422	Subscriber and equipment trace; Trace control and Configuration Management (CM)		6.0.0	
32.423	Subscriber and equipment trace; Trace data definition and management		2.0.0	For approval Dec 2004
52.008	GSM subscriber and equipment trace		2.0.0	For approval Dec 2004

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040770	32.421	005	--	Rel-6	Remove requirement for having ASN.1 as Trace record format	C	6.4.0	S5-042737	OAM-Trace
SP-040770	32.421	006	--	Rel-6	Remove in Rel-6 the signalling based Trace in IMS due to missing SIP signalling support from CN1/IETF	C	6.4.0	S5-042743	OAM-Trace
SP-040770	32.422	001	--	Rel-6	Remove IMS entities from the Signalling Based Activation of the Trace functionality	C	6.0.0	S5-042736	OAM-Trace
SP-040770	32.422	002	--	Rel-6	Align Management Based Activation for Trace with RAN3's 25.413 (UTRAN Iu interface RANAP signalling)	F	6.0.0	S5-042745	OAM-Trace



# Feature: Charging Management (CH)



Unique_ID	Name	Acronym	WID (URL)	
35016	Charging Management	CH	SP-030047	
SA Tdoc#	Title	Type	WI	
SP-040773	Updated WID Rel-6 CH	WID	CH	Approval
SP-040774	Rel-6 TS 32.296-200 Online Charging System (OCS): Applications and interfaces	TS	CH	Approval
Spec	Title	Rel-5	Rel-6	Note
32.815	Online Charging System (OCS) architecture study		6.0.0	
32.295	Charging Data Record (CDR)		6.0.0	
32.296	Online Charging System (OCS): Applications and interfaces		2.0.0	For approval Dec 2004
32.297	Charging Data Record (CDR) file format and transfer		6.0.0	
32.298	Charging Data Record (CDR) parameter description		1.x.y	For approval Jun 2005

# BB: Bearer Charging (CH-BC)



Unique_ID	Name	Acronym	WID (URL)	
35017	Charging Management for Bearer level	CH-BC	SP-030048	
35033	WLAN charging	WLAN-CH		
SA Tdoc#	Title	Type	WI	
<b>SP-040775</b>	3 Rel-6 CR 32.251/299 PS domain charging / Diameter charging applications	CR	CH-BC	Approval
Spec	Title	Rel-5	Rel-6	Note
32.240	Charging architecture and principles		6.0.0	
32.250	Circuit Switched (CS) domain charging		6.0.0	
32.251	Packet Switched (PS) domain charging		6.0.0	
32.252	Wireless Local Area Network (WLAN) charging		0.2.1	For approval Jun 2005

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040775	32.251	001	--	Rel-6	Add "Furnish Charging Information" procedure for GPRS	B	6.0.0	S5-044796	CH
SP-040775	32.251	002	--	Rel-6	Add data description for PS online charging	F	6.0.0	S5-044804	CH
SP-040775	32.299	005	--	Rel-6	Add definition of a new 3GPP-specific AVP: PS Furnish Charging Information AVP - Align with 32.251	B	6.0.0	S5-044805	CH

# BB: IMS Charging (CH-IC, IMS2-CH)



Unique_ID	Name	Acronym	WID (URL)	
35018	Charging Management for the IMS	IMS2-CH	SP-030049	
35032	IMS charging	IMS2-CH		
SA Tdoc#	Title	Type	WI	
SP-040776	7 Rel-5/6 CR 32.225/299 IMS charging / Diameter charging applications	CR	CH-IC	Approval
SP-040777	Rel-6 TS 32.260-200 IMS charging	TS	CH-IC	Approval
Spec	Title	Rel-5	Rel-6	Note
32.260	IP Multimedia Subsystem (IMS) charging		2.0.0	For approval Dec 2004
32.299	Diameter charging applications		6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040776	32.225	029	--	Rel-5	Align SDP-Media-Components in ACR with CDR	F	5.6.0	S5-044646	OAM-CH
SP-040776	32.225	030	--	Rel-5	Reassign Vendor specific AVP codes - Align with CN4's 29.230	F	5.6.0	S5-044792	OAM-CH
SP-040776	32.225	031	--	Rel-5	Correct multiple occurrence of Inter-Operator-Identifier, ApplicationServer, Application-provided-Called-Party-Address	F	5.6.0	S5-044794	OAM-CH
SP-040776	32.299	001	--	Rel-6	Reassign Vendor specific AVP codes - Align with CN4's 29.230	A	6.0.0	S5-044793	OAM-CH
SP-040776	32.299	002	--	Rel-6	Add Threshold based re-authorisation triggers	B	6.0.0	S5-044797	CH
SP-040776	32.299	003	--	Rel-6	Add Re-authorisation triggers for flow-based online charging – Align with Stage 2	B	6.0.0	S5-044798	CH
SP-040776	32.299	004	--	Rel-6	Add missing elements and other corrections	F	6.0.0	S5-044800	CH

# BB: Service Charging

## (CH-SC, MMS6-CH, LCS-CH, PoC-CH, MBMS-CH)



Unique_ID	Name	Acronym	WID (URL)	
35019	Charging Management for the Service domain	CH	SP-030050	
35034	MMS charging	MMS6-CH		
35035	LCS charging	LCS2-CH		
35036	PoC charging	PoC-CH		
35038	MBMS charging	MBMS-CH	S5-044785	
SA Tdoc#	Title	Type	WI	
SP-040778	Updated WID Rel-6 CH-SC	WID	CH-SC	Approval
SP-040779	New WID Rel-6 Multimedia Broadcast and Multicast Service charging (MBMS-CH)	WID	MBMS-CH	Approval
SP-040780	3 Rel-6 CR 32.270 MMS Charging	CR	CH-SC	Approval
SP-040781	Rel-6 TS 32.271-200 LCS charging	TS	CH-SC	Approval
Spec	Title	Rel-5	Rel-6	Note
32.270	Multimedia Messaging Service (MMS) charging		6.0.0	
32.271	Location Services (LCS) charging		2.0.0	For approval Dec 2004
32.272	Push-to-talk over Cellular (PoC) charging		0.x.y	For approval Jun 2005
32.273	MBMS charging			For approval Jun 2005

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040780	32.270	001	--	Rel-6	Introduce Application Data in MMS Charging – Align with T2's TS 23.140 (MMS6)	F	6.0.0	S5-044781	CH-SC
SP-040780	32.270	002	--	Rel-6	Introduce Content Adaptation in MMS Charging – Align with T2's TS 23.140 (MMS6)	F	6.0.0	S5-044782	CH-SC
SP-040780	32.270	003	--	Rel-6	Correction on VASP MMS CDR triggers	F	6.0.0	S5-044783	CH-SC

# BB: Performance Management (OAM-PM)



Unique_ID	Name	Acronym	WID (URL)	
<b>35012</b>	<b>Performance Management</b>	<b>OAM-PM</b>	<b>SP-020499</b>	
	WTP4: PM File Format enhancements			
	WTP5: Measurement job Administration functions			
	WTP6: Performance Threshold Management functions			
	WTP7: Performance Measurement definitions			
SA Tdoc#	Title	Type	WI	
<b>SP-040782</b>	Updated WID Rel-6 OAM-PM	WID	OAM-PM	Approval
<b>SP-040783</b>	5 Rel-4/5/6 CR 32.401/3 Performance Management; Concept and requirements / Performance measurements - UMTS and combined UMTS/GSM	CR	OAM-PM	Approval
Spec	Title	Rel-5	Rel-6	Note
<b>32.401</b>	Performance Management (PM); Concept and requirements	<b>5.3.0</b>	<b>6.2.0</b>	
<b>52.402</b>	Performance Management (PM); Performance measurements - GSM	<b>5.0.0</b>	<b>6.0.0</b>	
<b>32.403</b>	Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	<b>5.7.0</b>	<b>6.4.0</b>	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040783	32.401	021	--	Rel-6	Removal of annexes from Performance Management Concepts and Requirements	D	6.3.0	S5-049031	OAM-PM
SP-040783	32.401	022	--	Rel-6	Add requirements for Threshold Management	B	6.3.0	S5-049034	OAM-PM
SP-040783	32.403	054	--	Rel-4	Correct measurements about GPRS Update Locations sent to the HLR	F	4.8.0	S5-049037	OAM-PM
SP-040783	32.403	055	--	Rel-5	Correct measurements about GPRS Update Locations sent to the HLR	A	5.8.0	S5-049038	OAM-PM
SP-040783	32.403	056	--	Rel-6	Correct measurements about GPRS Update Locations sent to the HLR	A	6.5.0	S5-049039	OAM-PM

# BB: Performance Management (OAM-PM)



Unique_ID	Name	Acronym	WID (URL)	
35012	Performance Management	OAM-PM	SP-020499	
	WTP1&P2: Performance Management IRP			
SA Tdoc#	Title	Type	WI	
SP-040784	3 Rel-6 CR 32.412/3 Performance Management (PM) IRP Information Service (IS) / CORBA SS	CR	OAM-PM	Approval
SP-040785	Rel-6 TS 32.414 Performance Management (PM) IRP CMIP SS	TS	OAM-PM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.411	Performance Management (PM) IRP Requirements		6.3.0	
32.412	Performance Management (PM) IRP Information Service (IS)		6.1.0	
32.413	Performance Management (PM) IRP CORBA SS		6.1.0	
32.414	Performance Management (PM) IRP CMIP SS		1.0.0	For approval Dec 2004

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040784	32.412	007	--	Rel-6	Correct ambiguous precondition statement related to createThresholdMonitor operation	F	6.2.0	S5-046977	OAM-PM
SP-040784	32.412	008	--	Rel-6	Correct definition of ObjectClass and ObjectInstance in "notifyMeasurementJobStatusChanged" and "notifyThresholdMonitorStatusChanged"	F	6.2.0	S5-047128	OAM-PM
SP-040784	32.413	004	--	Rel-6	Add missing exception & filter to PM IRP CORBA SS, Align with IDL Style Guide in 32.150	F	6.2.0	S5-047116	OAM-PM

# BB: Performance Management (OAM-PM)



Unique_ID	Name	Acronym	WID (URL)	
35012	Performance Management	OAM-PM	SP-020499	
	WTP4: PM File Format enhancements			
SA Tdoc#	Title	Type	WI	
SP-040786	Rel-6 TS 32.432 Performance measurement collection IRP IS	TS	OAM-PM	Approval
SP-040787	Rel-6 TS 32.435 Performance measurement: XML file format definition	TS	OAM-PM	Approval
SP-040788	Rel-6 TS 32.436 Performance measurement: ASN.1 file format definition	TS	OAM-PM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.432	Performance measurement collection IRP Information Service (IS)		2.0.0	For approval Dec 2004
32.435	Performance measurement: XML file format definition		2.0.0	For approval Dec 2004
32.436	Performance measurement: Abstract Syntax Notation 1 (ASN.1) file format definition		2.0.0	For approval Dec 2004

# BB: Network Infrastructure Management (OAM-NIM)



Unique ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	OAM-NIM	SP-020754	
	WT09: Backward Compatibility			
SA Tdoc#	Title	Type	WI	
SP-040789	Updated WID Rel-6 OAM-NIM	WID	OAM-NIM	Approval
SP-040790	2 Rel-6 CR 32.150/32.111-2 IRP Concept and definitions / Fault Management; Alarm IRP IS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.150	Integration Reference Point (IRP) Concept and definitions		6.0.0	
32.151	Integration Reference Point (IRP) Information Service (IS) template		6.0.0	
32.152	Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire		6.1.0	
32.805	Process guide; Backward compatibility recommendations		1.0.0	For approval Dec 2004

Doc1stevl	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040790	32.111-2	032	--	Rel-6	Add Generic System Context – Align with 32.150	F	6.2.0	S5-047133	OAM-NIM
SP-040790	32.150	002	--	Rel-6	Add Generic System Context	F	6.1.0	S5-047056	OAM-NIM



# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040791	10 Rel-5/6 CR 32.111-2/3/4 Fault Management; Alarm IRP IS / CORBA / CMIP SSs	CR	OAM-NIM	Approval
SP-040792	Rel-6 TS 32.111-5 Fault Management; IRP XML definitions	TS	OAM-NIM	Information
Spec	Title	Rel-5	Rel-6	Note
32.111-1	Fault Management; Part 1: 3G fault management requirements	5.1.1	6.0.0	
32.111-2	Fault Management; Part 2: Alarm IRP Information Service (IS)	5.4.0	6.1.0	
32.111-3	Fault Management; Part 3: Alarm IRP CORBA SS	5.5.1	6.0.0	
32.111-4	Fault Management; Part 4: Alarm IRP CMIP SS	5.7.1	6.1.0	
32.111-5	Fault Management; Part 5: Alarm IRP XML Definitions		1.0.0	For approval Dec 2004

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040791	32.111-2	033	--	Rel-5	Correct the time carried by the eventTime parameter of notifyComments	F	5.4.0	S5-046987	OAM-NIM
SP-040791	32.111-2	034	--	Rel-6	Correct the time carried by the eventTime parameter of notifyComments	A	6.2.0	S5-046981	OAM-NIM
SP-040791	32.111-2	035	--	Rel-6	Remove redundant ackTime parameter in notifyAckStateChanged	C	6.2.0	S5-046978	OAM-NIM
SP-040791	32.111-2	036	--	Rel-6	Correct description of thresholdInformation – Align with 32.401	F	6.2.0	S5-047023	OAM-NIM
SP-040791	32.111-2	037	--	Rel-6	Correction of probable cause for alarms.	F	6.2.0	S5-047078	OAM-NIM
SP-040791	32.111-3	034	--	Rel-6	Remove redundant ackTime parameter in notifyAckStateChanged	C	6.0.0	S5-046979	OAM-NIM
SP-040791	32.111-3	035	--	Rel-6	Correction of probable cause definition for AlarmIRP IDL file.	F	6.0.0	S5-047079	OAM-NIM
SP-040791	32.111-3	036	--	Rel-6	Add mandatory exception operationNotSupported for optional operations in AlarmIRP - Align IDL style with IDL Style Guide in 32.150	F	6.0.0	S5-047118	OAM-NIM
SP-040791	32.111-3	037	--	Rel-6	Correction of filterable parameters - Align with the IS in 32.111-2	F	6.0.0	S5-047134	OAM-NIM
SP-040791	32.111-4	029	--	Rel-6	Remove redundant ackTime parameter in notifyAckStateChanged	C	6.2.0	S5-046980	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040793	4 Rel-6 CR 32.300 Name convention for Managed Objects, 32.302/3 CM; Notification IRP IS / CORBA SS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.300	CM; Name convention for Managed Objects	5.0.1		CR for Rel-6 upgrade Dec 2004
Spec	Title	Rel-5	Rel-6	Note
32.301	CM; Notification IRP Requirements	5.0.1	6.0.0	
32.302	CM; Notification IRP Information Service (IS)	5.1.0	6.0.0	
32.303	CM; Notification IRP CORBA SS	5.2.0	6.0.0	
32.304	CM; Notification IRP CMIP SS	5.2.1	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040793	32.300	003	--	Rel-6	Correct and convert formal specification from BNF syntax to EBNF with corrections	F	5.0.1	S5-047132	OAM-NIM
SP-040793	32.302	006	--	Rel-5	Add missing rules on how to construct the string NotificationCategory	F	5.1.0	S5-046982	OAM-NIM
SP-040793	32.302	007	--	Rel-6	Add missing rules on how to construct the string NotificationCategory	A	6.0.0	S5-046983	OAM-NIM
SP-040793	32.303	013	--	Rel-6	Remove filter requirement in IDL comments in the Notification IRP CORBA SS	F	6.1.0	S5-047039	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040794	2 Rel-6 CR 32.311/2 Generic IRP management; Requirements / IS	CR	OAM-NIM	Approval
SP-040795	Rel-6 TS 32.313-100 Generic IRP management; CORBA SS	TS	OAM-NIM	Approval
SP-040796	Rel-6 TS 32.314-100 Generic IRP management; CMIP SS	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.311	Generic Integration Reference Point (IRP) management; Requirements	5.1.0	6.0.0	
32.312	Generic Integration Reference Point (IRP) management; Information Service (IS)	5.1.0	6.0.0	
32.313	Generic Integration Reference Point (IRP) management; CORBA SS		1.0.0	For approval Dec 2004
32.314	Generic Integration Reference Point (IRP) management; CMIP SS		1.0.0	For approval Dec 2004

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040794	32.311	003	--	Rel-6	Correct ambiguities in using IRPVersion, Add reference to its CORBA/CMIP SSs	F	6.0.0	S5- 047131	OAM-NIM
SP-040794	32.312	003	--	Rel-6	Update UML diagrams, Add reference to its CORBA/CMIP SSs	F	6.0.0	S5-047135	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
<b>SP-040797</b>	Rel-6 CR 32.323 Test management IRP CORBA SS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.321	Test management IRP Requirements	5.0.1	6.0.0	
32.322	Test management IRP Information Service (IS)	5.1.0	6.0.0	
32.323	Test management IRP CORBA SS	5.1.0	6.0.0	
32.324	Test management IRP CMIP SS	5.1.0	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040797	32.323	002	--	Rel-6	Align the IDL style in the CORBA SS with the IDL Style Guide in 32.150	F	6.0.0	S5-047121	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
	WT08: Log Management IRP			
SA Tdoc#	Title	Type	WI	
SP-040798	Rel-6 TS 32.332 Notification Log IRP CMIP IS	TS	OAM-NIM	Approval
SP-040799	Rel-6 TS 32.334 Notification Log IRP CMIP SS	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.331	Notification Log IRP Requirements		6.0.0	
32.332	Notification Log IRP Information Service (IS)		2.0.0	For approval Dec 2004
32.333	Notification Log IRP CORBA SS			For approval Mar 2005
32.334	Notification Log IRP CMIP SS		1.0.0	For approval Dec 2004
32.335	Notification Log IRP XML definitions		1.0.0	For approval Mar 2005

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	<b>OAM-NIM</b>	<b>SP-020754</b>	
	WT07: Generic File Transfer IRP			
SA Tdoc#	Title	Type	WI	
<b>SP-040800</b>	Rel-6 CR 32.343 File Transfer (FT) IRP CORBA SS	CR	OAM-NIM	Approval
<b>SP-040801</b>	Rel-6 TS 32.344 File Transfer (FT) IRP CMIP SS	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.341	File Transfer (FT) IRP Requirements		6.0.0	
32.342	File Transfer (FT) IRP Information Service (IS)		6.0.0	
32.343	File Transfer (FT) IRP CORBA SS		6.0.0	
32.344	File Transfer (FT) IRP CMIP SS		1.0.0	For approval Dec 2004

Doc1stlevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040800	32.343	001	--	Rel-6	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields - Align IDL style in FT IRP CORBA SS with IDL Style Guide in 32.150	F	6.0.0	S5-047032	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	<b>OAM-NIM</b>	<b>SP-020754</b>	
	WT02: Communication Surveillance			
SA Tdoc#	Title	Type	WI	
<b>SP-040802</b>	Rel-6 CR 32.353 Communication Surveillance (CS) IRP CORBA SS	CR	OAM-NIM	Approval
<b>SP-040803</b>	Rel-6 TS 32.354 Communication Surveillance (CS) IRP CMIP SS	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.351	Communication Surveillance (CS) IRP Requirements		6.0.0	
32.352	Communication Surveillance (CS) IRP Information Service (IS)		6.0.0	
32.353	Communication Surveillance (CS) IRP CORBA SS		6.0.0	
32.354	Communication Surveillance (CS) IRP CMIP SS		1.0.0	For approval Dec 2004

Doc1stevl	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040802	32.353	001	--	Rel-6	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields - Align IDL style in CS IRP CORBA SS with IDL Style Guide in TS 32.150	F	6.0.0	S5-047122	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)




Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
	WT03: Entry Point			
SA Tdoc#	Title	Type	WI	
SP-040877	Rel-6 CR002R1 32.363 Entry Point (EP) IRP CORBA SS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.361	Entry Point (EP) IRP Requirements		6.0.0	
32.362	Entry Point (EP) IRP Information Service (IS)		6.2.0	
32.363	Entry Point (EP) IRP CORBA SS		6.1.0	
32.364	Entry Point (EP) IRP CMIP SS			Withdrawn from Rel-6

Doc1stlevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040804	32.363	002	--	Rel-6	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields, Eliminate new definitions in EP IRP CORBA SS	F	6.1.0	S5-047113	OAM-NIM



# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	OAM-NIM	SP-020754	
	WT01: Security Management			
SA Tdoc#	Title	Type	WI	
<b>SP-040805</b>	Rel-6 CR 32.371 Security Management concept and requirements	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.371	Security Management concept and requirements		6.0.0	
32.372	Security Management IRP Information Service (IS)			Withdrawn from Rel-6
32.373	Security Management IRP CORBA SS			Withdrawn from Rel-6
32.374	Security Management IRP CMIP SS			Withdrawn from Rel-6

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040805	32.371	001	--	Rel-6	Correct the Introduction clause – Align with what is actually delivered in Rel-6 on Security Management	D	6.0.0	S5-047138	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040806	2 Rel-6 CR 32.601/3 Basic CM IRP Requirements / CORBA SS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.600	CM; Concept and high-level requirements	5.0.1	6.0.0	
Spec	Title	Rel-5	Rel-6	Note
32.601	CM; Basic CM IRP Requirements	5.0.1	6.0.0	
32.602	CM; Basic CM IRP Information Service (SS)	5.3.0	6.0.0	
32.603	CM; Basic CM IRP CORBA SS	5.2.0	6.0.0	
32.604	CM; Basic CM Integration Reference Point (IRP) CMIP SS	5.0.0	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040806	32.601	002	--	Rel-6	Add Signalling Transport Network (STN) NRM IRP in 32.601 BasicCM IRP Requirements	B	6.0.0	S5-049040	OAM-NIM
SP-040806	32.603	015	--	Rel-6	Align the IDL style in the CORBA SS with the IDL Style Guide in 32.150	F	6.1.0	S5-047125	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040807	6 Rel-6 CR 32.612/3/5 Bulk CM IRP IS / CORBA / CMIP SSs	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.611	CM; Bulk CM IRP Requirements	5.1.0	6.0.0	
32.612	CM; Bulk CM IRP Information Service (IS)	5.3.0	6.0.0	
32.613	CM; Bulk CM IRP CORBA SS	5.1.0	6.0.0	
32.614	CM; Bulk CM IRP CMIP SS	5.0.0	6.0.0	
32.615	CM; Bulk CM IRP XML file format definition	5.5.0	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040807	32.612	011	--	Rel-6	Partition Bulk CM IRP capabilities into packages	F	6.0.0	S5-047109	OAM-NIM
SP-040807	32.612	012	--	Rel-6	BulkCMIRP should be extended to be applicable to new NRM model, such as Signalling Transport Network (STN) NRM IRP	B	6.0.0	S5-049020	OAM-NIM
SP-040807	32.613	010	--	Rel-6	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields - Align with IS in 32.612	F	6.0.0	S5-047123	OAM-NIM
SP-040807	32.613	011	--	Rel-6	Partition Bulk CM IRP capabilities into separate IDL modules – Align to IS in 32.612	F	6.0.0	S5-047124	OAM-NIM
SP-040807	32.613	012	--	Rel-6	Add Signalling Transport Network (STN) NRM IRP in BulkCM IRP CORBA SS	B	6.0.0	S5-049049	OAM-NIM
SP-040807	32.615	018	--	Rel-6	Add Signalling Transport Network (STN) NRM IRP in BulkCM IRP XML FF	B	6.0.0	S5-049050	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
<b>SP-040808</b>	7 Rel-5/6 CR 32.622/4/5 Generic network resources IRP NRM / CMIP / XML	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.621	CM; Generic network resources IRP Requirements	5.0.0	6.0.0	
32.622	CM; Generic network resources IRP NRM	5.4.0	6.2.0	
32.623	CM; Generic network resources IRP CORBA SS	5.3.0	6.2.0	
32.624	CM; Generic network resources: IRP CMIP SS	5.4.0	6.0.0	
32.625	CM; Generic network resources IRP Bulk CM XML file format definition	5.3.0	6.2.0	

Doc1stevl	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040808	32.622	020	--	Rel-6	Correct the write qualification for VsDataContainer.vsData	F	6.2.0	S5-048924	OAM-NIM
SP-040808	32.622	021	--	Rel-6	Correction of modelling of Media GateWay (MGW)	F	6.2.0	S5-048958	OAM-NIM
SP-040808	32.624	019	--	Rel-5	Add missing definition of attribute meContextId	F	5.4.0	S5-049015	OAM-NIM
SP-040808	32.624	020	--	Rel-6	Add missing definition of attribute meContextId	A	6.0.0	S5-049016	OAM-NIM
SP-040808	32.624	021	--	Rel-6	Add definitions for genericIRP	F	6.0.0	S5-047045	OAM-NIM
SP-040808	32.625	012	--	Rel-5	Correct attribute for the managementScope association - Align with IS in 32.622	F	5.3.0	S5-048861	OAM-NIM
SP-040808	32.625	013	--	Rel-6	Correct attribute for the managementScope association - Align with IS in 32.622	A	6.2.0	S5-048862	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
<b>SP-040809</b>	5 Rel-6 CR 32.632/3/5 Core network resources IRP NRM / CORBA / XML	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.631	CM; Core network resources IRP Requirements	5.0.0	6.0.0	
32.632	CM; Core Network Resources IRP NRM	5.5.0	6.0.0	
32.633	CM; Core network resources IRP CORBA solution set	5.1.0	6.0.0	
32.634	CM; Core network resources IRP CMIP solution set	5.2.0	6.0.0	
32.635	CM; Core network resources IRP Bulk CM XML file format definition	5.3.0	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040809	32.632	012	--	Rel-6	Add new IMS Entities to Rel-6 Core Network NRM	B	6.0.0	S5-049006	OAM-NIM
SP-040809	32.632	013	--	Rel-6	Add restart notification to GSN objects using "proceduralStatus" attribute and notifyStateChange notification	B	6.0.0	S5-047110	OAM-NIM
SP-040809	32.633	007	--	Rel-6	Add new IMS Entities	B	6.0.0	S5-049007	OAM-NIM
SP-040809	32.633	008	--	Rel-6	Add restart notification to GSN objects using "proceduralStatus" attribute - Align with IS in 32.632	B	6.0.0	S5-047111	OAM-NIM
SP-040809	32.635	008	--	Rel-6	Add new IMS Entities	B	6.0.0	S5-049008	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	<b>OAM-NIM</b>	<b>SP-020754</b>	
35023	OAM&P (inpacts from RET)	RANimp-TiltAnt OAM		
	WTRET: Remote Control of Electrical Tilting Antennas			
SA Tdoc#	Title	Type	WI	
<b>SP-040810</b>	6 Rel-6 CR 32.642/3/4/5 UTRAN network resources IRP NRM / CMIP / XML	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.641	CM; UTRAN network resources IRP Requirements	5.0.0	6.0.0	
32.642	CM; UTRAN network resources IRP NRM	5.4.0	6.1.0	
32.643	CM; UTRAN network resources IRP CORBA SS	5.3.0	6.1.0	
32.644	CM; UTRAN network resources IRP CMIP SS	5.5.0		CR for Rel-6 upgrade Dec 2004
32.645	CM; UTRAN network resources IRP Bulk CM XML file format definition	5.5.0	6.0.0	
32.804	Control of Remote Electrical Tilting (RET) antennas; Requirements		6.0.0	

## SA5 requests withdrawal of

Sep 2004	S_25	SP-040587	027	-	Add support for Remote control of Electrical Tilting (RET) antenna <b>CR not implementable : New CR submitted to SA#26 in S5-049002</b>	6.1.0	6.2.0
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Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040810	32.642	028	--	Rel-6	Add AntennaFunction class and attributes to support RET (Remote control of Electrical Tilting)	B	6.2.0	S5-049002	OAM-NIM
SP-040810	32.642	029	--	Rel-6	Add support for the state change notification	B	6.2.0	S5-048985	OAM-NIM
SP-040810	32.643	017	--	Rel-6	Correct IDL compilation error	F	6.2.0	S5-048939	OAM-NIM
SP-040810	32.643	018	--	Rel-6	Correct IDL compilation error and change name of retAntennaList	F	6.2.0	S5-049044	OAM-NIM
SP-040810	32.644	015	--	Rel-6	Add support for the TDD mode, the state change notification and ATM management – Align with 32.642	B	5.6.0	S5-049025	OAM-NIM
SP-040810	32.645	016	--	Rel-6	Add operationalState to the UtranCell – Align with the IS in 32.642	F	6.1.0	S5-049012	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040811	Rel-6 CR 32.655 GERAN network resources XML file format definition	CR	OAM-NIM Approval	
Spec	Title	Rel-5	Rel-6	Note
32.651	CM; GERAN network resources IRP Requirements	5.0.0	6.0.0	
32.652	CM; GERAN network resources IRP NRM	5.3.0	6.0.0	
32.653	CM; GERAN network resources IRP CORBA SS	5.2.0	6.0.0	
32.654	CM; GERAN network resources IRP CMIP SS	5.4.0	6.0.0	
32.655	CM; GERAN network resources IRP Bulk CM XML file format definition	5.5.0	6.0.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040811	32.655	011	--	Rel-6	Add operationalState to the BtsSiteMgr – Align with the IS in 32.652	F	6.0.0	S5-049045	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
SA Tdoc#	Title	Type	WI	
SP-040812	2 Rel-6 CR 32.661/3 Kernel CM; Requirements / CORBA SS	CR	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.661	CM; Kernel CM; Requirements	5.1.0	6.1.0	
32.662	CM; Kernel CM; Information service (IS)	5.2.0	6.3.0	
32.663	CM; Kernel CM IRP CORBA SS	5.2.0	6.1.0	
32.664	CM; Kernel CM IRP CMIP SS	5.0.0	6.1.0	

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040812	32.661	004	--	Rel-6	Add Signalling Transport Network (STN) NRM IRP in KernelCM IRP Requirements	B	6.1.0	S5-049052	OAM-NIM
SP-040812	32.663	011	--	Rel-6	Correct the mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields (instead of filterable fields) - Align with IS in 32.662	F	6.2.0	S5-047117	OAM-NIM



# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
	WT10: State Management Enhancements (NRM)			
	WT10: State Mgmt Enhancement, Interface IRP part			
SA Tdoc#	Title	Type	WI	
SP-040813	2 Rel-5/6 CR 32.674 State Management IRP CMIP SS	CR	OAM-NIM	Approval
SP-040814	Rel-6 TS 32.675 State Management IRP Bulk CM XML file format definition	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.671	CM; State Management IRP Requirements	5.0.0	6.0.0	
32.672	CM; State Management IRP Information Service (IS)	5.0.0	6.0.0	
32.673	CM; State Management IRP CORBA SS	5.1.0	6.0.0	
32.674	CM; State Management IRP CMIP SS	5.1.0	6.0.0	
32.675	CM; State Management IRP CMIP SS XML file format definition		1.0.0	For approval Dec 2004

Doc1stlevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040813	32.674	002	--	Rel-5	Correct GDMO code	F	5.1.0	S5-048833	OAM-NIM
SP-040813	32.674	003	--	Rel-6	Correct GDMO code	A	6.0.0	S5-048834	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	OAM-NIM	SP-020754	
	WT11: Inventory Management (NRM)			
	WT11: Inventory Mgmt, Interface IRP part			
SA Tdoc#	Title	Type	WI	
SP-040815	Rel-6 TS 32.690 Inventory Management (IM): Requirements	TS	OAM-NIM	Approval
SP-040816	Rel-6 CR 32.692 Inventory Management (IM) network resources IRP NRM	CR	OAM-NIM	Approval
SP-040817	Rel-6 TS 32.695 Inventory Management (IM) network resources IRP XML file format definition	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.681	Inventory Management (IM) IRP Requirements		1.0.0	Withdrawn from Rel-6.
32.682	Inventory Management (IM) IRP Information Service (IS)			Withdrawn from Rel-6
32.683	Inventory Management (IM) IRP CORBA SS			Withdrawn from Rel-6
32.684	Inventory Management (IM) IRP CMIP SS			Withdrawn from Rel-6
32.690	Inventory Management (IM) IRP Requirements		1.0.0	Replaces 32.681
32.691	Inventory Management (IM) network resources IRP Requirements	5.0.0	6.0.0	
32.692	Inventory Management (IM) network resources IRP NRM	5.0.0		CR for Rel-6 upgrade Dec 2004
32.695	Inventory Management (IM) network resources IRP XML file format definition		2.0.0	For approval Dec 2004

Doc1stLevel	Specifica	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsID
SP-040816	32.692	001	--	Rel-6	Align Inventory Management Network Resource Model with the latest template from Rel-6 TS 32.150	F	5.0.0	S5-049046	OAM-NIM

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	<b>Network Infrastructure Management</b>	OAM-NIM	SP-020754	
	WT13: ATM-UTRAN Interface Management			
	WT16: TDD & FDD UTRAN NRM Enhancements			
SA Tdoc#	Title	Type	WI	
<b>SP-040818</b>	Rel-6 TS 32.714 Transport Network (TN) NRM IRP CMIP SS	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.711	Transport Network (TN) NRM IRP Requirements		6.0.0	
32.712	Transport Network (TN) NRM IRP Information Service (IS)		6.0.0	
32.713	Transport Network (TN) NRM IRP CORBA SS		6.0.0	
32.714	Transport Network (TN) NRM IRP CMIP SS		1.0.0	For approval Dec 2004
32.715	Transport Network (TN) NRM IRP XML file format definition		6.0.0	

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
	WT05: CMCC/SA5 NRM Alignment			
SA Tdoc#	Title	Type	WI	
SP-040819	Rel-6 TS 32.744 Signalling Transport Network (STN) interface NRM IRP CMIP SS	TS	OAM-NIM	Approval
SP-040820	Rel-6 TS 32.745 Signalling Transport Network (STN) interface NRM IRP XML file format definition	TS	OAM-NIM	Approval
Spec	Title	Rel-5	Rel-6	Note
32.741	CM; Signalling Transport Network (STN) interface NRM IRP Requirements		6.0.0	
32.742	CM; Signalling Transport Network (STN) interface NRM IRP Information Service (IS)		6.0.0	
32.743	CM; Signalling Transport Network (STN) interface NRM IRP CORBA SS		6.0.0	
32.744	CM; Signalling Transport Network (STN) interface NRM IRP CMIP SS		1.0.0	For approval Dec 2004
32.745	CM; Signalling Transport Network (STN) interface NRM IRP XML file format definition		1.0.0	For approval Dec 2004

# BB: Network Infrastructure Management (OAM-NIM)



Unique_ID	Name	Acronym	WID (URL)	
35014	Network Infrastructure Management	OAM-NIM	SP-020754	
	WT09: Backward Compatibility			
SA Tdoc#	Title	Type	WI	
SP-040821	Rel-6 TR 32.805 Process guide; Backward compatibility recommendations	TR	OAM-NIM	Approval

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# The End of Rel-6

For Rel-7  
see next slide



# *Typical Venue and Dress for SA5 Rel-7 work*



***The End  
See you next time !***