



**TSG-SA5 (Telecom Management)
Report of Meeting #27, Cork, IRELAND, 2 - 5 April 2002**

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Chair: Vacant
Vice-Chair: Michael TRUSS (Motorola Ltd), was the meeting Chair
Secretary: Adrian ZOICAS (3GPP Mobile Competence Centre)
Meeting Host: Motorola Ltd.
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 Vice-Chair, called the meeting to order on Friday 09.00 AM.

2 Participant registration

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

3 Agenda approval

S5-020301	Draft Agenda	TB Chairman	3 Agenda	Agenda	Approved
S5-020302	SA5 #27Cork Meeting Plan	TB Chairman	3 Agenda	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

S5-020340	Make calls for IPRs	MCC	3 Agenda	Tdoc	Noted
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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 v100 of the last SA5 meeting (S5-020143) was approved with some changes proposed by the meeting. The approved report is contained in S5-020200, which can be found at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_26/Report/

S5-020143	Draft V1.0.0 Report SA5#26	Secretary	4.1	Report	Update to 200. Approved
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4.2 Last TSG-SA meeting

S5-020338	Summary of TSG-SA#15 issues of SA5 interest	MCC	4.2 Last SA report	Tdoc	Noted
S5-020339	SA5 spec list (status after SA#15) - see Annex W: SA5 specifications	MCC	4.2 Last SA report	Tdoc	Noted

Excellent results of SA5 at SA#15:

1 all requests for automatically upgrade and NOT-to-upgrade to Rel-5 after SA#15 (03/2002) had been approved.

The closing SA plenary decided that there is no need to produce them now but after the 06/2002 TSG meetings.

However, if a WG so wishes & MCC has the resources, this can be done after SA#15 (03/2002).

2 all requests for delivery in June 2002 had been approved (SM,UEM,32.6xy, etc.).

3 all CRs had been agreed excepting one in SP-020167/S5-020213 on:

Rel-5 CR 32.403

Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down process to define measurements for inclusion in future 3GPP Releases

- Reason for rejection: in annex B there are some "politically inappropriate" statements about the wireless industry (the paragraphs are highlighted and the words are highlighted in red).

- SA5 needs to rework this CR and resubmit it to SA#16.

- The category D (editorial) of this CR has been questioned, category B was considered as more appropriate.

4 In general if not all 3 Sages (1, 2 and 3) are delivered in one Release, the entire work item should be moved to the next release.

?? If not all 3 Stages are available in the time frame on a specific Release, than the entire Feature/functionality is moved to the next Release.

?? Parts of those Features/functionality, already existing in the Stage 1/3 of that specific Release, need to be removed via CRs from that specific Release.

?? The Stage 1/3 containing the "incomplete" Feature/functionality, form the basis of the next Release.

- In particular, SM will be moved to Rel-6 if Stage 2/3 are not delivered by June 2002.

- The same applies to 32.661/2/3/4 (Kernel CM), etc.

5 Review of the Work Plan at Plenaries #15 (SA5-related slides)

Slide 28 Extended Streaming

This is relevant for RG Service Charging - see S5-020195, LS to S4,S1

quote:

"SA5 notes that the production of the stage 2 and stage 3 specifications for the Transparent End-to-End Packet Switched Streaming Service is expected from SA4. Together with the stage 1 definition from SA1, these specifications will be used to accomplish the detailed charging work for the Extended Streaming Service within SA5. SA5 therefore asks to receive the output of SA4 stage 2 and stage 3 work at the earliest convenience."

unquote.

Extended Streaming - (in full: Extended Transparent End-to-End Packet Switched Mobile Streaming Applications)

Feature completed at SA#15:

Stage 1: TS 22.233 approved at SA#15, and CR to 22.105 on End-user performance expectations-Streaming Services

Stage 2: TS 26.233 and TS 26.234 Rel-5 provided through CRs to Rel-4, approved at SA#15

Stage 3: felt not strictly necessary, will not be produced; TR 26.937 RTP usage model started, not critical

LS to SA4 on PSS Rel-6 Work Program

Slide 34 IMS (4/7) - Aspects not stable (2/4)

- Charging: CRs on

- Stage 1 Change to 22.115 to include Pre-paid,
- Stage 2 completed (TR 23.815 presented in v.2 at SA#15, also including pre-paid),
- Stage 3 in 32.225 (v.1 at SA#15) to be completed by June by SA5.

NOTE: SP-020144 TR 23.815 v.2.0.0 on "Charging implication of IMS architecture". This TR was approved and placed under TSG SA change control as version 5.0.0 (Rel-5).

Slides 47/48

Charging and OAM&P

- 80% complete
- TSG approval target remains 06/2002

Subscription Management

- Stage 1 in TS 32.140 submitted to SA#15 for Information, approval target delayed from 03/2002 to 06/2002 because SM is closely linked to GUP, which will not be included in Rel-5 (S2-020887). Stages 2 and 3 not started.
- Move to Rel-6? SM will be moved to Rel-6 if Stage 2/3 are not delivered by June 2002.

User Equipment Management - Feasibility Study

- TR 32.802 v1.0.4 submitted to SA#15 - for the 2nd time for Information
- TSG approval target delayed from 03/2002 to 06/2002 because T2-SWG2 requesting further discussion and a joint session during SA5#27 in Cork (04/2002) in parallel with GUP ad-hoc meeting

Trace Management

- Submission to TSG for Information delayed from 03/2002 to 06/2002 because of ongoing communication with CN4/SA3: information to be collected in MGW, security concerns when transmitting sensitive information like IMSI/IMEI across the Mc Interface. TSG approval target remains 06/2002 for SA5 work.
- Work from other WGs (CN1, RAN2, RAN3, GERAN) not started yet.
- Move to Rel-6? Trace will be moved to Rel-6 if a "viable" functionality is NOT provided by all relevant WGs by June 2002.

The table below shows the final list of all the SA5 contributions submitted to TSG-SA#15. You may find all the SA#15 documents on the server under http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_15/Docs/ZIP/

SA5 contributions to SA#15

NUMBER	TITLE	Source	AGENDA ITEM	Document For	Status
SP-020168	Status report from SA WG5 to SA#15	SA WG5	7.5.1	Information	Noted
SP-020011	Rel-5 draft TR 32.802 v104 (User Equipment Management UEM feasibility study), in co-operation with T2 - for the 2 nd consecutive time for Information	SA WG5	7.5.3	Information	Noted
SP-020012	Rel-5 draft TS 32.140 v100 (Subscription Management) - for Information	SA WG5	7.5.3	Information	Noted
SP-020013	3 Rel-5 CR 32.101 (3G Telecom Management principles and high level requirements)	SA WG5	7.5.3	Decision	Approved
SP-020015	Rel-4 CR 32.111-3 (Fault Management; Part 3: Alarm Integration Reference Point: CORBA SS) Correction of erroneous and addition of missing mapping tables	SA WG5	7.5.3	Decision	Approved
SP-020016	5 Rel-4 & Rel-5 CR 32.200 (Charging principles)	SA WG5	7.5.3	Decision	Approved
SP-020017	Rel-4 CR 32.235 (Charging data description for application services) Corrections for consistency with 23.140 (MMS)	SA WG5	7.5.3	Decision	Approved
SP-020018	Rel-4 CR 32.304 (Configuration Management; Notification Integration Reference Point: CMIP SS) Correction of invalid ASN.1 definitions	SA WG5	7.5.3	Decision	Approved
SP-020019	2 Rel-4 CR 32.603 (Basic configuration management IRP: CORBA SS)	SA WG5	7.5.3	Decision	Approved
SP-020020	Rel-4 CR 32.622 (Configuration Management; Generic network resources IRP: NRM) Addition of managedElementType value for GSM Radio Access Network support	SA WG5	7.5.3	Decision	Approved
SP-020021	3 Rel-4 CR 32.624 (Configuration Management; Generic network resources: IRP CMIP SS)	SA WG5	7.5.3	Decision	Approved
SP-020022	4 R99 & Rel-4 CR 32.005 & 32.205 (CS charging), 32.015 & 32.215 (PS charging) Addition of CAMEL phase 3 extensions in SMS-MO CDR	SA WG5	7.5.3	Decision	Approved
SP-020024	2 R99 & Rel-4 CR 32.015 & 32.215 (PS charging) Addition of "QoSRequested" parameter into "traffic volume containers"	SA WG5	7.5.3	Decision	Approved
SP-020025	2 Rel-5 CR 32.205 & 32.215 (CS & PS charging) Addition of CAMEL phase 4 extensions in SMS-MT CDRs	SA WG5	7.5.3	Decision	Approved
SP-020026	Rel-4 CR 32.403 (Performance measurements - UMTS and combined UMTS/GSM) Correction of the measured object class for some SGSN MM measurement definitions	SA WG5	7.5.3	Decision	Approved
SP-020028	3 Rel-4 CR 32.111-2/3/4 (Fault Management; Alarm Integration Reference Point; Part 2 Information Service/ Part 3 CORBA SS/ Part 4 CMIP SS) Addition of "perceivedSeverity" as parameter to "acknowledgeAlarms" operation	SA WG5	7.5.3	Decision	Approved
SP-020031	Rel-5 CR 32.304 (Configuration Management; Notification Integration Reference Point: CMIP SS) Correction of errors in the GDMO and ASN.1 definitions	SA WG5	7.5.3	Decision	Approved
SP-020032	Rel-4 CR 32.615 (Bulk configuration management IRP: XML file format definition) Alignment of XML file definitions with W3C, and modifications to allow use of commercially available XML processing tools	SA WG5	7.5.3	Decision	Approved
SP-020033	Rel-5 draft TS 32.225 v100 (Charging management; Charging data description for the IP Multimedia Subsystem) - for Information	SA WG5	7.5.3	Information	Noted
SP-020034	2 Rel-5 draft TSs v100 on Kernel Configuration Management IRP: 32.661 (Requirements) & 32.662 (Information Service) - for Information	SA WG5	7.5.3	Information	Noted
SP-020035	Rel-5 CR 32.205 (CS charging) Addition of Charging Data Record definition for Location Service in CS domain	SA WG5	7.5.3	Decision	Approved
SP-020036	LS reply to S1-010636 (cc: SA, SA2, SA3) on 3GPP System – WLAN Interworking (S5-020197)	SA WG5	6.3	Information	Noted
SP-020037	2 Rel-5 CR 32.102 (3G Telecom Management Architecture)	SA WG5	7.5.3	Decision	Approved
SP-020038	2 Rel-4 CR 32.303 (CM; Notification IRP CORBA SS) & 32.603 (Basic CM IRP CORBA Solution Set) Addition of missing CORBA exceptions	SA WG5	7.5.3	Decision	Approved
SP-020039	3 Rel-4 CR 32.111-2 (Fault Management; Alarm Integration Reference Point; Part 2 Information Service)	SA WG5	7.5.3	Decision	Approved
SP-020167	Rel-5 CR 32.403 (Performance measurements - UMTS and combined UMTS/GSM) Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down process to define measurements for inclusion in future 3GPP Releases	SA WG5	7.5.3	Decision	Rejected

4.2.1 SA5-related excerpt from the Draft_Report_SA#15_v003

The latest version of the SA report can be found at http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TS GS_15/Report/

7.5 TSG-SA WG5

7.5.1 Report from TSG-SA WG5 and review of progress

[TD SP-020168](#) Status report from SA WG5 to SA#15 (replaced [TD SP-020010](#)). The status report of SA WG5 activities since TSG SA#14 was presented by the SA WG5 Secretary, Mr. A. Zoicas, MCC, in the absence of a Chairman to SA WG5 at the present time.

The previous Chairman, Mr. A. Yuhan had resigned. Elections will be held in April 2002 for election of Chairman and Vice Chairman of SA WG5.

Questions:

Slide 12, bullet 6: Trace Management - TSG SA#14 had asked SA WG5 to report the activities in other groups on Trace Management and the results of this were questioned. It was clarified that this was still ongoing.

Slide 12, bullet 2: The SA WG3 Chairman confirmed that there were no security concerns on transmission of sensitive information over the Mc interface and a LS had been agreed at their last meeting.

The SA WG5 Secretary was thanked for presenting the SA WG5 report, which was then [noted](#).

The GERAN Chairman clarified that there was work needed for GERAN and that the report was slightly misleading in this respect.

Slide 13: Charging Management: It was questioned whether this included On-Line Charging. TS 32.225 includes only Off-line Charging. At the last SA WG5 meeting it was agreed to include the new aspects of On-line charging and the target for On-Line charging for IMS is June 2002.

Slide 6: Subscriber Management: The accuracy of 95% complete was questioned as there are a large number of joint discussions ongoing on SM. It was explained that SA WG5 had considered the TR 95% complete, but new requirements may require a revision of the figure. Clarifications on the impact of SA WG5 requirements on GUP were expected at the joint meetings. It was also confirmed that GUP would not be available until Rel-6. A decision on the Release for SM would be taken in the Work Planning part of this meeting.

The SA WG5 Secretary was thanked for presenting the report, which was then [noted](#).

7.5.2 Questions for advice from TSG-SA WG5

The upgrade of TS 32.800 to Rel-5 without change was [approved](#).

The upgrade of TS 32.401 to Rel-5 without change was [approved](#).

It was [noted](#) that TS 52.402 will not be upgraded to Release 5 until a CR is provided at the next TSG SA meeting.

The upgrade of TS 32.111-1 to Rel-5 without change was [approved](#).

The upgrade of TS 32.111-2 to Rel-5 was [approved](#).

The upgrade of TS 32.111-3 to Rel-5 was [approved](#).

The upgrade of TS 32.111-4 to Rel-5 was [approved](#).

The upgrade of TS 32.311 to Rel-5 without change was [approved](#).

The upgrade of TS 32.312 to Rel-5 without change was [approved](#).

It was [noted](#) that TS 32.300 will not be upgraded to Release 5 until a CR is provided at the next TSG SA meeting.

The upgrade of TS 32.301 to Rel-5 without change was [approved](#).

It was [noted](#) that TS 32.302 is already a part of Rel-5.

The upgrade of TS 32.303 to Rel-5 was [approved](#).

It was [noted](#) that 32.600 - 32.654 (Slide 19) are expected to be ready for upgrade to Rel-5 in June 2002.

It was reported that the early drafts listed in Slide 20 were expected to be progressed in ad-hoc meetings and provided to TSG SA in June 2002. This was [noted](#).

It was noted that 32.663 and 32.664 will not exist in Rel-5.

[TD SP-020036](#) LS reply to S1-010636 (cc: SA, SA2, SA3) on 3GPP System – WLAN Interworking. This was provided for information to TSG SA and was [noted](#).

7.5.3 Approval of contributions from TSG-SA WG5

CRs:

[TD SP-020013](#) 3 Rel-5 CRs 32.101 (3G Telecom Management principles and high level requirements). These CRs were [approved](#).

[TD S3-020037](#) 2 Rel-5 CRs 32.102 (3G Telecom Management Architecture). These CRs were [approved](#).

[TD SP-020014](#) 2 Rel-5 CRs 32.102 (3G Telecom Management Architecture)

[TD SP-020016](#) 5 Rel-4 & Rel-5 CRs 32.200 (Charging principles). These CRs were [approved](#).

[TD SP-020022](#) 4 R99 & Rel-4 CRs 32.005 & 32.205 (CS charging), 32.015 & 32.215 (PS charging) Addition of CAMEL phase 3 extensions in SMS-MO CDR. These CRs were [approved](#).

[TD SP-020024](#) 2 R99 & Rel-4 CRs 32.015 & 32.215 (CS & PS charging) Addition of "QoSRequested" parameter into "traffic volume containers". These CRs were [approved](#).

[TD SP-020025](#) 2 Rel-5 CRs 32.205 & 32.215 (CS & PS charging) Addition of CAMEL phase 4 extensions in SMS-MT CDRs. These CRs were [approved](#).

[TD SP-020035](#) Rel-5 CR 32.205 (CS charging) Addition of Charging Data Record definition for Location Service in CS domain. This CR was [approved](#).

[TD SP-020017](#) Rel-4 CR 32.235 (Charging data description for application services) Corrections for consistency with 23.140 (MMS). This CR was [approved](#).

[TD SP-020026](#) Rel-4 CR 32.403 (Performance measurements - UMTS and combined UMTS/GSM) Correction of the measured object class for some SGSN MM measurement definitions. This CR was [approved](#).

[TD SP-020167](#) Rel-5 CR 32.403 (Performance measurements - UMTS and combined UMTS/GSM) Introduction of "Performance Measurements Definition Process" describing the repeatable, top-down process to define measurements for inclusion in future 3GPP Releases. An objection to the Scope of Annex B was received and it was agreed that this would need to be removed or re-written. The CR was [rejected](#) and SA WG5 were asked to reconsider the text of this CR and resubmit a more acceptable version.

[TD SP-020028](#) 3 Rel-4 CRs 32.111-2/3/4 (Fault Management; Alarm Integration Reference Point; Part 2 Information Service/ Part 3 CORBA SS/ Part 4 CMIP SS) Addition of "perceivedSeverity" as parameter to "acknowledgeAlarms" operation. These CRs were [approved](#).

[TD SP-020039](#) 3 Rel-4 CRs 32.111-2 (Fault Management; Alarm Integration Reference Point; Part 2 Information Service). These CRs were [approved](#).

[TD SP-020015](#) Rel-4 CR 32.111-3 (Fault Management; Part 3: Alarm Integration Reference Point: CORBA SS) Correction of erroneous and addition of missing mapping tables. This CR was [approved](#).

[TD SP-020018](#) Rel-4 CR 32.304 (Configuration Management; Notification Integration Reference Point: CMIP SS) Correction of invalid ASN.1 definitions. This CR was [approved](#).

[TD SP-020031](#) Rel-5 CR 32.304 (Configuration Management; Notification Integration Reference Point: CMIP SS) Correction of errors in the GDMO and ASN.1 definitions. This CR was [approved](#).

[TD SP-020019](#) 2 Rel-4 CRs 32.603 (Basic configuration management IRP: CORBA SS). These CRs were [approved](#).

[TD SP-020032](#) Rel-4 CR 32.615 (Bulk configuration management IRP: XML file format definition) Alignment of XML file definitions with W3C, and modifications to allow use of commercially available XML processing tools. This CR was [approved](#).

[TD SP-020020](#) Rel-4 CR 32.622 (Configuration Management; Generic network resources IRP: NRM) Addition of managedElementType value for GSM Radio Access Network support. This CR was [approved](#).

[TD SP-020021](#) 3 Rel-4 CRs 32.624 (Configuration Management; Generic network resources: IRP CMIP SS). These CRs were **approved**.

[TD SP-020038](#) Rel-4 CR 32.303 (CM; Notification IRP CORBA SS) & 32.603 (Basic CM IRP CORBA Solution Set) Addition of missing CORBA exceptions. These CRs were **approved**.

TSs and TRs:

[TD SP-020012](#) Rel-5 draft TS 32.140 v100 (Subscription Management). This TS was provided for information and was **noted**. With regards to the question from SA WG5 on the different stages of a specification belonging to the same Release, TSG SA replied that this is necessary and the final Release of this TS, when presented for approval, would depend upon the completion of the other stages.

[TD SP-020011](#) Rel-5 draft TR 32.802 v104 (User Equipment Management UEM feasibility study), in co-operation with T2. This was presented to TSG SA for information for the second time as further information has been received from T WG2 which needs investigation. The TR expected to be presented for approval in June 2002. This TR was then **noted**.

[TD SP-020033](#) Rel-5 draft TS 32.225 v100 (Charging management; Charging data description for the IP Multimedia Subsystem). This TS was provided for information and was **noted**.

[TD SP-020034](#) 2 Rel-5 draft TSs v100 on Kernel Configuration Management IRP: 32.661 (Requirements) & 32.662 (Information Service). TS 32.661 was provided for information and was **noted**. TS 32.662 was provided for information and was **noted**. The Release for these TSs will be decided when the completion status of the other stages is known, as all stages will need to be in the same Release.

4.3 Liaison Rapporteurs' reports

4.4 Inter-organizational communication reports

All incoming LSs were previewed during the Leaders' meeting (Tuesday), and allocated to SWGs for recommendation on handling. During the plenary (Friday) 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

S5-020342	AWS Proposed Vote to Align 3GPP Notifications With ITU	John Wilber (AWS)	4.4 Inter-orga rep.	Tdoc	Noted
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This contribution contains an updated AWS' request from the last meeting (S5-020210) for a vote on whether SA5 should align its Notification IRP with the ITU CORBA Framework. It contains the text of a proposal and two alternate proposals to vote on. It also contains the motivation for requesting this vote.

SA5 **decided** to have an open Vote (i.e. no secret ballot) at the next meeting. The vote should be added to the draft agenda of the next meeting and the final wording for the vote should be sent "in good time" before the next meeting. The Chair will coordinate this.

The AWS' proposal in S5-020342 is reproduced below in its entirety:

AWS' Request For an SA5 Vote

AT&T Wireless Services requests that SA5 vote on the issue of whether the 3GPP Notification IRP Corba Solution Set shall be aligned with the ITU Corba Framework. Specifically AWS ask SA5 to vote on AWS' preferred way of achieving alignment. In accordance with AWS' understanding of the voting procedure, if SA5 does not accept AWS' preferred approach then SA5 will be asked to successively consider two alternate proposals.

AWS has decided to request this vote because AWS has been unable to get consensus within SWG C on a way to modify the 3GPP Notification IRP so that it is aligned with the ITU Corba Framework or that the IRP should be aligned with the ITU. Since few operators have been participating in SWG C, AWS hopes that the larger group of operators participating in SA5 will agree with AWS that the lack of alignment with ITU standards would be a severe deficiency in 3GPP standardization. Further AWS hopes that if the operators agree with AWS on this issue, they will prevail upon the 3GPP vendor community to agree to make, in this instance, 3GPP Notifications align with the ITU Corba Framework and in the future to make further progress in aligning 3GPP IRP specifications with ITU standards.

The central issue that concerns AWS is that a UMTS Element Manager using a Corba interface that conforms to the 3GPP Notification IRP cannot communicate notifications to a Network Manager that conforms to the ITU Corba Framework. While the two specifications are nearly identical in regard to notifications, the differences preclude any ability to actually communicate so long as both systems conform to the respective standards.

AWS' network includes non-3GPP telecommunications equipment. It would be unreasonable to expect the non-3GPP specific equipment to use 3GPP standards. AWS therefore desires to integrate the management of its entire network through the use of ITU standards and, in the case of Corba interfaces, on the use of the ITU Corba Framework. AWS believes that ultimately all wireless operators have these same needs.

While making the 3GPP Notification IRP compatible with the ITU Corba Framework is not sufficient to achieve all the interoperability required, it is an independent and necessary step. At this time, AWS is seeking changes to the 3GPP Notification IRP that will support a mode of operation that allows an ITU compliant manager to receive and process notifications from 3GPP compliant equipment.

To this end, AWS requests that SA5 vote on AWS' Preferred Solution and, if this vote fails, then vote on AWS' First Alternative and if that fails to vote on AWS' Second Alternative.

AWS Preferred Solution

The 3GPP SA5 shall modify the IRP specified by TS 32.303 Notification IRP: Corba Solution Set and all Corba Solution Sets that use Notifications so that the Notifications sent over Itf-N from a 3GPP compliant agent will be compliant with ITU Q.816 subclause 6.2 NOTIF 7 and ITU Q.816 subclause 6.2 NOTIF 9 when appropriate allowed options are selected. Specifically the compliance shall be achieved in the following manner.

- 1) Full names that are compliant with NOTIF 7 shall be used instead of the abbreviated names currently used in the Notification IRP.
- 2) Additional changes to the notification format to align it with the ITU format will also be made. The changes, which remain to be specifically agreed upon, shall not change the functionality of the 3GPP Notification IRP.
- 3) An optional Solution Set dependant parameter may be added (if this is the wish of SA5) to the subscribe Operation. This parameter will control the use of long or short names. If this parameter is not supported then long names will be used.
- 4) The 3GPP Notification IRP: Corba Solution Set will be modified so that it conforms to ITU Q.816 [2,10] subclause 6.2 NOTIF 9. This will be done by incorporating the OBF Quality of Service parameters, ConnectionReliability and EventReliability, into the solution set. These parameters will be set as follows: ConnectionReliability = Persistent and EventReliability = Persistent or EventReliability = BestEffort.
- 5) A Conformance section, which is now required by TS 32.102, be added to TS 32.303 that will state what is required for an implementation of TS 32.303 to claim conformance to the ITU Recommendation Q.816 [2,10]. Specifically, this conformance statement will include the requirements that an implementation must meet in order to claim conformance to the ITU Corba Framework when the appropriate parameter values have been selected for the Subscribe Operation.

AWS First Alternate Proposal

3GPP SA5 shall modify the IRP specified by TS 32.303 Notification IRP: Corba Solution Set and all Corba Solution Sets that use Notifications so that the Notifications sent over Itf-N from a 3GPP compliant agent will be compliant with ITU Q.816 subclause 6.2 NOTIF 7 and ITU Q.816 subclause 6.2 NOTIF 9 in at least one mode of operation. The 3GPP Notification IRP Corba Solution Set shall require conforming implementations to support both the current 3GPP Corba Solution as well as a ITU Corba Framework compliant solution. While the most acceptable approach may be based on typed events, SWG C shall include whatever approach they find the most acceptable in Release 6.

AWS Second Alternate Proposal

This Proposal is the same as the First Alternate Proposal except that a 3GPP compliant implementation is not required to support the agreed ITU Corba Framework compliant solution. That is, the implementation of the approach found most acceptable to SWG-C and included in Release 6 will be optional.

Discussion of the Alternatives

Alignment of 3GPP Notifications with the ITU Corba Framework has been discussed in SA5 for a long time. Initially, SA5 tried to get the ITU to include SA5's approach to Notifications in the Corba Framework. After months of discussion and (indirect) liaisons, ITU SG4 decided to make major changes to the Corba Framework to accommodate SA5 but SG4 decided that they could not relax two of its compliance conditions (NOTIF 7 and NOTIF 9). AWS then proposed (AWS' preferred solution) that SA5 make the necessary changes that remained to align the 3GPP with the ITU. Ericsson claims the AWS proposal would produce implementations that would be too inefficient. AWS is willing to accept the inefficiency when it requires ITU alignment. This AWS proposal requires the ability to operate in either the current manner or in an ITU compliant manner. This allows the operator choose to use the efficient but non-ITU compliant interface or the less efficient ITU compliant interface. It should be noted that the Corba Framework is intended for use in many real-time intensive applications including the management of large SONET and optical networks.

SWG C participants have not offered any specific alternative to the AWS Preferred Solution other than a rather undefined suggestion that an acceptable solution may be based on typed events. In the AWS's First Alternate Proposal, AWS asks SA5 to agree that a Corba solution

for the 3GPP Notification IRP that can inter-operate with an ITU Corba Framework compliant network manager is required and the proposal that is most acceptable to SWG C will be included in Release 6. If AWS' Preferred Solution is not generally acceptable, it is incumbent on the other SWG C participants to propose a more generally acceptable alternative. This first alternative also requires that in addition to the current interface, an ITU Corba Framework compliant interface must be provided.

The AWS Second Alternative Proposal removes the requirement that the ITU Corba Framework compliant interface must be implemented. This is a minimally acceptable proposal. While it does provide a specification that can be pointed to by an operator that wants inter-operability with ITU compliant Corba interfaces. It leaves it very open as to whether such systems will be supported.

Summation

If one of these proposals is adopted by SA5, then a significant step will be made toward having inter-operability with ITU compliant interfaces. None of these proposals is sufficient to obtain inter-operability on their own. Other changes and new specifications are required to further promote inter-operability. On the other hand, if none of these proposals are accepted, no meaningful inter-operability with ITU compliant interfaces and systems is possible. There is no meaningful interface between a network manager and network equipment that does not include notifications.

If the first two proposals are rejected, it must be taken as a rejection on the part of SA5 to develop specifications that interoperate with ITU compliant systems. Since the last alternative requires only that SA5 include inter-operability in its specification but does not require any 3GPP compliant system to actually interoperate with an ITU compliant system, rejection of the last alternative must be taken as a clear rejection on the part of SA5 of any interest in or support for interoperability with ITU compliant systems. In so doing, we believe the value of 3GPP family of IRP specifications will be significantly diminished.

4.5 Other reports

5 Discussions and decisions on SA5 administrative issues

5.1 Elections for SA5 Chair and 2nd SA5 Vice-Chair positions

The meeting reshuffled every elected member and gave SA5 a fully composed Chair team.

Following the elections for the positions of Chair and Vice Chair in SA5 the following officials were elected:

- Chair Michael TRUSS / Motorola Ltd / ETSI
- Vice Chair Thomas RICHTER / Cingular Wireless LLC / TI
- Vice Chair Christian TOCHE / Nortel Networks / ETSI

Details of the election process are given in this subclause:

S5-020103	Nomination of Thomas RICHTER for 3GPP SA5 Vice Chairman	Cingular Wireless LLC	postponed from last meeting
S5-020137	Nomination of Christian TOCHE for 3GPP SA5 Vice Chairman	Nortel Networks	postponed from last meeting
S5-020344	Nomination of Frank PEETERS to the position of chair of 3GPP/SA5	Alcatel	Noted
S5-020346	Nomination of Michael TRUSS to the position of chair of 3GPP/SA5	Motorola	Noted
S5-020337	Voting list valid for 3GPP TSG SA WG 5 meeting #27	MCC	Noted
S5-020319	Report on the Vote for SA5 Chair & Vice-Chair during SA5 meeting #27	MCC	Report Approved

Adrian ZOICAS (MCC) explained the governing rules from the 3GPP Working Procedures (see [annex below](#)) and practical steps for the conduction of elections by secret ballot.

S5-020337 (Voting List at SA5#27 - created and dispatched to SA5 on 26 Mar 2002) shows the 3GPP Member Companies who have qualified for voting at the SA5#27 meeting. Inclusion on the list is obtained by attending a meeting of any of the previous 3 held by SA5. A company is removed from this list if it is not represented at any of the 3 previous meetings of SA5. On 26 Mar 2002, MCC asked by email (SA5 mail#046) companies believing to be included in this list to provide supporting information to MCC. So far no request has been received by MCC. Adrian ZOICAS (MCC) asked for the last time if there were companies believing to be included in this list and there were none. Consequently the voting list containing 43 Individual Members of 3GPP was closed as provided in S5-020337 and reproduced in the [annex below](#).

No letter for proxy voting was received.

SA5 agreed to separate in time the elections for SA5 Chair (remaining 1 year until Spring 2003) and for a second SA5 Vice-Chair (2-years term until Spring 2004).

Adrian ZOICAS (MCC) announced the current candidatures received in chronological order for the two positions:

for SA5 Chair:

Frank PEETERS Alcatel (3GPP Organisation Partner: ETSI)

Michael TRUSS Motorola Ltd (3GPP Organisation Partner: ETSI)

for SA5 Vice-Chair:

Thomas RICHTER Cingular Wireless LLC (3GPP Organisation Partner: T1)

Christian TOCHE Nortel Networks (3GPP Organisation Partner: ETSI)

Adrian ZOICAS (MCC) made a last call for nomination of candidates for the SA5 Chair and as there were no new candidates the list was closed.

Frank PEETERS (Alcatel) withdraw his candidature for the position of SA5 Chairman and declared that he would candidate for the SA5 Vice-Chair position.

Being now the only candidate, Michael TRUSS was elected by acclamation as SA5 Chairman for the remaining period of the 2-years term until Spring 2003.

Being now SA5 Chairman, the SA5 Vice-Chair position currently hold by Michael TRUSS became free for the remaining period of the 2-years term ending Spring 2003.

As a consequence there were now two free SA5 Vice-Chair position:

- ?? **one SA5 Vice-Chair position for a period of 2-years until Spring 2004 &**
- ?? **another SA5 Vice-Chair position for the remaining period of the 2-years term until Spring 2003.**

Adrian ZOICAS (MCC) announced the current candidatures received in chronological order for the two SA5 Vice-Chair positions:

Thomas RICHTER Cingular Wireless LLC (3GPP Organisation Partner: T1)

Christian TOCHE Nortel Networks (3GPP Organisation Partner: ETSI)

Frank PEETERS Alcatel (3GPP Organisation Partner: ETSI)

Adrian ZOICAS (MCC) made a last call for nomination of candidates for the two SA5 Vice-Chair positions and as there were no new candidates the list was closed.

Ballot Number 1 took place on Wednesday 3 April 2002 between 14.00 and 15.00 hrs at the SA5 reception desk in front of the Muskerry Room at the hotel entry.

32 vote sheets had been handed out and 31 returned. All 31 returned vote sheets were valid votes. No abstention.

Result of Secret Ballot Number 1: Thomas RICHTER (23 votes), Christian TOCHE (6 votes) , Frank PEETERS (2 votes).

With more than 71% of the votes, Thomas RICHTER was elected SA5 Vice-Chair for a 2-years term.

The candidates for the second SA5 Vice-Chair position remained:

Christian TOCHE Nortel Networks (3GPP Organisation Partner: ETSI)

Frank PEETERS Alcatel (3GPP Organisation Partner: ETSI)

Ballot Number 2 took place between 16.00 and 17.00 hrs at the same place.

32 vote sheets had been handed out and 32 returned. All 32 returned vote sheets were valid votes. No abstention.

Result of Secret Ballot Number 2: Christian TOCHE (23 votes), Frank PEETERS (9 votes).

With more than 71% of the votes, Christian TOCHE was elected SA5 Vice-Chair for the remaining period of the 2-years term ending Spring 2003.

From the 3GPP Working Procedures

Article 25: TSG and WG decision making

TSGs and WGs shall endeavour to reach consensus on all issues, including decisions on Technical Specifications and Technical Reports. If consensus cannot be achieved, the Chairman can decide to take a vote. The vote may exceptionally be performed by a secret ballot if decided by the TSG or WG. A vote may be conducted during a TSG or WG meeting or by correspondence.

A proposal shall be deemed to be approved if 71% of the votes cast are in favour. Abstentions or failure to submit a vote shall not be included in determining the number of votes cast.

It is the responsibility of the Chairman to ensure that questions to be voted upon are phrased in a positive yes/no manner, with 71% required to approve the question. Questions should not be phrased as the TSG shall not do something. Examples of appropriate questions are; Shall the TSG approve the Specification and send it to the SDOs? Shall the liaison be approved? Shall the new WI be approved? Shall the existing WI be stopped? If the issue is to choose option A or B, the question should be split into two questions, with the Chairman selecting the order. First, shall the TSG take option A as the way forward? If this question fails the second question is, shall the TSG take option B as the way forward?

Contributions on which decisions will be based should be made available in good time before each meeting. TSGs may establish informal guidelines for dealing with late contributions.

Article 26: TSG and WG voting during a meeting

The following procedures apply for voting during a TSG or WG meeting:

- ?? before voting, a clear definition of the issues shall be provided by the Chairman;
- ?? Voting Members shall only be entitled to one vote;
- ?? if an Voting Member has more than one representative present, only one representative may vote;
- ?? each Voting Member may only cast the vote once;
- ?? each Voting Member may carry proxy votes for up to five other Voting Members. All proxy votes shall be accompanied by a letter of authority from the authorising Voting Member. Proxies will not be taken into account when determining the quorum;
- ?? the quorum required for voting during a TSG or WG meeting shall be 30% of the total number of Voting Member companies on the TSG or WG membership list;
- ?? the result of the vote shall be recorded in the meeting report.

Article 27: TSG or WG voting by correspondence

The following procedures apply for voting by correspondence:

- ?? before voting, a clear definition of the issues shall be provided by the Chairman and disseminated to all on the TSG or WG membership list;
- ?? Voting Members shall only be entitled to one vote;
- ?? each Voting Member may only cast the vote once within the voting period;
- ?? the voting period shall be 30 days;
- ?? there are no quorum requirements;
- ?? the result of the vote should be disseminated to everybody on the TSG or WG active participants list.

From S5-020337 (Voting List at SA5#27 - created and dispatched to SA5 on 26 Mar 2002

Voting List at SA5#27

	Company	Status	Partner	Voting Representative Name
1	ADC	3GPPMEMBER	T1	Tim Lock
2	ADC Telecommunications LTD	3GPPMEMBER	ETSI	--
3	ALCATEL BELL	3GPPMEMBER	ETSI	Frank Peeters
4	ALCATEL S.A.	3GPPMEMBER	ETSI	Habib Nourira
5	ALCATEL SEL AG	3GPPMEMBER	ETSI	--
6	AT&T Wireless Services, Inc.	3GPPMEMBER	T1	John Wilber
7	BT Group Plc	3GPPMEMBER	ETSI	Dave Milham
8	Cingular Wireless LLC	3GPPMEMBER	T1	Thomas Richter
9	Ericsson Inc.	3GPPMEMBER	T1	Edwin Tse
10	Ericsson Korea	3GPPMEMBER	TTA	Robert Petersen
11	ERICSSON L.M.	3GPPMEMBER	ETSI	Ulf Hübinette
12	France Telecom	3GPPMEMBER	ETSI	Emmanuel Dujardin
13	Fujitsu Limited	3GPPMEMBER	ARIB	--
14	Fujitsu Limited	3GPPMEMBER	TTC	Mitsuhiro Azuma
15	Hutchison 3G UK Limited	3GPPMEMBER	ETSI	Bill Szelazek
16	Lucent Technologies	3GPPMEMBER	T1	Ariel Sharon
17	Lucent Technologies N. S. UK	3GPPMEMBER	ETSI	Bradley Owen
18	mmO2 plc	3GPPMEMBER	ETSI	--
19	MOTOROLA GmbH	3GPPMEMBER	ETSI	Trevor Pirt
20	Motorola Inc.	3GPPMEMBER	T1	Joerg Schmidt
21	MOTOROLA JAPAN LTD	3GPPMEMBER	ARIB	--
22	MOTOROLA Ltd	3GPPMEMBER	ETSI	Michael Truss
23	MOTOROLA S.A.	3GPPMEMBER	ETSI	Raymer David
24	NEC Corporation	3GPPMEMBER	ARIB	--
25	NEC Technologies (UK) LTD	3GPPMEMBER	ETSI	Dia Helmy
26	Nippon Ericsson K.K.	3GPPMEMBER	TTC	Thomas Tovingner
27	NOKIA Corporation	3GPPMEMBER	ETSI	Kari Ronka
28	Nortel Networks	3GPPMEMBER	T1	David Sidor
29	NORTEL NETWORKS (EUROPE)	3GPPMEMBER	ETSI	Frédéric Bonneau
30	NTT DoCoMo Inc.	3GPPMEMBER	TTC	--
31	ORANGE FRANCE	3GPPMEMBER	ETSI	Baptiste Caroz
32	Samsung Electronics Co., Ltd	3GPPMEMBER	TTA	--
33	SIEMENS AG	3GPPMEMBER	ETSI	Olaf Pollakowski
34	SIEMENS ICN S.p.A	3GPPMEMBER	ETSI	Gaetano Cicchitto
35	T-Mobile AUSTRIA	3GPPMEMBER	ETSI	Tapinder Pal
36	T-MOBILE DEUTSCHLAND	3GPPMEMBER	ETSI	Karl -Heinz Nenner
37	TELECOM ITALIA S.p.A.	3GPPMEMBER	ETSI	--
38	TELIA AB	3GPPMEMBER	ETSI	Tommy Berggren
39	Vodafone D2 GmbH	3GPPMEMBER	ETSI	Bert Boden
40	VODAFONE Group Plc	3GPPMEMBER	ETSI	John Mudge
41	VODAFONE LTD	3GPPMEMBER	ETSI	--
42	VoiceStream Wireless Corp.	3GPPMEMBER	T1	--
43	XACCT	3GPPMEMBER	ETSI	Kevin Zhang

5.2 Proposal to form SWGD

At SA5#26 meeting in Miami (25 Feb - 1Mar 2002) the SA5 Leaders proposed to form a fourth SWG within SA5 (SWGD). SWGB should be split into two separate SWGs (B & D). SWGB will continue to handle all Charging Management, whereas SWGD will be responsible for Performance Management and Call Trace Management work, formerly handled by SWGB.

SA5 agreed at SA5#26 that if there are no objections from the SA5 membership to the above proposal by 1 April 2002 then this proposal will be deemed as SA5 approved and will become effective immediately.

As the proposal to split SWGB was approved by SA5, the acting Chair of SA5 appointed a Convenor for each of the two new SWGs; namely Karl-Heinz NENNER (T-Mobile) for SWGB and Christian TOCHE (Nortel Networks) for. Consequently, the Convenors run the meetings of the two SWGs at the present meeting.

The two SWGs conducted an informal election to nominate their Chairs (note: this was not an official 3GPP election process and nomination letters were not required). The SA5 Plenary appointed with immediate effect the Chairs of the two SWGs as follows:

SWGB Chair: Karl-Heinz NENNER (T-Mobile)

SWGD Chair: Christian TOCHE (Nortel Networks)

A round of applause saluted the nomination of the two SWG Chairs, well known and respected by the SA5 community.

Later, based on SWG Chair’s nomination, the SA5 Plenary may also appoint SWG Vice Chairs (maximum two) and will be informed of SWGs’ reconfirmation and/or new appointment of all Rapporteurs.

At the next SA5 Plenary at SA5#28 meeting in Sophia Antipolis (20-24 May) the two SWGs should submit their proposed name, scope and terms of reference/working procedures to SA5 for approval by taking as basis the actual draft ToR in S5-020200 Report_SA5_26_v300 (annex S.2.b SWG B - Telecom Management data definition).

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)

SWGA	Telecom Management Architecture and Requirements	input to plenary			
S5-022001	SWGA Report to SA5	SWGA Chair	6.1 SWGA	Report	rev as 303
S5-020303	SWGA Report to SA5 (rev S5-022001 SWGA Presentation)	SWGA Chair	6.1 SWGA	Report	rev of 2001. Noted
S5-022007	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SA5	6.1 SWGA	LS out	Connected to LS in 4035.
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313
S5-022009	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	6.1 SWGA	LS out	Reply to 145
S5-022010	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev as 2017,
S5-022017	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev of 2010
S5-022011	Reply LS on "OAM&P standardization" from GSM NA (S5-020317)	SA5	6.1 SWGA	LS out	Reply to 317
S5-022016	LS on "TS 23.008 Organization of subscriber data"	SA5	6.1 SWGA	LS out	post-meeting approved

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).

S5-022001	SWGA Report to SA5	SWGA Chair	6.1 SWGA	Report	rev as 303
S5-020303	SWGA Report to SA5 (rev S5-022001 SWGA Presentation)	SWGA Chair	6.1 SWGA	Report	rev of 2001. Noted

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

Detailed SWGA Rapporteur reports

Doc. Name	Title	Specs
S5-022202	AR-PR Report	Architecture (32.101) and Principles (32.102), UTRAN OAM (TR 32.800)
S5-022203	SUM Report	Subscription Management (32.140)
S5-022204	UEM Report	User Equipment Management (TR 32.802)

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020311	LS from S3 to S5 : Reply Liaison Statement on the User Equipment Management Feasibility Study (SA5's TR 32.802)	S3-020136	UEM	LS in	Noted
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
S5-020314	LS copy from S5 to S5 : LS reply on: Priority Service Feasibility Study - draft TR 22.950 v1.0.0	S5-020198	n.a.	LS in	Noted
S5-020317	LS from GSM North America to S5 : LS on OAM&P standardization	GSM North America	AR-PR	LS in	Reply in 2011
S5-020318	LS from GUP Joint Ad Hoc to S5 : Reply to comments and questions on UP-010141 and relationship of GUP to Subscription Management (S5-020016)	UP-020018	SWGA	LS in	Noted
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status
S5-022007	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SA5	6.1 SWGA	LS out	Connected to LS in 4035.
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313
S5-022009	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	6.1 SWGA	LS out	Reply to 145
S5-022017	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev of 2010
S5-022011	Reply LS on "OAM&P standardization" from GSM NA (S5-020317)	SA5	6.1 SWGA	LS out	Reply to 317
S5-022016	LS on "TS 23.008 Organization of subscriber data"	SA5	6.1 SWGA	LS out	post-meeting approved

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)

80% complete (OAM Feature: 32.000-/52.000-series)

TSG approval target remains 06/2002

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 invited to do the same so that at the latest in September 2002 the Rel-6 WID are submitted to SA for approval.

6.1.2 Charging and OAM&P (Rel-6 Feature: OAM)

6.1.2.1 CMCC Interface Specification Contribution

S5-020341	Presentation on 3G Network Management Interface TS	Wang Ye (CMCC)	7 cross-SWGA issues	Tdoc	Noted
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This contribution described 2G and 3G Network Management Interface specifications developed by CMCC, it also outlined commonalities and differences between the CMCC spec and existing 3GPP specs. CMCC asked SA5's help and advice on how they should move from their 2G to 3G Network Management deployment.

6.1.2.2 Potential New Building Blocks

6.1.2.2.1 OSA Management

It is felt that a dedicated Building Block is required for OSA Management, and a call for supporting companies & Rapporteur is being made for SA5#28.

6.1.2.2.2 IMS Management / Service Specific Entities

6.1.3 Principles, high-level requirements and architecture (Rel-5 Building Block: OAM-AR) - 32.101, 32.102

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
 CR relating to Service Specific Entities is planned for SA5#28.

6.1.4 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)

"UEM" WI is more than 95% complete. TSG approval target remains 06/2002.
 Joint Meeting held with T2-SWG2 at SA5#27, remaining issues are now close to resolution and the draft TR 32.802 should be ready for approval at SA#16 subject to final T2 agreement prior to approval at SA5#28.

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020311	LS from S3 to S5 : Reply Liaison Statement on the User Equipment Management Feasibility Study (SA5's TR 32.802)	S3-020136	UEM	LS in	Noted
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313

6.1.5 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)

"SM" work item is 95% complete. Stage 1 - 95% complete (32.140) "Services Operations Management; Subscription Management Requirements"

?? Stage 2/3 - 10% complete (TS number to be defined)

TSG approval target shifted from Rel-5 to Rel-6.

Joint Session held with T2 GUP

- ?? Discussed outstanding LS issues
- ?? 32.140 and 23.008 reviewed/discussed
- ?? Agreement on next steps for data definition using GUP DDF and 23.008
- ?? Agreement on GUP Management session at SA5#28
- ?? Action on SA5 to liaise with CN4 re 23.008
- ?? S5-020318 (GUP LS to S5) discussed and agreed (no response required)

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
S5-020318	LS from GUP Joint Ad Hoc to S5 : Reply to comments and questions on UP-010141 and relationship of GUP to Subscription Management (S5-020016)	UP-020018	SWGA	LS in	Noted
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313
S5-022009	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	6.1 SWGA	LS out	Reply to 145
S5-022017	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev of 2010

6.2 SWGB

Convenor: 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 Networks) - 32.205, 32.005
 Rapporteur PS Domain Charging: Matthias LEHNERT (Nortel Networks) - 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 remains 06/2002

SWGB	Charging Management	input to pleantry			
S5-024001	SWGB Report to SA5	SWGB Convenor	6.2 SWGB	Report	added to 304
S5-020304	SWGB Report to SA5 (based on S5-024001 SWGB_Exec_report)	SWGB Convenor	6.2 SWGB	Report	summary of 4001. Noted
S5-024020	Rel-5 CR 32.215: Addition of Real-time delivery of CDRs to the BS	SWGB	6.2 SWGB	CR	Approved
S5-024022	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev as 320
S5-020320	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev of 4022. Connected to CR in 4024. Reply to 112
S5-024023	Reply LS on "Generation of GPRS Charging ID" from CN3 (N3-020187)	SWGB	6.2 SWGB	LS out	Reply to 316.
S5-024024	Rel-5 CR 32.215: Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	SWGB	6.2 SWGB	CR	Connected to LS in 320. Approved.
S5-024026	Rel-5 CR 32.200: Naming of the interfaces to the Billing System	SWGB	6.2 SWGB	CR	Approved.
S5-024031	Reply LS on "Extended Transparent End-to-end Packet Switched Streaming Service Rel-5 draft specifications (TS 26.233 and TS 26.234) for review" from SA2 (S2-020864)	SWGB	6.2 SWGB	LS out	Reply to 147
S5-024032	Reply LS on "MMS Charging and MMS Message Volume Measurement Methods" from GSMA BARG CPWP	SWGB	6.2 SWGB	LS out	Reply to 142 and 151
S5-024033	Reply to LSs on "3GPP SA1 MMS SWG" from SA1 (S1-020518, S1-020519)	SWGB	6.2 SWGB	LS out	Reply to 177 and 178
S5-024034	Reply to LS on "MMS Prepaid and MMS VASP connectivity via OSA" from SA1 (S1-020469)	SWGB	6.2 SWGB	LS out	Reply to 176
S5-024035	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SWGB	6.2 SWGB	LS out	Reply to 124. Connected to LS in 2007.
S5-024037	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev as 321
S5-020321	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev of 4037

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).

S5-024001	SWGB Report to SA5	SWGB Convenor	6.2 SWGB	Report	added to 304
S5-020304	SWGB Report to SA5 (based on S5-024001 SWGB_Exec_report)	SWGB Convenor	6.2 SWGB	Report	summary 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.

Detailed SWGB Rapporteur reports

Doc. Name	Title	Specs
S5-024002	"Charging Principles" Rapporteur report	32.200
S5-024003	"CS Charging" Rapporteur report	32.005, 32.015
S5-024004	"PS Charging" Rapporteur report	32.215, 32.015
S5-024005	"IMS Charging" Rapporteur report	32.225
S5-024006	"Service Charging" Rapporteur report	32.235

Liaison Statements:

Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
S5-020316	LS from N3 to S5 : LS on Generation of GPRS Charging ID	N3-020187	CH	LS in	Reply in 4023
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status
S5-020320	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev of 4022. Connected to CR in 4024. Reply to 112.
S5-024023	Reply LS on "Generation of GPRS Charging ID" from CN3 (N3-020187)	SWGB	6.2 SWGB	LS out	Reply to 316.
S5-024031	Reply LS on "Extended Transparent End-to-end Packet Switched Streaming Service Rel-5 draft specifications (TS 26.233 and TS 26.234) for review" from SA2 (S2-020864)	SWGB	6.2 SWGB	LS out	Reply to 147
S5-024032	Reply LS on "MMS Charging and MMS Message Volume Measurement Methods" from GSMA BARG CPWP	SWGB	6.2 SWGB	LS out	Reply to 142 and 151
S5-024033	Reply to LSs on "3GPP SA1 MMS SWG" from SA1 (S1-020518, S1-020519)	SWGB	6.2 SWGB	LS out	Reply to 177 and 178
S5-024034	Reply to LS on "MMS Prepaid and MMS VASP connectivity via OSA" from SA1 (S1-020469)	SWGB	6.2 SWGB	LS out	Reply to 176
S5-024035	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SWGB	6.2 SWGB	LS out	Reply to 124. Connected to LS in 2007.
S5-020321	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev of 4037

SA5 agreed provisionally (except S5-024024) the following CR for submission to SA for approval:

S5-024020	Rel-5 CR 32.215: Addition of Real-time delivery of CDRs to the BS	SWGB	6.2 SWGB	CR	Approved
S5-024024	Rel-5 CR 32.215: Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	SWGB	6.2 SWGB	CR	Connected to LS in 320. Approved.
S5-024026	Rel-5 CR 32.200: Naming of the interfaces to the Billing System	SWGB	6.2 SWGB	CR	Approved.

6.2.1.1 IMS Charging

S5-024010 is a contribution from Lucent, Nortel, Ericsson, Nokia and Hutchison on the use of **DIAMETER as the charging protocol** for IMS off-line and on-line charging. SWGB agreed to apply DIAMETER as the protocol for IMS off-line charging in Rel-5, i.e. on the Ra and Rf interfaces. The on-line charging part is for further discussion at future meetings.

The proposal from Orange to use not only DIAMETER but also FTP on the Rf interface for IMS off-line charging got very limited support. Consequently, Orange do not wish to further pursue this issue in Rel-5.

6.2.2 SWGB ad-hoc meetings

SA5#27bis ad-hoc will be hosted by Siemens in Berlin, 8-10 April 2002. The main topic will be IMS charging and some time will be dedicated to MMS charging. Support from SA2 will be available for the discussion of IMS on-line charging.

SA5#27quad ad-hoc will be hosted by ETSI in Sophia Antipolis, 15-17 May 2002. The time allocation for the 7,5 days of RG sessions during this ad-hoc and the subsequent SA5#28 meeting will depend on the status of IMS and MMS charging specification reached at the end of SA5#27bis.

Meeting	Date	Location	Host
3GPPSA5-#27 bis (CH)	8 - 10 Apr 2002	Berlin, GERMANY	Siemens
3GPPSA5#27-ter (CH)	15 - 17 May 2002	Sophia Antipolis, FRANCE	ETSI

6.2.3 IPDR.org co-operation

Following the presentation made at the last SA5#26 Miami meeting, the IPDR Editor-in-Chief has confirmed the generation later in April 2002 of a GPRS CDR version compatible with the IPDR NDM-U specification. Once available, the IPDR document will be sent to SA5 via the informal contact established at SA5#26 between the IPDR Editor-in-Chief and the SWGB Chair.

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	Telecom Network Infrastructure Management	input to pleantry			
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
S5-026043r2	Rel-4 CR 32.622: Remove R99-inherited restriction of self-containment for MOC SubNetwork	SWGC	6.3 SWGC	CR	Approved.
S5-026045r2	Rel-4 CR 32.624: Making 32.624 consistent to 32.622 and 32.623	SWGC	6.3 SWGC	CR	Approved.
S5-026059r2	Rel-4 CR 32.632: Change R-SGW to SGW to align with 23.002 - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026060r2	Rel-4 CR 32.633: Change R-SGW to SGW to align with 23.002 - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026064r2	Rel-4 CR 32.642: Corrections of reference in figure 6.2 and attribute descriptions in UtranRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026067r2	Rel-4 CR 32.652: Adding MCC/MNC to the GERAN model	SWGC	6.3 SWGC	CR	Approved.
S5-026068r2	Rel-4 CR 32.652: Correction of attribute descriptions in GsmRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026074r1	Rel-4 CR 32.613: Missing CORBA exceptions and CORBA exception usage descriptions	SWGC	6.3 SWGC	CR	Approved.
S5-026075r1	Rel-4 CR 32.612: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026076r1	Rel-4 CR 32.613: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026077r1	Rel-4 CR 32.614: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026087	Rel-4 CR 32.642: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.
S5-026088	Rel-4 CR 32.652: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.

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

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

Detailed SWGC Rapporteur reports

Doc. Name	Title	Source
S5-026003	Detailed Report of SWG-C meeting	SWG-C Chair
S5-026009	Report of SWG-C RG Session for WTC1	RG Convenor
S5-026012	Report of SWG-C RG Session for WT02	Rapporteur
S5-026016	Report of SWG-C RG Session for WT06	Rapporteur
S5-026018	Report of SWG-C RG Session for WT08	Rapporteur
S5-026019	Report of SWG-C RG Session for WT09	Rapporteur
S5-026021	Report of SWG-C RG Session for WT11	Rapporteur
S5-026022	Report of SWG-C RG Session for WT12	Rapporteur
S5-026024	Report of SWG-C RG Session for WT14	Rapporteur
S5-026025	Report of SWG-C RG Session for WT15	Rapporteur
S5-026027	Report of SWG-C RG Session for WT17	Rapporteur

WT # (RG)	Work task description	
WT1	Consistency check with TR 32.800 (UOAM)	Driver: Mannesmann Mobilfunk
WT2	Study the relevance of an alarm removal function	Driver: Ericsson
WT3	CORBA framework alignment with ITU-T SG4, notification handling part.	Driver: AWS
WT4	Impact of Trouble ticketing management on Itf-N	Driver: Ericsson
WT5	Notification Log IRP	Driver: Motorola
WT6	Test management	Driver: Siemens
WT7	Security alarms	Driver: Ericsson
WT8	Bulk CM enhancements	Driver: T-Mobil
WT9	Active CM introduction (non-bulk)	Driver: AWS
WT10	Extensions to the Generic Network Resource Model	Driver: Siemens
WT11	State Management	Driver: Siemens
WT12	Extensions to the Core Network Resource Model	Driver: T-Mobil
WT13	Possible new Solution Sets for existing IRPs	Driver: Siemens
WT14	Inventory management	Driver: T-Mobil
WT15	Alignment with 32.102	Driver: Ericsson
WT16	New Kernel CM IRP	Driver: AWS
WT17	Backwards Compatibility rules	Driver: Ericsson
WT18	Performance management	Driver: TBD

6.3.1 Network Infrastructure Management (Rel-5 Building Block: OAM-NIM) - 32.300-/32.600-series

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)

BB: Network Infrastructure Management (OAM-NIM) : 60% complete TSG approval target remains 06/2002

?? 58 new or updated specifications in Rel-5 (see S5C010541r8 for overview/status)

?? All Requirements and IS specifications are planned for completion at SA5#28 (05-2002). Updated IS methodology probably needs inclusion later; hence will miss SA#16 (06-2002).

?? Many SS specifications are at risk for not being completed at SA5#28; hence are delayed/moved to SA#17 (09-2002).

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

S5-026043r2	Rel-4 CR 32.622: Remove R99-inherited restriction of self-containment for MOC SubNetwork	SWGC	6.3 SWGC	CR	Approved.
S5-026045r2	Rel-4 CR 32.624: Making 32.624 consistent to 32.622 and 32.623	SWGC	6.3 SWGC	CR	Approved.
S5-026059r2	Rel-4 CR 32.632: Change R-SGW to SGW to align with 23.002 - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026060r2	Rel-4 CR 32.633: Change R-SGW to SGW to align with 23.002 - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026064r2	Rel-4 CR 32.642: Corrections of reference in figure 6.2 and attribute descriptions in UtranRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026067r2	Rel-4 CR 32.652: Adding MCC/MNC to the GERAN model	SWGC	6.3 SWGC	CR	Approved.
S5-026068r2	Rel-4 CR 32.652: Correction of attribute descriptions in GsmRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026074r1	Rel-4 CR 32.613: Missing CORBA exceptions and CORBA exception usage descriptions	SWGC	6.3 SWGC	CR	Approved.
S5-026075r1	Rel-4 CR 32.612: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026076r1	Rel-4 CR 32.613: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026077r1	Rel-4 CR 32.614: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026087	Rel-4 CR 32.642: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.
S5-026088	Rel-4 CR 32.652: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.

6.3.2 SWGC ad-hoc meetings

SA5#27ter ad-hoc will be hosted by ETSI in Sophia Antipolis, 14-17 May 2002.

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
3GPPSA5#27-quad (NIM)	14 - 17 May 2002	Sophia Antipolis, FRANCE	ETSI
SA5#28-bis (CMCC)	20-21 Jun 2002	Beijing, CHINA	CMCC

6.4 SWGD: Performance Management / Trace Management Convenor: 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	Performance Management / Trace Management	input to pleantry			
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
S5-028009	Rel-4 CR 52.402 4.0.0: SGSN measurements, erroneous definitions - Mirror CR (Cat A) of 8010	SWGD	6.4 SWGD	CR	Approved.
S5-028010	R99 CR 12.04 8.0.0: SGSN measurements, erroneous definitions	SWGD	6.4 SWGD	CR	Approved.
S5-028011	Rel-4 CR 52.402 4.0.0: SGSN measurements, irrelevant definitions (Cipherring Mode) - Mirror CR (Cat A) of 8012	SWGD	6.4 SWGD	CR	Approved.
S5-028012	R99 CR 12.04 8.0.0: SGSN measurements, irrelevant definitions (Cipherring Mode)	SWGD	6.4 SWGD	CR	Approved.

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.

Detailed SWGD Rapporteur reports

Doc. Name	Title	Specs
S5-028002	"PM Concept and Requirements" Rapporteur report	32.401
S5-028003	"Measurement Definitions" Rapporteur report	32.403, 52.402
S5-028004	"Trace" Rapporteur report	32.108

6.4.1 Performance Management (Rel-5 Building Block: 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% complete TSG approval target remains 06/2002

6.4.1.1 PM Concepts and Requirements Performance Monitoring (Rel-5, 50% complete)

?? draft PM IRP requirements moved to Rel-6 (new TS 32.411), to be submitted to SA#16 (June 2002) for Information.

File format and measurement template enhancement (Rel-5, 50% complete)

?? available preliminary proposal for alternative PM file format (XML schema).

PM Result file management (Rel-5, 40% complete)

?? addressed by PM IRP requirements (TS 32.411).

Preliminary discussion held on the PM aspects of CMCC Management Framework (for Rel-6)

6.4.1.2 Measurement definitions Measurement definitions for UMTS and combined GSM and UMTS systems (Rel-5, 80% complete)

?? Following rejection by SA#15, the reworked CR introducing the measurement definition process into TS 32.403 will be submitted to the next meeting, SA5#28, for agreement.

?? CR introducing WSMT measurements into TS 32.403 will be submitted to the next meeting, SA5#28, for agreement.

Measurement definition for GSM systems (Rel-5, 70% complete)

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

S5-028009	Rel-4 CR 52.402 4.0.0: SGSN measurements, erroneous definitions - Mirror CR (Cat A) of 8010	SWG D	6.4 SWGD	CR	Approved.
S5-028010	R99 CR 12.04 8.0.0: SGSN measurements, erroneous definitions	SWG D	6.4 SWGD	CR	Approved.
S5-028011	Rel-4 CR 52.402 4.0.0: SGSN measurements, irrelevant definitions (Ciph ering Mode) - Mirror CR (Cat A) of 8012	SWG D	6.4 SWGD	CR	Approved.
S5-028012	R99 CR 12.04 8.0.0: SGSN measurements, irrelevant definitions (Ciph ering Mode)	SWG D	6.4 SWGD	CR	Approved.

6.4.2 Subscriber and Equipment Trace (Rel-5 Feature) - 32.108

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

Rapporteur: Kari RONKA (NOKIA) - 32.108

"Trace Mg" WI is 60% complete. Submission to TSG for Information remains 06/2002

?? Trace Concepts and Requirements (Rel-5, 60% complete) - moved to Rel-6.
 Trace Concepts and Requirements Rel-6 TS 32.421 to be submitted to SA#16 (June 2002) for Information.

?? Trace Control and Configuration Management enhancement (Rel-5, 40% complete) - moved to Rel-6. Trace Data Definition and Management (Rel-5, 30% complete) - moved to Rel-6. SA 5 **approved**:

1. to move the entire "Subscriber and Equipment Trace" work to Rel-6

- 2. to split TS 32.108 into tree (3) TSs as follows:
 - 32.421 "Trace Concepts and Requirements",
 - 32.422 "Trace Control and Configuration Management" and
 - 32.423 "Trace Data Definition and Management".
- 3. to move GSM 12.08 to 52.008 in Rel-5 and onwards

Liaison Statements:

Meeting #27, Cork					
Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020312	LS copy from S3 to S5 : Reply to N4-020302: Response Liaison Statement on Trace and Availability of IMSI and IMEI	S3-020157	TR	LS in	Noted
S5-020315	LS copy from G2 to S5 : Response to 'Response Liaison Statement on Trace and Availability of IMSI and IMEI'	G2-020399	TR	LS in	Noted
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status

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

A joint session between SWGA/C/D was held on Tuesday, 2 April 2002, evening on presentation/discussion of:

- ?? ITU-T XML/ASN.1 (S5-020343) - see clause 7.2.1 &
- ?? CMCC Network Management Interface specification (S5-020341 and S5-026069) - see clause 7.2.2.

7.2.1 OSS Nokalva presentation on ITU XML/ASN.1

S5-020343	Presentation on ITU XML/ASN.1	Alessandro Triglia (OSS Nokalva, USA)	7 cross-SWG issues	Tdoc	Noted
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Mr. Alessandro TRIGLIA (OSS Nokalva, USA) presented the ITU-T ASN.1 group's recent work on ASN.1 XML Encoding Rules to a joint session of SWGs A/B/C/D on Tuesday evening 17:45 - 18:30.

SA5 **noted** the above presentation. The SWGs were invited to have a deeper look into the matter and comeback to the SA5 plenary with concrete proposals whenever appropriate.

The ASN.1 Language as a New Schema Definition Language for XML

Alessandro Triglia sandro@oss.com

OSS Nokalva, USA <http://www.oss.com>

Overview

- ?? The ASN.1 language is a mature and stable notation for defining protocol messages
- ?? Widely deployed in the telecommunications networks
- ?? Used by many protocols in the areas of cellular telephony, security, biometrics, videoconferencing, air transportation, messaging, directory, etc.
- ?? Until recently, ASN.1 messages could only be encoded in binary form, by using one of several standardized sets of encoding rules
- ?? The ASN.1 group of ISO/IEC/ITU-T has produced a new standard - the *XML Encoding Rules* of ASN.1 - which specifies an XML encoding of the messages that can be defined in the ASN.1 language
- ?? With the introduction of the XML Encoding Rules, the ASN.1 language has become a schema definition language for XML

7.2.1.1 Standards

ITU-T Recommendations: *X.680* series and *X.690* series

?? 1997 edition is in force

?? 2002 edition for approval this Summer - includes *XML Value Notation*

ISO/IEC International Standards: *ISO/IEC 8824* series and *ISO/IEC 8825* series

ITU-T Languages Recommendations free of charge in electronic form at:

<http://www.itu.int/ITU-T/studygroups/com17/languages>

The ASN.1 language is a member of the ITU-T family of languages for telecommunication systems, which also includes:

?? *SDL (Specification and Description Language)*,

?? *MSC (Message Sequence Charts)*, and

?? *TTCN (Tree and Tabular Combined Notation)*.

7.2.1.2 Other sources

Books:

?? *ASN.1 - Communication Between Heterogeneous Systems* (Olivier Dubuisson, Morgan Kaufmann, 2001)
Can be downloaded free of charge from: <http://www.oss.com/asn1/dubuisson.html>

?? *ASN.1 Complete* (John Larmouth, Morgan Kaufmann, 2000)
Can be downloaded free of charge from: <http://www.oss.com/asn1/larmouth.html>

Web Links:

?? <http://asn1.elibel.tm.fr>

?? <http://www.itu.int/ITU-T/asn1>

7.2.1.3 Free Tools

France Telecom ASN.1 Syntax Checker and Pretty-Printer (Web based): <http://asn1.elibel.tm.fr/asnp>

OSS Nokalva ASN.1 Syntax and Semantics Checker: <http://www.oss.com/products/checksyntax.html>

Comprehensive list of existing ASN.1 tools - many of which are free - at:

?? <http://asn1.elibel.tm.fr/en/links/index.htm#tools>

?? <http://asn1.elibel.tm.fr/en/links/index.htm#xml>

7.2.1.4 ITU-T ASN.1 Project

Promote use of ASN.1 within the ITU-T and in other standards development organizations (ISO, ETSI, ECMA, IETF, etc.)

Help users understand and write ASN.1 specifications

Provide tools and ensure the quality of the specifications to be published

Free ASN.1 Module Database: <http://www.itu.int/itu-t/asn1/database>

Object Identifier (OID) Repository: <http://asn1.elibel.tm.fr/oid>

Address: <http://www.itu.int/itu-t/asn1>

7.2.1.5 ASN.1 Consortium

Share resources and information among ASN.1 tool vendors and users

Promote ASN.1 (press, companies, universities, etc.)

No standardization work done in the Consortium

Address: <http://www.asn1.org>

7.2.2 CMCC presentation on 3G Network Management Interface specification

S5-020341	Presentation on 3G Network Management Interface TS	Wang Ye (CMCC)	7 cross-SWG issues	Tdoc	Noted
S5-026069	3rd Generation Network Management Interface Technical Specification	Wang Ye (CMCC)			

Mr. Wang YE (China Mobile Communication Corporation) presented the OSS interface specifications produced by CMCC to a joint session of SWGs A/C/D on Tuesday evening 18:30 - 19:30.

2G and 3G Network Management Interface specifications developed by CMCC were presented as follows:

3rd Generation Network Management Interface Technical Specification: Generic Management Framework

3rd Generation Network Management Interface Technical Specification: CORBA Management Frame and Solution Set

3rd Generation Network Management Interface Technical Specification: CMIP Solution Set

CMCC outlined commonalities and differences between the CMCC specifications and the existing 3GPP specifications. CMCC declared that Network management systems based on these specifications have been experimentally running in China.

This time only the Generic Management Framework was submitted to SA5. CMCC also has complete specifications on the management of core network and access network of UMTS (including parameters of CM, PM and FM), which will also be submitted to SA5 some time later.

Considering the current status of GSM network management in China, the main question arising from CMM's presentation was how to solve the current problem of two 3G NMI specifications in China.

CMCC asked SA5 for help and advice on how CMCC should move from their 2G-to-3G Network Management deployment.

CMCC was very pleased to exchange views with SA5 and proposed to host an ad-hoc meeting to discuss the details and a possible way forward sometimes later in Beijing.

As the CMCC contribution will potentially have direct impact on SWGC in Rel-6 it was agreed to hold an ad-hoc meeting just before and in connection with SA5#29 in Beijing. **Convenor:** TBD (this will probably be a joint A/C/D ad-hoc meeting).

SA5#28bis (CMCC)	20-21 Jun 2002	Beijing, CHINA	CMCC
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7.3 Other issues

8 Discussions and decisions on other business

9 Future meetings

SA5 meeting calendar

Meeting	Date	Location	Host
3GPPSA5-#27-bis (CH)	8 - 10 Apr 2002	Berlin, GERMANY	Siemens
3GPPSA5#27-quad (NIM)	14 - 17 May 2002	Sophia Antipolis, FRANCE	ETSI
3GPPSA5#27-ter (CH)	15 - 17 May 2002	Sophia Antipolis, FRANCE	ETSI
SA5#28	20-24 May 2002	Sophia Antipolis, FRANCE	ETSI
TSG#16	4 - 13 Jun 2002	Marco Island, FL, USA	Motorola
SA5#28-bis (CMCC)	20-21 Jun 2002	Beijing, CHINA	CMCC
SA5#29	24-28 Jun 2002	Beijing, CHINA	Nortel Networks
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
SA5#33	20-24 Jan 2003	Sophia Antipolis, FRANCE	ETSI
SA5#34	at the latest the last week of Feb 2003		
TSG#19	11 - 21 Mar 2003	Jersey Island, UK	UK Friends
SA5#3x	at the latest the last week of May 2003		
TSG#20	10 - 19 Jun 2003	FINLAND	NOKIA
SA5#3y	at the latest the first week of Sep 2003		
TSG#21	16 - 25 Sep 2003		
SA5#3z	at the latest the last week of Nov 2003		
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

Thomas RICHTER, the just elected SA5 Vice Chair, thanked the host (Motorola Ltd) on behalf of the SA5 participants for the excellent meeting arrangements and the exceptional social event at the Old Midleton Distillery (Home of Jameson Irish Whiskey).

Michael TRUSS, the just elected SA5 Chair, adjourned the meeting at 15:10 and thanked the delegates for their contributions.

Annex A: Agenda

Agenda item	Input / Output / Revised Documents
1 Call to order (Friday, 9:00 a.m.)	
2 Participant registration	
3 Agenda approval	301, 302, 340,
4 Meetings and activities reports	
4.1 Last SA5 meeting report	143, 200
4.2 Last SA meeting report (if applicable)	309, 338, 339,
4.3 Liaison rapporteurs reports	
4.4 Inter-organizational communication reports	342 (AWS) LS in: 311 UEM 312 TR 313 UEM, SUM, CH 314 n.a. 315 TR 316 CH 317 AR-PR 318 SWGA
4.5 Other reports	
5 Discussions and decisions on SA5 administrative issues	
5.1 Nominations, for Chair and 2nd SA5 Vice-Chair position (& possible voting)	344, 346, 337, 319
5.2 Proposal to for SWGD	
6 Sub-Working Group reports and actions	310
6.1 SWGA	LS in: 311 UEM 313 UEM, SUM, CH 314 n.a. 317 AR-PR 318 SWGA 2001/303 2007, 2008, 2009, 2010/2017, 2011
6.2 SWGB	LS in: 313 UEM, SUM, CH 316 CH 4001/304 4020, 4022/0320, 4023, 4024, 4026, 4031, 4032, 4033, 4034, 4035, 4037/0321
6.3 SWGC	6001/305 6043r2, 6045r2, 6059r2, 6060r2, 6064r2, 6067r2, 6068r2, 6074r1, 6075r1, 6076r1, 6077r1, 6087, 6088
6.4 SWGD (Subject to SA5 approval)	LS in: 312 TR 315 TR 8001/306 8009, 8010, 8011, 8012,
6.5 Ad Hoc activities (if any)	
7 Discussions and decisions on cross-SWG issues	341 (CMCC), 342 (ITU XML/ASN.1)
7.1 Administrative issues	
7.2 Technical issues	
7.3 Other issues	
8 Discussions and decisions on other business	
9 Scheduling of future meetings	308
10 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 red are not available; e.g. S5-020xyz
 Documents highlighted in green are replaced / superseded by a Revised Version; e.g. S5-020xyz

Doc #	Title	Source	Allocations	Type	Status
S5-020143	Draft V1.0.0 Report SA5#26	Secretary	4.1 Last SA5 report	Report	Update to 200. Approved
SA5 plenary					
S5-020301	Draft Agenda	TB Chairman	3 Agenda	Agenda	Approved
S5-020302	SA5 #27Cork Meeting Plan	TB Chairman	3 Agenda	Schedule	Approved
S5-020303	SWGA Report to SA5 (rev S5-022001 SWGA Presentation)	SWGA Chair	6.1 SWGA	Report	rev of 2001. Noted
S5-020304	SWGB Report to SA5 (based on S5-024001 SWGB_Exec_report)	SWGB Convenor	6.2 SWGB	Report	summary of 4001. Noted
S5-020305	SWGC Report to SA5 (rev S5-026001 SWGC Presentation)	SWGC Chair	6.3 SWGC	Report	rev of 6001. Noted
S5-020306	SWGD Report to SA5 (rev S5-028001 SWGD Presentation)	SWGD Convenor	6.4 SWGD	Report	rev of 8001. Noted
S5-020307	Draft Report of SA5#27	TB Officer		Report	sent 25 Apr
S5-020308	3GPP meeting calendar	MCC	9 Future meetings	Tdoc	Noted
S5-020309	Draft_Report_SA#15_v002	SA secretary	4.2 Last SA report	Report	Noted
S5-020310	3GPP work plan	MCC	SWGA/B/C/D	Tdoc	Noted
S5-020311	LS from S3 to S5 : Reply Liaison Statement on the User Equipment Management Feasibility Study (SA5's TR 32.802)	S3-020136	UEM	LS in	Noted
S5-020312	LS copy from S3 to S5 : Reply to N4-020302: Response Liaison Statement on Trace and Availability of IMSI and IMEI	S3-020157	TR	LS in	Noted
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
S5-020314	LS copy from S5 to S5 : LS reply on: Priority Service Feasibility Study - draft TR 22.950 v1.0.0	S5-020198	n.a.	LS in	Noted
S5-020315	LS copy from G2 to S5 : Response to 'Response Liaison Statement on Trace and Availability of IMSI and IMEI'	G2-020399	TR	LS in	Noted
S5-020316	LS from N3 to S5 : LS on Generation of GPRS Charging ID	N3-020187	CH	LS in	Reply in 4023
S5-020317	LS from GSM North America to S5 : LS on OAM&P standardization	GSM North America	AR-PR	LS in	Reply in 2011
S5-020318	LS from GUP Joint Ad Hoc to S5 : Reply to comments and questions on UP-010141 and relationship of GUP to Subscription Management (S5-020016)	UP-020018	SWGA	LS in	Noted
S5-020319	Report on the Vote for SA5 Chair & Vice-Chair during SA5 meeting #27	MCC	5.1 Elections	Report	Approved
S5-020337	Voting list valid for 3GPP TSG SA WG 5 meeting #27	MCC	5.1 Elections	Tdoc	Noted
S5-020338	Summary of TSG-SA#15 issues of SA5 interest	MCC	4.2 Last SA report	Tdoc	Noted
S5-020339	SA5 spec list (status after SA#15)	MCC	4.2 Last SA report	Tdoc	Noted
S5-020340	Make calls for IPRs	MCC	3 Agenda	Tdoc	Noted
S5-020341	Presentation on 3G Network Management Interface TS	Wang Ye (CMCC)	7 cross-SWG issues	Tdoc	Noted
S5-020342	AWS Proposed Vote to Align 3GPP Notifications With ITU	John Wilber (AWS)	4.4 Inter-orga rep.	Tdoc	Noted
S5-020343	Presentation on ITU XML/ASN.1	Alessandro Triglia (OSS Nokalva, USA)	7 cross-SWG issues	Tdoc	Noted
S5-020344	Nomination of Frank PEETERS to the position of chair of 3GPP/SA5	Alcatel	5.1 Elections	Nomin	Noted
S5-020346	Nomination of Michael TRUSS to the position of chair of 3GPP/SA5	Motorola	5.1 Elections	Nomin	Noted
SWGA	Telecom Management Architecture and Requirements	input to plenary			
S5-022001	SWGA Report to SA5	SWGA Chair	6.1 SWGA	Report	rev as 303
S5-022007	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SA5	6.1 SWGA	LS out	Connected to LS in 4035.
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313
S5-022009	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	6.1 SWGA	LS out	Reply to 145
S5-022010	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev as 2017,
S5-022017	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev of 2010
S5-022011	Reply LS on "OAM&P standardization" from GSM NA (S5-020317)	SA5	6.1 SWGA	LS out	Reply to 317

S5-022016	LS on "TS 23.008 Organization of subscriber data"	SA5	6.1 SWGA	LS out	post-meeting approved
SWGB	Charging Management	input to pleantry			
S5-024001	SWGB Report to SA5	SWGB Convenor	6.2 SWGB	Report	added to 304
S5-024020	Rel-5 CR 32.215: Addition of Real-time delivery of CDRs to the BS	SWGB	6.2 SWGB	CR	Approved
S5-024022	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev as 320
S5-020320	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev of 4022. Connected to CR in 4024. Reply to 112
S5-024023	Reply LS on "Generation of GPRS Charging ID" from CN3 (N3-020187)	SWGB	6.2 SWGB	LS out	Reply to 316.
S5-024024	Rel-5 CR 32.215: Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	SWGB	6.2 SWGB	CR	Connected to LS in 320. Approved.
S5-024026	Rel-5 CR 32.200: Naming of the interfaces to the Billing System	SWGB	6.2 SWGB	CR	Approved.
S5-024031	Reply LS on "Extended Transparent End-to-end Packet Switched Streaming Service Rel-5 draft specifications (TS 26.233 and TS 26.234) for review" from SA2 (S2-020864)	SWGB	6.2 SWGB	LS out	Reply to 147
S5-024032	Reply LS on "MMS Charging and MMS Message Volume Measurement Methods" from GSMA BARG CPWP	SWGB	6.2 SWGB	LS out	Reply to 142 and 151
S5-024033	Reply to LSs on "3GPP SA1 MMS SWG" from SA1 (S1-020518, S1-020519)	SWGB	6.2 SWGB	LS out	Reply to 177 and 178
S5-024034	Reply to LS on "MMS Prepaid and MMS VASP connectivity via OSA" from SA1 (S1-020469)	SWGB	6.2 SWGB	LS out	Reply to 176
S5-024035	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SWGB	6.2 SWGB	LS out	Reply to 124. Connected to LS in 2007.
S5-024037	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev as 321
S5-020321	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev of 4037
SWGC	Telecom Network Infrastructure Management	input to pleantry			
S5-026001	SWGC Report to SA5	SWGC Chair	6.3 SWGC	Report	rev as 305
S5-026043r2	Rel-4 CR 32.622: Remove R99-inherited restriction of self-containment for MOC SubNetwork	SWGC	6.3 SWGC	CR	Approved.
S5-026045r2	Rel-4 CR 32.624: Making 32.624 consistent to 32.622 and 32.623	SWGC	6.3 SWGC	CR	Approved.
S5-026059r2	Rel-4 CR 32.632: Change R-SGW to SGW to align with 23.002 - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026060r2	Rel-4 CR 32.633: Change R-SGW to SGW to align with 23.002 - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026064r2	Rel-4 CR 32.642: Corrections of reference in figure 6.2 and attribute descriptions in UtranRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026067r2	Rel-4 CR 32.652: Adding MCC/MNC to the GERAN model	SWGC	6.3 SWGC	CR	Approved.
S5-026068r2	Rel-4 CR 32.652: Correction of attribute descriptions in GsmRelation	SWGC	6.3 SWGC	CR	Approved.
S5-026074r1	Rel-4 CR 32.613: Missing CORBA exceptions and CORBA exception usage descriptions	SWGC	6.3 SWGC	CR	Approved.
S5-026075r1	Rel-4 CR 32.612: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Parent CR	SWGC	6.3 SWGC	CR	Approved.
S5-026076r1	Rel-4 CR 32.613: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026077r1	Rel-4 CR 32.614: Correction of behaviour for IS parameter "saveFallback" of IS operation "activate" - Child CR	SWGC	6.3 SWGC	CR	Approved.
S5-026087	Rel-4 CR 32.642: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.
S5-026088	Rel-4 CR 32.652: Correction of supported IRP in system context	SWGC	6.3 SWGC	CR	Approved.
SWGD	Performance Management / Trace Management	input to pleantry			
S5-028001	SWGD Report to SA5	SWGD Convenor	6.4 SWGD	Report	rev as 306
S5-028009	Rel-4 CR 52.402 4.0.0: SGSN measurements, erroneous definitions - Mirror CR (Cat A) of 8010	SWGD	6.4 SWGD	CR	Approved.
S5-028010	R99 CR 12.04 8.0.0: SGSN measurements, erroneous definitions	SWGD	6.4 SWGD	CR	Approved.
S5-028011	Rel-4 CR 52.402 4.0.0: SGSN measurements, irrelevant definitions (Ciphering Mode) - Mirror CR (Cat A) of 8012	SWGD	6.4 SWGD	CR	Approved.
S5-028012	R99 CR 12.04 8.0.0: SGSN measurements, irrelevant definitions (Ciphering Mode)	SWGD	6.4 SWGD	CR	Approved.

B.1 Liaison Statements

Meeting #27, Cork					
Tdoc	List of incoming Liaison Statements	Source	Allocation	Type	Status
S5-020311	LS from S3 to S5 : Reply Liaison Statement on the User Equipment Management Feasibility Study (SA5's TR 32.802)	S3-020136	UEM	LS in	Noted
S5-020312	LS copy from S3 to S5 : Reply to N4-020302: Response Liaison Statement on Trace and Availability of IMSI and IMEI	S3-020157	TR	LS in	Noted
S5-020313	LS copy from S3 to S5 : Reply LS on support for subscriber certificates	S3-020163	UEM, SUM, CH	LS in	Noted
S5-020314	LS copy from S5 to S5 : LS reply on: Priority Service Feasibility Study - draft TR 22.950 v1.0.0	S5-020198	n.a.	LS in	Noted
S5-020315	LS copy from G2 to S5 : Response to 'Response Liaison Statement on Trace and Availability of IMSI and IMEI'	G2-020399	TR	LS in	Noted
S5-020316	LS from N3 to S5 : LS on Generation of GPRS Charging ID	N3-020187	CH	LS in	Reply in 4023
S5-020317	LS from GSM North America to S5 : LS on OAM&P standardization	GSM North America	AR-PR	LS in	Reply in 2011
S5-020318	LS from GUP Joint Ad Hoc to S5 : Reply to comments and questions on UP-010141 and relationship of GUP to Subscription Management (S5-020016)	UP-020018	SWGA	LS in	Noted
Tdoc	List of outgoing Liaison Statements	Source	Allocation	Type	Status
S5-022007	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SA5	6.1 SWGA	LS out	Connected to LS in 4035.
S5-022008	Reply LS on "support for subscriber certificates" from SA3 (S3-020163)	SA5	6.1 SWGA	LS out	Reply to 313
S5-022009	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	6.1 SWGA	LS out	Reply to 145
S5-022017	LS on co-ordination of data definitions, identified in GUP development	SA5	6.1 SWGA	LS out	rev of 2010
S5-022011	Reply LS on "OAM&P standardization" from GSM NA (S5-020317)	SA5	6.1 SWGA	LS out	Reply to 317
S5-022016	LS on "TS 23.008 Organization of subscriber data"	SA5	6.1 SWGA	LS out	post-meeting approved
S5-020320	Reply to LS on "IP version inter-working on the transport plane" from SA2 (S2-020291)	SWGB	6.2 SWGB	LS out	rev of 4022. Connected to CR in 4024. Reply to 112.
S5-024023	Reply LS on "Generation of GPRS Charging ID" from CN3 (N3-020187)	SWGB	6.2 SWGB	LS out	Reply to 316.
S5-024031	Reply LS on "Extended Transparent End-to-end Packet Switched Streaming Service Rel-5 draft specifications (TS 26.233 and TS 26.234) for review" from SA2 (S2-020864)	SWGB	6.2 SWGB	LS out	Reply to 147
S5-024032	Reply LS on "MMS Charging and MMS Message Volume Measurement Methods" from GSMA BARG CPWP	SWGB	6.2 SWGB	LS out	Reply to 142 and 151
S5-024033	Reply to LSs on "3GPP SA1 MMS SWG" from SA1 (S1-020518, S1-020519)	SWGB	6.2 SWGB	LS out	Reply to 177 and 178
S5-024034	Reply to LS on "MMS Prepaid and MMS VASP connectivity via OSA" from SA1 (S1-020469)	SWGB	6.2 SWGB	LS out	Reply to 176
S5-024035	Reply LS on "VASP MMS Connectivity" from T2 (T2-020038)	SWGB	6.2 SWGB	LS out	Reply to 124. Connected to LS in 2007.
S5-020321	LS on Distribution of IMS charging ID (ICID) from GGSN to SGSN	SWGB	6.2 SWGB	LS out	rev of 4037

Annex C: Participants list

ViceChairman		
TRUSS Michael	MOTOROLA Ltd	GB
PROJECT_MGR		
ZOICAS Adrian	ETSI Secretariat	FR
AHLBÄCK Hans	ERICSSON L.M.	SE
ALEXANDER Benni	NOKIA Corporation	FI
ANNIC Etienne	ORANGE FRANCE	FR
AZUMA Mitsuhiro	Fujitsu Limited	JP
BELLARE Kiran	Openwave Systems (N.I.) Ltd	GB
BENDER James	Nortel Networks	US
BERGGREN Tommy	TELIA AB	SE
BODEN Bert	Vodafone D2 GmbH	DE
BÓDOG Gyula	NOKIA Corporation	FI
BONNEAU Frédéric	NORTEL NETWORKS (EUROPE)	GB
CAROU Baptiste	ORANGE FRANCE	FR
CHANDER Sharat	AT&T Wireless Services, Inc.	US
CICCHITTO Gaetano	SIEMENS ICN S.p.A	IT
DUJARDIN Emmanuel	France Telecom	FR
HELMY Dia	NEC Technologies (UK) LTD	GB
HÜBINETTE Ulf	ERICSSON L.M.	SE
LOCK Tim	ADC	US
MA Yue	Motorola Inc.	US
MILHAM Dave	BT Group Plc	GB
MILINSKI Alexander	SIEMENS AG	DE
MOYNIHAN Marie	ERICSSON L.M.	SE
MUDGE John	VODAFONE Group Plc	GB
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
PETERSEN Robert	Ericsson Korea	KR
PIRT Trevor	MOTOROLA GmbH	DE
POLLAKOWSKI Olaf	SIEMENS AG	DE
POWER John	ERICSSON L.M.	SE
RAO Mohan	Lucent Technologies N. S. UK	GB
RAYMER David	Motorola Inc.	US
RICHTER Thomas	Cingular Wireless LLC	US
RONKA Kari	NOKIA Corporation	FI
RUTANEN Mikael	NOKIA Corporation	FI
SCHMIDT Joerg	Motorola Inc.	US
SCOTT Bancroft	OSS Nokalva	US
SHARON Ariel	Lucent Technologies	US
SIDA Samuel	ADC Telecommunications LTD	GB
SIDOR David	Nortel Networks	US
SZELAZEK Bill	Hutchison 3G UK Limited	GB
TOCHE Christian	NORTEL NETWORKS (EUROPE)	GB
TOVINGER Thomas	Nippon Ericsson K.K.	JP
TRIGLIA Alessandro	OSS Nokalva	US
TSE Edwin	Ericsson Inc.	US
VUILLIEN Audrey	NORTEL NETWORKS (EUROPE)	GB
WANG Ye	China Mobile Company Corp.	CN
WANG Zhili	China Mobile Company Corp.	CN
WIKBERG Ove	ERICSSON L.M.	SE
WILBER John	AT&T Wireless Services, Inc.	US
ZHANG Kevin	XACCT	US
ZHOU Di	SIEMENS AG	DE

Number of Attendees: 56

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 yellow are Alternative Voting Representatives; e.g. Don Giovanni.
Persons highlighted in green are non-Voting Representatives; e.g. Don Juan.

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

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	2001/12/31	03/2001 re-elected
Yuhan	Albert	n. n.	Chair	2002/01/01	2002/02/18	
Truss	Michael	MOTOROLA Ltd	Chair	2002/04/05		up to 03/2003
Truss	Michael	MOTOROLA Ltd	Vice Chair	1999/06/04		03/2001 re-elected
Thomas	Richter	Cingular Wireless LLC	Vice Chair	2002/04/05		
Toche	Christian	Nortel Networks	Vice Chair	2002/04/05		up to 03/2003
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-FM	Tovinger	Thomas	Ericsson	1999/07/22	2001/06/01	32.106-series
OAM-FM	Cicchitto	Gaetano	Siemens ICN	1999/07/22	2000/07/28	32.111-series
OAM-FM	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		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		
ITU-T SG11	Caryer	Geoffrey	BT	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

Legend: Adjacent **coloured background** means that the CRs are inter-related and need to be submitted together as a package to SA for Approval.

Spec	CR	Phase	Subject	Cat	Ver	Doc	WI
12.04	A002	R99	Correction of erroneous definitions of SGSN measurements	F	8.0.0	S5-028010	OAM-PM
52.402	001	Rel-4	Correction of erroneous definitions of SGSN measurements	A	4.0.0	S5-028009	OAM-PM
12.04	A003	R99	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	F	8.0.0	S5-028012	OAM-PM
52.402	002	Rel-4	Remove irrelevant definitions for SGSN measurements related to Ciphering Mode	A	4.0.0	S5-028011	OAM-PM
32.200	006	Rel-5	Naming of the interfaces to the Billing System	C	5.0.0	S5-024026	OAM-CH
32.215	007	Rel-5	Addition of real-time delivery of Charging Data RecordS (CDRs) to the Billing System (BS)	B	5.0.0	S5-024020	OAM-CH
32.215	008	Rel-5	Alignment of CDRs' IPv4 versus IPv6 address usage with architectural principles	F	5.0.0	S5-024024	OAM-CH
32.612	002	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	S5-026075	OAM-CM
32.613	004	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	S5-026076	OAM-CM
32.614	002	Rel-4	Correction of behaviour for IS parameter "saveFallback" of IS operation "activate"	F	4.1.0	S5-026077	OAM-CM
32.613	003	Rel-4	Add missing CORBA exceptions and descriptions of CORBA exception usage	F	4.1.0	S5-026074	OAM-CM
32.622	005	Rel-4	Remove R99-inherited restriction of self-containment for MOC SubNetwork	F	4.2.0	S5-026043	OAM-CM
32.624	007	Rel-4	Making 32.624 consistent with 32.622 and 32.623	F	4.3.0	S5-026045	OAM-CM
32.632	002	Rel-4	Align with 23.002 by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.1.0	S5-026059	OAM-CM
32.633	001	Rel-4	Align with 23.002 by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	F	4.0.0	S5-026060	OAM-CM
32.642	001	Rel-4	Correction of reference in figure 6.2 and attribute descriptions in UtranRelation of 32.642 (UTRAN network resources IRP: NRM)	F	4.0.0	S5-026064	OAM-CM
32.642	002	Rel-4	Correction of supported IRP in system context	F	4.0.0	S5-026087	OAM-CM
32.652	005	Rel-4	Correction of supported IRP in system context	F	4.2.0	S5-026088	OAM-CM
32.652	003	Rel-4	Addition of the attributes mcc and mnc in the object model of GERAN	F	4.2.0	S5-026067	OAM-CM
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	S5-026068	OAM-CM

Annex S: SA5 specifications

Type	Number	Title	Release	current version	rporteur
TS	32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	R99	3.6.0	BENDER, James
TS	32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	R99	3.9.0	LEHNERT, Matthias
TS	32.101	3G Telecom Management principles and high level requirements	R99	3.4.0	TRUSS, Michael
TS	32.101	3G Telecom Management principles and high level requirements	Rel-4	4.2.1	TRUSS, Michael
TS	32.101	3G Telecom Management principles and high level requirements	Rel-5	5.0.0	TRUSS, Michael
TS	32.102	3G Telecom Management Architecture	R99	3.2.0	BERGGREN, Tommy
TS	32.102	3G Telecom Management Architecture	Rel-4	4.2.0	BERGGREN, Tommy
TS	32.102	3G Telecom Management Architecture	Rel-5	5.0.0	BERGGREN, Tommy
TS	32.104	3G Performance Management	R99	3.5.0	NENNER, Karl-Heinz
TS	32.106-1	Telecommunication management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	R99	3.1.0	PIRT, Trevor
TS	32.106-2	Telecommunication management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	R99	3.3.0	TSE, Edwin
TS	32.106-3	Telecommunication management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	R99	3.3.0	TOVINGER, Thomas
TS	32.106-4	Telecommunication management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	R99	3.2.0	ZHOU, Di
TS	32.106-5	Telecommunication management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	R99	3.2.0	TOVINGER, Thomas
TS	32.106-6	Telecommunication management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	R99	3.3.0	ZHOU, Di
TS	32.106-7	Telecommunication management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1	R99	3.3.0	TOVINGER, Thomas
TS	32.106-8	Telecommunication management; Configuration Management; Part 8: Name convention for Managed Objects	R99	3.2.0	TOVINGER, Thomas
TS	32.108	Telecommunication management; Subscriber and equipment trace	Rel-5	0.1.0	RONKA, Kari
TS	32.108	Telecommunication management; Subscriber and equipment trace	Rel-6	none	RONKA, Kari
TS	32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	R99	3.2.0	TOVINGER, Thomas
TS	32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-4	4.0.0	TOVINGER, Thomas
TS	32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	R99	3.3.0	TOVINGER, Thomas
TS	32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-4	4.3.0	TOVINGER, Thomas
TS	32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	R99	3.6.0	TOVINGER, Thomas
TS	32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	R99	3.2.0	TOVINGER, Thomas
TS	32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.140	Services operations management; Subscription management requirements	Rel-6	1.0.0	CARYER, Geoffrey
TS	32.200	Telecommunication management; Charging management; Charging principles	Rel-4	4.1.0	AHLBACK, Hans
TS	32.200	Telecommunication management; Charging management; Charging principles	Rel-5	5.0.0	AHLBACK, Hans
TS	32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-4	4.1.1	BENDER, James
TS	32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	Rel-5	5.0.0	BENDER, James
TS	32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-4	4.2.1	LEHNERT, Matthias
TS	32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	Rel-5	5.0.0	LEHNERT, Matthias
TS	32.225	Telecommunication management; Charging management; Charging data description for the IP Multimedia Subsystem (IMS)	Rel-5	1.0.0	SHARON, Ariel
TS	32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-4	4.1.0	GOERMER, Gerald

TS	32.235	Telecommunication management; Charging management; Charging data description for application services	Rel-5	none	GOERMER, Gerald
TS	32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects	Rel-5	none	TOVINGER, Thomas
TS	32.301	Telecommunication management; Configuration Management; Notification IRP: requirements	Rel-4	4.0.1	PIRT, Trevor
TS	32.301	Telecommunication management; Configuration Management; Notification IRP: requirements	Rel-5	5.0.0	PIRT, Trevor
TS	32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-4	4.1.0	TSE, Edwin
TS	32.302	Telecommunication management; Configuration Management; Notification Integration Reference Point; Information Service version 1	Rel-5	5.0.1	TSE, Edwin
TS	32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.303	Telecommunication management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-4	4.2.0	ZHOU, Di
TS	32.304	Telecommunication management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	Rel-5	5.1.0	ZHOU, Di
TS	32.311	Telecommunication management; Generic IRP management; Requirements	Rel-4	4.0.1	TOVINGER, Thomas
TS	32.311	Telecommunication management; Generic IRP management; Requirements	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.312	Telecommunication management; Generic IRP management; Information service	Rel-4	4.0.0	TOVINGER, Thomas
TS	32.312	Telecommunication management; Generic IRP management; Information service	Rel-5	5.0.0	TOVINGER, Thomas
TS	32.321	Telecommunication management; Test management IRP; Requirements	Rel-5	none	POLLAKOWSKI, Olaf
TS	32.322	Telecommunication management; Test management IRP; Information service	Rel-5	none	POLLAKOWSKI, Olaf
TS	32.323	Telecommunication management; Test management IRP; Corba solution set	Rel-6	none	POLLAKOWSKI, Olaf
TS	32.324	Telecommunication management; Test management IRP; CMIP solution set	Rel-5	none	POLLAKOWSKI, Olaf
TS	32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-4	4.1.0	HUBINETTE, Ulf
TS	32.401	Telecommunication management; Performance Management (PM); Concept and requirements	Rel-5	5.0.0	HUBINETTE, Ulf
TS	32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-4	4.2.0	TOCHE, Christian
TS	32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	Rel-5	none	TOCHE, Christian
TS	32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	Rel-5	none	PIRT, Trevor
TS	32.601	Telecommunication management; Configuration Management; Basic CM IRP: requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.601	Telecommunication management; Configuration Management; Basic CM IRP: requirements	Rel-5	none	PIRT, Trevor
TS	32.602	Telecommunication management; Configuration Management; Basic configuration management IRP information model	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.602	Telecommunication management; Configuration Management; Basic configuration management IRP information model	Rel-5	none	TOVINGER, Thomas
TS	32.603	Telecommunication management; Configuration Management; Basic configuration management IRP: CORBA solution set	Rel-4	4.2.0	ZHOU, Di
TS	32.603	Telecommunication management; Configuration Management; Basic configuration management IRP: CORBA solution set	Rel-5	none	ZHOU, Di
TS	32.604	Telecommunication management; Configuration Management; Basic configuration management IRP CMIP solution set	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.604	Telecommunication management; Configuration Management; Basic configuration management IRP CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements	Rel-4	4.0.0	TOVINGER, Thomas
TS	32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements	Rel-5	none	TOVINGER, Thomas
TS	32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service	Rel-5	none	TOVINGER, Thomas
TS	32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set	Rel-5	none	TOVINGER, Thomas
TS	32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set	Rel-4	4.1.0	TOVINGER, Thomas

TS	32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition	Rel-5	none	TOVINGER, Thomas
TS	32.621	Telecommunication management; Configuration Management; Generic network resources IRP: requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.621	Telecommunication management; Configuration Management; Generic network resources IRP: requirements	Rel-5	none	PIRT, Trevor
TS	32.622	Telecommunication management; Configuration Management; Generic network resources IRP: NRM	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.622	Telecommunication management; Configuration Management; Generic network resources IRP: NRM	Rel-5	none	TOVINGER, Thomas
TS	32.623	Telecommunication management; Configuration Management; Generic network resources IRP: CORBA solution set	Rel-4	4.2.0	ZHOU, Di
TS	32.623	Telecommunication management; Configuration Management; Generic network resources IRP: CORBA solution set	Rel-5	none	ZHOU, Di
TS	32.624	Telecommunication management; Configuration Management; Generic network resources: IRP CMIP solution set	Rel-4	4.3.0	TOVINGER, Thomas
TS	32.624	Telecommunication management; Configuration Management; Generic network resources: IRP CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.625	Telecommunication management; 3G Configuration Management; Generic network resources IRP: Bulk CM XML file format definition	Rel-5	none	BONNEAU, Frédéric
TS	32.631	Telecommunication management; Configuration Management; Core network resources IRP: requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.631	Telecommunication management; Configuration Management; Core network resources IRP: requirements	Rel-5	none	PIRT, Trevor
TS	32.632	Telecommunication management; Configuration Management; Core Network Resources IRP: NRM	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.632	Telecommunication management; Configuration Management; Core Network Resources IRP: NRM	Rel-5	none	TOVINGER, Thomas
TS	32.633	Telecommunication management; Configuration Management; Core network resources IRP: CORBA solution set	Rel-4	4.0.0	ZHOU, Di
TS	32.633	Telecommunication management; Configuration Management; Core network resources IRP: CORBA solution set	Rel-5	none	ZHOU, Di
TS	32.634	Telecommunication management; Configuration Management; Core network resources IRP: CMIP solution set	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.634	Telecommunication management; Configuration Management; Core network resources IRP: CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.635	Telecommunication management; Configuration Management; 3G Configuration Management; Generic network resources IRP: Bulk CM XML file format definition	Rel-5	none	BONNEAU, Frédéric
TS	32.641	Telecommunication management; Configuration Management; UTRAN network resources IRP: requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.641	Telecommunication management; Configuration Management; UTRAN network resources IRP: requirements	Rel-5	none	PIRT, Trevor
TS	32.642	Telecommunication management; Configuration Management; UTRAN network resources IRP: NRM	Rel-4	4.0.0	TOVINGER, Thomas
TS	32.642	Telecommunication management; Configuration Management; UTRAN network resources IRP: NRM	Rel-5	none	TOVINGER, Thomas
TS	32.643	Telecommunication management; Configuration Management; UTRAN network resources IRP: CORBA solution set	Rel-4	4.1.0	ZHOU, Di
TS	32.643	Telecommunication management; Configuration Management; UTRAN network resources IRP: CORBA solution set	Rel-5	none	ZHOU, Di
TS	32.644	Telecommunication management; Configuration Management; UTRAN network resources IRP: CMIP solution set	Rel-4	4.1.0	TOVINGER, Thomas
TS	32.644	Telecommunication management; Configuration Management; UTRAN network resources IRP: CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.645	Telecommunication management; 3G Configuration Management; UTRAN network resources IRP: Bulk CM XML file format definition	Rel-5	none	BONNEAU, Frédéric
TS	32.651	Telecommunication management; Configuration Management; GERAN network resources IRP: requirements	Rel-4	4.0.0	PIRT, Trevor
TS	32.651	Telecommunication management; Configuration Management; GERAN network resources IRP: requirements	Rel-5	none	PIRT, Trevor
TS	32.652	Telecommunication management; Configuration Management; GERAN network resources IRP: NRM	Rel-4	4.2.0	TOVINGER, Thomas
TS	32.652	Telecommunication management; Configuration Management; GERAN network resources IRP: NRM	Rel-5	none	TOVINGER, Thomas
TS	32.653	Telecommunication management; Configuration Management; GERAN network resources IRP: CORBA solution set	Rel-4	4.1.0	ZHOU, Di
TS	32.653	Telecommunication management; Configuration Management; GERAN network resources IRP: CORBA solution set	Rel-5	none	ZHOU, Di
TS	32.654	Telecommunication management; Configuration Management; GERAN network resources IRP: CMIP solution set	Rel-4	4.1.0	TOVINGER, Thomas

TS	32.654	Telecommunication management; Configuration Management; GERAN network resources IRP: CMIP solution set	Rel-5	none	TOVINGER, Thomas
TS	32.655	Telecommunication management; 3G Configuration Management; GERAN network resources IRP: Bulk CM XML file format definition	Rel-5	none	BONNEAU, Frédéric
TS	32.661	Telecommunication management; 3G configuration management; Kernel CM requirements	Rel-5	1.0.0	WILBER, John
TS	32.662	Telecommunication management; 3G configuration management; Kernel CM information service	Rel-5	1.0.0	WILBER, John
TS	32.663	Telecommunication management; 3G configuration management; Kernel CM CORBA solution set	Rel-6	none	WILBER, John
TS	32.664	Telecommunication management; 3G configuration management; Kernel CM CMIP solution set	Rel-6	none	WILBER, John
TS	32.671	Telecommunication management; 3G Configuration Management; State Management IRP: Requirements	Rel-5	0.1.2	ZHOU, Di
TS	32.672	Telecommunication management; 3G Configuration Management; State Management IRP: Information service	Rel-5	0.1.1	ZHOU, Di
TS	32.673	Telecommunication management; 3G Configuration Management; State Management IRP: CORBA Solution set	Rel-5	none	ZHOU, Di
TS	32.674	Telecommunication management; 3G Configuration Management; State Management IRP: CMIP Solution set	Rel-5	0.1.0	ZHOU, Di
TR	32.800	Management level procedures and interaction with UTRAN	Rel-4	4.0.0	BODEN, Bert
TR	32.800	Management level procedures and interaction with UTRAN	Rel-5	5.0.0	BODEN, Bert
TR	32.802	Telecommunication management; User Equipment (UE) management feasibility study	Rel-5	1.0.4	MUDGE, John
TS	52.402	Telecommunication management; Performance Management (PM); Performance measurements- GSM	Rel-4	4.0.0	TOCHE, Christian
TS	52.402	Telecommunication management; Performance Management (PM); Performance measurements- GSM	Rel-5	none	TOCHE, Christian

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.a 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.b SWGB & SWGD - Telecom Management data definition & Charging Management

[S5B010629 Terms of Reference.zip](#)

Terms of Reference (Need now after Cork SA5#27 to be split into ToRs fro SWG & SWGD respectively):

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
- ?? bulk interfaces for data transfer from the network to post-processing systems in the network management or business management layers
- ?? usage of / requirements towards SA5 generic bulk interfaces specified another SA5 SWG
- ?? details on the application of IRPs specified by SA5 SWGC

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
- ?? network/resource usage records for the purpose of network performance observation
- ?? network/resource usage records for the purpose of tracing subscriber and UE activity.

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.c 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 3G TS 32.101.

Annex W: SA5 Work Items & Work Plan

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)
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

Work Item Type: Feature	Work Item ID	Specifications	Work Item Description
Subscription Management	SuM	32.140	SP-000524 (S5-000568)
User Equipment Management - Feasibility Study	UEM	32.802	SP-010286 (S5-010463)
Trace Management	TraceMg	32.108	SP-010758

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_WG5: TSG SA5 Telecoms Management (385 subscribers)

3GPP TSG_SA_WG5_SWGA

3GPP_TSG_SA_WG5_SWGA : Architecture & Requirements (277 subscribers)

3GPP TSG_SA_WG5_SWGB

3GPP_TSG_SA_WG5_SWGB : Charging (274 subscribers)

3GPP TSG_SA_WG5_SWGC

3GPP_TSG_SA_WG5_SWGC : Telecom Network Infrastructure (260 subscribers)

3GPP TSG_SA_WG5_SWGD

3GPP_TSG_SA_WG5_SWGD : Performance & Trace Management (270 subscribers)

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 way 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 Server 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 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	S5-020000 - S5-021999	S5-030000 - S5-031999	S5-040000 - S5-041999	S5-050000 - S5-059999
SWGA	S5-022000 - S5-023999	S5-032000 - S5-033999	S5-042000 - S5-043999	S5-050000 - S5-059999
SWGB	S5-024000 - S5-025999	S5-034000 - S5-035999	S5-044000 - S5-045999	S5-050000 - S5-059999
SWGC	S5-026000 - S5-027999	S5-036000 - S5-037999	S5-046000 - S5-047999	S5-050000 - S5-059999
SWGD	S5-028000 - S5-029999	S5-038000 - S5-039999	S5-048000 - S5-049999	S5-050000 - S5-059999

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 registered 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	30 Apr 2002	<p>S5-020307: DRAFT Report submitted to SA5 for comment and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_27/Report/ and http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Docs/</p>
Ver. 2.0.0	06 May 2002	<p>S5-020317: Revised DRAFT Report submitted to SA5 for approval and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_27/Report/ and http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_28/Docs/</p>
Ver. 3.0.0	24 May 2002	<p>S5-020300: Approved Report at SA5#28 and posted at: http://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_27/Report/</p>