

TSGS#19(03)0040

Meeting #19, Birmingham, UK, 17-20 March 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**  
**Thomas RICHTER** (Cingular Wireless LLC/ T1) – elected 04/2002  
**Christian TOCHE** (Nortel Networks/ ETSI) – elected 04/2002
- **MCC Support:** **Adrian ZOICAS (MCC)** – since 01/2000
- **Four (4) SWGs**  
**SWGA: Telecom Management - Architecture and Requirements**  
**SWGB: Charging Management**  
**SWGC: Telecom Network Infrastructure Management**  
**SWGD: Performance Management and Trace Management**

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



## SWGA Telecom Management - Architecture and Requirements

- Michael TRUSS (Motorola) – Chair

RG OEM-AR: Tommy BERGGREN (Telia) – Rapporteur, VC SWGA

- Architecture (32.101), Principles & Requirements (32.102)

RG OEM-UEM: John MUDGE (Vodafone) – Rapporteur

- User Equipment Management (UEM) (32.150, 32.802)

RG OEM-SM: Michael EDER (Nokia) – Rapporteur

- Subscription Management (SM) (32.140/1)

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

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



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

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

**RG CH-BC: Benni ALEXANDER (Nokia) – Rapporteur**

- **Charging Management for Bearer level**

**RG CH-IC: Ariel SHARON (Lucent) – 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).  
OMA m-Commerce (just received a questionnaire)**

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



## SWGCG Telecom Network Infrastructure Management (TM Solutions)

- **Thomas TOVINGER (Ericsson)** – Chair SWGC
- **Joerg SCHMIDT (Motorola)** – Vice Chair SWGC
- **Frédéric BONNEAU (Nortel Networks)** – Vice Chair SWGC
  - WTC1 RG (Maintenance of Configuration Management 32.6xx series)
  - WTC2 RG (Maintenance of Fault Management 32.111-x & 32.3xx series)
  - WT01 RG (Security Management)
  - WT02 RG (Communication Surveillance)
  - WT03 RG (Entry Point)
  - WT04 RG (Alignment of CMCC/SA5 CM framework)
  - WT05 RG (Alignment of CMCC/SA5 NRMs)
  - WT06 RG (Alignment of CMCC/SA5 FM framework)
  - WT07 RG (Generic File Transfer IRP)
  - WT08 RG (Log Management IRP)
  - WT09 RG (Backward Compatibility)
  - WT10 RG (State Management Enhancements)
  - WT11 RG (Inventory Management)
  - WT12 RG (General Network Resource Model Enhancements)
  - WT13 RG (ATM-UTRAN Interface Management)
  - WT14 RG (XML Reconciliation)
  - WT15 RG (Align Notification IRP with ITU)
  - WT16 RG (UTRAN NRM Enhancements for TDD and FDD modes)

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)**



## **SWG D Performance Management and Trace Management**

- **Christian TOCHE (Nortel Networks) – Chair SWGD**

## **RG OAM-PM: Ulf HUBINETTE (Ericsson) – Rapporteur, VC SWGD**

- **Performance Management: measurements, concepts, definition, requirements, PM IRP (32.41x-/52.402)**

## **RG OAM-Trace: Kari RONKA (Nokia) - Rapporteur , VC SWGD**

- **Subscriber and UE Tracing (32.42x, 52.008)**

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

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# Meetings held



## SA5 #32bis

- Sophia Antipolis, FRANCE, 20-24 Jan 2003, hosted by ETSI
- Attended by 49 delegates
- Full report in S5-030100

## Joint RAN2-RAN3-SA5-SWGD ad-hoc on Trace Management

- Sophia Antipolis, FRANCE, 20-24 Jan 2003, hosted by ETSI
- Draft report in S5-038132

## SA5 #33

- Phoenix, AZ, USA, 24-28 Feb 2003, hosted by NAF
- Attended by 51 delegates
- Draft report in S5-030129

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



## **Open Mobile Alliance (OMA)**

- with OMA Requirements Group on UEM Requirements.
- OMA LS reply received together with "OMA draft Requirements specification for Device Management" (02/2003) – see S5-032127/8.
- SA5's reply presented later in SP-030045.

## **3GPP2 TSG-S on Management standards**

- 3GPP2 TSG-S is referencing SA5's TSs in its specification S.S0028-A "OAM&P for cdma2000 (3GPP R4 Delta Specification)", which also documents some exception areas as well as providing specifications for cdma2000 Network Resource Models
- Further co-operation on XML Reconciliation and Rel-5/6 Delta Specification is ongoing.

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



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

- **Discussions are in progress on IS Template & UML Repertoire**
- **Further co-operation is under investigation**

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

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

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# 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-020729)

**BB: CH-BC  
Charging  
Management  
for Bearer  
Level** (SP-020730)

**BB: CH-IC  
Charging  
Management  
for IMS**  
(SP-020731)

**BB: CH-SC  
Charging  
Management  
for Service  
domain** (SP-020732)

# ***Status of Rel-6 Feature: Subscription Management***

## SA5 Rel-6 Feature: Subscription Management (SM)

Work done against WID in SP-020448; progress from 30% to **45%**

- 32.140 (stage 1) Subscription Management Requirements - submitted to SA#19 for Approval (**SP-030041**).
- 32.141 (stage 2/3) Subscription Management Architecture - submitted to SA#19 for Information (**SP-030042**).
- 32.14x Subscription Management Data Model and Protocols - TSG Approval target remains **09/2003** (will be evaluated based on 32.141 architecture TS).
- 32.141 (SM stage 3) is closely related to CN4 Stage 3 GUP activities.
- Proposal for joint contributions to SA5 and CN4 to address areas of common interest.
- Exact nature and extent of co-operation with CN4 still being evaluated.
- SA5/T2 SWG2 Joint Meeting planned (**04/2003**).

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



Work done against WID SP-020445 - SA#17 approved (09/02)

- SA5 Rel-6 Feature: OAM&P - progress from 22% to **30%**

BB: Principles, high level Requirements and Architecture	10% => <b>20%</b>
BB: Performance Management (32.41x, 52.402)	15% => <b>20%</b>
BB: User Equipment Management	10% => <b>10%</b>
BB: Network Infrastructure Management	05% => <b>15%</b>
BB: Trace Management (32.42x, 52.008)	50% => <b>55%</b>

- Request to SA to accept delaying TSG Approval target from **09/2003** to **03/2004**.
- See BB status on the next slides

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



**SA5 Rel-6 BB: Principles, high level Requirements and Architecture 20%**

- **Work done against WID SP-020446 - SA#17 approved (09/02).**
- **Work on-going on Management of Service Specific Entities.**
- **Work on-going on Network Sharing.**
- **UEM and SuM Release 6 updates to be done.**
- **No progress or support for linkage to OSA.**
- **QoS Management updates made to align with SA2/CN4, further updates based on IETF under investigation.**

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



**SA5 Rel-6 BB: Performance Management (PM) (32.41x, 52.402) 20%**

- Work done against WID SP-020499 - SA#17 approved (09/02).
- New dates are proposed for the delivery of PM IRP TSs as follows:
  - 32.411 PM IRP; Requirements – SA Approval from **12/2002** to **06/2003**
  - 32.412 PM IRP; Information Service – SA Approval from **06/2003** to **09/2003**
  - 32.413 PM IRP; CORBA solution set – SA Approval from **09/2003** to **12/2003**
  - New** [32.414] PM IRP; CMIP solution set
- New objective to split 32.401 in Rel-6 into separate TSs for the file format definitions (32.401 annex A, B, C are removed and split into 3 related TSs):
  - [31.415] PM IRP; Measurement report file conventions and format
  - [31.416] PM IRP; eXtensible Markup Language (XML) measurement report file format definition
  - [32.417] PM IRP; Abstract Syntax Notation 1 (ASN.1) measurement report file format definition
- Request to SA to accept delaying TSG Approval target from **06/2003** to **12/2003**.
- Revised WID will be submitted to SA#20 (**06/2003**).

# Status of Rel-6 Feature

## OAM&P (4/6): OAM-UEM



### SA5 Rel-6 BB: User Equipment Management (impacts other TSGs) 10%

- Work done against WID SP-020608 - SA#17 approved (09/02).

### Expected Output & Approval schedule as per WID in SP-020608

GAP analysis (Technical Report) - see NOTE	T2, SA5	03/2003	06/2003
UEM Requirements and Architecture (TS stages 1/2)	SA5, T2	03/2003	06/2003
UEM Protocol Specification	T2	06/2003	09/2003

- OMA reply to SA5 LS SP-020428 (08/2002) received together with "OMA draft Requirements specification for Device Management" (02/2003) – see S5-032127/8.
- SA5 will compare OMA's document with 3GPP SA5's Rel-5 TR 32.802 & Rel-6 draft TS 32.150, and will feedback to OMA (GAP analysis) – see SP-030045/S5-032133).
- SA5 (with T2,SA1,SA3,T3) will review the SA5-owned BB WID "OAM-UEM" (SP-020608) in the light of OMA's Device Management Requirements. Revised WID will be submitted to SA#20 (06/2003).
- AWS (S5-032116/8), Smart Trust (S5-032129) and Vodafone (S5-032131) presentations were made at SA5#33 (02/2003).
- Ongoing joint meetings with T2 SWG2 (04/2003)
- 32.150 (SA5) UEM Reqs. & Architecture; Stage 1/2 - not ready for SA#19 Information.
- Not started 27.150 (T2) UEM protocol spec; Stage 3. Insufficient support for T2/T WID.
- Request to SA to accept delaying 32.150 TSG Approval target from 06/2003 to 12/2003,

# ***Status of Rel-6 Feature OAM&P (5/6): OAM-NIM***



## **SA5 Rel-6 BB: Network Infrastructure Management**

**15%**

- **Work done against WID SP-020754 - SA#18 approved (12/02).**

- **Ongoing work on:**

**Security Management,  
Inventory Management,  
Entry Point IRP,  
CM Alignment,  
FM Alignment,  
Log Management IRP,  
XML Reconciliation,  
Generic File Transfer IRP,**

**Communication Surveillance,  
Network Resource Model Alignment,  
State Management Enhancements,  
UTRAN NRM Enhancements for TDD and FDD modes,  
General Network Resource Model Enhancements,  
Backward Compatibility,  
ATM-UTRAN interface management,  
Notification IRP alignment with ITU.**

- **Request to SA to accept delaying TSG Approval target from 09/03 to 12/2003.**

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



**SA5 Rel-6 BB: Trace Management (impacts other TSGs) 55%**

- Work done against WID SP-020332 - SA#16 approved (06/02).
- 32.421 Trace Concepts and Requirements – approved at SA#18 (12/2002).
- Joint RAN2-RAN3-SA5 SWGD ad-hoc meeting held (02/2003). Follow-up needed.
- Pending replies from previous meetings to LSs from CN4 (08/2002) and CN1 (12/2002). The replies shall include detailed Trace requirements to CN.
- New dates are proposed for SA Approval of the new Trace TSs from 06/2003 to 12/2003:
  - 32.422 Trace Control and Configuration Management
  - 32.423 Trace Data Definition and Management
- Request to SA to accept delaying TSG Approval target from 06/03 to 12/2003.

# ***Status of Rel-6 Feature: Charging Management: CH (1/4)***



**SA5 Feature Charging Management (CH) - progress from 0% to 5%**

- **Work done against WIDs SP-020729/30/1/2 - SA#18 approved (12/02).**
- **Proposed NEW structure and content of the Rel-6 Charging TSs**  
**SA5 agreed the Siemens/T-Mobile proposal to discontinue the existing Rel-5 TSs (32.200, 32.205, 32.215, 32.225, 32.235) and replace them in Rel-6 by a new TS-family (see SP-030046 and the next 2 slides).**

## **Reason:**

**With the advent in Rel-6 of new specifications for on-line and off-line charging in the bearer and service levels, e.g. WLAN, Push, Presence, LCS, Streaming, the existing problem of overlap, referencing and duplication would be severely aggravated, therefore it is proposed to create a more desirable structure with:**

- 1. a common charging architecture and principles TS as the top tier;**
- 2. domain-specific stage 3 specifications in the middle level and**
- 3. common charging blocks to all domains at the lower tier.**

**Mapping the contents of the Rel-5 TSs to the new Rel-6 structure is provided.**

# Status of Rel-6 Feature: Charging Management: CH (2/4)



## Evolution of Charging specifications

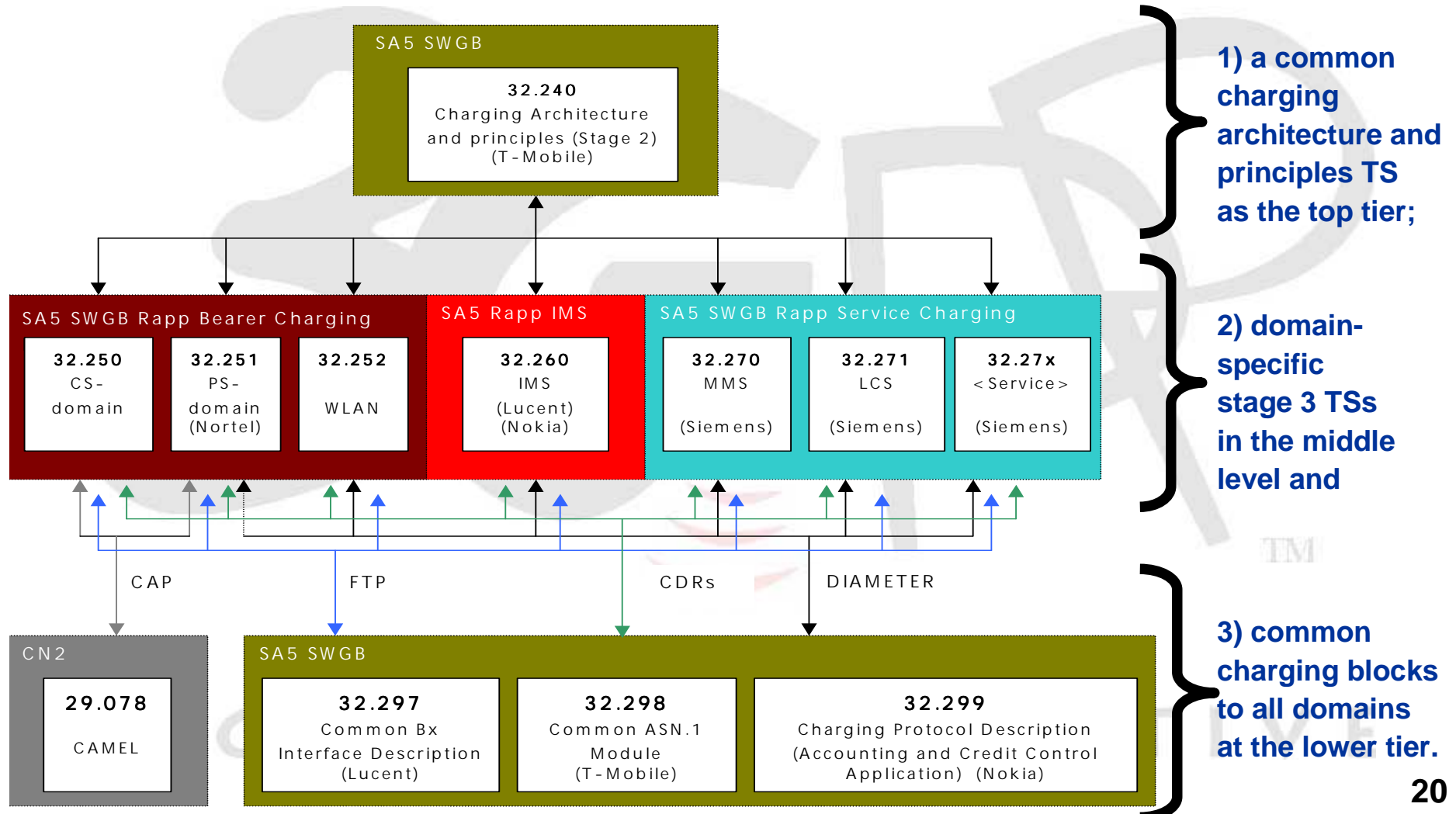
<u>Release</u>	<u>vs.</u>	<u>TS numbering</u>
GSM R98		12.05, 12.15
3GPP R99		32.005, 32.015
3GPP Rel-4		32.200, 32.205, 32.215, 32.235
3GPP Rel-5		32.200, 32.205, 32.215, 32.235, 32.225
<b>3GPP Rel-6</b>		<b>New TS structure – see next slide</b>

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# Status of Rel-6 Feature: Charging Management: CH (3/4)



- SA5 proposed NEW structure and content of the Rel-6 Charging TSs



# ***Status of Rel-6 Feature: Charging Management: CH (4/4)***



## **Requests to SA:**

1. to agree the new structure of the Rel-6 Charging TSs.
2. to approve 1 Feature & 3 BBs revised WIDs in **SP-030047/8/9/50**.
3. to accept delaying TSG Approval target from **09/2003** to **03/2004**.

### **NOTE:**

the delay of the approval dates is not at all related to the restructuring of the TSs.

The reason for later dates are the huge amount of work and the expected time needed to stabilize the stage2/architecture for all the Rel-6 features/services that SA5 need to provide charging for - and of course SA5 need to add 3-6 months to the time when these baseline documents are considered stable (expected **09/2003**).

# Future SA5 Meetings



Meeting	Date	Location	Host
SA5#33bis	07-11 Apr 2003	Berlin, GERMANY	EF3
SA5#34	19-23 May 2003	Sophia Antipolis, FRANCE	ETSI
TSG#20	03-12 Jun 2003	HÄMEENLINNA, FINLAND	NOKIA
SA5#34bis	14-18 Jul 2003	Cork, IRELAND	Motorola
SA5#35	01-05 Sep 2003	Shanghai CHINA	CMCC
TSG#21	16-25 Sep 2003	Berlin, GERMANY	EF3
SA5#35bis	06-10 Oct 2003	New Orleans, USA	NA Friends
SA5#36	17-21 Nov 2003	Europe	EF3
TSG#22	09-18 Dec 2003	Hawaii, USA	
SA5#33	04-13 Feb 2004	Sophia Antipolis, FRANCE	ETSI
TSG#23	Mar 2004		

# ***Abbreviations commonly used in SA5***



<b>BS</b>	<b>Billing System</b>
<b>CDR</b>	<b>Charging Data Record</b>
<b>CM</b>	<b>Configuration Management</b>
<b>CMIP</b>	<b>Common Management Information Protocol</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>IRP</b>	<b>Integration Reference Point</b>
<b>IS</b>	<b>Information Service</b>
<b>MOC</b>	<b>Managed Object Class</b>
<b>NRM</b>	<b>Network Resource Model</b>
<b>OS</b>	<b>Operations System</b>
<b>OSS</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>SOM</b>	<b>Service Operations Management</b>
<b>SS</b>	<b>Solution Set</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>
<b>TOM</b>	<b>Telecom Operations Map (TMF)</b>
<b>UML</b>	<b>Unified Modelling Language</b>
<b>WLAN</b>	<b>Wireless Local Area Network</b>

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

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## SA5 Documents provided to this Plenary

SA Tdoc#	Title
<b>SP-030040</b>	Status report of SA5 to SA #19
<b>SP-030041</b>	Draft Rel-6 TS 32140 v200 Telecommunication management; Services operations management; Subscription management requirements
<b>SP-030042</b>	Draft Rel-6 TS 32141 v100 Telecommunication management; Services operations management; Subscription management architecture
<b>SP-030043</b>	Rel 5 CR 32.101 (Telecommunication management; Principles and high level requirements) : Align QoS Terminology with SA2's 23.207 & CN3's 29.207
<b>SP-030044</b>	Reply LS from SA5 to 3GPP2 on "Completion of R4-based 3GPP2 OAM&P Delta Specification (S.S0028-A)"
<b>SP-030045</b>	Reply LS to OMA Requirements Group (cc: SA, SA3, T, T2, T3) on OMA Device Management Requirements document
<b>SP-030046</b>	Proposal on NEW structure and content of the Charging TSs 32.2xx Rel-6
<b>SP-030047</b>	Revised SP-020729 Rel-6 Feature WID on Charging Management
<b>SP-030048</b>	Revised SP-020730 Rel-6 BB (BB1) WID on Charging Management for Bearer level
<b>SP-030049</b>	Revised SP-020731 Rel-6 BB (BB2) WID on Charging Management for the IM Subsystem
<b>SP-030050</b>	Revised SP-020732 Rel-6 BB (BB3) WID on Charging Management for the Service domain
<b>SP-030051</b>	Reply LS to SA2, SA1 (cc: SA) on Charging Implications of 3GPP System – WLAN Interworking
<b>SP-030052</b>	Reply LS to T2 (cc: GSMA, SA, T) on Alignment of MMS Message Size definition
<b>SP-030053</b>	3 Rel-99/4/5 CRs 32.015/32.200 (PS/Bearer Charging): "Correction of M-CDR usage"
<b>SP-030054</b>	2 Rel-4/5 CRs 32.205 (CS Charging): "CDR correction for data services over Iu-interface - alignment with SA1's 22.002"
<b>SP-030055</b>	2 Rel-5 CRs 32.200/32.215 (PS/Bearer Charging) : "Addition of SGSN's Mobile Country Code (MCC) and Mobile Network Code (MNC) on G-CDR - alignment with CN4's 29.060"
<b>SP-030056</b>	Rel-5 CR 32.205 (CS Charging): "Corrections to ASN.1 Syntax associated with Wireless Number Portability (WNP)"
<b>SP-030057</b>	11 Rel-5 CRs 32.225 Charging data description for the IP Multimedia Subsystem (IMS)
<b>SP-030058</b>	2 Rel-4/5 CRs 32.235 (Service Charging): "Corrections on MMS addressing - alignment with T2's 23.140 (MMS stage 2)"
<b>SP-030059</b>	2 Rel-4/5 CRs 32.235 (Service Charging): "Correction of Message Size Definition - alignment with T2's 23.140"
<b>SP-030060</b>	Rel-5 CR 32.235 (Service Charging): "Add support of VASP in MMS Charging - alignment with T2's 23.140"
<b>SP-030061</b>	2 Rel-4/5 CRs 32.102 (Telecommunication management; Architecture) "Add New Subclause to IS Template for Notification Related IOCs"
<b>SP-030062</b>	4 Rel-4/5 CRs 32111-2 & -3 (Fault Management; Alarm Integration Reference Point (IRP): Information Service, CORBA solution set) "Add Missing ITU-T M.3100 Probable Causes"
<b>SP-030063</b>	4 Rel-4/5 CRs 32111-2 & -4 (Fault Management; Alarm Integration Reference Point (IRP): Information Service, CMIP solution set) "Corrections regarding Alarm Acknowledgement and Alarm Comments - alignment with 32.111-1"
<b>SP-030064</b>	3 Rel-4/5 CRs 32111-3, 32.303 (Fault Management; Part 3: Alarm IRP; CORBA solution set & Configuration Management (CM); Notification IRP; CORBA solution set)
<b>SP-030137</b>	"Correction of CORBA_ALARM_IRP_VERSION in line with adopted Rel-5 policy" 4 Rel-4/5 CRs 32303 (Configuration Management (CM); Notification Integration Reference Point (IRP); CORBA solution set)
<b>SP-030138</b>	4 Rel-5 CRs 32111-2,-3 & -4 (Fault Management; Alarm IRP: Information Service, CORBA & CMIP solution sets)
<b>SP-030139</b>	2 Rel-5 CRs 32.603 (Basic Configuration Management IRP: CORBA SS)
<b>SP-030140</b>	2 Rel-5 CRs 32.613 (Bulk Configuration Management IRP; CORBA SS)
<b>SP-030141</b>	2 Rel-4/5 CRs 32.623 (Configuration Management (CM); Generic network resources IRP: CORBA SS)
<b>SP-030142</b>	2 Rel-4/5 CRs 32.632 (Configuration Management (CM); Core Network Resources IRP: Network Resource Model)
<b>SP-030143</b>	2 Rel-5 CRs 32.663 & 32.673 (CORBA solution sets of: Kernel Configuration Management & State Management IRP)
<b>SP-030144</b>	2 Rel-5 CRs 32.602 & 32.603 (Basic Configuration Management IRP information service & CORBA SS) " Add post-condition for notifications of each activeCM operation and one exception for createMO"
<b>SP-030145</b>	4 Rel-6 CRs 32.661/2/3/4 (Kernel Configuration Management: requirements/ information service/ CORBA & CMIP solution set) "Add requirement for the emission of notifyCMSynchronizationRecommended notification"
<b>SP-030146</b>	2 Rel-4/5 CRs 32.403 (Performance measurements - UMTS and combined UMTS/GSM) "Correction of the subscriber number measurement definitions"
<b>SP-030147</b>	Rel-6 CR 32.421 (Subscriber and equipment trace: Trace concepts and requirements) "Corrections to Trace requirements - alignment with SA2's 23.002"

# ***Feature: Subscription Management (SM)***



## **SA approval is requested for**

**SP-030041** Draft Rel-6 TS 32140 v200 Telecommunication management; Services operations management; Subscription management requirements

## **SA is invited to note**

**SP-030042** Draft Rel-6 TS 32141 v100 Telecommunication management; Services operations management; Subscription management architecture

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



## **SA is invited to note**

**SP-030044** Reply LS from SA5 to 3GPP2 on "Completion of R4-based 3GPP2 OAM&P Delta Specification (S.S0028-A)"

## **SA approval is requested for**

**SP-030043** Rel 5 CR 32.101 (Telecommunication management; Principles and high level requirements) : Align QoS Terminology with SA2's 23.207 & CN3's 29.207

**SP-030061** 2 Rel-4/5 CRs 32.102 (Telecommunication management; Architecture) "Add New Subclause to IS Template for Notification Related IOCs"

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# ***BB: Performance Management (OAM-PM)***



## **SA approval is requested for**

**SP-030146**

**2 Rel-4/5 CRs 32.403 (Performance measurements - UMTS and combined UMTS/GSM) "Correction of the subscriber number measurement definitions"**

**Creation of**

**Rel-5 TS 52.402 (Performance Management (PM); Performance measurements - GSM) as no CR is anymore expected**

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# ***BB: User Equipment Management (OAM-UEM)***



**SA is invited to note**

**SP-030045** Reply LS to OMA Requirements Group (cc: SA, SA3, T, T2, T3)  
on OMA Device Management Requirements document



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



**WTC1 RG (Maintenance of 32.6xx series)**

**SA approval is requested for**

- SP-030139** 2 Rel-5 CRs 32.603 (Basic Configuration Management IRP: CORBA SS)
- SP-030140** 2 Rel-5 CRs 32.613 (Bulk Configuration Management IRP; CORBA SS)
- SP-030141** 2 Rel-4/5 CRs 32.623 (Configuration Management (CM); Generic network resources IRP: CORBA SS)
- SP-030142** 2 Rel-4/5 CRs 32.632 (Configuration Management (CM); Core Network Resources IRP: Network Resource Model)
- SP-030143** 2 Rel-5 CRs 32.663 & 32.673 (CORBA solution sets of: Kernel Configuration Management & State Management IRP)

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



**WTC2 RG (Maintenance of 32.111-x & 32.3xx series)**

## **SA approval is requested for**

- SP-030062** 4 Rel-4/5 CRs 32111-2 & -3 (Fault Management; Alarm Integration Reference Point (IRP): Information Service, CORBA solution set) "Add Missing ITU-T M.3100 Probable Causes"
- SP-030063** 4 Rel-4/5 CRs 32111-2 & -4 (Fault Management; Alarm Integration Reference Point (IRP): Information Service, CMIP solution set) "Corrections regarding Alarm Acknowledgement and Alarm Comments - alignment with 32.111-1"
- SP-030064** 3 Rel-4/5 CRs 32111-3, 32.303 (Fault Management; Part 3: Alarm IRP; CORBA solution set & Configuration Management (CM); Notification IRP; CORBA solution set) "Correction of CORBA ALARM\_IRP\_VERSION in line with adopted Rel-5 policy"
- SP-030137** 4 Rel-4/5 CRs 32303 (Configuration Management (CM); Notification Integration Reference Point (IRP); CORBA solution set)
- SP-030138** 4 Rel-5 CRs 32111-2,-3 & -4 (Fault Management; Alarm IRP: Information Service, CORBA & CMIP solution sets)

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



**WT04 RG (Alignment of CMCC/SA5 CM framework)**

## **SA approval is requested for**

- SP-030144** 2 Rel-5 CRs 32.602 & 32.603 (Basic Configuration Management IRP information service & CORBA SS) " Add post-condition for notifications of each activeCM operation and one exception for createMO"
- SP-030145** 4 Rel-6 CRs 32.661/2/3/4 (Kernel Configuration Management: requirements/ information service/ CORBA & CMIP solution set) "Add requirement for the emission of notifyCMSynchronizationRecommended notification"

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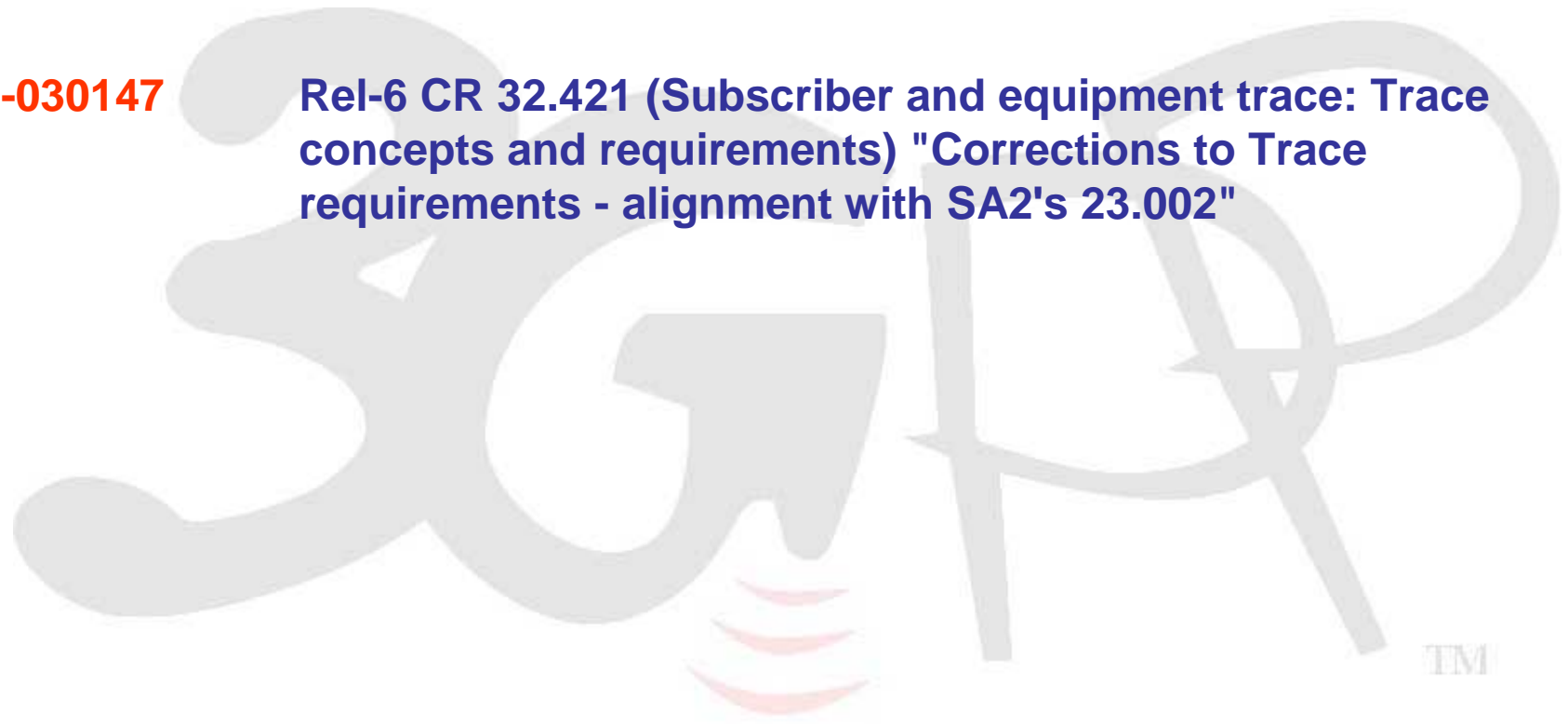
## ***BB: Trace Management (OAM-Trace)***



## **SA approval is requested for**

**SP-030147**

**Rel-6 CR 32.421 (Subscriber and equipment trace: Trace concepts and requirements) "Corrections to Trace requirements - alignment with SA2's 23.002"**



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## *Feature: Charging Management (CH)*



# SA approval is requested for

- SP-030046** Proposal on NEW structure and content of the Charging TSs 32.2xx Rel-6
- SP-030047** Revised SP-020729 Rel-6 Feature WID on Charging Management
- SP-030048** Revised SP-020730 Rel-6 BB (BB1) WID on Charging Management for Bearer level
- SP-030049** Revised SP-020731 Rel-6 BB (BB2) WID on Charging Management for the IM Subsystem
- SP-030050** Revised SP-020732 Rel-6 BB (BB3) WID on Charging Management for the Service domain

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# BB: Charging Management for Bearer level (CH-BC)



## SA is invited to note

**SP-030051** Reply LS to SA2, SA1 (cc: SA) on Charging Implications of 3GPP System – WLAN Interworking

## SA approval is requested for

**SP-030053** 3 Rel-99/4/5 CRs 32.015/32.200 (PS/Bearer Charging): "Correction of M-CDR usage"

**SP-030054** 2 Rel-4/5 CRs 32.205 (CS Charging): "CDR correction for data services over lu-interface - alignment with SA1's 22.002"

**SP-030055** 2 Rel-5 CRs 32.200/32.215 (PS/Bearer Charging) : "Addition of SGSN's Mobile Country Code (MCC) and Mobile Network Code (MNC) on G-CDR - alignment with CN4's 29.060"

**SP-030056** Rel-5 CR 32.205 (CS Charging): "Corrections to ASN.1 Syntax associated with Wireless Number Portability (WNP)"

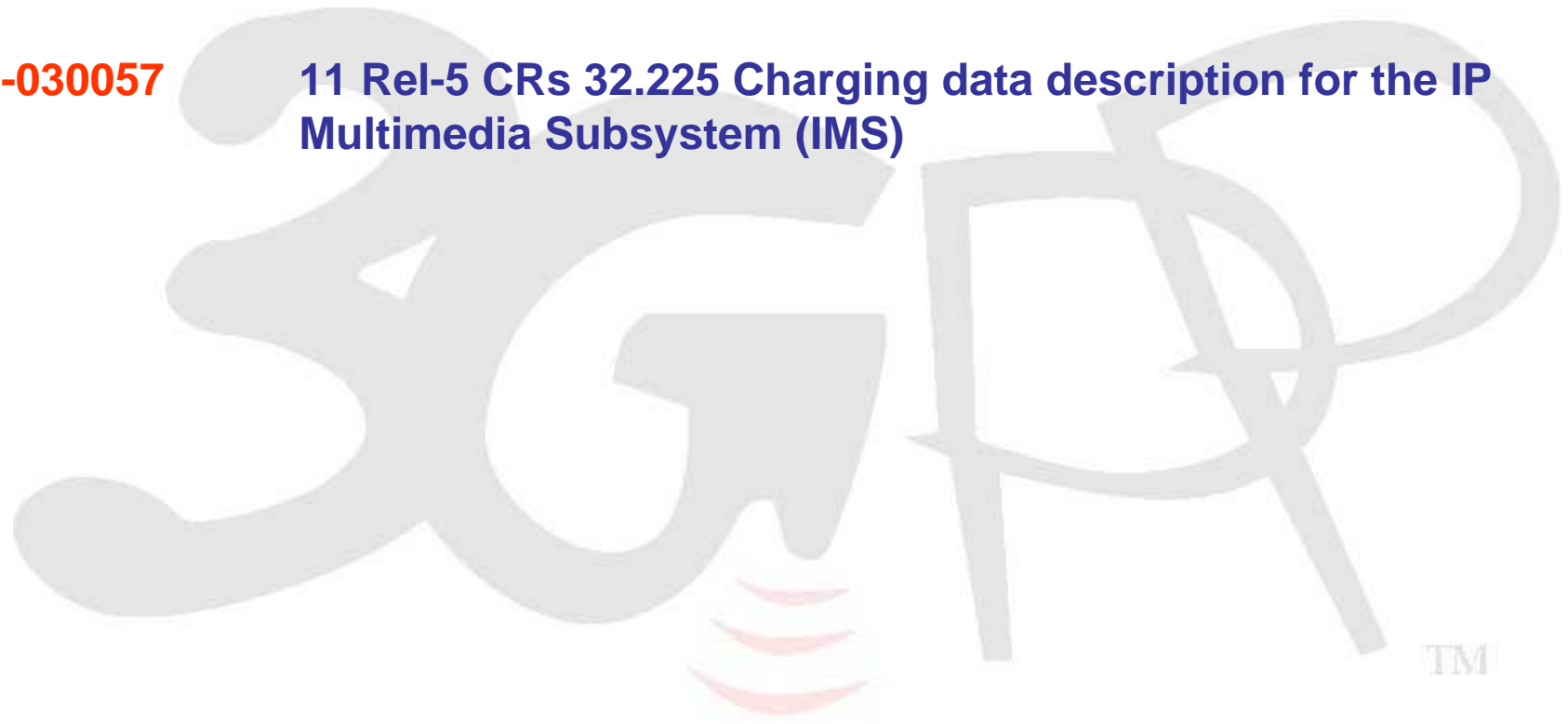
# BB: Charging Management for the IMS (CH-IC)



SA approval is requested for

**SP-030057**

11 Rel-5 CRs 32.225 Charging data description for the IP  
Multimedia Subsystem (IMS)



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# BB: Charging Management for the Service domain (CH-SC)



## SA is invited to note

**SP-030052** Reply LS to T2 (cc: GSMA, SA, T) on Alignment of MMS Message Size definition

## SA approval is requested for

**SP-030058** 2 Rel-4/5 CRs 32.235 (Service Charging): "Corrections on MMS addressing - alignment with T2's 23.140 (MMS stage 2)"

**SP-030059** 2 Rel-4/5 CRs 32.235 (Service Charging): "Correction of Message Size Definition - alignment with T2's 23.140"

**SP-030060** Rel-5 CR 32.235 (Service Charging): "Add support of VASP in MMS Charging - alignment with T2's 23.140"

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***The End***

***See you next time !***

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***Background material***

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# *Telecom Management Standards produced by SA5*



<b>R99, Rel-4/5/6</b>	32.102	Principles and high level requirements
	32.104	Telecommunication management; <b>Architecture</b>

<b>Rel-4/5</b>	32.800	Management level procedures and interaction with UTRAN
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<b>Rel-5</b>	32.802	User Equipment Management (UEM) feasibility study
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# Subscription Management



Rel-6

32.140	Services operations management; <b>Subscription management</b> requirements
32.141	Services operations management; Subscription management architecture



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**R99 ,  
Rel-4/5/6**

32.111-1	<b>Fault Management</b> requirements
32.111-2	FM; Part 2: Alarm IRP; IS
32.111-3	FM; Part 3: Alarm IRP; CORBA SS
32.111-4	FM; Part 4: Alarm IRP; CMIP SS

**R99**

32.106-1	<b>Configuration Management</b> ; Concept and requirements
32.106-2	CM; Part 2: Notification IRP IS
32.106-3	CM; Part 3: Notification IRP; CORBA SS
32.106-4	CM; Part 4: Notification IRP; CMIP SS
32.106-5	CM; Part 5: Basic CM IRP information model (including NRM)
32.106-6	CM; Part 6: Basic CM IRP CORBA SS
32.106-7	CM; Part 7: Basic CM IRP CMIP SS
32.106-8	CM; Part 8: Name convention for Managed Objects

# Network Infrastructure Management

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**Rel-4/5**

32.300	<b>Configuration Management</b> ; Name convention for Managed Objects
32.301	CM Notification IRP: requirements
32.302	CM Notification IRP; Information Service
32.303	CM Notification IRP; CORBA solution set
32.304	CM Notification IRP: CMIP solution set
32.311	<b>Generic IRP management</b> ; Requirements
32.312	Generic IRP management; Information service

**Rel-5/6**

32.321	<b>Test management IRP</b> ; Requirements
32.322	Test management IRP; Information service
32.323	Test management IRP; CORBA solution set
32.324	Test management IRP; CMIP solution set

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# Network Infrastructure Management

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Rel-  
4/5/6

32.600	<b>Configuration Management</b> ; Concept and high-level requirements
32.601	<b>Basic CM IRP</b> : requirements
32.602	Basic Configuration Management IRP information service
32.603	Basic Configuration Management IRP: CORBA solution set
32.604	Basic CM IRP CMIP solution set
32.611	<b>Bulk CM IRP</b> ; Requirements
32.612	Bulk CM IRP; Information service
32.613	Bulk CM IRP; CORBA solution set
32.614	Bulk CM IRP; CMIP solution set
32.615	Bulk CM IRP; XML file format definition

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# Network Infrastructure Management

Rel-4/5/6

32.621	<b>CM Generic network resources IRP:</b> requirements
32.622	CM Generic network resources IRP: Network Resource Model (NRM)
32.623	CM Generic network resources IRP: CORBA solution set
32.624	CM Generic network resources: IRP CMIP solution set
32.631	<b>CM Core network resources IRP:</b> requirements
32.632	CM Core Network Resources IRP: NRM
32.633	CM Core network resources IRP: CORBA solution set
32.634	CM Core network resources IRP: CMIP solution set
32.641	<b>CM UTRAN network resources IRP:</b> requirements
32.642	CM UTRAN network resources IRP: NRM
32.643	CM UTRAN network resources IRP: CORBA solution set
32.644	CM UTRAN network resources IRP: CMIP solution set
32.651	<b>CM GERAN network resources IRP:</b> requirements
32.652	CM GERAN network resources IRP: NRM
32.653	CM GERAN network resources IRP: CORBA solution set
32.654	CM GERAN network resources IRP: CMIP solution set

Rel-5/6

32.625	CM <b>Generic</b> network resources IRP: Bulk CM <b>XML</b> file format definition
32.635	CM <b>Core</b> network resources IRP: Bulk CM <b>XML</b> file format definition
32.645	CM <b>UTRAN</b> network resources IRP: Bulk CM <b>XML</b> file format definition
32.655	CM <b>GERAN</b> network resources IRP: Bulk CM <b>XML</b> file format definition

Rel-5/6

32.661	<b>Kernel CM</b> requirements
32.662	Kernel CM information service
32.663	Kernel CM CORBA solution set
32.664	Kernel CM IRP: CMIP solution set
32.671	<b>State Management IRP</b> : Requirements
32.672	State Management IRP: Information service
32.673	State Management IRP: CORBA Solution set
32.674	State Management IRP: CMIP Solution set
32.691	<b>Inventory management network resources IRP</b> : Requirements
32.692	Inventory management network resources IRP: Network resource model

# Performance Management

**R99** { 32.104 **Performance Management**

**Rel-4/5/6** {

32.401	<b>Performance Management</b> ; Concept and requirements
52.402	<b>Performance measurements - GSM</b>
32.403	Performance measurements - UMTS and combined UMTS/GSM

**Rel-6** {

32.411	<b>Performance Management IRP</b> ; Requirements
32.412	PM IRP; Information services
32.413	PM IRP; CORBA solution set

# *Trace Management*

Rel-6

32.421	<b>Subscriber and equipment trace: Trace concepts and requirements</b>
32.422	<b>Trace control and Configuration Management</b>
32.423	<b>Trace data definition and management</b>



# Charging Management

**R99** {

32.005	Call and event data for the <b>CS domain</b>
32.015	Call and event data for the <b>PS domain</b>

**Rel-4/5** {

32.200	Charging <b>Principles</b>
32.205	Charging data description for the <b>CS domain</b>
32.215	Charging data description for the <b>PS domain</b>
32.235	Charging data description for <b>application services</b>

**Rel-5**

32.225	Charging data description for the <b>IP Multimedia Subsystem (IMS)</b>
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