S5-020400

TSG-SA5 (Telecom Management)
Report of Meeting #28, Sophia Antipolis, 20 - 24 May 2002

Contents

Chair:	Michael TRUSS (Motorola Ltd)
Vice-Chair:	Thomas RICHTER (Cingular Wireless)
Vice-Chair:	Christian TOCHE (Nortel Networks)
Secretary:	Adrian ZOICAS (3GPP Mobile Competence Centre)
Meeting Host:	ETSI
Web:	http://www.3gpp.org/TB/SA/SA5/SA5.htm
Main E-mail List:	3GPP_TSG_SA_WG5@LIST.ETSI.FR
Server:	http://www.3gpp.org/ftp/TSG_SA/WG5_TM ftp://ftp.3gpp.org/TSG_SA/WG5_TM

1   Call to order

Michael TRUSS (Motorola Ltd), SA5 Chair, called the meeting to order on Thursday 03.45 PM.

2   Participant registration

56 delegates attended the meeting. The list of participants can be found in Annex C.

3   Agenda approval

S5-020401	Draft Agenda		TB Chair	Agenda	Approved
S5-020402	Meeting Plan		TB Chair	Schedule	Approved

The draft agenda proposed by the Chair was approved without modification and can be found in annex A.

New documents were registered. More discipline was again requested for submitting meeting contributions at least five (5) working days before the respective meeting starts. The list of meeting documents can be found in Annex B.

Document S5DocLst.doc contains the Year 2002 Document List, which is continuously updated. The latest version can be found at http://www.3gpp.org/ftp/TSG_SA/WG5_TM/S5DocLst.zip

3.1   IPR (Intellectual Property Rights) declarations

The Chair reminded the "Article 55: Intellectual Property Rights (IPR) Policy" of the 3GPP Working Procedures:

- ?? Individual Members shall be bound by the IPR Policy of their respective Organizational Partner.
- ?? Individual Members should declare at the earliest opportunity, any IPRs, which they believe to be essential, or potentially essential, to any work ongoing within 3GPP.
- ?? Organizational Partners should encourage their respective members to grant licences on fair, reasonable terms and conditions and on a non-discriminatory basis.
- ?? The PCG shall maintain a register of IPR declarations relevant to 3GPP, received by the Organizational Partners.

The Chair invited the delegates to declare IPRs - relevant to the 3GPP - they are aware of and there were no declarations received. The List of IPR declarations sorted by Organizational Partners can be found at: http://www.3gpp.org/legal/legal.htm

4   Meetings and activities reports

4.1   Last SA5 meeting report

The draft report v200 of the last SA5 meeting (S5-020317) was approved without changes. The approved report is contained in S5-020300, which can be found at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_27/Report/

S5-020317	Draft V2.0.0 Report SA5#27	Secretary	Approved. Updated to 300.

4.2   Last TSG-SA meeting

There was no SA meeting since SA5#27 meeting in Cork.

4.3   Liaison Rapporteurs' reports

4.4   Inter-organizational communication reports

All incoming LSs were previewed during the Leaders' meeting (Monday), and allocated to SWGs for recommendation on handling. During the plenary (Thursday) incoming LSs were briefed under this agenda item.

The list of incoming Liaison Statements together with the corresponding replies are given in Annex B.1 Liaison Statements

4.4.1   AWS request to Vote to align 3GPP Notifications with ITU

SA5 decided by correspondence to have a secret rather than an open Vote as decided at SA5#27 in Cork.

S5-020437	Voting list valid for 3GPP TSG SA WG 5 meeting #28	MCC	Noted.
S5-020440	Ericsson's analysis and considerations regarding ITU-T Notification alignment vote	Ericsson	Noted.
S5-020441	AWS Proposed Vote to Align 3GPP Notifications With ITU (update of 238)	AWS	Withdrawn

AWS withdraw its request to vote on the grounds of changed situation in the ITU and believes that the matter will be resolved in the SWGC.

SA5 decided to refer the matter back to SWGC for further study.

4.5   Other reports

5   Discussions and decisions on SA5 administrative issues

6   Sub-Working Group reports and actions

6.1   SWGA - Telecom Management Architecture and Requirements

Chair: Michael TRUSS (MOTOROLA)
Vice-Chair: Tommy BERGGREN (Telia)

Area of Responsibility

    WI: Architecture (32.101), Principles & Requirements (32.102)
                 Subscription Management (SM) (32.140),
                 User Equipment Management Feasibility Study (UEM) (32.802)
                 UTRAN-OAM (32.800)

    Liaison: CN5 (OSA Management)
                 TMF (MMC, MTEM),
                 ITU-T SG4 (Architecture / Conformance)

S5-022053	SWGA Report to SA5	SWGA Chair	rev as 303
S5-020403	SWGA Presentation to SA5#28 plenary	SWGA Chair	rev of 2053. Noted

SWGA Report encompasses Architecture (32.101) and Principles (32.102), Subscription Management (32.140), User Equipment Management (TR 32.802) and UTRAN OAM (TR 32.800).

The RG reports will be distributed to the SA5 exploder **at the latest one week after the closure** of the present meeting.

6.1.1   Charging and OAM&P (Rel-5 Feature: OAM)

Work Item Type: Feature	Work Item ID	Specifications	Work Item Description
Charging and Operations, Administration, Maintenance & Provisioning (OAM&P)	OAM	32.000-series / 52.000-series	SP-010461 (S5-010527)

90% complete (OAM Feature: 32.000-/52.000-series)

TSG approval target delayed from 06/2002 to 09/2002

This Features contains the following SA5 Building Blocks:

Work Item Type: Building Block	Work Item ID	Specifications	Work Item Description
Principles, high-level requirements and architecture	OAM-AR	32.101, 32.102	SP-010461 (S5-010525)
Performance Management	OAM-PM	32. 400-series / 52.400-series	SP-010238 (S5-010489)
Network Infrastructure Management	OAM-NIM	32.300-/32.600-series	SP-010461 (S5-010562)
Charging Management	OAM-CH	32.200-series	SP-010654

NOTE: SWGA has started the planning for Rel-6, the other SWGs were asked to do the same so that in September 2002 the Rel-6 WID for the OAM Feature and the related Building Blocks are submitted to SA for approval.

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020414	LS copy from N3 to S5 : Liaison Statement on 'IPv6 update of stage 3 specifications'	N3-020361	LS in	A+B	Noted. No reply needed yet.
S5-020416	LS from N4 to S5 : Liaison Statement on TS 23.008: Organisation of subscriber data (S5-022016/SA5 SWGA)	N4-020532	LS in	A	Noted. No reply needed yet.
S5-020418	LS copy from S5 to S5 : Reply to 'IP version inter-working on the transport plane' from SA2 (S5-020112)	S5-020320	LS in	n.a.	Noted. No reply needed yet.
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in	A+All	Noted. No reply needed yet.
S5-020422	LS from S2 to S5 : LS on Presence Service	S2-021499	LS in	A+B	Noted. No reply needed yet.
S5-020423	LS from S2 to S5 : Liaison Statement on GUP work progress	S2-021513	LS in	A	Noted. No reply needed yet.
S5-020425	LS copy from S2 to S5 : Response to the LS on 'IPv6 update of stage 3 specifications'	S2-021521	LS in	A+B	Noted. No reply needed yet.
S5-020427	LS from SA2 to SA1 (copy SA5, T2) on GUP Work Item Description and DDF	S2-021514	LS in	A	Noted. No reply needed yet.
S5-020430	LS-reply from SA4 to SA5 on PSS Rel-6 work programme	S4-020346	LS in	A+B	Noted. No reply needed yet.
S5-020431	LS-reply from T2 to SA5 (T2-020361/S5-020433) on UEM and TR 32.802	T2-020434	LS in	A	Reply in 2050
S5-020432	LS-reply from T2 to SA5 (S5-022007) on Service Operations Management	T2-020527	LS in	A	Reply in 2047
S5-020445	LS-reply from RAN2 to SA1 (copy SA5) on Priority Service Feasibility Study	R2-021469	LS in	A+B	Noted. No reply needed yet.
S5-020447	LS from SA1 to SA (copy SA5) on draft Push stage 1 for information	S1-021195	LS in	A+B	Noted. No reply needed yet.
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**
S5-022046	LS-reply to SA2 (copy: T2, SA1) on GUP work progress (Rel-6 WI Subscription Management)	SWGA	LS out	A	Reply to 415 & 426
S5-022047	LS-reply to T2 (copy: CN5, SA1, SA2) on MMS Connectivity (WI Service Operation Management)	SWGA	LS out	A	Reply to 432
S5-022048	LS to SA2 (copy T2) on Entities of the mobile system (Rel-5 WI Charging & OAM&P)	SWGA	LS out	A	

6.1.1.1 Principles, high-level requirements & architecture (Rel-5 BB: OAM-AR) - 32.101/2

Work Item Type: Building Block	Work Item ID	Specifications	Work Item Description
Principles, high-level requirements and architecture	OAM-AR	32.101, 32.102	SP-010461 (S5-010525)

Rapporteur 32.101:   Michael TRUSS (MOTOROLA)
Rapporteur 32.102:   Tommy BERGGREN (Telia)

BB Principles, high-level requirements and architecture BB (OAM-AR) is 100% complete

3G Entities Management Map (EMM)/ Service Specific Entities (SSEs):   draft Rel-5 CR was discussed with general acceptance however due to differences from 3GPP architecture will be liased to SA2 for input.

IRP Terminology updates and Annexes 32.101/32.102:   draft Rel-5 CRs partially agreed however decision was postponed to SA5#29 Beijing for potential larger re-work.

6.1.2 User Equipment Management (Rel-5 Feasibility Study) - 32.802

Work Item Type: Feature	Work Item ID	Specifications	Work Item Description
User Equipment Management - Feasibility Study	UEM	32.802	SP-010286 (S5-010463)

Rapporteur: John MUDGE (Vodafone Group)

The draft TR 32.802 was agreed for submission to SA#16 for Approval. Hence, the "UEM" WI is 100% completed. The target 06/2002 for TSG approval was met. The good co-operation with T2 (SWG2), co-owner of this work item, was emphasised.

A draft Rel-6 WID was produced (S5-022050), which will be refined and submitted to SA#17 for Approval in 09/2002.

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020427	LS from SA2 to SA1 (copy SA5, T2) on GUP Work Item Description and DDF	S2-021514	LS in	A	Noted. No reply needed yet.
S5-020431	LS-reply from T2 to SA5 (T2-020361/S5-020433) on UEM and TR 32.802	T2-020434	LS in	A	Reply in 2050
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**
S5-020433	LS to T2 on User Equipment Management Feasibility Study (TR 32.802)	SWGA	LS out		email approved & dispatched before the meeting.
S5-022050	LS-reply to T2 on UEM and TR 32.802 (Rel-5 WI User Equipment Management (UEM) Feasibility Study)	SWGA	LS out	A	Reply to 431

6.1.3 Subscription Management (Rel-5 Feature: SM) - 32.140

Work Item Type: Feature	Work Item ID	Specifications	Work Item Description
Subscription Management	SuM	32.140	SP-000524 (S5-000568)

Rapporteur: Geoffrey CARYER (BT)

Feature moved from Rel-5 to Rel-6 because:

- ?? SM is closely linked to GUP which was also moved to Rel-6;Stage 1 TS 32.140 submitted to SA#15 for Information is 95% complete;

- ?? Stages 2 and 3 are 10% complete.

Problems:

?? No Rapporteur available for Rel-6 work;

?? Changed participation in SA5 reduces the number of supporting organisations of this Work Item to only two (2).

Rel-6 WID to be submitted in 09/2002 if solutions to the above problems can be found.**Liaison Statements:**

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020423	LS from S2 to S5 : Liaison Statement on GUP work progress	S2-021513	LS in	A	Noted. No reply needed yet.
S5-020427	LS from SA2 to SA1 (copy SA5, T2) on GUP Work Item Description and DDF	S2-021514	LS in	A	Noted. No reply needed yet.
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**

6.2   SWGB

Chair: Karl-Heinz NENNER (T-Mobile)

Area of Responsibility

WI: Charging (32.200-series)Liaison: GSM Association (BARG, IREG, SERG)
T2 (MMS charging),
CN5 (OSA Charging),
IETF-AAA (Diameter)

6.2.1   Charging Management (Rel-5 Building Block: OAM-CH) - 32.2xy

Work Item Type: Building Block	Work Item ID	Specifications	Work Item Description
Charging Management	OAM-CH	32.200-series	SP-010654

Rapporteur Charging Principles: Hans AHLBÄCK (Ericsson) - 32.200
Rapporteur CS Domain Charging: James BENDER (Nortel) - 32.205, 32.005
Rapporteur PS Domain Charging: Matthias LEHNERT (Alcatel) - 32.215, 32.015
Rapporteur IMS Charging: Ariel SHARON (Lucent) - 32.225
Rapporteur Service Charging: Gerald GOERMER (Siemens) - 32.235

BB: Charging Management (OAM-CH) : 85% complete

TSG approval target delayed from 06/2002 to 09/2002

Rel-6 WID to be submitted to SA#17 (09/02)

SWGB Report encompasses Charging Principles (32.200), CS Domain Charging (32.205), PS Domain Charging (32.215), IMS Charging (32.225) AND Service Charging (32.235).

S5-024175	SWGB Report to SA5	SWGB Chair	added to 304
S5-020404	SWGB Presentation to SA5#28 plenary	SWGB Chair	rev. of 4001. Noted

The RG reports will be distributed to the SA5 exploder at the latest one week after the closure of the present meeting.

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020412	LS from N1 to S5 : Liaison statement on Charging at I-CSCF (to: SWGB)	N1-020948	LS in	B	Reply in 4170
S5-020413	LS from N3 to S5 : LS on Multiple Codecs	N3-020356	LS in	B	Reply in 4171
S5-020414	LS copy from N3 to S5 : Liaison Statement on 'IPv6 update of stage 3 specifications'	N3-020361	LS in	A+B	Noted. No reply needed yet.
S5-020415	LS from N4 to S5 : Liaison Statement Response on 'Distribution of IMS charging ID (ICID) from GGSN to SGSN' (S5-024037/SA5 SWGB)	N4-020526	LS in	B	Reply in 4169
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in	A+All	Noted. No reply needed yet.
S5-020421	LS copy from S2 to S5 : Reply on LS on Multiple Codecs	S2-021304	LS in	B	Noted. No reply needed yet.
S5-020422	LS from S2 to S5 : LS on Presence Service	S2-021499	LS in	A+B	Noted. No reply needed yet.
S5-020424	LS from S2 to S5 : Liaison statement on Charging at I-CSCF	S2-021517	LS in	B	Reply in 4170
S5-020425	LS copy from S2 to S5 : Response to the LS on 'IPv6 update of stage 3 specifications'	S2-021521	LS in	A+B	Noted. No reply needed yet.
S5-020426	LS from S2 to S5 : Liaison statement response on "Distribution of IMS charging ID (ICID) from GGSN to SGSN"	S2-021522	LS in	B	Reply in 4169
S5-020428	LS-reply from T2 to SA5 on Joint Meeting SA5/CN5/T2 on MMS charging	T2-020513	LS in	B	Noted. No reply needed yet.
S5-020429	LS from SA4 to SA5 on Charging and Streaming Service Architecture	S4-020298	LS in	B	Noted. No reply needed yet.
S5-020430	LS-reply from SA4 to SA5 on PSS Rel-6 work programme	S4-020346	LS in	A+B	Noted. No reply needed yet.
S5-020442	LS from CN3 to SA5 on distribution of IMS charging ID (ICID) from PCF/P-CSCF to GGSN	N3-020507	LS in	B	Noted. No reply needed yet.
S5-020443	LS from CN4 to SA5 on 3GPP specific Diameter applications	N4-020732	LS in	B	Noted. No reply needed yet.
S5-020444	LS-reply from T2 to SA5 (S5-020196) on Charging Support for VASP MMS Connectivity	T2-020584	LS in	B	Noted. No reply needed yet.
S5-020445	LS-reply from RAN2 to SA1 (copy SA5) on Priority Service Feasibility Study	R2-021469	LS in	A+B	Noted. No reply needed yet.
S5-020446	LS-reply from SA1 to SA5 (S5-024033) on "3GPP SA1 MMS SWG"	S1-021100	LS in	B	Noted. No reply needed yet.
S5-020447	LS from SA1 to SA (copy SA5) on draft Push stage 1 for information	S1-021195	LS in	A+B	Noted. No reply needed yet.
S5-020448	LS-reply from T2 to BARG (copy SA5) on Message Size Measurement	T2-020569	LS in	B	Noted. No reply needed yet.
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**
S5-024169	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN	SWGB	LS out	B	Reply to 415 & 426
S5-024170	LS-reply to CN1, SA2 on Charging at I-CSCF	SWGB	LS out	B	Reply to 412 & 424
S5-024171	LS-reply to CN3 (copy: SA2, CN1) on Multiple Codecs	SWGB	LS out	B	Reply to 413

SA5 agreed the following CR for submission to SA for approval:

S5-024149		32.200	007	Rel-5	Clarifying the off-line IMS Charging architecture	F	5.0.0	5.1.0
S5-024115 (S5-024150)		32.200	008	Rel-5	Inclusion of content charging functions from 23.815	C	5.0.0	5.1.0
S5-024151		32.200	009	Rel-5	Inclusion of generic flows for event-based charging at the Ro reference point from 23.815	C	5.0.0	5.1.0
S5-024152		32.200	010	Rel-5	Adding definition for the Charging Collection Function (CCF)	B	5.0.0	5.1.0
S5-024164		32.215	012	Rel-5	Addition of an "IMS signalling PDP context" flag into G-CDR	B	5.0.0	5.1.0
S5-024163		32.215	011	Rel-5	Addition of external charging identifier into G-CDR	B	5.0.0	5.1.0
S5-024158	Joint-6	32.200	011	Rel-4	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	F	4.1.0	4.2.0
S5-024159	Joint-6	32.200	012	Rel-5	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	A	5.0.0	5.1.0
S5-024160	Joint-6	32.215	009	Rel-4	Correction of S-CDR triggers	F	4.2.1	4.3.0
S5-024161	Joint-6	32.215	010	Rel-5	Correction of S-CDR triggers	A	5.0.0	5.1.0
S5-024162	Joint-7	32.200	013	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS Charging Scenarios	F	4.1.0	4.2.0
S5-024154	Joint-7	32.235	002	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS CDRs and parameter definitions for Charging Scenarios	F	4.1.0	4.2.0
S5-024173	Joint-7	32.205	004	Rel-4	Corrections of parameter CallEventRecord	F	4.2.0	4.3.0
S5-024174	Joint-7	32.205	005	Rel-5	Corrections of parameter CallEventRecord	A	5.0.0	5.1.0
S5-024167	Joint-7	32.215	015	Rel-4	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	F	4.2.1	4.3.0
S5-024168	Joint-7	32.215	016	Rel-5	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	A	5.0.0	5.1.0
S5-024165	Joint-9	32.215	013	Rel-4	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	F	4.2.1	4.3.0
S5-024166	Joint-9	32.215	014	Rel-5	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	A	5.0.0	5.1.0

6.2.1.1   IMS Charging

SA5 noted the major evolution of Rel-5 draft TS 32.225 v150 "Charging data description for the IP Multimedia Subsystem" (S5-024172):

?? At present, most of the basic principles, the use of the Diameter protocol, on-line and off-line flows and (off-line) CDR content have all been agreed.

?? SA5 agreed to submit the evolved draft for the 2nod time to SA for Information.

?? SA5's target is to submit draft v200 to SA#17 (09-2002) for Approval and placement under TSG Change Control (CR regime); i.e. rising to v500.The IMS charging Rapporteur has stated that document TS 32.225 was prepared as a new TS for Rel-5 and now includes both online and offline specifications. It is now a fairly detailed and comprehensive document which was generated in a fairly short time and covers a lot of new concepts and technologies. Bringing the document to its current state required a substantial effort from all the group members. This is an achievement that everyone participating in the IMS charging RG should feel very proud of.

6.2.2   SWGB ad-hoc meetings

The main topic of SA5#29bis ad-hoc will be IMS charging. A joint session with T2 experts on MMS charging will be held on Monday 19 Aug 2002 during the SA5#30 meeting the following week at the same venue (Convenor from SWGB-side will be Gerald GOERMER).

Meeting	Date	Location	Host
SA5#29 bis (SWGB)	12-16 Aug 2002	Tampere, FINLAND	NOKIA
SA5#30	19-23 Aug 2002	Tampere, FINLAND	NOKIA

6.3   SWGC: Telecom Network Infrastructure Management

Chair: Thomas TOVINGER (Ericsson)
Vice-Chair: Joerg SCHMIDT (MOTOROLA Inc.)
Vice-Chair: Frédéric BONNEAU (NORTEL Networks)

Area of Responsibility

WI: Configuration Management (CM) (R99 32.106, 32.600-series)
             Fault Management (FM) (32.111, 32.300-series)
             Performance Management (PM) - IRP portion (32.400-series)
             IRPs to support products of SWGA and SWGB

Liaison: ITU-T SG4 (CORBA, tML/XML)
             T1M1 (CORBA, TML)

SWGC Report encompasses Network Infrastructure Management (32.300/600-series and the R99 32.106,/32111-series).

S5-026001	SWGC Report to SA5	SWGC Chair	6.3 SWGC	Report	rev as 305
S5-020305	SWGC Report to SA5 (rev S5-026001 SWGC Presentation)	SWGC Chair	6.3 SWGC	Report	rev of 6001. Noted

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in	A+All	Noted. No reply needed yet.
S5-020420	Response to 3GPP SA5 Liaison S5-010788: '3GPP SA5 position regarding ITU-T SG4 on the use of CORBA' (SA5 SWGC)	ITU-T SG 4 (LS 22-4)	LS in	C	Noted. No reply needed yet.
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**

6.3.1   Network Infrastructure Management (Rel-5 BB OAM-NIM) - 32.3xy/6xy

Work Item Type: Building Block	Work Item ID	Specifications	Work Item Description
Network Infrastructure Management	OAM-NIM	32.300-/32.600-series	SP-010461 (S5-010562)

Track 1: covering "Configuration Management" related tasks

–WT08   CM Bulk Data transfer enhancements   – Rapporteur: T-Mobil (Tapinder PAL)

–WT09   Active CM introduction (non-bulk)   – Rapporteur: AWS (John WILBER)

–WT12   Extensions to the Core Network Resource Model   – Rapporteur: T-Mobil (Tapinder PAL)

–WT14   Inventory management   – Rapporteur: T-Mobil (Tapinder PAL)

–WT16   New Kernel CM IRP   – Rapporteur: AWS (John WILBER)

–WTC1   Maintenance of 32.6xx series (R5 improvement CRs / R4&R99 Error CRs) – Rapporteur: TBD/case-by-case

Track 2: covering "common", FM, State Management and PM related tasks

–WT02   Study the relevance of an alarm removal function   – Rapporteur: Ericsson (Edwin TSE)

–WT03   CORBA framework alignment with ITU-T SG4, notification handling part – Rapporteur: AWS (John WILBER)

–WT04   Impact of Trouble ticketing management on Itf-N   – Rapporteur: Ericsson (Edwin TSE)

–WT05   Notification Log IRP   – Rapporteur: Motorola (Jörg SCHMIDT)

–WT06   Test management   – Rapporteur: Siemens (Olaf POLLAKOWSKI)

–WT07	Security alarms	– Rapporteur: Ericsson (Edwin TSE)
–WT10	Extensions to the generic Network Resource Model	– Rapporteur: Siemens (Di ZHOU)
–WT11	State Management	– Rapporteur: Siemens (Martin Öttl)
–WT13	Possible new Solution Sets for existing IRPs	– Rapporteur: Siemens (Olaf POLLAKOWSKI)
–WT15	Alignment with 32.102	– Rapporteur: Ericsson (Thomas TOVINGER)
–WT17	Backwards Compatibility	– Rapporteur: Ericsson (Edwin TSE)
–WT18	Performance management	– Rapporteur: Ericsson
–WTC2	Maintain 32.111-x & 32.3xx (R5 improvement CRs / R4&R99 Error CRs)	– Rapporteur: TBD/case-by-case

BB: Network Infrastructure Management (OAM-NIM) : 70% completeTSG approval target delayed from to 06/2002 to 09/2002

Open issues:

- ?? All Requirement, IS/NRM & SS specifications need more time for completion;

- ?? At risk Trouble ticketing, Notification Log IRP, Inventory Management IRP.

In conjunction with the below Rel-5 CR 32.615 (transfer of each NRM-specific XML schema to the related 4 new Rel-5 TSs)

Doc-2nd-Level	Spec	CR	R	Phase	Subject	Cat	Ver Cur	Ver New	Workitem
S5-026262	32.615	003	-	Rel-5	New structure of specifications for the definition of Bulk CM IRP XML file formats	C	4.2.0	5.0.0	OAM-NIM

SA5 agreed to send to SA#16 for Information the following new draft Rel-5 specification(s)

TS	32.625	Telecommunication management; 3G Configuration Management; Generic network resources IRP: Bulk CM XML file format definition	Rel-5	1.0.0	BONNEAU, Frédéric
TS	32.635	Telecommunication management; 3G Configuration Management; Generic network resources IRP: Bulk CM XML file format definition	Rel-5	1.0.0	BONNEAU, Frédéric
TS	32.645	Telecommunication management; 3G Configuration Management; UTRAN network resources IRP: Bulk CM XML file format definition	Rel-5	1.0.0	BONNEAU, Frédéric
TS	32.655	Telecommunication management; 3G Configuration Management; GERAN network resources IRP: Bulk CM XML file format definition	Rel-5	1.0.0	BONNEAU, Frédéric

SA5 <mark>agreed</mark> to send to SA#16 for Information the following new draft Rel-5 specification(s)

TS	32.321	Telecommunication management; Test management IRP; Requirements	Rel-5	1.0.0	POLLAKOWSKI, Olaf
TS	32.322	Telecommunication management; Test management IRP; Information service	Rel-5	1.0.0	POLLAKOWSKI, Olaf
TS	32.323	Telecommunication management; Test management IRP; CORBA solution set	Rel-5	1.0.0	POLLAKOWSKI, Olaf
TS	32.324	Telecommunication management; Test management IRP; CMIP solution set	Rel-5	1.0.0	POLLAKOWSKI, Olaf

SA5 <mark>agreed</mark> to send to SA#16 for Information the following new draft Rel-5 specification(s)

TS	32.671	Telecommunication management; 3G Configuration Management; State Management IRP: Requirements	Rel-5	1.0.0	ZHOU, Di
TS	32.672	Telecommunication management; 3G Configuration Management; State Management IRP: Information service	Rel-5	1.0.0	ZHOU, Di

SA5 <mark>agreed</mark> the following CRs for submission to SA for approval:

S5-026239		32.111-3	016	Rel-4	Addition of 'indeterminate' probable cause in IDL definition	F	4.2.0	4.3.0
S5-026245	Joint-11	32.111-4	006	Rel-4	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	F	4.2.0	4.3.0
S5-026246	Joint-11	32.111-4	007	Rel-5	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	A	5.0.0	5.1.0
S5-026247		32.111-4	008	Rel-5	Addition of the parameter alarmListAlignmentRequirement to the notification notifyAlarmListRebuilt in the CMIP SS (32.111-4)	F	5.0.0	5.1.0
S5-026249		32.111-4	010	Rel-5	Introduction of SS (32.111-4) to IS (32.111-2) relation and correction of Foreword	F	5.0.0	5.1.0
S5-026248		32.111-4	009	Rel-5	Adding the notification notifyPotentialFaultyAlarmList in the CMIP SS (32.111-4)	F	5.0.0	5.1.0
S5-026250		32.304	007	Rel-5	Correction of erroneous notification header mapping table	F	5.1.0	5.2.0
S5-026251		32.304	008	Rel-5	Introduction of SS (32.304) to IS (32.302) relation and correction of Foreword	F	5.1.0	5.2.0
S5-026261		32.603	005	Rel-4	Correcting IDL definitions of notification structured event Name Value pair names	F	4.2.0	4.3.0
S5-026139		32.611	001	Rel-5	Adding Bulk CM IRP requirements for Rel-5	C	4.0.0	5.0.0
S5-026262		32.615	003	Rel-5	New structure of specifications for the definition of Bulk CM IRP XML file formats	C	4.2.0	5.0.0
S5-026240		32.624	008	Rel-4	Align with 32.622 (IS) by changing "userDefinedState" from read-only to read-write	F	4.3.0	4.4.0
S5-026241		32.631	001	Rel-5	Adding Core Network Management requirements over Interface-N for Rel-5	B	4.0.0	5.0.0

6.3.2   SWGC ad-hoc meetings

SA5#28bis ad-hoc will be hosted by CMCC in Beijing, CHINA, 20-21 June 2002, in order to discuss the CMCC contribution. Other SWGs (e.g. A & D) may wish to attend as well.

Meeting	Date	Location	Host
SA5#28-bis (CMCC)	**20-21 Jun 2002**	**Beijing, CHINA**	**CMCC**

6.4   SWGD: Performance Management / Trace Management Chair:

Christian TOCHE (Nortel Networks)

Area of Responsibility

WI: Performance Management (PM)
             Measurements, concepts and requirements (32.400/52.400 series)
             Subscriber and User Equipment (UE) tracing (32.108)

Liaison: CN1 (SIP)
             CN4 (Cx and Mc interfaces)
             RAN2 (RRC)
             RAN3 (RANAP)
             GERAN (A and Gb interfaces)
             ITU-T SG4 (IMT2000 Management)

SWGD Report encompasses Performance Management (PM) Concept and Requirements (32.401), PM Measurement Definitions (32.403, 52.402) and Subscriber and User Equipment (UE) tracing (32.108).

S5-028001	SWGD Report to SA5	SWGD Convenor	6.4 SWGD	Report	rev as 306
S5-020306	SWGD Report to SA5 (rev S5-028001 SWGD Presentation)	SWGD Convenor	6.4 SWGD	Report	rev of 8001. Noted

The RG reports will be distributed to the SA5 exploder at the latest one week after the closure of the present meeting.

SA5 approved the SWG-D Terms of Reference (S5-028139).

6.4.1 Performance Management (Rel-5 BB: OAM-PM) - 32/52.4xy

Work Item Type: Building Block	Work Item ID	Specifications	Work Item Description
Performance Management	OAM-PM	32. 400-series / 52.400-series	SP-010238 (S5-010489)

Rapporteur PM Concept and Requirements: Ulf HÜBINETTE (Ericsson) - 32.401
Rapporteur Measurement Definitions: Christian TOCHE (Nortel Networks) - 52.402, 32.403

BB: Performance Management (OAM-PM) : 95% completeTSG approval target delayed from to 06/2002 to 09/2002

Rel-6 WID to be submitted to SA#17 (09/02)

6.4.1.1 PM Concepts and Requirements

WT1: Performance Monitoring (•(Rel 5, 70% complete; Rel 6, 30% complete)

32.411	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Requirements	Rel-6 HÜBINETTE, Ulf

Submission to SA for Information delayed from 06/2002 to 09/2002.

WT2: File format and measurement template enhancement •(Rel 5, 70% complete)

A proposal for Measurement file XML schema was reviewed. An update is expected for SA5#29 meeting. Decision still to be made on the target release to introduce the XML schema and the target release to remove DTD XML format.

The following LS from ITU-T SG4 on TML was noted. Documents are expected for SA5#29 meeting.

S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in A+All	Noted. No reply needed yet.

WT3: PM Result file management (Rel-5, 100% complete)

Now addressed by PM IRP requirements in TS 32.411 (see WT1 above).

6.4.1.2 Measurement definitions

WT1: Measurement definitions for UMTS and combined GSM and UMTS systems (Rel-5, 90% complete)

SA5 agreed the following CRs for submission to SA for approval:

S5-028137	32.403	003	2	Rel-5	Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down process to define measurements for inclusion in future 3GPP Releases	F	4.2.0	5.0.0	OAM-PM
S5-028120	32.403	004	-	Rel-5	Adding performance measurement definitions related to GGSN	B	4.2.0	5.0.0	OAM-PM
S5-028142	32.403	005	-	Rel-5	Introduction of an optional "Purpose" clause in the measurement template	B	4.2.0	5.0.0	OAM-PM
S5-028141	32.403	006	-	Rel-5	Addition of explanatory text for Radio Access Bearer (RAB) measurements	D	4.2.0	5.0.0	OAM-PM

CR introducing WSMT measurements into TS 32.403 was postponed for the next meeting (SA5#29).

6.4.2   Subscriber and Equipment Trace (Rel-6 BB) - 32.42x/52.008

Work Item Type: Feature	Work Item ID	Specifications	Work Item Description
Trace Management	TraceMg	32.108	SP-010758

Rapporteur: Christian TOCHE (Nortel Networks)

SA5 <mark>approved</mark> at the last meeting (SA5#27 in Cork) to move the entire "Subscriber and Equipment Trace" work to Rel-6 and to split the draft TS 32.108 into tree (3) TSs as follows:

32.421	Telecommunication management; subscriber and equipment trace: Trace concepts and requirements	Rel-6	1.0.0	RONKA, Kari
32.422	Telecommunication management; subscriber and equipment trace: Trace control and configuration management	Rel-6	none	RONKA, Kari
32.423	Telecommunication management; subscriber and equipment trace: Trace data definition and management	Rel-6	none	RONKA, Kari

SA5 <mark>agreed</mark> to send to SA#16 for Information the following new draft Rel-6 specification

32.421	Telecommunication management; subscriber and equipment trace: Trace concepts and requirements	Rel-6	1.0.0	RONKA, Kari

SA5 <mark>agreed</mark> to move GSM 12.08 to 52.008 in Rel-6 instead of Rel-5 as currently planned

52.008	Telecommunication management; GSM subscriber and equipment trace	Rel-6	none	RONKA, Kari

SA5 <mark>agreed</mark> a Rel-6 BB-level Work Item Description on Trace Management to be submitted to SA#16 as Building Block instead of Feature as in Rel-5.

        S5-028130 – Rel-6 Trace Management (Building Block)

SA5 <mark>approved</mark> the following WTs:S5-028131 – Rel-6 Trace Concepts and Requirements (Work Task) S5-028132 – Rel-6 Trace Control and Configuration (Work Task) S5-028133 – Rel-6 Trace Data Management (Work Task) S5-028134 – Rel-6 Trace Impacts on Network Signalling Interfaces (Work Task)

        S5-028136 – Rel-6 GSM Subscriber and Equipment Trace (Work Task)SA5 <mark>approved</mark> an LS on Subscriber and Equipment Trace Impacts addressed to concerned 3GPP WGs to inform SA5's requirements (S5-028140).**Liaison Statements:**

Tdoc	List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020411	LS from Gp to S5 : Reply to LS on Availability of IMSI and IMEI in the BSC (S5-020199/SA5 SWG-B)	GP-021295	LS in	D	Reply in 8140
S5-020417	LS copy from R2 to S5 : Response to LS (N4-020302) on Trace and Availability of IMSI and IMEI (SA5 SWGD)	R2-020796	LS in	D (TR)	Reply in 8140
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in	A+All	Noted. No reply needed yet.
Tdoc	List of outgoing Liaison Statements	Source	Type	Alloc	Status
S5-028140	LS to CN1, CN4, GERAN, RAN2, RAN3 (copy: SA) on Subscriber and Equipment Trace Impacts (Rel-6 WI Trace Management)	SWGD	LS out	D	Reply to 411 & 417

6.5   Ad Hoc activities (if any)

7   Discussions and decisions on cross-SWG issues

7.1   Administrational issues

See subclause 5.2 above.

7.1.1 Work plan

The latest version of the 3GPP Work Plan Status can be found at: http://www.3gpp.org/ftp/Information/WORK_PLAN/

The active Work Item used in the 3GPP Work Plan can be found at: http://www.3gpp.org/ftp/Information/WI_Sheet/

The list of active Work Items (WIs) and the corresponding Work Item Descriptions (WIDs) can be found in Annex T.

Feature- and Building Block-level Work Item Descriptions need SA approval and are also stored in the SA5 Server area at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/_Work_Item_sheets/SA_approved_for_Feature_BB/

WIDs for Work Tasks, agreed by SWGs/SA5 for SA5-internal use, are stored at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/_Work_Item_sheets/SA5_internal_for_WT/

7.2 Technical issues

7.3 Other issues

8 Discussions and decisions on other business

9 Future meetings

SA5 meeting calendar

Meeting	Date	Location	Host
SA5#28 bis (CMCC)	20-21 Jun 2002	Beijing, CHINA	CMCC
SA5#29	24-28 Jun 2002	Beijing, CHINA	Nortel Networks
SA5#29 bis (SWGB)	12-16 Aug 2002	Tampere, FINLAND	NOKIA
SA5#30	19-23 Aug 2002	Tampere, FINLAND	NOKIA
TSG#17	3 - 12 Sep 2002	Biarritz, FRANCE	Alcatel
SA5#31	7-11 Oct 2002	Atlanta, GA, USA	NA Friends
SA5#32	18-22 Nov 2002	Vienna, AUSTRIA	EF3
TSG#18	3 - 12 Dec 2002	New Orleans , USA	NA Friends
3GPP2 TSG-S	13-17 Jan 2003	China	3GPP2
SA5#33 (non-plenary)	20-24 Jan 2003	Sophia Antipolis, FRANCE	ETSI
3GPP2 TSG-S	17-21 Feb 2003	USA	3GPP2
SA5#34 (Major)	24-28 Feb 2003	USA	NA Friends
TSG#19	11 - 21 Mar 2003	Jersey Island, UK	UK Friends
3GPP2 TSG-S	17-21 Mar 2003	USA	3GPP2
SA5#35 (Minor)	7 - 11 April 2003	Asia or Europe	???????
3GPP2 TSG-S	14-18 Apr 2003	USA	3GPP2
3GPP2 TSG-S	12-16 May 2003	San Diego, USA	3GPP2
SA5#36(Major) (John WILBER) or	19-23 May 2003	Europe	EF3
SA5#36(Major)	26-30 May 2003	Europe	EF3
TSG#20	10 - 19 Jun 2003	FINLAND	NOKIA
3GPP2 TSG-S	16-20 Jun 2003	USA	3GPP2
SA5#37 (non –plenary)	14 – 18 Jul 2003	If 14-18 Jul co-locate with 3GPP2 in San Francisco, USA	3GPP2
3GPP2 TSG-S	14-18 Jul 2003	San Francisco, USA	3GPP2
3GPP2 TSG-S	18-22 Aug 2003	Korea	3GPP2
SA5#38 (Major)	1-5 Sep 2003	Europe or Asia	???????
3GPP2 TSG-S	15-19 Sep 2003	USA	3GPP2
TSG#21	16 - 25 Sep 2003		
3GPP2 TSG-S	13-17 Oct 2003	Japan	3GPP2
SA5#39 (Minor)	6 - 10 Oct 2003	USA	NA Friends
3GPP2 TSG-S	10-14 Nov 2003	USA	3GPP2
SA5#40 (Major)	17-21 Nov 2003	Southern Europe	EF3
3GPP2 TSG-S	08-12 Dec 2003	USA	3GPP2
TSG#22	9 - 18 Dec 2003		
NOTE: The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: http://www.3gpp.org/Meetings/meetings.htm			

10 Adjournment

On behalf of the SA5 participants, the SA5 Chair, Michael TRUSS, thanked the host (ETSI and especially Mrs Marie -Noelle GIRARD) for the meeting organisation and social event arrangements. The meeting was adjourned on Friday at 12.31 PM.

Annex A: Agenda

Agenda item	Input/Output/Withdrawn Docs
1 Call to order (Thursday, 4th Quarter starting 3:45pm)	
2 Participant registration	
2.1 IPR (Intellectual Property Rights) declarations	
3 Agenda approval	**401, 402**
4 Meetings and activities reports	
4.1 Last SA5 meeting report	**317, 300**
4.2 Last SA meeting report (if applicable)	
4.3 Liaison rapporteurs reports	
4.4 Inter-organizational communication reports During the plenary incoming LSs will be briefed under 4.4.	
4.4.1 Vote to Align 3GPP Notifications (TS 32.303) with ITU	437, 440 (AWS), 441
4.5 Other reports	
5 Sub-Working Group reports and actions	
5.1 SWGA	**2xyz, 403** 416, A, 423, A, 427, A, 431, A, 432, A, 419, A+All, 414, A+B, 422, A+B, 425, A+B, 430, A+B, 445, A+B, 447, A+B, 418, n.a., 433, A, 2046, A, 2047, A, 2048, A, 2050, A
5.2 SWGB	**4xyz, 404** LS in/out: 414, A+B, 422, A+B, 425, A+B, 430, A+B, 445, A+B, 447, A+B, 412, B, 413, B, 415, B, 421, B, 424, B, 426, B, 428, B, 429, B, 442, B, 443, B, 444, B, 446, B, 448, B, 4169, B, 4170, B, 4171, B,
5.3 SWGC	**6xyz, 405** LS in/out: 420, C
5.4 SWGD	**8xyz, 406** LS in/out: 411, D, 417, D (TR) 8140, D
5.5 Ad Hoc activities (if any)	
6 Discussions and decisions on cross-SWG issues	
6.1 Administrational issues	
6.2 Technical issues	
6.3 Other issues	
7 Discussions and decisions on other business	
8 Scheduling of future meetings	
9 Adjournment (target time with no promise: Friday, 1:00 p.m.)	

NOTE: All incoming LSs will be previewed during the Leaders' meeting (Monday), and allocated to SWGs for recommendation on handling. During the plenary incoming LSs are briefed under 4.4.

Annex B: Documents list

Legend   Documents highlighted in <mark style="background:red">red</mark> are not available; e.g. <mark style="background:red">S5-020xyz</mark>

Documents highlighted in <mark style="background:green">green</mark> are replaced / superseded by a Revised Version; e.g. <mark style="background:green">S5-020xyz</mark>

S5-020317	Draft V2.0.0 Report SA5#27		Secretary	4.1 Last SA5 report	Report		Approved as 300.
Doc	**Title**		**Source**	**Alloc**	**Type**		**Status**
	SA5 plenary						
S5-020401	Draft Agenda		SA5 Chair	3 Agenda	Agenda		Approved
S5-020402	SA5 #28 Sophia Antipolis Meeting Plan		SA5 Chair	3 Agenda	Schedule		Approved
S5-020403	SWGA Presentation to SA5#28 plenary		SWGA Chair	5.1 SWGA	Report		rev of 2053. Noted
S5-020404	SWGB Presentation to SA5#28 plenary		SWGB Chair	5.2 SWGB	Report		summary of 4175. Noted
S5-020405	SWGC Presentation to SA5#28 plenary		SWGC Chair	5.3 SWGC	Report		rev of 6202. Noted
S5-020406	SWGD Presentation to SA5#28 plenary		SWGD Chair	5.4 SWGD	Report		rev of 8101. Noted
<mark style="background:green">S5-020407</mark>	Draft v100 Report of SA5#28		TB Officer		Report		Sent 24 June. Rev. as 449.
S5-020408	3GPP meeting calendar		MCC	8 Future meetings	Tdoc		Noted
S5-020409	Rel-4 CR 32.111-2: Remove functionality in the Rel-4 Information Service corresponding to Rel-5 Fault Management requirements		MCC	5.3 SWGC	<mark style="background:yellow">CR</mark>		Postponed to SA5#29
S5-020410	3GPP work plan		MCC	4.5 Other reports	Tdoc		Noted
S5-020411	LS from Gp to S5 : Reply to LS on Availability of IMSI and IMEI in the BSC (S5-020199/SA5 SWG-B)		GP-021295	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	D	Reply in 8140
S5-020412	LS from N1 to S5 : Liaison statement on Charging at I-CSCF (to: SWGB)		N1-020948	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Reply in 4170
S5-020413	LS from N3 to S5 : LS on Multiple Codecs		N3-020356	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Reply in 4171
S5-020414	LS copy from N3 to S5 : Liaison Statement on 'IPv6 update of stage 3 specifications'		N3-020361	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A+B	Noted. No reply needed yet.
S5-020415	LS from N4 to S5 : Liaison Statement Response on 'Distribution of IMS charging ID (ICID) from GGSN to SGSN' (S5-024037/SA5 SWGB)		N4-020526	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Reply in 4169
S5-020416	LS from N4 to S5 : Liaison Statement on TS 23.008: Organisation of subscriber data (S5-022016/SA5 SWGA)		N4-020532	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A	Noted. No reply needed yet.
S5-020417	LS copy from R2 to S5 : Response to LS (N4-020302) on Trace and Availability of IMSI and IMEI (SA5 SWGD)		R2-020796	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	D (TR)	Reply in 8140
S5-020418	LS copy from S5 to S5 : Reply to 'IP version inter-working on the transport plane' from SA2 (S5-020112)		S5-020320	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	n.a.	Noted. No reply needed yet.
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework		ITU-T SG4 (LS 11-4)	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A+All	Noted. No reply needed yet.
S5-020420	Response to 3GPP SA5 Liaison S5-010788: '3GPP SA5 position regarding ITU-T SG4 on the use of CORBA' (SA5 SWGC)		ITU-T SG 4 (LS 22-4)	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	C	Noted. No reply needed yet.
S5-020421	LS copy from S2 to S5 : Reply on LS on Multiple Codecs		S2-021304	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Noted. No reply needed yet.
S5-020422	LS from S2 to S5 : LS on Presence Service		S2-021499	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A+B	Noted. No reply needed yet.
S5-020423	LS from S2 to S5 : Liaison Statement on GUP work progress		S2-021513	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A	Noted. No reply needed yet.
S5-020424	LS from S2 to S5 : Liaison statement on Charging at I-CSCF		S2-021517	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Reply in 4170
S5-020425	LS copy from S2 to S5 : Response to the LS on 'IPv6 update of stage 3 specifications'		S2-021521	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	A+B	Noted. No reply needed yet.
S5-020426	LS from S2 to S5 : Liaison statement response on "Distribution of IMS charging ID (ICID) from GGSN to SGSN"		S2-021522	4.4 Inter-orga rep.	<mark style="background:#eeee99">LS in</mark>	B	Reply in 4169

S5-020427	LS from SA2 to SA1 (copy SA5, T2) on GUP Work Item Description and DDF	S2-021514	4.4 Inter-orga rep.	LS in	A	Noted. No reply needed yet.
S5-020428	LS-reply from T2 to SA5 on Joint Meeting SA5/CN5/T2 on MMS charging	T2-020513	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020429	LS from SA4 to SA5 on Charging and Streaming Service Architecture	S4-020298	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020430	LS-reply from SA4 to SA5 on PSS Rel-6 work programme	S4-020346	4.4 Inter-orga rep.	LS in	A+B	Noted. No reply needed yet.
S5-020431	LS-reply from T2 to SA5 (T2-020361/S5-020433) on UEM and TR 32.802	T2-020434	4.4 Inter-orga rep.	LS in	A	Reply in 2050
S5-020432	LS-reply from T2 to SA5 (S5-022007) on Service Operations Management	T2-020527	4.4 Inter-orga rep.	LS in	A	Reply in 2047
S5-020433	LS to T2 on User Equipment Management Feasibility Study (TR 32.802)	SA5 SWGA	5.1 SWGA	LS out		
S5-020434	SA5 provisionally agreed CRs in Cork - updated for SA5 review/agreement for submission to SA#16	MCC	5.2 SWGB, 5.3 SWGC, 5.4 SWGD	CR		Noted.
S5-020435	Summary of Content of 3GPP Release 5 as of 16 April 2002	MCC	4.5 Other reports	Tdoc		Noted.
S5-020436	Summary of Content of 3GPP Release 6 as of 16 April 2002	MCC	4.5 Other reports	Tdoc		Noted.
S5-020437	Voting list valid for 3GPP TSG SA WG 5 meeting #28	MCC	4.4.1 Align 3GPP/ITU	Tdoc		Noted.
S5-020439	ETSI: GA39(02)Temp. Doc. 10 - NGN-IG status report	MCC	4.5 Other reports	Tdoc		Noted.
S5-020440	Ericsson's analysis and considerations regarding ITU-T Notification alignment vote	Ericsson	4.4.1 Align 3GPP/ITU	Tdoc		Noted.
S5-020441	AWS Proposed Vote to Align 3GPP Notifications With ITU (update of 238)	AWS	4.4.1 Align 3GPP/ITU	Tdoc		Withdrawn

S5-020442	LS from CN3 to SA5 on distribution of IMS charging ID (ICID) from PCF/P-CSCF to GGSN	N3-020507	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020443	LS from CN4 to SA5 on 3GPP specific Diameter applications	N4-020732	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020444	LS-reply from T2 to SA5 (S5-020196) on Charging Support for VASP MMS Connectivity	T2-020584	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020445	LS-reply from RAN2 to SA1 (copy SA5) on Priority Service Feasibility Study	R2-021469	4.4 Inter-orga rep.	LS in	A+B	Noted. No reply needed yet.
S5-020446	LS-reply from SA1 to SA5 (S5-024033) on "3GPP SA1 MMS SWG"	S1-021100	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020447	LS from SA1 to SA (copy SA5) on draft Push stage 1 for information	S1-021195	4.4 Inter-orga rep.	LS in	A+B	Noted. No reply needed yet.
S5-020448	LS-reply from T2 to BARG (copy SA5) on Message Size Measurement	T2-020569	4.4 Inter-orga rep.	LS in	B	Noted. No reply needed yet.
S5-020449	Draft v200 Report of SA5#28	TB Officer	n.a.	Report		Rev. of 407. Sent 26 June.
SWGA	**Telecom Management Architecture and Requirements**	**input to**	**plenary**			
S5-020403	SWGA Presentation to SA5#28 plenary	SWGA Chair	5.1 SWGA	Report		rev of 2053. Noted
S5-022046	LS-reply to SA2 (copy: T2, SA1) on GUP work progress (Rel-6 WI Subscription Management)	SWGA	5.1 SWGA	LS out	A	Reply to 415 & 426
S5-022047	LS-reply to T2 (copy: CN5, SA1, SA2) on MMS Connectivity (WI Service Operation Management)	SWGA	5.1 SWGA	LS out	A	Reply to 432
S5-022048	LS to SA2 (copy T2) on Entities of the mobile system (Rel-5 WI Charging & OAM&P)	SWGA	5.1 SWGA	LS out	A	
S5-022050	LS-reply to T2 on UEM and TR 32.802 (Rel-5 WI User Equipment Management (UEM) Feasibility Study)	SWGA	5.1 SWGA	LS out	A	Reply to 431
SWGB	**Charging Management**	**input to**	**plenary**			
S5-020404	SWGB Presentation to SA5#28 plenary	SWGB Chair	5.2 SWGB	Report		summary of 4175. Noted
S5-024169	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN	SWGB	5.2 SWGB	LS out	B	Reply to 415 & 426
S5-024170	LS-reply to CN1, SA2 on Charging at I-CSCF	SWGB	5.2 SWGB	LS out	B	Reply to 412 & 424
S5-024171	LS-reply to CN3 (copy: SA2, CN1) on Multiple Codecs	SWGB	5.2 SWGB	LS out	B	Reply to 413
SWGC	**Telecom Network Infrastructure Management**					
S5-020405	SWGC Presentation to SA5#28 plenary	SWGC Chair	5.3 SWGC	Report		rev of 6202. Noted
SWGD	**Performance Management / Trace Management**					
S5-020406	SWGD Presentation to SA5#28 plenary	SWGD Chair	5.4 SWGD	Report		rev of 8101. Noted
S5-028140	LS to CN1, CN4, GERAN, RAN2, RAN3 (copy: SA) on Subscriber and Equipment Trace Impacts (Rel-6 WI Trace Management)	SWGD	5.4 SWGD	LS out	D	Reply to 411 & 417

B.1   Liaison Statements

Tdoc	Meeting #28, Sophia Antiplois List of incoming Liaison Statements	Source	Type	Alloc	Status
S5-020411	LS from Gp to S5 : Reply to LS on Availability of IMSI and IMEI in the BSC (S5-020199/SA5 SWG-B)	GP-021295	LS in	D	Reply in 8140
S5-020412	LS from N1 to S5 : Liaison statement on Charging at I-CSCF (to: SWGB)	N1-020948	LS in	B	Reply in 4170
S5-020413	LS from N3 to S5 : LS on Multiple Codecs	N3-020356	LS in	B	Reply in 4171
S5-020414	LS copy from N3 to S5 : Liaison Statement on 'IPv6 update of stage 3 specifications'	N3-020361	LS in	A+B	Noted. No reply needed yet.
S5-020415	LS from N4 to S5 : Liaison Statement Response on 'Distribution of IMS charging ID (ICID) from GGSN to SGSN' (S5-024037/SA5 SWGB)	N4-020526	LS in	B	Reply in 4169
S5-020416	LS from N4 to S5 : Liaison Statement on TS 23.008: Organisation of subscriber data (S5-022016/SA5 SWGA)	N4-020532	LS in	A	Noted. No reply needed yet.
S5-020417	LS copy from R2 to S5 : Response to LS (N4-020302) on Trace and Availability of IMSI and IMEI (SA5 SWGD)	R2-020796	LS in	D (TR)	Reply in 8140
S5-020418	LS copy from S5 to S5 : Reply to 'IP version inter-working on the transport plane' from SA2 (S5-020112)	S5-020320	LS in	n.a.	Noted. No reply needed yet.
S5-020419	Communication statements from ITU-T Study Group 4: Consent of M.3030, telecommunications Markup Language (tML) Framework	ITU-T SG4 (LS 11-4)	LS in	A+All	Noted. No reply needed yet.
S5-020420	Response to 3GPP SA5 Liaison S5-010788: '3GPP SA5 position regarding ITU-T SG4 on the use of CORBA' (SA5 SWGC)	ITU-T SG 4 (LS 22-4)	LS in	C	Noted. No reply needed yet.
S5-020421	LS copy from S2 to S5 : Reply on LS on Multiple Codecs	S2-021304	LS in	B	Noted. No reply needed yet.
S5-020422	LS from S2 to S5 : LS on Presence Service	S2-021499	LS in	A+B	Noted. No reply needed yet.
S5-020423	LS from S2 to S5 : Liaison Statement on GUP work progress	S2-021513	LS in	A	Noted. No reply needed yet.
S5-020424	LS from S2 to S5 : Liaison statement on Charging at I-CSCF	S2-021517	LS in	B	Reply in 4170
S5-020425	LS copy from S2 to S5 : Response to the LS on 'IPv6 update of stage 3 specifications'	S2-021521	LS in	A+B	Noted. No reply needed yet.
S5-020426	LS from S2 to S5 : Liaison statement response on "Distribution of IMS charging ID (ICID) from GGSN to SGSN"	S2-021522	LS in	B	Reply in 4169
S5-020427	LS from SA2 to SA1 (copy SA5, T2) on GUP Work Item Description and DDF	S2-021514	LS in	A	Noted. No reply needed yet.
S5-020428	LS-reply from T2 to SA5 on Joint Meeting SA5/CN5/T2 on MMS charging	T2-020513	LS in	B	Noted. No reply needed yet.
S5-020429	LS from SA4 to SA5 on Charging and Streaming Service Architecture	S4-020298	LS in	B	Noted. No reply needed yet.
S5-020430	LS-reply from SA4 to SA5 on PSS Rel-6 work programme	S4-020346	LS in	A+B	Noted. No reply needed yet.
S5-020431	LS-reply from T2 to SA5 (T2-020361/S5-020433) on UEM and TR 32.802	T2-020434	LS in	A	Reply in 2050
S5-020432	LS-reply from T2 to SA5 (S5-022007) on Service Operations Management	T2-020527	LS in	A	Reply in 2047
S5-020442	LS from CN3 to SA5 on distribution of IMS charging ID (ICID) from PCF/P-CSCF to GGSN	N3-020507	LS in	B	Noted. No reply needed yet.
S5-020443	LS from CN4 to SA5 on 3GPP specific Diameter applications	N4-020732	LS in	B	Noted. No reply needed yet.
S5-020444	LS-reply from T2 to SA5 (S5-020196) on Charging Support for VASP MMS Connectivity	T2-020584	LS in	B	Noted. No reply needed yet.
S5-020445	LS-reply from RAN2 to SA1 (copy SA5) on Priority Service Feasibility Study	R2-021469	LS in	A+B	Noted. No reply needed yet.
S5-020446	LS-reply from SA1 to SA5 (S5-024033) on "3GPP SA1 MMS SWG"	S1-021100	LS in	B	Noted. No reply needed yet.
S5-020447	LS from SA1 to SA (copy SA5) on draft Push stage 1 for information	S1-021195	LS in	A+B	Noted. No reply needed yet.
S5-020448	LS-reply from T2 to BARG (copy SA5) on Message Size Measurement	T2-020569	LS in	B	Noted. No reply needed yet.
Tdoc	**List of outgoing Liaison Statements**	**Source**	**Type**	**Alloc**	**Status**
S5-020433	LS to T2 on User Equipment Management Feasibility Study (TR 32.802)	SWGA	LS out		
S5-022046	LS-reply to SA2 (copy: T2, SA1) on GUP work progress (Rel-6 WI Subscription Management)	SWGA	LS out	A	Reply to 415 & 426
S5-022047	LS-reply to T2 (copy: CN5, SA1, SA2) on MMS Connectivity (WI Service Operation Management)	SWGA	LS out	A	Reply to 432
S5-022048	LS to SA2 (copy T2) on Entities of the mobile system (Rel-5 WI Charging & OAM&P)	SWGA	LS out	A	
S5-022050	LS-reply to T2 on UEM and TR 32.802 (Rel-5 WI User Equipment Management (UEM) Feasibility Study)	SWGA	LS out	A	Reply to 431
S5-024169	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN	SWGB	LS out	B	Reply to 415 & 426
S5-024170	LS-reply to CN1, SA2 on Charging at I-CSCF	SWGB	LS out	B	Reply to 412 & 424
S5-024171	LS-reply to CN3 (copy: SA2, CN1) on Multiple Codecs	SWGB	LS out	B	Reply to 413
S5-028140	LS to CN1, CN4, GERAN, RAN2, RAN3 (copy: SA) on Subscriber and Equipment Trace Impacts (Rel-6 WI Trace Management)	SWGD	LS out	D	Reply to 411 & 417

Annex C: Participants list

Chairman		
TRUSS Michael	MOTOROLA Ltd	GB
ViceChairman		
RICHTER Thomas	Cingular Wireless LLC	US
TOCHE Christian	NORTEL NETWORKS (EUROPE)	GB
PROJECT_MGR		
ZOICAS Adrian	ETSI Secretariat	FR
AHLBÄCK Hans	ERICSSON L.M.	SE
ALEXANDER Benni	NOKIA Corporation	FI
AZUMA Mitsuhiro	Fujitsu Limited	JP
BERGGREN Tommy	TELIA AB　SE	
BIBAS Alain	ORANGE FRANCE	FR
BODEN Bert	Vodafone D2 GmbH	DE
BÓDOG Gyula	NOKIA Corporation	FI
BONNEAU Frédéric	NORTEL NETWORKS (EUROPE)	GB
BORGMAN Paul	Lucent Technologies N. S. UK	GB
BOSTICA Paolo	TELECOM ITALIA S.p.A.	IT
BOWKER Stephen	Watchmark　GB	
CAROZ Baptiste	France Telecom	FR
CHANDER Sharat	AT&T Wireless Services, Inc.	US
CHAU Alan	NOKIA UK Ltd	GB
CICCHITTO Gaetano	SIEMENS ICN S.p.A	IT
DUJARDIN Emmanuel	France Telecom	FR
FAOUËN Brigitte	NORTEL NETWORKS (EUROPE)	GB
GÖRMER Gerald	SIEMENS AG	DE
HE Jiying	ALCATEL S.A.	FR
HELMY Dia	NEC America Inc.	US
HÜBINETTE Ulf	ERICSSON L.M.	SE
KAWANAMI Yukio	NEC Corporation	JP
KORINEK Frank	MOTOROLA JAPAN LTD	JP
LEHNERT Matthias	ALCATEL S.A.	FR
LI Wenjing	China Mobile Com. Corporation	CN
MUDGE John	VODAFONE LTD	GB
NAN Jerry Mingkai	ERICSSON L.M.	SE
NENNER Karl-Heinz	T-MOBILE DEUTSCHLAND	DE
NOUIRA Habib	ALCATEL S.A.	FR
OETTL Martin	SIEMENS AG	DE
OWEN Bradley	Lucent Technologies N. S. UK	GB
PAL Tapinder	T-MOBILE DEUTSCHLAND	DE
PEETERS Frank	ALCATEL BELL	BE
PIRT Trevor	MOTOROLA GmbH	DE
POLLAKOWSKI Olaf	SIEMENS AG	DE
RAYMER David	MOTOROLA S.A.	FR
RONKA Kari	NOKIA Corporation	FI
RUTANEN Mikael	NOKIA Corporation	FI
SCHMIDT Joerg	Motorola Inc.	US
SHARON Ariel	Lucent Technologies	US
SHAW Venson	AT&T Wireless Services, Inc.	US
SIDA Samuel	ADC Telecommunications LTD	GB
SIDOR David	Nortel Networks	US
SZELAZEK Bill	Hutchison 3G UK Limited	GB
TOVINGER Thomas	Nippon Ericsson K.K.	JP
TSE Edwin	Ericsson Inc.　US	
VOSKAR Paul	NOKIA UK Ltd	GB
WANG Ye	China Mobile Com. Corporation	CN
WILBER John	AT&T Wireless Services, Inc.	US
ZHANG Kevin	XACCT　　US	
ZHOU Di	SIEMENS AG	DE
ZHOU Qian	ALCATEL BELL	BE

Number of Attendees:　　**56**

Consult 3GPP Membership status at http://webapp.etsi.org/3gppmembership/QueryForm.asp

Those delegates with an ETSI server username and password can obtain the full/updated contact information for any delegate by going to the URL for the delegates' database at:　http://webapp.etsi.org/teldir/TelDirectory.asp

They are also able to update their own information (new address / tel. / fax / email etc) by using the URL:
http://webapp.etsi.org/teldir/PersonalInfo.asp

Legend   Persons highlighted in <mark>yellow</mark> are Alternative Voting Representatives; e.g. <mark>Don Giovanni</mark>.
Persons highlighted in <mark style="background:green">green</mark> are non-Voting Representatives; e.g. <mark style="background:green">Don Juan</mark>.

	Member of 3GPP (ARIB)				
Mr. Frank Korinek	MOTOROLA JAPAN LTD	(ARIB)	US	+1 847 576 1643	frank.korinek@motorola.com
	Member of 3GPP (CWTS)				
Miss Wenjing Li	China Mobile Company Corp.	(CWTS)	CN	+008662031199	wjli@bupt.edu.cn
Mr. Ye Wang	China Mobile Company Corp.	(CWTS)	CN	+86 10 63601753	wangye@chinamobile.com
	Member of 3GPP (ETSI)				
Mr. Hans Ahlbäck	ERICSSON L.M.	(ETSI)	FI	+358 2 265 3751	hans.ahlback@ericsson.fi
Mr. Benni Alexander	NOKIA Corporation	(ETSI)	FI	+358.(0)7180.68683	benni.alexander@nokia.com
Mr. Tommy Berggren	TELIA AB	(ETSI)	SE	+46 60 14 54 69	tommy.r.berggren@telia.se
Mr. Alain Bibas	ORANGE FRANCE	(ETSI)	FR	+33 1 45 29 4663	alain.bibas@francetelecom.com
Dr. Bert Boden	Vodafone D2 GmbH	(ETSI)	DE	+49 211 533 2946	bert.boden@d2vodafone.de
Mr. Gyula Bódog	NOKIA Corporation	(ETSI)	HU	+36 20 9849272	gyula.bodog@nokia.com
Mr. Frédéric Bonneau	NORTEL NETWORKS (EUROPE)	(ETSI)	FR	+33 1 6955 5172	bonneau@nortelnetworks.com
Mr. Paul Borgman	Lucent Technologies N. S. UK	(ETSI)	GB	+44 1793 883364	psb@lucent.com
Mr. Paolo Bostica	TELECOM ITALIA S.p.A.	(ETSI)	IT	+39 011 228 6877	paolo.bostica@tilab.com
Mr. Stephen Bowker	Watchmark	(ETSI)	GB	+44 1727 890730	steve.bowker@watchmark.com
Mr. Baptiste Caroz	France Telecom	(ETSI)	FR	+33 1 45 29 47 94	baptiste.caroz@francetelecom.com
Mr. Alan Chau	NOKIA UK Ltd	(ETSI)	GB	+44 1252 86 7425	alan.chau@nokia.com
Mr. Gaetano Cicchitto	SIEMENS ICN S.p.A	(ETSI)	IT	+39 02 2733 7338	gaetano.cicchitto@icn.siemens.it
Mr. Emmanuel Dujardin	France Telecom	(ETSI)	FR	+ 33 145296480	emmanuel.dujardin@francetelecom.co
Ms. Brigitte Faouën	NORTEL NETWORKS (EUROPE)	(ETSI)	GB	+33 1 6955 4643	bfaouen@nortelnetworks.com
Mr. Gerald Görmer	SIEMENS AG	(ETSI)	DE	+49 30 386 29322	Gerald.goermer@icn.siemens.de
Mr. Jiying HE	ALCATEL S.A.	(ETSI)	FR	+86 21 5836 8000	jiying.he@alcatel.fr
Mr. Ulf Hübinette	ERICSSON L.M.	(ETSI)	SE	+46 13 28 4891	ulf.hubinette@era.ericsson.se
Mr. Matthias Lehnert	ALCATEL S.A.	(ETSI)	DE	+49 711 82147107	m.lehnert@alcatel.de
Mr. John Mudge	VODAFONE LTD	(ETSI)	GB	+44 1635 673587	john.mudge@vf.vodafone.co.uk
Mr. Jerry Mingkai Nan	ERICSSON L.M.	(ETSI)	CN	+86 10 65615566	jerry.Nan@etc.ericsson.se
Mr. Karl-Heinz Nenner	T-MOBILE DEUTSCHLAND	(ETSI)	DE	+49 228 936 3343	karl-heinz.nenner@t-mobile.de
Mr. Habib Nouira	ALCATEL S.A.	(ETSI)	FR	+331 3077 5109	habib.nouira@alcatel.fr
Mr. Martin Oettl	SIEMENS AG	(ETSI)	DE	+49 89 722 34163	martin.oettl@icn.siemens.de
Mr. Bradley Owen	Lucent Technologies N. S. UK	(ETSI)	GB	+44 1793 736245	bvowen@lucent.com
Mr. Tapinder Pal	T-MOBILE DEUTSCHLAND	(ETSI)	DE	+49 228 936 3349	tapinder.pal@t-mobile.de
Mr. Frank Peeters	ALCATEL BELL	(ETSI)	BE	+32 3 240 95 34	francois.c.peeters@alcatel.be
Mr. Trevor Pirt	MOTOROLA GmbH	(ETSI)	IE	+353 21 4511 218	trevor.pirt@motorola.com
Dr. Olaf Pollakowski	SIEMENS AG	(ETSI)	DE	+49 30 386 32928	olaf.pollakowski@icn.siemens.de
Mr. David Raymer	MOTOROLA S.A.	(ETSI)	US	+1 817 245 2531	david.raymer@motorola.com
Mr. Kari Ronka	NOKIA Corporation	(ETSI)	FI	+358 7180 77010	kari.t.ronka@nokia.com
Mr. Mikael Rutanen	NOKIA Corporation	(ETSI)	FI	+358503872903	mikael.rutanen@nokia.com
Mr. Samuel Sida	ADC Telecommunications LTD	(ETSI)	US	+442083343266	samuel_sida@adc.com
Mr. Bill Szelazek	Hutchison 3G UK Limited	(ETSI)	GB	+44 7764613913	bill.szelazek@hutchison3g.com
Mr. Christian Toche	NORTEL NETWORKS (EUROPE)	(ETSI)	FX	+33 1 69 55 44 91	toche@nortelnetworks.com
Mr. Michael Truss	MOTOROLA Ltd	(ETSI)	IE	+353 21 4511 327	Michael.Truss@motorola.com
Mr. Paul Voskar	NOKIA UK Ltd	(ETSI)	GB	+44 1252 867427	paul.voskar@nokia.com
Mr. Kevin Zhang	XACCT	(ETSI)	US	+1 301 992 4697	kevin.zhang@xacct.com
Mr. Di Zhou	SIEMENS AG	(ETSI)	AT	+43 51707 21079	di.zhou@siemens.at
Ms. Qian Zhou	ALCATEL BELL	(ETSI)	BE	+86 10 65392200 ex	qian.zhou@sbamc.alcatel.com.cn
	Member of 3GPP (T1)				
Mr. Sharat Chander	AT&T Wireless Services, Inc.	(T1)	US	+1 425 580 6596	sharat.chander@attws.com
Mr. Dia Helmy	NEC America Inc.	(T1)	GB	+1 214 262 3246	dhelmy@necam.com
Mr. Thomas Richter	Cingular Wireless LLC	(T1)	US	+1 404 236 5902	thomas.richter@cingular.com
Mr. Joerg Schmidt	Motorola Inc.	(T1)	US	+1 480 732 6493	J.Schmidt@Motorola.com
Dr. Ariel Sharon	Lucent Technologies	(T1)	US	+1 630 979 1983	asharon@lucent.com
Mr. Venson Shaw	AT&T Wireless Services, Inc.	(T1)	US	425 828 1005	Venson.Shaw@aws.com
Mr. David Sidor	Nortel Networks	(T1)	US	+1 919 997 3628	djsidor@nortelnetworks.com
Mr. Edwin Tse	Ericsson Inc.	(T1)	CA	+1 514 823 6301	edwin.tse@ericsson.ca
Mr. John Wilber	AT&T Wireless Services, Inc.	(T1)	US	+1 480 473 1150	wilber2@dellepro.com
	Member of 3GPP (TTC)				
Mr. Mitsuhiro Azuma	Fujitsu Limited	(TTC)	JP	+81 44 754 4031	azuma.mitsuhiro@jp.fujitsu.com
Mr. Yukio Kawanami	NEC Corporation	(TTC)	JP	+81471857158	kawanami@cj.jp.nec.com
Mr. Thomas Tovinger	Nippon Ericsson K.K.	(TTC)	SE	+46 31 747 3010	thomas.tovinger@emw.ericsson.se
	Organisation partner representative (ETSI)				
Mr. Adrian Zoicas	Mobile Competence Centre		FR	+33 4 92 94 42 21	adrian.zoicas@etsi.fr

C.1 SA5 office holders

C.1.1 Chair

Lastname	Firstname	Organisation	Role	Start Date	End Date	Notes
Yuhan	Albert	VoiceStream Wireless Corp.	Chair	1999/03/01	2002/02/18	
Truss	Michael	MOTOROLA Ltd	Chair	2002/04/05		
Truss	Michael	MOTOROLA Ltd	Vice Chair	1999/06/04	2002/04/05	
Thomas	Richter	Cingular Wireless LLC	Vice Chair	2002/04/05		
Toche	Christian	Nortel Networks	Vice Chair	2002/04/05		
Zoicas	Adrian	ETSI Secretariat/ MCC	Secretary	2000/01/26		

C.1.2 SWGs Chair

SWG	Lastname	Firstname	Organisation	Role	Start	End	WI-IDs	Specs
SWGA	Truss	Michael	MOTOROLA Ltd	Chair	2001/09/07		OAM-AR	32.101, 32.102
	Berggren	Tommy	TELIA AB	Vice Chair	2002/01/18		SUM	32.140
							UEM	32.802
							UOAM	32.800
SWGB	Nenner	Karl-Heinz	T-Mobile	Chair	2001/09/07		OAM-CH	32.005,32.015,32.200-series
SWGC	Tovinger	Thomas	ERICSSON L.M.	Chair	2001/09/07		OAM-NIM	32.300/32.600-series
	Schmidt	Joerg	MOTOROLA Inc.	Vice Chair	2001/09/07		OAM-C M	32.106-series
	Bonneau	Frédéric	NORTEL Networks	Vice Chair	2001/10/19		OAM-F M	32.111-series
SWGD	Toche	Christian	Nortel Networks	Chair	2002/04/05		OAM-PM	32.104, 32.4xy, 52.402
							TraceMg	32.108

C.1.3 Rapporteurs

SA5 SWG (WI-ID)	Lastname	Firstname	Organisation	Start Date	End Date	Notes
SWGA						
OAM-AR	Truss	Michael	Motorola Ltd	1999/06/04		32.101
OAM-PR	Berggren	Tommy	Telia AB	1999/06/04		32.102
SUM	Caryer	Geoffrey	BT	2000/12/01		32.140
UEM	Mudge	John	Vodafone Group	2001/06/01		32.802
UOAM	Boden	Bert	Vodafone Group	2000/12/01		32.800
SWGB						
OAM-NIM	Tovinger	Thomas	Ericsson	2001/06/01		32.3xy, 32.6xy
OAM-F M	Tovinger	Thomas	Ericsson	1999/07/22	2001/06/01	32.106-series
OAM-F M	Cicchitto	Gaetano	Siemens ICN	1999/07/22	2000/07/28	32.111-series
OAM-F M	Jure	Patrick	Lucent	2000/07/29	2001/07/15	32.111-series
SWGC						
CB (OAM-CH)	Deakin	Ian	Motorola Ltd	1999/07/22	2000/07/24	32.005, 32.015
CB (OAM-CH)	Nenner	Karl-Heinz	T-Mobile	2000/07/25	2000/10/20	32.005, 32.015
CB (OAM-CH)	Kobylarz	Thaddeus	AWS	2000/10/20	2001/09/07	32.200-series
Charging Principles (OAM-CH)	Ahlbäck	Hans	Ericsson	2001/10/19		32.200
CS Charging (OAM-CH)	Bender	James	Nortel Networks	2001/10/19		32.205, 32.005
PS Charging (OAM-CH)	Lehnert	Matthias	Alcatel	2001/10/19		32.215, 32.015
IMS Charging (OAM-CH)	Sharon	Ariel	Lucent	2001/10/19		32.225
Service Charging (OAM-CH)	Goermer	Gerald	Siemens	2001/10/19		32.235
SWGD						
OAM-PM	Nenner	Karl-Heinz	T-Mobile	1999/07/22	2002/01/18	32.104, 32/52.4xy
PM Concept & Requirements (OAM-PM)	Ulf	Hübinette	Ericsson	2002/01/18		32.401
Measurement Definitions (OAM-PM)	Christian	Toche	Nortel Networks	2001/10/19		32.403, 52.402
Trace Management (TraceMg)	Kari	Ronka	Nokia	2001/10/19		32.108

C.1.4 External Liaison Officers

External Liaison Body	Lastname	Firstname	Representing Organisation	Start Date	End Date	Notes
3GPP2	Schmidt	Joerg	MOTOROLA	2000/12/01		
GSMA BARG / CPWP	Nenner	Karl-Heinz	T-Mobile	2000/12/01		
TMF	Korinek	Frank	MOTOROLA	2000/12/01		

Annex R: SA5 CRs for submission to SA#16

The database, which contains a full history of all CRs to all 3GPP specifications can be found on the 3GPP server (in MS Access 97 format) under the directory: ftp://ftp.3gpp.org/Information/Databases/Change_Request

List of CRs by specification

Doc-1stl	Doc-2nd	Spec	CR	R	Ph	Subject	Cat	Ver Cur	Ver New	Mtg	WI
SP-020292	S5-028010	12.04	A002	-	R99	Correction of erroneous definitions of SGSN measurements	F	8.0.0	8.1.0	S5-27	OAM-PM
SP-020293	S5-028012	12.04	A003	-	R99	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	F	8.0.0	8.1.0	S5-27	OAM-PM
SP-020282	S5-026239	32.111-3	016	-	Rel-4	Addition of 'indeterminate' probable cause in IDL definition	F	4.2.0	4.3.0	S5-28	OAM-FM
SP-020283	S5-026245	32.111-4	006	-	Rel-4	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	F	4.2.0	4.3.0	S5-28	OAM-FM
SP-020283	S5-026246	32.111-4	007	-	Rel-5	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	A	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020284	S5-026247	32.111-4	008	-	Rel-5	Addition of the parameter alarmListAlignmentRequirement to the notification notifyAlarmListRebuilt in the CMIP SS (32.111-4)	F	5.0.0	5.1.0	S5-27	OAM-NIM
SP-020284	S5-026248	32.111-4	009	-	Rel-5	Adding the notification notifyPotentialFaultyAlarmList in the CMIP SS (32.111-4)	F	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020284	S5-026249	32.111-4	010	-	Rel-5	Introduction of SS (32.111-4) to IS (32.111-2) relation and correction of Foreword	F	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020287	S5-024026	32.200	006	-	Rel-5	Naming of the interfaces to the Billing System	C	5.0.0	5.1.0	S5-27	OAM-CH
SP-020287	S5-024149	32.200	007	-	Rel-5	Clarifying the off-line IMS Charging architecture	F	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024115	32.200	008	-	Rel-5	Inclusion of content charging functions from 23.815	C	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024151	32.200	009	-	Rel-5	Inclusion of generic flows for event-based charging at the Ro reference point from 23.815	C	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024152	32.200	010	-	Rel-5	Adding definition for the Charging Collection Function (CCF)	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020286	S5-024158	32.200	011	-	Rel-4	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	F	4.1.0	4.2.0	S5-28	OAM-CH
SP-020286	S5-024159	32.200	012	-	Rel-5	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020285	S5-024162	32.200	013	-	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS Charging Scenarios	F	4.1.0	4.2.0	S5-28	OAM-CH
SP-020285	S5-024173	32.205	004	-	Rel-4	Corrections of parameter CallEventRecord	F	4.1.1	4.2.0	S5-28	OAM-CH
SP-020285	S5-024174	32.205	005	-	Rel-5	Corrections of parameter CallEventRecord	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024020	32.215	007	-	Rel-5	Addition of real-time delivery of Charging Data Records (CDRs) to the Billing System	B	5.0.0	5.1.0	S5-27	OAM-CH
SP-020289	S5-024024	32.215	008	-	Rel-5	Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	F	5.0.0	5.1.0	S5-28	OAM-CH
SP-020286	S5-024160	32.215	009	-	Rel-4	Correction of S-CDR triggers	F	4.2.1	4.3.0	S5-28	OAM-CH
SP-020286	S5-024161	32.215	010	-	Rel-5	Correction of S-CDR triggers	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024163	32.215	011	-	Rel-5	Addition of external charging identifier into G-CDR	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024164	32.215	012	-	Rel-5	Addition of an "IMS signalling PDP context" flag into G-CDR	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020288	S5-024165	32.215	013	-	Rel-4	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	F	4.2.1	4.3.0	S5-28	OAM-CH
SP-020288	S5-024166	32.215	014	-	Rel-5	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020285	S5-024167	32.215	015	-	Rel-4	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	F	4.2.1	4.3.0	S5-28	OAM-CH

SP-020285	S5-024168	32.215	016	-	Rel-5	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020285	S5-024154	32.235	002	-	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS CDRs and parameter definitions for Charging Scenarios	F	4.1.0	4.2.0	S5-27	OAM-CH
SP-020290	S5-026250	32.304	007	-	Rel-5	Correction of erroneous notification header mapping table	F	5.1.0	5.2.0	S5-28	OAM-NIM
SP-020290	S5-026251	32.304	008	-	Rel-5	Introduction of SS (32.304) to IS (32.302) relation and correction of Foreword	F	5.1.0	5.2.0	S5-28	OAM-NIM
SP-020291	S5-028137	32.403	003	2	Rel-4	Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down process to define measurements for inclusion in future 3GPP Releases	F	4.2.0	5.0.0	S5-28	OAM-PM
SP-020291	S5-028120	32.403	004	-	Rel-5	Adding performance measurement definitions related to GGSN	B	4.2.0	5.0.0	S5-28	OAM-PM
SP-020291	S5-028142	32.403	005	-	Rel-5	Introduction of an optional "Purpose" clause in the measurement template	B	4.2.0	5.0.0	S5-28	OAM-PM
SP-020291	S5-028141	32.403	006	-	Rel-5	Addition of explanatory text for Radio Access Bearer (RAB) measurements	D	4.2.0	5.0.0	S5-28	OAM-PM
SP-020294	S5-026261	32.603	005	-	Rel-4	Correcting IDL definitions of notification structured event Name Value pair names	F	4.2.0	4.3.0	S5-28	OAM-CM
SP-020295	S5-026139	32.611	001	-	Rel-5	Adding Bulk CM IRP requirements for Rel-5	C	4.0.0	5.0.0	S5-28	OAM-NIM
SP-020296	S5-026075	32.612	002	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020297	S5-026074	32.613	003	-	Rel-4	Add missing CORBA exceptions and descriptions of CORBA exception usage	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020296	S5-026076	32.613	004	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020296	S5-026077	32.614	002	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020298	S5-026262	32.615	003	-	Rel-5	New structure of specifications for the definition of Bulk CM IRP XML file formats	C	4.2.0	5.0.0	S5-28	OAM-NIM
SP-020299	S5-026043	32.622	005	-	Rel-4	Remove R99-inherited restriction of self-containment for MOC SubNetwork	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020300	S5-026045	32.624	007	-	Rel-4	Making 32.624 (CMIP SS) consistent with 32.622 (IS) and 32.623 (CORBA SS)	F	4.3.0	4.4.0	S5-27	OAM-CM
SP-020300	S5-026240	32.624	008	-	Rel-4	Align with 32.622 (IS) by changing "userDefinedState" from read-only to read-write	F	4.3.0	4.4.0	S5-28	OAM-CM
SP-020301	S5-026241	32.631	001	-	Rel-5	Adding Core Network Management requirements over Interface-N for Rel-5	B	4.0.0	5.0.0	S5-28	OAM-NIM
SP-020302	S5-026059	32.632	002	-	Rel-4	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020302	S5-026060	32.633	001	-	Rel-4	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020303	S5-026064	32.642	001	-	Rel-4	Corrections of reference in figure 6.2 and of attribute descriptions in UtranRelation in 32.642 (UTRAN network resources IRP: NRM)	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020304	S5-026087	32.642	002	-	Rel-4	Correction of supported IRP in system context	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020305	S5-026067	32.652	003	-	Rel-4	Addition of the attributes mcc and mnc in the object model of GERAN	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020305	S5-026068	32.652	004	-	Rel-4	Correction of attribute descriptions in the Managed Object Class (MOC) GsmRelation of 32.652 (GERAN network resources IRP: NRM)	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020304	S5-026088	32.652	005	-	Rel-4	Correction of supported IRP in system context	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020292	S5-028009	52.402	001	-	Rel-4	Correction of erroneous definitions of SGSN measurements	A	4.0.0	4.1.0	S5-27	OAM-PM
SP-020293	S5-028011	52.402	002	-	Rel-4	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	A	4.0.0	4.1.0	S5-27	OAM-PM

List of CRs by SA Tdoc#

Doc-1st-	Doc-2nd-	Spec	CR	F	Phase	Subject	Cat	Ver	Ver	Mtg	WI
SP-020282	S5-026239	32.111-3	016	-	Rel-4	Addition of 'indeterminate' probable cause in IDL definition	F	4.2.0	4.3.0	S5-28	OAM-FM
SP-020283	S5-026246	32.111-4	007	-	Rel-5	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	A	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020283	S5-026245	32.111-4	006	-	Rel-4	Correction of errors and ambiguities in the Parameter Mapping Tables and ASN.1 Definitions	F	4.2.0	4.3.0	S5-28	OAM-FM
SP-020284	S5-026249	32.111-4	010	-	Rel-5	Introduction of SS (32.111-4) to IS (32.111-2) relation and correction of Foreword	F	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020284	S5-026247	32.111-4	008	-	Rel-5	Addition of the parameter alarmListAlignmentRequirement to the notification notifyAlarmListRebuilt in the CMIP SS (32.111-4)	F	5.0.0	5.1.0	S5-27	OAM-NIM
SP-020284	S5-026248	32.111-4	009	-	Rel-5	Adding the notification notifyPotentialFaultyAlarmList in the CMIP SS (32.111-4)	F	5.0.0	5.1.0	S5-28	OAM-NIM
SP-020285	S5-024174	32.205	005	-	Rel-5	Corrections of parameter CallEventRecord	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020285	S5-024167	32.215	015	-	Rel-4	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	F	4.2.1	4.3.0	S5-28	OAM-CH
SP-020285	S5-024162	32.200	013	-	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS Charging Scenarios	F	4.1.0	4.2.0	S5-28	OAM-CH
SP-020285	S5-024168	32.215	016	-	Rel-5	Alignment with 23.271 (LCS stage 2) of CDR definition for LCS in PS domain	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020285	S5-024154	32.235	002	-	Rel-4	Align 32.200 (Charging Principles) with 32.235 (Service Charging) on MMS CDRs and parameter definitions for Charging Scenarios	F	4.1.0	4.2.0	S5-27	OAM-CH
SP-020285	S5-024173	32.205	004	-	Rel-4	Corrections of parameter CallEventRecord	F	4.1.1	4.2.0	S5-28	OAM-CH
SP-020286	S5-024158	32.200	011	-	Rel-4	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	F	4.1.0	4.2.0	S5-28	OAM-CH
SP-020286	S5-024159	32.200	012	-	Rel-5	Align with 23.060 by adding 'intra-SGSN intersystem change' as record closure criterion for S-CDR	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020286	S5-024160	32.215	009	-	Rel-4	Correction of S-CDR triggers	F	4.2.1	4.3.0	S5-28	OAM-CH
SP-020286	S5-024161	32.215	010	-	Rel-5	Correction of S-CDR triggers	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024149	32.200	007	-	Rel-5	Clarifying the off-line IMS Charging architecture	F	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024115	32.200	008	-	Rel-5	Inclusion of content charging functions from 23.815	C	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024026	32.200	006	-	Rel-5	Naming of the interfaces to the Billing System	C	5.0.0	5.1.0	S5-27	OAM-CH
SP-020287	S5-024151	32.200	009	-	Rel-5	Inclusion of generic flows for event-based charging at the Ro reference point from 23.815	C	5.0.0	5.1.0	S5-28	OAM-CH
SP-020287	S5-024152	32.200	010	-	Rel-5	Adding definition for the Charging Collection Function (CCF)	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020288	S5-024166	32.215	014	-	Rel-5	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	A	5.0.0	5.1.0	S5-28	OAM-CH
SP-020288	S5-024165	32.215	013	-	Rel-4	Correcting definition of traffic data volume CDR field & Specify usage of the LRSN to avoid loss of billing data	F	4.2.1	4.3.0	S5-28	OAM-CH
SP-020289	S5-024163	32.215	011	-	Rel-5	Addition of external charging identifier into G-CDR	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024024	32.215	008	-	Rel-5	Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	F	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024164	32.215	012	-	Rel-5	Addition of an "IMS signalling PDP context" flag into G-CDR	B	5.0.0	5.1.0	S5-28	OAM-CH
SP-020289	S5-024020	32.215	007	-	Rel-5	Addition of real-time delivery of Charging Data Records (CDRs) to the Billing System	B	5.0.0	5.1.0	S5-27	OAM-CH
SP-020290	S5-026250	32.304	007	-	Rel-5	Correction of erroneous notification header mapping table	F	5.1.0	5.2.0	S5-28	OAM-NIM
SP-020290	S5-026251	32.304	008	-	Rel-5	Introduction of SS (32.304) to IS (32.302) relation and correction of Foreword	F	5.1.0	5.2.0	S5-28	OAM-NIM
SP-020291	S5-028137	32.403	003	2	Rel-5	Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down	F	4.2.0	5.0.0	S5-28	OAM-PM

3GPP

						process to define measurements for inclusion in future 3GPP Releases					
SP-020291	S5-028141	32.403	006	-	Rel-5	Addition of explanatory text for Radio Access Bearer (RAB) measurements	D	4.2.0	5.0.0	S5-28	OAM-PM
SP-020291	S5-028120	32.403	004	-	Rel-5	Adding performance measurement definitions related to GGSN	B	4.2.0	5.0.0	S5-28	OAM-PM
SP-020291	S5-028142	32.403	005	-	Rel-5	Introduction of an optional "Purpose" clause in the measurement template	B	4.2.0	5.0.0	S5-28	OAM-PM
SP-020292	S5-028009	52.402	001	-	Rel-4	Correction of erroneous definitions of SGSN measurements	A	4.0.0	4.1.0	S5-27	OAM-PM
SP-020292	S5-028010	12.04	A002	-	R99	Correction of erroneous definitions of SGSN measurements	F	8.0.0	8.1.0	S5-27	OAM-PM
SP-020293	S5-028012	12.04	A003	-	R99	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	F	8.0.0	8.1.0	S5-27	OAM-PM
SP-020293	S5-028011	52.402	002	-	Rel-4	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	A	4.0.0	4.1.0	S5-27	OAM-PM
SP-020294	S5-026261	32.603	005	-	Rel-4	Correcting IDL definitions of notification structured event Name Value pair names	F	4.2.0	4.3.0	S5-28	OAM-CM
SP-020295	S5-026139	32.611	001	-	Rel-5	Adding Bulk CM IRP requirements for Rel-5	C	4.0.0	5.0.0	S5-28	OAM-NIM
SP-020296	S5-026075	32.612	002	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020296	S5-026077	32.614	002	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020296	S5-026076	32.613	004	-	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020297	S5-026074	32.613	003	-	Rel-4	Add missing CORBA exceptions and descriptions of CORBA exception usage	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020298	S5-026262	32.615	003	-	Rel-5	New structure of specifications for the definition of Bulk CM IRP XML file formats	C	4.2.0	5.0.0	S5-28	OAM-NIM
SP-020299	S5-026043	32.622	005	-	Rel-4	Remove R99-inherited restriction of self-containment for MOC SubNetwork	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020300	S5-026240	32.624	008	-	Rel-4	Align with 32.622 (IS) by changing "userDefinedState" from read-only to read-write	F	4.3.0	4.4.0	S5-28	OAM-CM
SP-020300	S5-026045	32.624	007	-	Rel-4	Making 32.624 (CMIP SS) consistent with 32.622 (IS) and 32.623 (CORBA SS)	F	4.3.0	4.4.0	S5-27	OAM-CM
SP-020301	S5-026241	32.631	001	-	Rel-5	Adding Core Network Management requirements over Interface-N for Rel-5	B	4.0.0	5.0.0	S5-28	OAM-NIM
SP-020302	S5-026060	32.633	001	-	Rel-4	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020302	S5-026059	32.632	002	-	Rel-4	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.1.0	4.2.0	S5-27	OAM-CM
SP-020303	S5-026064	32.642	001	-	Rel-4	Corrections of reference in figure 6.2 and of attribute descriptions in UtranRelation in 32.642 (UTRAN network resources IRP: NRM)	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020304	S5-026088	32.652	005	-	Rel-4	Correction of supported IRP in system context	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020304	S5-026087	32.642	002	-	Rel-4	Correction of supported IRP in system context	F	4.0.0	4.1.0	S5-27	OAM-CM
SP-020305	S5-026067	32.652	003	-	Rel-4	Addition of the attributes mcc and mnc in the object model of GERAN	F	4.2.0	4.3.0	S5-27	OAM-CM
SP-020305	S5-026068	32.652	004	-	Rel-4	Correction of attribute descriptions in the Managed Object Class (MOC) GsmRelation of 32.652 (GERAN network resources IRP: NRM)	F	4.2.0	4.3.0	S5-27	OAM-CM

Annex S: SA5 specifications

List of SA5 specifications by Number

Nr.	Title	Rel	freeze	ver	rapp
12.00	Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management	Ph2		4.6.0	TRUSS, Michael
12.01	Network Management (NM); Part 2: Common aspects of SM/DCS 1800 Network Management	Ph2		4.4.1	TRUSS, Michael
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	Ph2		4.6.1	TRUSS, Michael
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	R96		5.0.1	TRUSS, Michael
12.03	Security Management	Ph2		4.2.1	TRUSS, Michael
12.03	Security Management	R98		7.0.1	TRUSS, Michael
12.03	Security Management	R99		8.0.0	TRUSS, Michael
12.04	Performance data measurements	Ph2		4.3.1	NENNER, Karl-Heinz
12.04	Performance data measurements	R98		7.0.0	NENNER, Karl-Heinz
12.04	Performance data measurements	R99		8.1.0	NENNER, Karl-Heinz
12.05	Subscriber Related Call and Event Data	Ph2		4.3.1	BENDER, James
12.05	Subscriber Related Call and Event Data	R96		5.0.1	BENDER, James
12.05	Subscriber Related Call and Event Data	R97		6.1.0	BENDER, James
12.05	Subscriber Related Call and Event Data	R98		7.0.1	BENDER, James
12.06	Network Configuration Management and Administration	Ph2		4.1.1	TOVINGER, Thomas
12.08	Subscriber and Equipment trace	Ph2		4.6.1	RONKA, Kari
12.08	Subscriber and Equipment trace	R96		5.1.1	RONKA, Kari
12.10	Maintenance Provisions for Operational Integrity of MSs	Ph1		none	TRUSS, Michael
12.11	Fault management of the Base Station System (BSS)	Ph2		4.2.1	TOVINGER, Thomas
12.11	Fault management of the Base Station System (BSS)	R97		6.3.0	TOVINGER, Thomas
12.13	Maintenance of the Mobile-services Switching Centre	Ph1		none	TRUSS, Michael
12.14	Maintenance of Location Registers	Ph1		none	TRUSS, Michael
12.15	General Packet Radio Service (GPRS); GPRS Charging	R97		6.2.0	LEHNERT, Matthias
12.15	General Packet Radio Service (GPRS); GPRS Charging	R98		7.6.0	LEHNERT, Matthias
12.20	Base Station System (BSS) Management Information	Ph2		4.2.1	TRUSS, Michael
12.30	ETSI Object Identifier Tree; Mobile Domain O&M	Ph2		4.2.0	TRUSS, Michael
12.71	Location Services (LCS); Location services management	R98		7.0.1	GARAPATY, Sonia
12.71	Location Services (LCS); Location services management	R99		8.0.1	GARAPATY, Sonia
32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	R99	SP-08	3.6.0	BENDER, James
32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	R99	SP-08	3.9.0	LEHNERT, Matthias
32.101	3G Telecom Management principles and high level requirements	R99	SP-07	3.4.0	TRUSS, Michael
32.101	3G Telecom Management principles and high level requirements	Rel-4	SP-11	4.2.1	TRUSS, Michael
32.101	3G Telecom Management principles and high level requirements	Rel-5	SP-15	5.0.0	TRUSS, Michael
32.102	3G Telecom Management Architecture	R99	SP-07	3.2.0	BERGGREN, Tommy

3GPP

32.102	3G Telecom Management Architecture	Rel-4	SP-11	4.2.0	BERGGREN, Tommy
32.102	3G Telecom Management Architecture	Rel-5	SP-15	5.0.0	BERGGREN, Tommy
32.104	3G Performance Management	R99	SP-07	3.5.0	NENNER, Karl-Heinz
32.106-1	Telecommunication management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	R99	SP-07	3.1.0	PIRT, Trevor
32.106-2	Telecommunication management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	R99	SP-07	3.3.0	TSE, Edwin
32.106-3	Telecommunication management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	R99	SP-07	3.3.0	TOVINGER, Thomas
32.106-4	Telecommunication management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	R99	SP-07	3.2.0	ZHOU, Di
32.106-5	Telecommunication management; Configuration Management; Part 5: Basic Configuration Management Integration Reference Point (IRP) information model (including NRM) version 1	R99	SP-10	3.2.0	TOVINGER, Thomas
32.106-6	Telecommunication management; Configuration Management; Part 6: Basic Configuration Management Integration Reference Point (IRP) CORBA solution set version 1:1	R99	SP-10	3.3.0	ZHOU, Di
32.106-7	Telecommunication management; Configuration Management; Part 7: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set version 1:1	R99	SP-10	3.3.0	TOVINGER, Thomas
32.106-8	Telecommunication management; Configuration Management; Part 8: Name convention for Managed Objects	R99	SP-07	3.2.0	TOVINGER, Thomas
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	R99	SP-08	3.2.0	TOVINGER, Thomas
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	R99	SP-08	3.3.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	R99	SP-08	3.6.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	R99	SP-08	3.2.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-5	SP-15	5.1.0	TOVINGER, Thomas
32.140	Services operations management; Subscription management requirements	Rel-6	SP-16	1.0.0	CARYER, Geoffrey
32.200	Telecommunication management; Charging management; Charging principles	Rel-4	SP-14	4.2.0	AHLBACK, Hans
32.200	Telecommunication management; Charging management; Charging principles	Rel-5	SP-17	5.1.0	AHLBACK, Hans
32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-4		4.2.0	BENDER, James
32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-5	SP-15	5.1.0	BENDER, James
32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-4	tbd	4.3.0	LEHNERT, Matthias
32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-5	SP-15	5.1.0	LEHNERT, Matthias
32.225	Telecommunication management; Charging management; Charging data description for the IP Multemedia Subsystem (IMS)	Rel-5	SP-17	1.5.0	SHARON, Ariel
32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-4	tbd	4.2.0	GOERMER, Gerald
32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-5	SP-16	5.0.0	GOERMER, Gerald
32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.301	Telecommunication management; Configuration Management; Notification Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.1	PIRT, Trevor
32.301	Telecommunication management; Configuration Management; Notification Integration Reference Point (IRP): requirements	Rel-5	SP-15	5.0.0	PIRT, Trevor

32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-4	SP-12	4.1.0	TSE, Edwin
32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-5	SP-15	5.0.1	TSE, Edwin
32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-4	SP-12	4.2.0	ZHOU, Di
32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-5	SP-15	5.2.0	ZHOU, Di
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	Rel-4	SP-12	4.0.1	TOVINGER, Thomas
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information service	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information service	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.321	Telecommunication management; Test management Integration Reference Point (IRP); Requirements	Rel-5	SP-15	1.0.0	POLLAKOWSKI, Olaf
32.322	Telecommunication management; Test management Integration Reference Point (IRP); Information service	Rel-5	SP-18	1.0.0	POLLAKOWSKI, Olaf
32.323	Telecommunication management; Test management Integration Reference Point (IRP); Corba solution set	Rel-6	tbd	1.0.0	POLLAKOWSKI, Olaf
32.324	Telecommunication management; Test management Integration Reference Point (IRP); CMIP solution set	Rel-5	SP-18	1.0.0	POLLAKOWSKI, Olaf
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-4	tbd	4.1.0	HUBINETTE, Ulf
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-5	SP-15	5.0.0	HUBINETTE, Ulf
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-4	SP-12	4.2.0	TOCHE, Christian
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-5	SP-15	5.0.0	TOCHE, Christian
32.411	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Requirements	Rel-6	tbd	none	HUBINETTE, Ulf
32.421	Telecommunication management; subscriber and equipment trace: Trace concepts and requirements	Rel-6	tbd	1.0.0	RONKA, Kari
32.422	Telecommunication management; subscriber and equipment trace: Trace control and configuration management	Rel-6	tbd	none	RONKA, Kari
32.423	Telecommunication management; subscriber and equipment trace: Trace data definition and management	Rel-6	tbd	none	RONKA, Kari
32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.601	Telecommunication management; Configuration Management; Basic CM Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.601	Telecommunication management; Configuration Management; Basic CM Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.602	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) information model	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.602	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) information model	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.603	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.3.0	ZHOU, Di
32.603	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.604	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) CMIP solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.604	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM Integration Reference Point (IRP) requirements	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM Integration Reference Point (IRP) requirements	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): Information service	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): Information service	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas

3GPP

32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): XML file format definition	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): XML file format definition	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.621	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.621	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.622	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.622	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.623	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.2.0	ZHOU, Di
32.623	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.624	Telecommunication management; Configuration Management; Generic network resources: Integration Reference Point (IRP) CMIP solution set	Rel-4	SP-12	4.4.0	TOVINGER, Thomas
32.624	Telecommunication management; Configuration Management; Generic network resources: Integration Reference Point (IRP) CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.625	Telecommunication management; 3G Configuration Management; Generic network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-15	1.0.0	BONNEAU, Frédéric
32.631	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.631	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.632	Telecommunication management; Configuration Management; Core Network Resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.632	Telecommunication management; Configuration Management; Core Network Resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.633	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di
32.633	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.634	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.634	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.635	Telecommunication management; 3G Configuration Management; Generic network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric
32.641	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.641	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.642	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.642	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.643	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di
32.643	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.644	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.644	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.645	Telecommunication management; 3G Configuration Management; UTRAN network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric
32.651	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.651	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.652	Telecommunication management; Configuration Management; GERAN netw ork resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.652	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.653	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di

32.653	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.654	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.654	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.655	Telecommunication management; 3G Configuration Management; GERAN network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric
32.661	Telecommunication management; 3G configuration management; Kernel CM requirements	Rel-5	SP-18	1.0.0	WILBER, John
32.662	Telecommunication management; 3G configuration management; Kernel CM information service	Rel-5	SP-18	1.0.0	WILBER, John
32.663	Telecommunication management; 3G configuration management; Kernel CM CORBA solution set	Rel-6	tbd	none	WILBER, John
32.664	Telecommunication management; 3G configuration management; Kernel CM CMIP solution set	Rel-6	tbd	none	WILBER, John
32.671	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): Requirements	Rel-5	SP-15	1.0.0	ZHOU, Di
32.672	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): Information service	Rel-5	SP-15	1.0.0	ZHOU, Di
32.673	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): CORBA Solution set	Rel-5	SP-15	none	ZHOU, Di
32.674	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): CMIP Solution set	Rel-5	SP-15	0.1.0	ZHOU, Di
32.681	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Requirements	Rel-5	SP-17	none	PAL, Tapinder
32.682	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP) : Information service	Rel-5	SP-17	none	PAL, Tapinder
32.683	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-17	none	PAL, Tapinder
32.684	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-17	none	PAL, Tapinder
32.800	Management level procedures and interaction with UTRAN	Rel-4	SP-12	4.0.0	BODEN, Bert
32.800	Management level procedures and interaction with UTRAN	Rel-5	SP-15	5.0.0	BODEN, Bert
32.802	Telecommunication management; User Equipment (UE) management feasibility study	Rel-5	SP-16	5.0.0	MUDGE, John
52.008	Telecommunication management; GSM subscriber and equipment trace	Rel-6	tbd	none	RONKA, Kari
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	Rel-4	SP-13	4.1.0	TOCHE, Christian
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	Rel-5	SP-16	5.0.0	TOCHE, Christian

List of SA5 specifications by Release

Nr	Title	Rel	freeze	ver	Rapp
12.10	Maintenance Provisions for Operational Integrity of MSs	Ph1		none	TRUSS, Michael
12.13	Maintenance of the Mobile-services Switching Centre	Ph1		none	TRUSS, Michael
12.14	Maintenance of Location Registers	Ph1		none	TRUSS, Michael
12.00	Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management	Ph2		4.6.0	TRUSS, Michael
12.01	Network Management (NM); Part 2: Common aspects of SM/DCS 1800 Network Management	Ph2		4.4.1	TRUSS, Michael
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	Ph2		4.6.1	TRUSS, Michael
12.03	Security Management	Ph2		4.2.1	TRUSS, Michael
12.04	Performance data measurements	Ph2		4.3.1	NENNER, Karl-Heinz
12.05	Subscriber Related Call and Event Data	Ph2		4.3.1	BENDER, James
12.06	Network Configuration Management and Administration	Ph2		4.1.1	TOVINGER, Thomas
12.08	Subscriber and Equipment trace	Ph2		4.6.1	RONKA, Kari
12.11	Fault management of the Base Station System (BSS)	Ph2		4.2.1	TOVINGER, Thomas
12.20	Base Station System (BSS) Management Information	Ph2		4.2.1	TRUSS, Michael
12.30	ETSI Object Identifier Tree; Mobile Domain O&M	Ph2		4.2.0	TRUSS, Michael
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	R96		5.0.1	TRUSS, Michael
12.05	Subscriber Related Call and Event Data	R96		5.0.1	BENDER, James
12.08	Subscriber and Equipment trace	R96		5.1.1	RONKA, Kari
12.05	Subscriber Related Call and Event Data	R97		6.1.0	BENDER, James
12.11	Fault management of the Base Station System (BSS)	R97		6.3.0	TOVINGER, Thomas
12.15	General Packet Radio Service (GPRS); GPRS Charging	R97		6.2.0	LEHNERT, Matthias
12.03	Security Management	R98		7.0.1	TRUSS, Michael
12.04	Performance data measurements	R98		7.0.0	NENNER, Karl-Heinz
12.05	Subscriber Related Call and Event Data	R98		7.0.1	BENDER, James
12.15	General Packet Radio Service (GPRS); GPRS Charging	R98		7.6.0	LEHNERT, Matthias
12.71	Location Services (LCS); Location services management	R98		7.0.1	GARAPATY, Sonia
12.03	Security Management	R99		8.0.0	TRUSS, Michael
12.04	Performance data measurements	R99		8.1.0	NENNER, Karl-Heinz
12.71	Location Services (LCS); Location services management	R99		8.0.1	GARAPATY, Sonia
32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	R99	SP-08	3.6.0	BENDER, James
32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	R99	SP-08	3.9.0	LEHNERT, Matthias
32.101	3G Telecom Management principles and high level requirements	R99	SP-07	3.4.0	TRUSS, Michael
32.102	3G Telecom Management Architecture	R99	SP-07	3.2.0	BERGGREN, Tommy
32.104	3G Performance Management	R99	SP-07	3.5.0	NENNER, Karl-Heinz
32.106-1	Telecommunication management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	R99	SP-07	3.1.0	PIRT, Trevor
32.106-2	Telecommunication management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	R99	SP-07	3.3.0	TSE, Edwin

32.106-3	Telecommunication management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	R99	SP-07	3.3.0	TOVINGER, Thomas
32.106-4	Telecommunication management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	R99	SP-07	3.2.0	ZHOU, Di
32.106-5	Telecommunication management; Configuration Management; Part 5: Basic Configuration Management Integration Reference Point (IRP) information model (including NRM) version 1	R99	SP-10	3.2.0	TOVINGER, Thomas
32.106-6	Telecommunication management; Configuration Management; Part 6: Basic Configuration Management Integration Reference Point (IRP) CORBA solution set version 1:1	R99	SP-10	3.3.0	ZHOU, Di
32.106-7	Telecommunication management; Configuration Management; Part 7: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set version 1:1	R99	SP-10	3.3.0	TOVINGER, Thomas
32.106-8	Telecommunication management; Configuration Management; Part 8: Name convention for Managed Objects	R99	SP-07	3.2.0	TOVINGER, Thomas
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	R99	SP-08	3.2.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	R99	SP-08	3.3.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	R99	SP-08	3.6.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	R99	SP-08	3.2.0	TOVINGER, Thomas
32.101	3G Telecom Management principles and high level requirements	Rel-4	SP-11	4.2.1	TRUSS, Michael
32.102	3G Telecom Management Architecture	Rel-4	SP-11	4.2.0	BERGGREN, Tommy
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.200	Telecommunication management; Charging management; Charging principles	Rel-4	SP-14	4.2.0	AHLBACK, Hans
32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-4		4.2.0	BENDER, James
32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-4	tbd	4.3.0	LEHNERT, Matthias
32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-4	tbd	4.2.0	GOERMER, Gerald
32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.301	Telecommunication management; Configuration Management; Notification Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.1	PIRT, Trevor
32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-4	SP-12	4.1.0	TSE, Edwin
32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-4	SP-12	4.2.0	ZHOU, Di
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	Rel-4	SP-12	4.0.1	TOVINGER, Thomas
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information service	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-4	tbd	4.1.0	HUBINETTE, Ulf
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-4	SP-12	4.2.0	TOCHE, Christian
32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.601	Telecommunication management; Configuration Management; Basic CM Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.602	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) information model	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.603	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.3.0	ZHOU, Di
32.604	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) CMIP solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM Integration Reference Point (IRP) requirements	Rel-4	SP-12	4.0.0	TOVINGER, Thomas
32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): Information service	Rel-4	SP-12	4.2.0	TOVINGER, Thomas

32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): XML file format definition	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.621	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.622	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.623	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.2.0	ZHOU, Di
32.624	Telecommunication management; Configuration Management; Generic network resources: Integration Reference Point (IRP) CMIP solution set	Rel-4	SP-12	4.4.0	TOVINGER, Thomas
32.631	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.632	Telecommunication management; Configuration Management; Core Network Resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.2.0	TOVINGER, Thomas
32.633	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di
32.634	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.641	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.642	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.643	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di
32.644	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.651	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): requirements	Rel-4	SP-12	4.0.0	PIRT, Trevor
32.652	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): NRM	Rel-4	SP-12	4.3.0	TOVINGER, Thomas
32.653	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-4	SP-12	4.1.0	ZHOU, Di
32.654	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-4	SP-12	4.1.0	TOVINGER, Thomas
32.800	Management level procedures and interaction with UTRAN	Rel-4	SP-12	4.0.0	BODEN, Bert
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	Rel-4	SP-13	4.1.0	TOCHE, Christian
32.101	3G Telecom Management principles and high level requirements	Rel-5	SP-15	5.0.0	TRUSS, Michael
32.102	3G Telecom Management Architecture	Rel-5	SP-15	5.0.0	BERGGREN, Tommy
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-5	SP-15	5.1.0	TOVINGER, Thomas
32.200	Telecommunication management; Charging management; Charging principles	Rel-5	SP-17	5.1.0	AHLBACK, Hans
32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-5	SP-15	5.1.0	BENDER, James
32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-5	SP-15	5.1.0	LEHNERT, Matthias
32.225	Telecommunication management; Charging management; Charging data description for the IP Multemedia Subsystem (IMS)	Rel-5	SP-17	1.5.0	SHARON, Ariel
32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-5	SP-16	5.0.0	GOERMER, Gerald
32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.301	Telecommunication management; Configuration Management; Notification Integration Reference Point (IRP): requirements	Rel-5	SP-15	5.0.0	PIRT, Trevor
32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-5	SP-15	5.0.1	TSE, Edwin

32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-5	SP-15	5.2.0	ZHOU, Di
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information service	Rel-5	SP-15	5.0.0	TOVINGER, Thomas
32.321	Telecommunication management; Test management Integration Reference Point (IRP); Requirements	Rel-5	SP-15	1.0.0	POLLAKOWSKI, Olaf
32.322	Telecommunication management; Test management Integration Reference Point (IRP); Information service	Rel-5	SP-18	1.0.0	POLLAKOWSKI, Olaf
32.324	Telecommunication management; Test management Integration Reference Point (IRP); CMIP solution set	Rel-5	SP-18	1.0.0	POLLAKOWSKI, Olaf
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-5	SP-15	5.0.0	HUBINETTE, Ulf
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-5	SP-15	5.0.0	TOCHE, Christian
32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.601	Telecommunication management; Configuration Management; Basic CM Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.602	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) information model	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.603	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.604	Telecommunication management; Configuration Management; Basic configuration management Integration Reference Point (IRP) CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM Integration Reference Point (IRP) requirements	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): Information service	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management Integration Reference Point (IRP): XML file format definition	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.621	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.622	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.623	Telecommunication management; Configuration Management; Generic network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.624	Telecommunication management; Configuration Management; Generic network resources: Integration Reference Point (IRP) CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.625	3G Configuration Management; Generic network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-15	1.0.0	BONNEAU, Frédéric
32.631	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.632	Telecommunication management; Configuration Management; Core Network Resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.633	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.634	Telecommunication management; Configuration Management; Core network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.635	Telecommunication management; 3G Configuration Management; Generic network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric
32.641	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.642	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.643	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.644	Telecommunication management; Configuration Management; UTRAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.645	Telecommunication management; 3G Configuration Management; UTRAN network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric

32.651	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): requirements	Rel-5	SP-16	5.0.0	PIRT, Trevor
32.652	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): NRM	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.653	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-16	5.0.0	ZHOU, Di
32.654	Telecommunication management; Configuration Management; GERAN network resources Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-16	5.0.0	TOVINGER, Thomas
32.655	Telecommunication management; 3G Configuration Management; GERAN network resources Integration Reference Point (IRP): Bulk CM XML file format definition	Rel-5	SP-16	1.0.0	BONNEAU, Frédéric
32.661	Telecommunication management; 3G configuration management; Kernel CM requirements	Rel-5	SP-18	1.0.0	WILBER, John
32.662	Telecommunication management; 3G configuration management; Kernel CM information service	Rel-5	SP-18	1.0.0	WILBER, John
32.671	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): Requirements	Rel-5	SP-15	1.0.0	ZHOU, Di
32.672	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): Information service	Rel-5	SP-15	1.0.0	ZHOU, Di
32.673	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): CORBA Solution set	Rel-5	SP-15	none	ZHOU, Di
32.674	Telecommunication management; 3G Configuration Management; State Management Integration Reference Point (IRP): CMIP Solution set	Rel-5	SP-15	0.1.0	ZHOU, Di
32.681	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Requirements	Rel-5	SP-17	none	PAL, Tapinder
32.682	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Information service	Rel-5	SP-17	none	PAL, Tapinder
32.683	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CORBA solution set	Rel-5	SP-17	none	PAL, Tapinder
32.684	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CMIP solution set	Rel-5	SP-17	none	PAL, Tapinder
32.800	Management level procedures and interaction with UTRAN	Rel-5	SP-15	5.0.0	BODEN, Bert
32.802	Telecommunication management; User Equipment (UE) management feasibility study	Rel-5	SP-16	5.0.0	MUDGE, John
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	Rel-5	SP-16	5.0.0	TOCHE, Christian
32.140	Services operations management; Subscription management requirements	Rel-6	SP-16	1.0.0	CARYER, Geoffrey
32.323	Telecommunication management; Test management Integration Reference Point (IRP); Corba solution set	Rel-6	tbd	1.0.0	POLLAKOWSKI, Olaf
32.411	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Requirements	Rel-6	tbd	none	HUBINETTE, Ulf
32.421	Telecommunication management; subscriber and equipment trace: Trace concepts and requirements	Rel-6	tbd	1.0.0	RONKA, Kari
32.422	Telecommunication management; subscriber and equipment trace: Trace control and configuration management	Rel-6	tbd	none	RONKA, Kari
32.423	Telecommunication management; subscriber and equipment trace: Trace data definition and management	Rel-6	tbd	none	RONKA, Kari
32.663	Telecommunication management; 3G configuration management; Kernel CM CORBA solution set	Rel-6	tbd	none	WILBER, John
32.664	Telecommunication management; 3G configuration management; Kernel CM CMIP solution set	Rel-6	tbd	none	WILBER, John
52.008	Telecommunication management; GSM subscriber and equipment trace	Rel-6	tbd	none	RONKA, Kari

Annex T: Terms of Reference of SA5 and its SWGs

T.1   TSG SA WG5 Terms of Reference

http://www.3gpp.org/TB/sa/sa5/ToR.htm

The WG will specify the management framework and requirements for management of the 3G system, delivering the architecture descriptions of the telecommunication management network (TMN) of the 3G system and coordinating across TSGs all relevant specification work pertinent to the 3G system telecom management.

T.2   SA5's SWGs Terms of Reference

http://www.3gpp.org/ftp/TSG_SA/WG5_TM/_ToR/

T.2.1   SWGA - Telecom Management Architecture and Requirements

S5-010524-SWGA -Terms.zip

Terms of Reference:

The SWG will specify the architecture and requirements of the Telecommunication Management Network (TMN) of the 3G system.

Scope:

The scope of the SWG is :

?? The high level management requirements, covering the Architectural framework, UMTS Management Processes and UMTS Management functional architecture.

?? The UMTS management physical architecture and definition of the Integration Reference Point (IRP) concepts and methodology, and UMTS TMN conformance.

?? The application of IRP concepts and methodology for selected functional areas.

?? Management of the SA5 work plan.

T.2.2   SWGB - Charging Management

S5B010629_Terms_of_Reference.zip need to be updated now after the split of work between SWG & SWGD respectively):

Terms of Reference (to be updated after the split of Charging & PM/Trace)

In line with the overall Terms of Reference of 3GPP SA5, SWGB is responsible for the specification of

?? principles and requirements

?? architectural aspects (based on SA2 defined network architecture and SA5 SWGA defined NM architecture)

?? data definitions

pertaining to all data that is generated by metering/collection processes executed in the network under the control or management by the Network Operator. This includes but may not be limited to:

?? network/resource usage records for the purpose of billing

For special applications, such as hot or real time charging or inter-operator aspects of charging, SWGB may also specify stream interfaces if required for the specific purpose.

T.2.3   SWGC - Telecom Network Infrastructure Management

S5-010661_S5C010439-SWGC_ToR.zip

Terms of Reference:

The SWGC is responsible for specifying IRPs (Integration Reference Points) for the telecom management of the 3G system infrastructure over Itf-N, focusing on CM, FM and PM (for PM: excluding the measurement data definitions). Each of these IRPs shall comprise Requirements, a protocol and technology neutral Information Service or Network Resource Model, and one or more protocol/technology specific Solution Sets. For the consistency of these IRPs with the overall Architecture and Principles of SA5, one or more High-level concept and requirement specifications may also be produced.

For definition of the terms IRP, Itf-N, Network Resource Model, Information Service and Solution Set, please refer to 3GPP TS 32.101.

T.2.4   SWGD - Performance Management and Trace Management

S5-028139 SWG-D ToR.zip

Terms of Reference:

In line with the overall Terms of Reference of 3GPP SA5, the SWG-D is responsible for specifying the Telecom Management of the 3G system for the Performance Management and Trace Management functions.

Scope:

- ??   High-level concepts and requirements for the Performance Management and Trace Management functions.

- ??   Network performance observation data definition and management.

- ??   Subscriber and UE activity trace data definition and management.

- ??   Observation and trace data collection control and configuration management.

- ??   Bulk interfaces for observation and trace data transfer from the network to the network manager.

- ??   Specify the usage of IRPs defined by another SA5 SWG.

- ??   Requirements for IRPs specified by another SA5 SWG.

Annex W: SA5 Work Items & Work Plan

Work Item Type: Feature	Rel	Work Item ID	Specifications	Work Item Description	Status
Charging and Operations, Administration, Maintenance & Provisioning (OAM&P)	Rel-5	OAM	32.0xy / 52.0xy	SP-010461 (S5-010527)	Ongoing (completion 09/2002)
Building Blocks under this Feature	**Rel**	**Work Item ID**	**Specifications**	**Work Item Description**	**Status**
Principles, high-level requirements and architecture	Rel-5	OAM-AR	32.101, 32.102	SP-010461 (S5-010525)	Completed
Performance Management	Rel-5	OAM-PM	32. 4xy / 52.4xys	SP-010238 (S5-010489)	Ongoing
Network Infrastructure Management	Rel-5	OAM-NIM	32.3xy-/32.6xy	SP-010461 (S5-010562)	Ongoing
Charging Management	Rel-5	OAM-CH	32.2xy	SP-010654	Ongoing
Trace Management	Rel-6	OAM-TraceMg	32.42x, 52.008	SP-020332	Ongoing

Work Item Type: Feature	Rel	Work Item ID	Specifications	Work Item Description	Status
Subscription Management	Rel-5	SuM	32.140	SP-000524 (S5-000568)	Moved to Rel-6
User Equipment Management - Feasibility Study	Rel-5	UEM	32.802	SP-010286 (S5-010463)	Completed
Trace Management	Rel-5	TraceMg	32.42x, 52.008	SP-010758	Moved to Rel-6 as BB

Annex Z: SA5 administrative issues

This annex briefly outlines some of the more important locations of information that all SA5 members should be aware of.

Z.1   Where to find the latest SA5 specifications on the Server

All 3GPP (GSM and 3G) specifications   ftp://ftp.3gpp.org/specs/
Specification status database   ftp://ftp.3gpp.org/Information/Databases/Spec_Status

?? The 3GPP-specifications "Status List" can be found at:http://www.3gpp.org/specs/specs.htm

?? After each TSG SA meeting the updated 3GPP Specifications set is made available on the 3GPP server at:
ftp://www.3gpp.org/Specs/archive/

?? The March 2002 specifications set can be found at:ftp://www.3gpp.org/Specs/2002-03/

The SA5-produced specifications can be found at:

a) Specifications under Change Control (CR)   ftp://www.3gpp.org/Specs/2002-03/R1999/32_series/
ftp://www.3gpp.org/Specs/2002-03/Rel-4/32_series/
ftp://www.3gpp.org/Specs/2002-03/Rel-4/52_series/
ftp://www.3gpp.org/Specs/2002-03/Rel-5/32_series/
b) Latest drafts (NOT under CR)   ftp://www.3gpp.org/Specs/Latest-drafts/

Z.2   How to communicate: 3GPP email lists

There are many 3GPP email lists that may also be of interest (see http://www.3gpp.org/email/lists.htm)

If at any time you would like to confirm which lists you are currently a member of, just sent a message to listserv@list.3gpp.org with the following single line of text in the body of the message:

QUERY *

To receive information about SA5 issues you need to subscribe to email lists:

3GPP_TSG_SA_WG5
3GPP_TSG_SA_WG 5: TSG SA5 Telecoms Management

3GPP_TSG_SA_WG5_SWGA

3GPP_TSG_SA_WG5_SWGA : Architecture & Requirements

3GPP_TSG_SA_WG5_SWGB

3GPP_TSG_SA_WG5_SWGB : Charging

3GPP_TSG_SA_WG5_SWGC

3GPP_TSG_SA_WG5_SWGC : Telecom Network Infrastructure

3GPP_TSG_SA_WG5_SWGD

3GPP_TSG_SA_WG5_SWGD : Performance & Trace Management

This can be done by sending an email to listserv@list.3gpp.org with the following single line of text in the body of the message:

subscribe 3GPP_TSG_SA_WG5 YourFirstName YourLastName

All 3GPP lists have an associated archive of every email sent via that list. Information on how to access the archive are sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you

can check to see if you have missed any messages. The easiest was to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the *3GPP_TSG_SA_WG5* list between 1 May 2001 and the current date, send the following command to listserv@list.3gpp.org :

> search * in 3GPP_TSG_SA_WG5 since May 2001

> As well as a list of emails sent, you receive instructions about how to retrieve the emails.

3GPP archives are also available via the internet (see http://list.3gpp.org/archives/)

Z.3   How to attend meetings: Calendar, Invitation, Registration

The central location for all information relating to the 3GPP meeting calendar can be found at: http://www.3gpp.org/Meetings/meetings.htm

An on-line meeting registration tool allows the participants to register via a web interface. You are kindly requested to register at: http://webapp.etsi.org/3GPPRegistration/fMain.asp?mid =

> EXAMPLE: 3GPPSA5-#28   http://webapp.etsi.org/MeetingCalendar/MeetingDetails.asp?mid=21971

Invitations to SA5 meetings are at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/invitation/ and also in the individual meeting directory; e.g. for SA5#28 at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Invitation/

For meetings in Sophia Antipolis, you can find a wide range of **useful information** (list of hotels at special rates, how to rent a car, how meetings in ETSI work…) on the ETSI Web site at: ftp://ftp.3gpp.org/information/ETSI_meeting_info/

Z.3.1   How to obtain contact information of any delegate

Those delegates with an ETSI server username and password can obtain the full/updated contact information for any delegate by going to the URL for the delegates' database at: http://webapp.etsi.org/teldir/TelDirectory.asp

Z.3.2   How to update your own information (new address / email etc.)

They are also able to update their own information (new address / tel. / fax / email etc) by using the URL: http://webapp.etsi.org/teldir/PersonalInfo.asp

Z.4   How to contribute to meetings

Z.4.1   3GPP Sever location

All SA5 documents are available on the 3GPP FTP serve at: ftp://ftp.3gpp.org/tsg_sa/WG5_TM/ http://www.3gpp.org/ftp/TSG_SA/WG5_TM/ E.g. all the documents for SA5 meeting #27 can be found at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_27/Docs/

In order to avoid downloading documents one at a time and to make it easier to determine which documents have been added to the area since you last visited the site, it is recommended that users obtain an FTP synchronisation utility such as FTPSync. This shareware tool can be downloaded from the internet at: http://www.fileware.com/

Z.4.2   SA5 meeting Sever location

http://10.10.10.10

Access: Anonymous

Upload files to   http://10.10.10.10/inbox

1   Settings of your PC:

Network and Dial-up Connections
    Properties

Local Area Connection Properties		
Internet Protocol (TCP/IP) Properties		
Obtain an IP address automatically Advanced		
IP Settings IP addresses		
DHCP enabled Default Gateways Gateway (none) - remove any proxy server		

2   Restart you PC

Z.4.3   Other useful URLs

The following lists the locations of some of the more commonly requested information:

3GPP (& ETSI) Meeting calendar	http://webapp.etsi.org/meetingcalendar/QueryForm.asp
All 3GPP (GSM and 3G) specifications	ftp://ftp.3gpp.org/specs/
Specification status database	ftp://ftp.3gpp.org/Information/Databases/Spec_Status
Change request database	ftp://ftp.3gpp.org/Information/Databases/Change_Request/
3GPP work plan	ftp://ftp.3gpp.org/Information/WORK_PLAN/

Z.4.3   How to obtain a Tdoc# for your contribution

For one calendar year the SA5 plenary and the SWGs have a Tdoc# block allocation under their own administration as follows:

	Year 2002	Year 2003	Year 2004	Year 2005
SA5 plenary	**S5-02**0000 - **S5-02**1999	**S5-03**0000 - **S5-03**1999	**S5-04**0000 - **S5-04**1999	**S5-05**000 - **S5-05**999
SWGA	**S5-02**2000 - **S5-02**3999	**S5-03**2000 - **S5-03**3999	**S5-04**2000 - **S5-04**3999	**S5-05**000 - **S5-05**999
SWGB	**S5-02**4000 - **S5-02**5999	**S5-03**4000 - **S5-03**5999	**S5-04**4000 - **S5-04**5999	**S5-05**000 - **S5-05**999
SWGC	**S5-02**6000 - **S5-02**7999	**S5-03**6000 - **S5-03**7999	**S5-04**6000 - **S5-04**7999	**S5-05**000 - **S5-05**999
SWGD	**S5-02**8000 - **S5-02**9999	**S5-03**8000 - **S5-03**9999	**S5-04**8000 - **S5-04**9999	**S5-05**000 - **S5-05**999

You can obtain your document number(s) automatically from the registration page of the respective meeting:

EXAMPLE: 3GPPSA5-#28 Plenary   http://webapp.etsi.org/MeetingCalendar/MeetingDetails.asp?mid=21971
(just click on Reserve a document number and then fill in brief details)

In order to use the Automatic Document Numbering (ADN), you must have an ETSI account, which you can apply for via:http://webapp.etsi.org/createaccount/

EXAMPLE FOR ALLOCATION OF TDoc NUMBERS YOU SHOULD CONTACT:

3GPPSA5-#28 **Plenary-ONLY**   http://webapp.etsi.org/MeetingCalendar/MeetingDetails.asp?mid=21971

Contributions for the four (4) SWGs should be registed separately as follows:

3GPPSA5#28-SWGA	WG	20 - 24 May 2002	Sophia Antipolis	FR
3GPPSA5#28-SWGB karl-heinz.nenner@t-mobile.de	WG	20 - 24 May 2002	Sophia Antipolis	FR
3GPPSA5#28-SWGC	WG	20 - 24 May 2002	Sophia Antipolis	FR
3GPPSA5#28-SWGD	WG	20 - 24 May 2002	Sophia Antipolis	FR

Z.4.4   How to upload your contribution to the server

Upload rights are granted by Adrian.Zoicas@etsi.fr

All documents that are available before the meeting will be placed on the **3GPP Web site under the respective directory e.g.** 3GPPSA5-#28   ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_28/

Once you have your Tdoc number, please upload your contribution to the server and notify via the appropriate email reflector.

1) With whatever FTP Client software (e.g. WS_FTP pro)

  host name: ftp.3gpp.org

  & use your ETSI User ID + PW

  In doubt contact ETSI's   HELPDESK@etsi.fr

2) With your preferred Internet browser

  In the URL of your Internet browser insert: ftp://Your_ETSI_Username:Your_ETSI_Passoword@ftp.3gpp.org

To download (Read-Only) from the server you can use "Anonymous log-in"

FTP Client (e.g. WS_FTP pro)   Host name: ftp.3gpp.org

or Internet Browser   http://www.3gpp.org/ftp/TSG_SA/WG5_TM
                                               ftp://ftp.3gpp.org/TSG_SA/WG5_TM

Z.4.5   Deadline for contributions to a meeting

Contributions to a meeting should be made available at least five (5) working days before the respective meeting starts (e.g. for SA5-#28 by Friday 10 May 2002, 17.00 hours CET). By SA5 Rules delayed contributions may not be dealt with during this meeting.

History

Document history		
Ver. 1.0.0	24 Jun 2002	S5-020407: DRAFT Report submitted to SA5 for comment and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Report/ and http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_29/Docs/
Ver. 2.0.0	26 Jun 2002	S5-020449: Revised DRAFT Report submitted to SA5 for approval and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Report/ and http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_29/Docs/ CHANGES: Added in 6.2.1.1 statement from/on "The IMS charging Rapporteur has stated that..."
Ver. 3.0.0	28 Jun 2002	S5-020400: Approved Report at SA5#28 and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Report/