

Title: Report of the 3GPP SA WG5 (Telecom Management) meeting #16
hosted by NTT DoCoMo, Tokyo, JAPAN, 27 November – 1 December 2000

Source: Secretary: Adrian.ZOICAS@etsi.fr (3GPP Mobile Competence Centre)

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Chairman: Albert YUHAN (VoiceStream Wireless)
Vice-Chairman: Michael TRUSS (Motorola)
Secretary: Adrian.ZOICAS@etsi.fr (3GPP Mobile Competence Centre)
Host: NTT DoCoMo

1 Call to order

Albert H. YUHAN (VoiceStream Wireless), SA5 chairman, called the meeting to order at 14:00 hrs local time on Tuesday 28 November 2000. The Rapporteur Group (RG) meetings commenced on Monday 27 November 2000. The chairman thanked NTT DoCoMo for hosting the meeting.

On behalf of the host, Yutaka TAKEUCHI warmly welcomed the delegates to Tokyo, JAPAN. The SA5 delegates were cordially invited on Wednesday evening to a social event sponsored by NTT DoCoMo and NEC.

2 Participant registration

49 delegates attended the meeting. The list of participants can be found in Annex A. The updated list of registered SA5 delegates, maintained by the Chairman, which records the Voting right status of the SA5 member companies and their delegates, can be found at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Docs/S5MemLst1.zip

2.1 IPR (Intellectual Property Rights) declarations

The Chairman 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 Chairman 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/PCG/IPR_declarations.htm

3 Agenda approval

The draft agenda proposed by the Chairman was approved without modification and can be found in annex B of this report.

4 Document registration and attribution

New documents were registered. More discipline was 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 C of this report.

NOTE: Document S5DocLst.doc contains the Year 2000 Document List, which is continuously updated. The latest version can be found at ftp://ftp.3gpp.org/TSG_SA/WG5_TM/S5DocLst.zip

5 Meetings and activities reports

5.1 Last SA5 meeting report

S5-000501	DRAFT Report of the 3GPP SA WG5 (Telecom Management) meeting #15 hosted by 3GPP North American friends in Girdwood, Alaska, USA, 16 - 20 October 2000	SA5 Secretary (Adrian ZOICAS)
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Document S5-000501, containing the draft report of the SA5#15 meeting, was approved without change. The approved report is contained in S5-000555, which can be found also at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_15/Report/

S5-000555	DRAFT Report of the 3GPP SA WG5 (Telecom Management) meeting #15 hosted by 3GPP North American friends in Girdwood, Alaska, USA, 16 - 20 October 2000	SA5
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5.2 TSG-SA and PCG/OP meetings reports

There was no TSG SA meeting since the last SA5 meeting in Girdwood, Alaska, USA.

5.3 Liaison Rapporteurs' reports

Very short verbal reports were given by:

- John MUDGE (on RAN3);
 - Corrections made to R99 specifications.
 - Resignation of RAN3 Chair;
 - VC message size length (2 proposal for further investigation);
 - IPv4/6 discussions started.

On the questions whether or not SA5's draft UTRAN O&M technical report (32.800) was known in RAN3, Jean François MAUDOUX (France Telecom) informed that a Work Task existed in the in the AR/PR Building Block for a "consistency check with RAN 3 NMAP".

- Michael TRUSS (on TMF);
 - Motorola's Presentation for TMF was made at TeleManagement World Chicago, 16 Nov 2000 (S5-000509).
 - The next TMF meeting will take place in Paris in parallel with SA5#18 hosted by Nortel Networks in Paris from 26 Feb – 2 Mar 2001. Common TMF/SA5 sessions are envisaged.
- Albert YUHAN (on SA1, GSMA on SM/UEM)
 - Informed on SA1 Orlando meeting (Subscription Management, Terminal Software Update) (S5-000505);
 - Informed on LS from GSMA to SA#9 (09/00) on Standardisation of Service Operation Management (S5-000506);
- Albert YUHAN (on T1M1)
 - T1M1 meeting attended as SA5 representative.
 - Informed that T1M1 got the mandate to approve the 3GPP TMN standards in North America (S5-000566);
 - Work ongoing on TML, Telecom version of XML.
- Jörg SCHMIDT from Motorola (on 3GPP2).
 - Informed that Dec 00 was the target date to finish R99 of 3GPP2's O&M specifications;

5.4 Other reports

There were no other reports, either written or verbal.

6 Discussions and decisions on inter-organisational issues

6.1 Use of CORBA in the TMN by ITU-T SG4, T1M1 and 3GPP

S5-000518	ITU-T SG 4 issues (WP 3/4 TMN wireless work, WP 4/4 TMN CORBA framework)	SG 4 Chairman (Dave SIDOR, Nortel Networks), SA5 Chairman (Albert H. YUHAN, VoiceStream Wireless)
S5-000566	Committee T1 (T1P1 / T1M1) issues	SA5 Chairman

SA5 **noted** the two contributions.

The SA5 Chairman **informed** that the T1M1 plenary gave the T1M1 Chairman the mandate to negotiate with T1 leadership and T1P1 Chairman to obtain the mandate of channeling 3GPP's 32-series specifications through them; i.e. to approve the 3GPP TMN standards in North America (S5-000566). This means that the 3GPP 32-series should go through the T1M1 approval process (i.e. to review technically and possibly modify the 3GPP approved specifications). This is against the 3GPP principle and the T1 leadership will deal with the matter.

The SA5 Chairman **asked** for support from the SA5 participants for drafting a contribution to the ITU-T SG4 (to present the view / needs of the wireless industry and attaching the 3GPP specifications) in parallel with contributions from e.g. Ericsson/Nokia.

CM/FM were **asked** to review the idea in S5-000518 and to generate an output for consideration in the closing plenary.

6.2 T2 (MExE) on UE / Terminal Management

S5-000503	LS from T2 to SA5 on MExE and User Equipment Management	T2 (MExE)
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SA5 **approved** a reply to the LS from T2 (MExE), which was meeting during the same week in Yokohama.

S5-000567	Reply LS from SA5 to T2 on MExE and User Equipment Management	SA5
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6.3 Co-ordination of GERAN-specific O&M specification

S5-000504	Reply LS from GERAN#2 Plenary to SA5 (cc: RAN3) on co-ordination of GERAN-specific O&M specification	GERAN
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SA5 **noted** the LS.

6.4 TMF

S5-000509	TMF Presentation of the CCM Project held at TMW Chicago Nov 14-16	Motorola (Michael TRUSS)
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SA5 **noted** this presentation and the fact that the next TMF meeting will take place in Paris in parallel with SA5#18 hosted by Nortel Networks in Paris from 26 Feb – 2 Mar 2001. Common TMF/SA5 sessions are envisaged.

6.5 Multimedia Messaging Service (MMS) and billing

S5-000565	LS from T2 to SA5, GSM Association BARG, IREG (cc: SERG) on Multimedia Messaging Service (MMS) and billing	T2 (Sofi.A.Persson@telia.se)
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SA5 received during the meeting and **approved** a preliminary reply to the LS from T2 (MMS and billing), which was meeting during the same week in Yokohama.

S5-000532	Reply LS from SA5 to T2 (cc: GSM Association SERG, BARG, IREG) on MMS and billing	CH
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7 Discussions and decisions on administration issues

7.1 Work plan

7.1.1 3GPP's Work Plan reporting at TSGs meetings

The Secretary presented a template for a PowerPoint slide, which **shall be used** for reporting on each Release 4/5 Feature contained in the Work Plan to each and every TSGs meetings (CN, RAN, SA, T) in:

S5-000507	Work Plan Report at TSG-xx#10 Meeting	MCC
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Currently SA5 has three (3) Feature-level Work Items:

SA5 Feature	Rapporteur
Charging and OAM&P (Rel4/5)	Albert YUHAN (VoiceStream Wireless), Michael TRUSS (Motorola)
Subscription Management (Rel5)	Geoffrey CARYER (BT)
UTRAN Operations and Maintenance procedures (Rel4)	Bert BODEN (Mannesmann Mobilfunk)

The respective Rapporteurs **shall provide** updates for SA5 approval at the SA5 plenary meetings taking place just before the TSGs meetings.

The result to be submitted to the TSGs#10 meetings can be found in:

S5-000525	Work Plan Report at TSG-xx#10 Meeting	AR/PR
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7.1.2 SA5's Work Plan overview

The Secretary presented an overview of the latest situation of SA5's Work Plan for Release 4/5 in:

S5-000502	SA5 Work Plan & Work Item Descriptions for Release R4/R5 - update	SA5 Secretary
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The Secretary implemented the changes **approved** by the SA5 closing plenary after the meeting in [SP-000524](#), which also includes all SA5's WIDs submitted to SA#10 for approval.

SA5 **shall review and update** at each and every plenary this overview ([SP-000524](#)), the individual WIDs ([S5-000568](#) to [576](#)) and the MS Project file containing the 3GPP Work Plan for Release 4/5.

Every change **shall be submitted** by SA5 to the next TSG SA meeting for approval.

7.1.3 SA5's Work Item Descriptions

The Secretary presented the latest situation of SA5's Work Item Descriptions for Release 4/5 in:

S5-000510	Charging and OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000570
S5-000511	Principles, high level Requirements and Architecture (Building Block: OAM-AR) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000522
S5-000512	Configuration Management (Building Block: OAM-CM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000572
S5-000513	Fault Management (Building Block: OAM-FM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000554
S5-000514	Performance Management (Building Block: OAM-PM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000561
S5-000515	UTRAN Operations and Maintenance procedures (Feature: UOAM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000523
S5-000516	Charging Management (Building Block: OAM-CH) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000526/7
S5-000517	Subscription Management (Feature: SM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000521

The RGs reviewed and updated their WIDs in:

S5-000521	AR 9.1	Revised Subscription Management work item proposal	AR/PR	Revised - see S5-000568
S5-000522	AR 9.1	Revised AR-PR work item proposal	AR/PR	Revised - see S5-000571
S5-000523	AR 9.1	Revised UTRAN O&M Procedures work item proposal	AR/PR	Revised - see S5-000569
S5-000526	CH 9.2	Revised CH-1 work item proposal	CH	Replaces S5-000516
S5-000527	CH 9.2	Revised CH-2 work item proposal	CH	Replaces S5-000516
S5-000554	FM 9.4	Revised FM work item proposal	FM	Revised - see S5-000573
S5-000561	PM 9.5	Revised PM work item proposal	PM	Revised - see S5-000574

The Secretary implemented after the meeting the changes **approved** by the SA5 closing plenary in:

S5-000568	Subscription Management (Feature: SM)	SA5	Replaces S5-000521.
S5-000569	UTRAN Operations and Maintenance procedures (Feature: UOAM)	SA5	Replaces S5-000523.
S5-000570	Charging and OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM)	SA5	Replaces S5-000510.
S5-000571	Principles, high level Requirements and Architecture (Building Block: OAM-AR)	SA5	Replaces S5-000522.
S5-000572	Configuration Management (Building Block: OAM-CM)	SA5	Replaces S5-000512.
S5-000573	Fault Management (Building Block: OAM-FM)	SA5	Replaces S5-000554.
S5-000574	Performance Management (Building Block: OAM-PM)	SA5	Replaces S5-000561.
S5-000575	Charging Management (Building Block: OAM-CH)	SA5	Replaces S5-000526.
S5-000576	Charging Management for all-IP UMTS networks (Building Block: OAM-CH-IP)	SA5	Replaces S5-000527.

The above WIDs were submitted altogether to SA#10 for approval in **SP-000524**.

SA5 **shall review and update** at each and every plenary **SP-000524**, the individual WIDs (**S5-000568** to **576**) and the MS Project file containing the 3GPP Work Plan for Release 4/5.

Every change **shall be submitted** by SA5 to the next TSG SA meeting for approval.

7.2 3GPP documentation process

The Secretary **invited** the SA5 members to carefully study and monitor the progress of the following documents, which were presented in detail at SA5#15 in Alaska, plus TR 21.905 Vocabulary for 3GPP Specifications (Release 4).

S5-000438	3GPP TR 21.900 V3.4.0 (2000-09): 3GPP Working Methods (R99)	MCC
S5-000448	3GPP TR 21.801 V4.0.0 (2000-06) 3GPP Specification drafting rules (Release 2000)	MCC
S5-000447	3GPP TS 21.102 V1.0.0 (2000-06) 3GPP Release 2000 Specifications	MCC

7.3 Other administrative issues

SA5 **considered** at SA5#15 in Alaska whether or not to create a new RG on any Service Management issue (Subscription Management / SOM). The decision was deferred to this meeting (SA5#16 in Tokyo), which **decided** to maintain the status quo.

SA5 **decided** at SA5#15 in Alaska that:

- Reports from RGs to the SA5 closing plenary (at least an executive summary of 1-2 pages containing issues for decision by the SA5 plenary) should be provided to the SA5 Secretary on Thursday by COB (05.00 p.m.) at the latest.
- RG meeting report (detailed minutes) – if not already provided at the closing SA5 plenary - should be made available within one (1) week of the meeting close date.
- The SA5 closing plenary should start on the last day, i.e. Friday, morning at 08.00 a.m. sharp.
- Social events on Thursday evening, before the SA5 closing plenary, should be avoided.
- SA5 management team (Chair, Vice-Chair, Rapporteurs, Secretary) meetings should be held at least once during the SA5 plenary meetings as early as possible during the respective week (e.g. on Monday at 6 p.m. sharp).
- The RGs and the SA5 plenary should regularly review the Work Plan & the WID at each and every SA5 plenary.

The SA5 **re-endorsed** at SA5#15 in Alaska the already **agreed** SA5 Working Procedures in **S5-99112**, which are reproduced below for reference:

1. Any document that is to be presented at the next meeting for information or review must be made available via the SA5 e-mail five (5) working days before the meeting.
2. Baseline documents, which have changes agreed during a meeting, are to be updated by the Rapporteur with revision bars and made available via the SA5 e-mail list within two (2) weeks of the meeting close date.
3. New contributions for existing baseline documents should not contain any previous revision bars.
4. Meeting Reports are to be made available via the SA5 e-mail list within two (2) weeks of the meeting close date.
5. If a document is provisionally agreed during a meeting and approval is required before the next meeting, the document Rapporteur should:
 - Make the necessary updates to reflect the agreement.
 - Make the document available via the SA5 e-mail list.
 - Allow a five-day review period before requesting final approval via an e-mail poll.
6. All documents for a meeting complying to rules 1 & 2 above are to be made available on a local server by the meeting host.
7. Documents are to be made available to the meeting host on floppy disk in sufficient time to guarantee availability on the local server prior to meeting start time. This is the responsibility of the document presenter.
8. Any new documents (including amendments to already distributed documents), which have been agreed and made available at the meeting, will be made available via the SA5 e-mail list within 2 weeks of the meeting close date. This is the responsibility of the SA5 Chair.

Notes:

1. *Documents submitted to SA5 not complying to rules 1&2 above will not be guaranteed discussion at the next meeting except at the Chairman's discretion.*
2. *If documents do not comply to rule 1 above and hard copies of the document are required at the meeting the responsibility for providing hard copies will lie with the document presenter.*
3. *Documents submitted to SA5 not complying to rule 1 above, but which are discussed and agreed at the meeting cannot be finally agreed except by following rule 5 (provisional agreements).*

7.3.1 Voting in 3GPP

A couple of SA5 member companies expressed surprise and concern that several companies had multiple memberships of 3GPP, and hence potentially the right to exercise multiple votes.

They observed that in other standards groups that where a company is majority owned by another member it is prohibited from voting in order to comply with competition laws in the US and the EU.

The SA5 members expressing these views had **been advised** to address this matter at the right level in the 3GPP, i.e. in the PCG.

8 Cross-work item technical discussions

8.1 Finalization of SA5's Release 99

The Chairman pointed out that SA5's Release 99 specifications set **shall be finalized** by the end of the present meeting.

Any specification not having achieved v3.0.0 at SA#10 **shall be either moved** to Release 4/5 **or stopped**.

The Secretary informed that four (4) SA5 Release 99 specifications were falling under this category as follows:

Type	Number	Title	current vers	Rapporteur
TS	32.105	3G Charging and Accounting Stage 2 description – to be withdrawn from R99 and moved to Releases 4/5	0.0.4	KOBYLARZ, Thaddeus
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1	2.0.0	TOVINGER, Thomas
TS	32.106-6	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	1.0.0	TOVINGER, Thomas
TS	32.106-7	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP Solution Set Version 1:1	1.0.0	ZHOU, Di

Thomas TOVINGER (CM Rapporteur) reported that all pending issues on 32.106 Part 5 were solved and good progress was made on parts 6, 7. CM was confident that all the three remaining parts of the 32.106-family (8 parts) could go to SA#10 for approval.

8.2 OID definition and registration

History:

SA5 agreed at SA5#15 in Alaska that a common way to define the Object Identifiers (OID) of all the objects defined, for the CMIP Solution Sets was necessary within SA5. This involves all the 32-series of 3GPP TSs containing GDMO/ASN1 object definitions. It was noted that this was only relevant for CMIP and not for CORBA SS.

An open question at SA5#15 in Alaska was whether or not to put these OIDs under the GSM-tree. SA may need to recommend a solution agreeable to all the SDOs in the 3GPP.

Gaetano CICCHITTO has lead an ad-hoc activity in order to address the CMIP OID with the objective to identify the open issues & to propose a solution to SA5#16 (for R99) and 1Q2001 (for Release R4/5).

S5-000508	OID definition and registration (updated version)	Siemens (Gaetano CICCHITTO)
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Recommendation:

GSM & UMTS OIDs are in the same node (see point 9 of S5-000508):

All the OID definitions had been placed in the ASN1 of TS 32.111-4. Some definitions are common to other FM/CM-generated 32- series specifications and shall be replicated in all of them.

Conclusion:

Gaetano CICCHITTO was asked to create Release 99 CRs for all IRP CMIP SS (32.111-4, 32.106-4); i.e. for all FM/CM TSs containing GDMO or ASN1 definitions.

Karl-Heinz NENNER (PM Rapporteur) pointed out that this was not needed in PM OID.

SA5 decided to close this ad-hoc activity.

9 Work item Rapporteur Group reports and actions

9.1 S5.AR/PR (32.101, 32.102, 32.140, 32.800)

Rapporteur: Michael TRUSS (MOTOROLA)

S5-000520	AR-PR Rapporteur Report for SA5 #16, Tokyo	AR/PR
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SA5 noted the above report. The following Work Item Descriptions (WIDs) were approved together with some changes. The Secretary implemented after the meeting the changes approved by the SA5 closing plenary in:

S5-000568	Subscription Management (Feature: SM)	SA5
S5-000569	UTRAN Operations and Maintenance procedures (Feature: UOAM)	SA5
S5-000570	Charging and OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM)	SA5
S5-000571	Principles, high level Requirements and Architecture (Building Block: OAM-AR)	SA5

The above WIDs were submitted together with the other RGs' WIDs to SA#10 for approval in [SP-000524](#).

There were no contributions on User Equipment Management at this meeting. No company has said they are yet willing to lead this activity or draft a work item proposal. SA5 **postponed** the agreement of a new WID on UEM until results from 3GPP-external bodies (TMF, TRUST Project, etc.) will mature. SA5 will **monitor** these outside activities.

SA5 **approved** the following outgoing Liaison Statement(s):

S5-000567	Reply LS from SA5 to T2 on MExE and User Equipment Management	SA5	Replaces S5-000519. Dispatched 28 Nov 00
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SA5 **agreed** for submission to SA#10 for approval the following R99 CR(s):

S5-000524	32.101 CR: Update CORBA References to allow both CORBA Version 2.1 and CORBA Version 2.3	AR/PR
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9.1.1 UMTS TMN Conformance

Tommy BERGGREN (Telia) submitted to S5.AR/PR an e-mail discussion document based on its contribution at SA5#15 on the subject of UMTS TMN Conformance taken from ITU-T Recommendation M.3010-2000. It proposes to introduce a new clause in 32.102 covering fundamental requirements to increase the probability that different implementations within or between UMTS TMNs will be able to inter-work. Following discussions S5.AR/PR reached the following agreement:

1. To introduce a clause on UMTS TMN Conformance into 32.102 Release 4. Telia should draft a Release 4 version of 32.102 with this content (completion target: March 2001).
2. The ETSI Bake-off Service (an interoperability testing service) was discussed and BT agreed to bring a contribution to SA5 for information on this service.
3. All concerned SA5 RGs working on IRP Solution Sets are asked to consider producing Conformance guidelines for their Solution Sets.

SA5 **agreed** this course of action and **noted** that a CR rather than an entire revised 32.102 was needed for the creation of a Release 4 version.

9.1.2 OAM&P requirements in the IM CN Subsystem

Based on a liaison response to S1 from S5#15, S5.AR/PR undertook to make a study of 22.101 (Service Principles Releases 4 and 5) to begin examining any OAM&P requirements of the IM CN Subsystem.

Initial comments suggest that management of QoS will be one of the main requirements of IP Multimedia, from an OAM&P perspective. S5.AR/PR agreed that the real-time management of QoS was not within its scope but QoS Policy Management was. S5.AR/PR agreed to undertake a study of this area and to initially gather information on Policy Management in general and in particular as specified by IETF (RFC 2753) for SA5#17.

9.2 S5.CH Charging (32.005, 32.015, 32.105)

Rapporteur: Thaddeus KOBYLARZ (AT&T Wireless Services)

S5-000538	Charging Group Report	CH Rapporteur (Thaddeus KOBYLARZ)	Noted.
S5-000539	Revised Charging Group Report	CH Rapporteur (Thaddeus KOBYLARZ)	Dispatched 7 Dec 00

SA5 **noted** the above report, which was revised and dispatched after the meeting as [S5-000539](#). The following Work Item Descriptions (WIDs) were **approved** together with some changes. The Secretary implemented after the meeting the changes **approved** by the SA5 closing plenary in:

S5-000575	Charging Management (Building Block: OAM-CH)	SA5
S5-000576	Charging Management for all-IP UMTS networks (Building Block: OAM-CH-IP)	SA5

The above WIDs were submitted together with the other RGs' WIDs to SA#10 for approval in [SP-000524](#).

T2 requested in an LS (S5-000565) that charging functionality be defined for the new Multi-Media Short message service (MMS). SA5 **approved** the liaison reply indicating that the request is perfectly suitable for SA5's Release 4/5 work plan:

S5-000532	Reply LS from SA5 to T2 (cc: GSM Association SERG, BARG, IREG) on MMS and billing	CH
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SA5 **agreed** for submission to SA#10 for approval the following R99 CR(s):

S5-000528	32.015 CR: Ambiguities in Packet Transfer Command IE & Data Record Packet IE	CH
S5-000529	32.015 CR: Inconsistency of Charging Characteristic size	CH
S5-000530	32.015 CR: Alignment of ASN.1 for QoS attributes	CH
S5-000531	32.015 CR: Correction of parameter CallEventRecord	CH
S5-000533	32.015 CR: Correction of parameter Location Area and Cell	CH
S5-000534	32.015 CR: Correction of ASN.1 errors	CH
S5-000535	32.005 CR: Support 3G CS by adding "system type" parameter to CDRs (same as in 3G PS)	CH
S5-000536	32.005 CR: Correction of parameter Location Area and Cell	CH
S5-000537	32.005 CR: Correction of parameter CallEventRecord	CH

Concern was expressed by S5.CH that much work needed to be deferred to the next meeting. SA5 **recommended** that S5.CH could use e-mail discussions for progressing the works but decisions should be made during the S5.CH RG sessions or during ad-hoc meetings (approved by SA5).

SA5 **decided** that the Charging Group will have a few additional quarters from Thursday 18 January (starting 14.00) until Saturday 20 January afternoon at the same location as the SA5#17 meeting to be held in Sophia-Antipolis, which was consequently extended from 18 - 26 January 2001.

9.3 S5.CM Configuration Management (32.106-x)

Rapporteur: Thomas TOVINGER (Ericsson)

S5-000540	Report of CM (32.106) RG Session	CM Rapporteur (Thomas TOVINGER)
S5-000541	Report from CM (32.106) ad-hoc meeting SA5#15bis, Orlando, Florida/USA, 7-9 Nov 2000	CM Rapporteur (Thomas TOVINGER)

SA5 **noted** the above reports. The following Work Item Description (WID) was **approved** together with some changes. The Secretary implemented after the meeting the changes **approved** by the SA5 closing plenary in:

S5-000572	Configuration Management (Building Block: OAM-CM)	SA5
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The above WID was submitted together with the other RGs' WIDs to SA#10 for approval in [SP-000524](#).

SA5 **agreed** for submission to SA#10 for approval the following R99 CRs (including the ones from the last meeting) as follows:

S5-000484	32.106-2 CR: Ensure consistency of description of event types and extended event types	CM
S5-000482	32.106-3 CR: Correct IDL Errors	CM
S5-000483	32.106-3 CR: Identified Spelling Errors	CM
S5-000485	32.106-3 CR: Ensure consistency of text with IDL exception	CM
S5-000486	32.106-3 CR: Add pragma statement to Notification IRP IDL	CM

S5-000542	32.106-2 CR: Correction of parameter inconsistency in operation unsubscribe	CM
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SA5 **decided** that 32.106 Parts 5, 6 and 7 shall be submitted to SA#10 for approval and placement under change control:

S5-000543	32.106-5 (v1.1.0) Draft 4: Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1 (Release 1999)	CM	Agreed to go as v2.0.0 to SA for approval.
S5-000544	32.106-6 (v0.4.0) Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	CM	To be updated by Rapp post meeting – implement agreements. Agreed to go as v1.0.0 to SA for approval.
S5-000545	32.106-7 (v0.4.0) Configuration Management; Part 7: Basic Configuration Management IRP CMIP Solution Set Version 1:1	CM	Agreed to go as v1.0.0 to SA for approval.

9.4 S5.FM Fault Management (32.111-x)

Rapporteur: JURÉ Patrick (Lucent Technologies)

S5-000550	Report from FM (32.111) Ad-hoc meeting SA5#15bis, Orlando, Florida, USA, 7-9 Nov. 2000	FM Rapporteur (Patrick JURÉ)
S5-000552	SA5#16 FM meeting report	FM Rapporteur (Patrick JURÉ)

SA5 **noted** the above reports. The following Work Item Description (WID) was **approved** together with some changes. The Secretary implemented after the meeting the changes **approved** by the SA5 closing plenary in:

S5-000573	Fault Management (Building Block: OAM-FM)	SA5
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The above WID was submitted together with the other RGs' WIDs to SA#10 for approval in [SP-000524](#).

SA5 **agreed** for submission to SA#10 for approval the following R99 CRs (including the ones from the last meeting) as follows:

S5-000469	32.111-2 CR: AlarmId is indicated as changeable but it shall not be possible to change AlarmId	FM-withdrawn
S5-000470	32.111-2 CR: The IRPAgent shall use notifyClearedAlarm to notify the IRPManager about cleared alarms, notifyChangedAlarm shall not be used	FM-withdrawn
S5-000471	32.111-3 CR: Update TS 32.111-3 Iterator	FM
S5-000472	32.111-3 CR: Allow Structured Event Filterable Body Fields to be absent if parameters are not used	FM
S5-000473	32.111-2 CR: Clarify use of event types and extended event types within notifications	FM

S5-000551	32.111-2 CR: Incorrect modifiable attributes	FM
S5-000553	32.111-2 CR: Add acknowledgement information to getAlarmList result	FM
S5-000556	32.111-2 CR: A cleared Alarm shall be given perceived severity "Cleared" and nothing else	FM
S5-000557	32.111-2 CR: Inconsistent behaviour for cleared not yet acknowledged alarms	FM
S5-000558	32.111-3 CR: Inconsistent qualifiers	FM

S5-000559	Editorial changes of the 32.111-3: Instructions to MCC on Editorial correction of the Alarm IRP CORBA solution set	Noted
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9.5 S5.PM Performance Management (32.104)

Rapporteur: Karl-Heinz NENNER (T-Mobil)

S5-000560	Performance Management (32.104) Rapporteur Session Report	PM Rapporteur (Karl-Heinz NENNER)
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SA5 **noted** the above reports. The following Work Item Description (WID) was **approved** together with some changes. The Secretary implemented after the meeting the changes **approved** by the SA5 closing plenary in:

S5-000574	Performance Management (Building Block: OAM-PM)	SA5
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The above WID was submitted together with the other RGs' WIDs to SA#10 for approval in [SP-000524](#).

SA5 **agreed** for submission to SA#10 for approval the following R99 CR from the last meeting as follows:

S5-000479	Draft 32.104 CR: Clarification of measurement definition template	PM
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9.5.1 Call drop Performance Measurements (RAN2 liaison)

S5.PM asked RAN2 for clarification in the underlying 25.331. SA5 **approved** the following outgoing Liaison Statement:

S5-000562	LS from SA5 to RAN2 on Clarification about RRC connection re-establishment procedures	PM/SA5	Approved. Dispatched 4 Dec 00
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9.5.2 Performance Measurement Definition Methodology

The contribution was not reviewed due to lack of time. All S5.PM members were asked to provide comments to the editor (Frank KORINEK, Motorola,) prior to the next meeting. S5.PM decided that the background information provided in some of the measurement contributions should also be included in the draft TR so that this valuable information does not get lost.

TR 32.801 shall be included in the Performance Management (Building Block: OAM-PM) WID at the next SA5 meeting.

10 Any other business

It was again noted that more dialogue was needed between SA5 and the other 3GPP WGs (joint meetings) e.g. with S1/S2. The actual SA5 Liaison Rapporteurs arrangement does not seem to have sufficient impact.

SA5 noted at SA5#15 in Alaska the proposals made by the ad-doc group convened by Dave MILHAM (BT) and presented there in S5-000489:

S5-000489	SA5 communication and liaison programme	BT (Dave MILHAM)
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SA5 members were asked to identify possible joint activities with other 3GPP groups and to inform the Chairman.

11 Scheduling of future meetings

SA5 meeting calendar

Meeting	Date	Location	Host
SA5 #17	18 – 26 Jan 2001	Sophia-Antipolis, France	ETSI
SA5 #18	26 Feb – 2 Mar 2001	Paris, France	Nortel Networks
SA5 #19	2 - 6 Apr 2001	Los Angeles, USA (tbc)	3GPP North American friends
SA5 #20	28 May - 1 Jun 2001	Oslo, Norway (tbc)	Telenor
SA5 #21	16 – 20 July 2001	Chicago (tbc)	Lucent
SA5 #22	3 – 7 Sep 2001		
SA5 #23	15 -19 Oct 2001		
SA5 #24	26 – 30 Nov 2001		
SA5 #23			
SA5 #24			
----- Related meetings (for information) -----			
TSG#11	14 - 22 Mar 2001	Palm Springs / CA, USA	T1
TSG#12	13 - 21 Jun 2001	Stockholm, Sweden	Ericsson
TSG#13	19 - 27 Sep 2001	TBD, China	Lucent Technologies / CWTS
TSG#14	12 - 20 Dec 2001	TBD, Japan	TTC
TSG#15	6 – 14 March 2002	TBD, Korea	TTA
TSG#16	5 – 13 June 2002	TBD, Europe	Motorola
TSG#17	4 – 12 September 2002	TBD, France	Alcatel
TSG#18	4 – 12 December 2002	TBD	TBD
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			

12 Adjournment

The chairman adjourned the meeting on Friday 1 December 2000 at 15:45 hrs local time by thanking all delegates for their contributions. The attendees expressed gratitude to NTT DoCoMo for hosting the meeting and for the very pleasant social event co-sponsored with NEC.

Special gratitude was expressed to Yutaka TAKEUCHI and his colleagues for the very professional organisation of the meeting.

Annex A: List of Participants

Chairman		
YUHAN Albert	VoiceStream Wireless Corp.	US
ViceChairman		
TRUSS Michael	MOTOROLA Ltd	GB
PROJECT_MGR		
ZOICAS Adrian	ETSI Secretariat	FR
AHLBÄCK Hans	ERICSSON L.M.	SE
ANDERSSON Håkan	ERICSSON L.M.	SE
AZUMA Mitsuhiro	Fujitsu Limited	JP
BENDER James	Nortel Networks	US
BERGGREN Tommy	TELIA AB	SE
CARYER Geoffrey	BT	GB
CHUNG Han Keung	Hutchison 3G UK Limited	GB
CICCHITTO Gaetano	ETSI Secretariat	FR
GEERS René	ETSI Secretariat	FR
GOERMER Gerald	SIEMENS AG	DE
HÄKKINEN Juhana	NOKIA Corporation	FI
HAN Keli	Lucent Technologies	DE
HIRAI Sayaka	NTT DoCoMo	JP
HUBINETTE Ulf	ERICSSON L.M.	SE
HUTH Jörg	SIEMENS AG	DE
JURE Patrick	Lucent Technologies N. S. UK	GB
KACHI Yuka	NEC Corporation	JP
KAWAMURA Kazutoshi	Fujitsu Limited	JP
KHARE Ram	Telcordia Technologies Inc.	US
KOBYLARZ Thaddeus	AT&T Corp.	US
KORINEK Frank	MOTOROLA JAPAN LTD	JP
KUNITA Tsutomu	NEC Corporation	JP
MATSMOTO Sachiko	NEC Corporation	JP
MAUDOUX Jean-François	France Telecom	FR
MILHAM Dave	BT	GB
MIZUNO Shingo	Fujitsu Limited	JP
MUDGE John	VODAFONE Group Plc	GB
MUKHERJEE Auro	Telcordia Technologies Inc.	US
NAKAMURA Nobutaka	NTT DoCoMo	JP
NENNER Karl-Heinz	Deutsche Telekom MobilNet	DE
NOUIRA Habib	ALCATEL France	FR
PAL Tapinder	Deutsche Telekom MobilNet	DE
PAMIO Andrea	TELECOM ITALIA S.p.A.	IT
PIRT Trevor	MOTOROLA GmbH	DE
SASAKI Tsukasa	Fujitsu Limited	JP
SCHMIDT Joerg	Motorola Inc.	US
SHARON Ariel	Lucent Technologies	US
SIDOR David	Nortel Networks	US
SNOECK Wim	SIEMENS ATEA NV	BE
TAKEUCHI Yutaka	NTT DoCoMo	JP
TAKKU Ari	SONERA Corporation	FI
TOCHE CHRISTIAN	NORTEL NETWORKS (EUROPE)	GB
TOVINGER Thomas	ERICSSON L.M.	SE
TSE Edwin	Ericsson Inc.	US
WILBER John	AT&T Corp.	US
ZHOU Di	SIEMENS AG	DE

Number of Attendees: 49

NOTE 1: On-line meeting registration

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>

NOTE 2: The List of 3GPP Individual Members can be consulted at http://www.3gpp.org/Participation/3GPP_IM.htm

NOTE 3: If you have an **ETSI Username/Password**, you may change yourself your old e-mail address anouch.chichmanian@rd.francetelecom.fr with your new one anouch.chichmanian@francetelecom.fr directly on the **ETSI home page** <http://www.etsi.org> by clicking **Telephone Directory** <http://webapp.etsi.org/teldir/> & by ticking the case* **Update your new email in all our exploder lists** you will make this update on all ETSI/GPP exploder lists you have subscribed to.

Annex B: Approved Agenda

Agenda item		Allocation of Meeting Documents: Input Documents, Output Documents
1	Call to order (Tuesday, 1:45 p.m.)	
2	Participant registration	S5MemLst
3	Agenda approval	S5_16agenda
4	Document registration and attribution	S5DocLst1
5	Meetings and activities reports	
5.1	Last SA5 meeting report	501, 555
5.2	TSG-SA meeting report	
5.3	Liaison rapporteurs reports	505/6 (GSMA) 509 (TMF) 566 (T1M1)
5.4	Other reports	
6	Discussions and decisions on inter-organizational issues	503, 567 (T2/ MExE) 504 (GERAN-specific O&M) 509 (TMF) 518, 566 (T1M1/CORBA framework) 565, 532 (T2/ MMS billing)
7	Discussions and decisions on administration issues	
7.1	Work plan	502 (WP overview) 507, 525 (WP reporting) 510-517 (WID), 568-576
7.2	Other administrative issues	
8	Cross-work item technical discussions	508 (OID)
9	Work item rapporteur group reports and actions	
9.1	S5.AR/PR rapporteur group	520 (AR-PR Report), 568-571 (WIDs), 524 (CR), 567 (LS)
9.2	S5.CH rapporteur group	538, 539 (CH Report), 575, 576 (WIDs), 528-531, 533-537 (CR), 532 (LS),
9.3	S5.CM rapporteur group	540, 541 (CM Report), 572 (WID), 542 (CR), 543-545 (specs),
9.4	S5.FM rapporteur group	550, 552 (FM Report), 573 (WID), 551, 553, 556-558 (CRs), 559 (editorial CR),
9.5	S5.PM rapporteur group	560 (PM Report), 574 (WID), 562 (LS),
9.6	S5.Ad Hoc groups (if any)	
10	Discussions and decisions on other business	489 (SA5 communication and liaison programme)
11	Scheduling of future meetings	
12	Adjournment (target time: Friday, 12:30 p.m.)	

Annex C: List of documents

Legend: Documents highlighted in **red** are not available yet; e.g. **S5-000xyz**
 Documents highlighted in **green** are replaced / superseded by a Revised Version; e.g. **S5-000xyz**
 Documents highlighted in **blue** had been sent out by SA5 & the action is discharged; e.g. **S5-000xyz** Sent on 1 Mar 2000

Tdoc	Agenda	Title	Source	Status
Post-Meeting #15 Documents				
S5-000494		Liaison from ITU Experts Meeting of Q14,15,19/4 to ETSI for forwarding to 3GPP (SA5) on the use of CORBA in the TMN	ITU Q14,15,19/4 (dlmatthews@att.com)	Dispatched 26 Oct 00
S5-000495		Reply from SA2 to SA5 (cc: CN1) to "LS on 2G/3G QoS profiles" (S2-001566)	SA2	Dispatched 26 Oct 00
S5-000496	CH	Proposal for WID on Charging Management (Feature)	SA5 Secretary	Dispatched 30 Oct 00
S5-000497	CH	Proposal for WID on Accounting Management (Building Block)	SA5 Secretary	Dispatched 30 Oct 00
S5-000498	AR	Proposal for WID on UE Management (Building Block)	SA5 Secretary	Dispatched 30 Oct 00
S5-000499	AR	Proposal for WID on Security Management (Building Block)	SA5 Secretary	Dispatched 30 Oct 00
S5-000500		SA5 Work Item Descriptions for Release R4/R5 - update	SA5 Secretary	Dispatched 30 Oct 00
Meeting #16, Tokyo, Japan, 27 Nov – 1 Dec 2000				
S5-000501	5.1	DRAFT Report of the 3GPP SA WG5 (Telecom Management) meeting #15 hosted by 3GPP North American friends in Girdwood, Alaska, USA, 16 - 20 October 2000	SA5 Secretary (Adrian ZOICAS)	Approved without change. Final doc in S5-000555
S5-000502	7.1, RGs	SA5 Work Plan & Work Item Descriptions for Release R4/R5 - update	SA5 Secretary	Replaces S5-000500. Discussed
S5-000503	6, AR 9.1	Reply LS from T2 to SA5 on MExE and User Equipment Management	T2 (MExE)	Dispatched 7 Nov 00 Reply in S5-000519
S5-000504	6, AR 9.1	Reply LS from GERAN#2 Plenary to SA5 (cc: RAN3) on co-ordination of GERAN-specific O&M specification	GERAN	Dispatched 13 Nov 00 Noted.
S5-000505	6, AR 9.1	Report from SA1 Orlando meeting (Subscription Management, Terminal Software Update)	SA5 Chairman	Noted
S5-000506	6, AR 9.1	LS from GSMA to 3GPP SA#9 (09/2000) on Standardisation of Service Operation Management	GSMA (SERG /ISG)	Noted
S5-000507	7.1, RGs	Work Plan Report at TSG-xx#10 Meeting	MCC	Revised - see S5-000525
S5-000508	8	OID definition and registration (updated version).	Siemens (Gaetano CICCHITTO)	Concluded
S5-000509	6	TMF Presentation of the CCM Project held at TMW Chicago Nov 14-16	Motorola (Michael TRUSS)	Noted
S5-000510	7.1, RGs	Charging and OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000570
S5-000511	7.1, RGs	Principles, high level Requirements and Architecture (Building Block: OAM-AR) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000522
S5-000512	7.1, RGs	Configuration Management (Building Block: OAM-CM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000572
S5-000513	7.1, RGs	Fault Management (Building Block: OAM-FM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000554
S5-000514	7.1, RGs	Performance Management (Building Block: OAM-PM) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000561
S5-000515	7.1, RGs	UTRAN Operations and Maintenance procedures (Feature: UOAM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000523
S5-000516	7.1, RGs	Charging Management (Building Block: OAM-CH) – Status: new at SA#10	SA5 Secretary	Revised - see S5-000526/7
S5-000517	7.1, RGs	Subscription Management (Feature: SM) – Status: provisionally approved at SA#9	SA5 Secretary	Revised - see S5-000521
S5-000518	6, AR 9.1, CM 9.3	ITU-T SG 4 issues (WP 3/4 TMN wireless work, WP 4/4 TMN CORBA framework)	SG 4 Chairman (Dave SIDOR, Nortel Networks), SA5 Chairman (Albert H. YUHAN, VoiceStream Wireless)	Noted.
New Documents for the closing plenary Meeting #16, Tokyo, Japan, 27 Nov – 1 Dec 2000				
S5-000519	AR 9.1	Draft Reply LS from SA5 to T2 on MExE and User Equipment Management	AR/PR	Revised - see S5-000567
S5-000520	AR 9.1	AR-PR Rapporteur Report for SA5 #16, Tokyo	AR/PR	
S5-000521	AR 9.1	Revised Subscription Management work item proposal	AR/PR	Revised - see S5-000568
S5-000522	AR 9.1	Revised AR-PR work item proposal	AR/PR	Revised - see S5-000571
S5-000523	AR 9.1	Revised UTRAN O&M Procedures work item proposal	AR/PR	Revised - see S5-000569
S5-000524	AR 9.1	32.101 CR: Update CORBA References to allow both CORBA Version 2.1 and CORBA Version 2.3	AR/PR	Approved.
S5-000525	AR 9.1	Work Plan Report at TSG-xx#10 Meeting	AR/PR	Replaces S5-000507.
S5-000526	CH 9.2	Revised CH-1 work item proposal	CH	Replaces S5-000516.
S5-000527	CH 9.2	Revised CH-2 work item proposal	CH	Replaces S5-000516

S5-000528	CH 9.2	32.015 CR: Ambiguities in Packet Transfer Command IE & Data Record Packet IE	CH	Approved.
S5-000529	CH 9.2	32.015 CR: Inconsistency of Charging Characteristic size	CH	Approved.
S5-000530	CH 9.2	32.015 CR: Alignment of ASN.1 for QoS attributes	CH	Approved.
S5-000531	CH 9.2	32.015 CR: Correction of parameter CallEventRecord	CH	Approved.
S5-000532	6, CH 9.2	Reply LS from SA5 to T2 (cc: GSM Association SERG, BARG, IREG) on MMS and billing	CH	Approved. Dispatched 29 Nov 00
S5-000533	CH 9.2	32.015 CR: Correction of parameter Location Area and Cell	CH	Approved.
S5-000534	CH 9.2	32.015 CR: Correction of ASN.1 errors	CH	Approved.
S5-000535	CH 9.2	32.005 CR: Support 3G CS by adding "system type" parameter to CDRs (same as in 3G PS)	CH	Approved.
S5-000536	CH 9.2	32.005 CR: Correction of parameter Location Area and Cell	CH	Approved.
S5-000537	CH 9.2	32.005 CR: Correction of parameter CallEventRecord	CH	Approved.
S5-000538	CH 9.2	Charging Group Report	CH Rapporteur (Thaddeus KOBYLARZ)	Noted.
S5-000539	CH 9.2	Revised Charging Group Report	CH Rapporteur (Thaddeus KOBYLARZ)	Dispatched 7 Dec 00
S5-000540	CM 9.3	Report of CM (32.106) RG Session	CM Rapporteur (Thomas TOVINGER)	Noted.
S5-000541	CM 9.3	Report from CM (32.106) Ad-hoc meeting SA5#15bis, Orlando, Florida, USA, 7-9 Nov. 2000	CM Rapporteur (Thomas TOVINGER)	Noted.
S5-000542	CM 9.3	32.106-2 CR: Correction of parameter inconsistency in operation unsubscribe	CM	Approved.
S5-000543	CM 9.3	32.106-5 (v1.1.0) Draft 4: Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1 (Release 1999)	CM	Approved.
S5-000544	CM 9.3	32.106-6 (v0.4.0) Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	CM	To be updated by Rapp post meeting – implement agreements
S5-000545	CM 9.3	32.106-7 (v0.4.0) Configuration Management; Part 7: Basic Configuration Management IRP CMIP Solution Set Version 1:1	CM	Approved.
S5-000546		Void		
S5-000547		Void		
S5-000548		Void		
S5-000549		Void		
S5-000550	FM 9.4	Report from FM (32.111) Ad-hoc meeting SA5#15bis, Orlando, Florida, USA, 7-9 Nov. 2000	FM Rapporteur (Patrick JURÉ)	Noted.
S5-000551	FM 9.4	32.111-2 CR: Incorrect modifiable attributes	FM	Approved.
S5-000552	FM 9.4	SA5#16 FM meeting report	FM Rapporteur (Patrick JURÉ)	Noted.
S5-000553	FM 9.4	32.111-2 CR: Add acknowledgement information to getAlarmList result	FM	Approved.
S5-000554	FM 9.4	Revised FM work item proposal	FM	Revised - see S5-000573
S5-000555	5.1	Report of the 3GPP SA WG5 (Telecom Management) meeting #15 hosted by 3GPP North American friends in Girdwood, Alaska, USA, 16 - 20 October 2000	SA5	Approved.
S5-000556	FM 9.4	32.111-2 CR: A cleared Alarm shall be given perceived severity "Cleared" and nothing else	FM	Approved.
S5-000557	FM 9.4	32.111-2 CR: Inconsistent behaviour for cleared not yet acknowledged alarms	FM	Approved.
S5-000558	FM 9.4	32.111-3 CR: Inconsistent qualifiers	FM	Approved.
S5-000559	FM 9.4	Editorial changes of the 32.111-3; Instructions to MCC on Editorial correction of the Alarm IRP CORBA solution set	FM	Noted.
S5-000560	PM 9.5	Performance Management (32.104) Rapporteur Session Report	PM Rapporteur (Karl-Heinz NENNER)	Noted.
S5-000561	PM 9.5	Revised PM work item proposal	PM	Revised - see S5-000574
S5-000562	PM 9.5	LS from SA5 to RAN2 on Clarification about RRC connection re-establishment procedures	PM/SA5	Approved. Dispatched 4 Dec 00
S5-000563		Void		
S5-000564	5.1	DRAFT Report of the 3GPP SA WG5 (Telecom Management) meeting #16 hosted by NTT DoCoMo in Tokyo, JAPAN, 27 Nov - 1 Dec 2000	SA5 Secretary (Adrian ZOICAS)	Revised - see S5-000577
S5-000565	6, CH 9.2	LS from T2 to SA5, GSM Association BARG, IREG (cc: SERG) on Multimedia Messaging Service (MMS) and billing	T2 (Sofi.A.Persson@telia.se)	Reply in S5-000532
S5-000566	6	Committee T1 (T1P1 / T1M1) issues	SA5 Chairman	Noted.
S5-000567	AR 9.1	Reply LS from SA5 to T2 on MExE and User Equipment Management	SA5	Replaces S5-000519. Dispatched 28 Nov 00
S5-000568		Subscription Management (Feature: SM)	SA5	Replaces S5-000521.
S5-000569		UTRAN Operations and Maintenance procedures (Feature: UOAM)	SA5	Replaces S5-000523.
S5-000570		Charging and OAM&P (Operations, Administration, Maintenance & Provisioning) (Feature: OAM)	SA5	Replaces S5-000510.
S5-000571		Principles, high level Requirements and Architecture (Building Block: OAM-AR)	SA5	Replaces S5-000522.
S5-000572		Configuration Management (Building Block: OAM-CM)	SA5	Replaces S5-000512.
S5-000573		Fault Management (Building Block: OAM-FM)	SA5	Replaces S5-000554.

S5-000574		Performance Management (Building Block: OAM-PM)	SA5	Replaces S5-000561.
S5-000575		Charging Management (Building Block: OAM-CH)	SA5	Replaces S5-000526.
S5-000576		Charging Management for all-IP UMTS networks (Building Block: OAM-CH-IP)	SA5	Replaces S5-000527.
S5-000577		Report of the 3GPP SA WG5 (Telecom Management) meeting #16 hosted by NTT DoCoMo in Tokyo, JAPAN, 27 Nov - 1 Dec 2000	SA5	
NOTE: This document list is continuously updated. The latest version can be found at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/S5DocLst.zip				

Annex D: Documents to be provided to SA#10

NUMBER	TITLE	AGENDA ITEM	Document For
SP-000671	Status report from SA WG5 to SA#10 (presentation) – Source: Chairman	7.5.1	Information
SP-000512	Status report from SA WG5 to SA#10 (Word) – Source: Secretary	7.5.1	Information
SP-000513	32.106-5 (v2.0.0) Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1 (Release 1999)	7.5.3	Decision
SP-000514	32.106-6 (v1.0.0) Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	7.5.3	Decision
SP-000515	32.106-7 (v1.0.0) Configuration Management; Part 7: Basic Configuration Management IRP CMIP Solution Set Version 1:1	7.5.3	Decision
SP-000516	CRs to Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain (32.015)	7.5.3	Decision
SP-000517	CRs to 3G Performance Management (32.104)	7.5.3	Decision
SP-000518	CRs to Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1 (32.106-2)	7.5.3	Decision
SP-000519	CRs to Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA Solution Set version 1:1 (32.106-3)	7.5.3	Decision
SP-000520	CRs to Telecommunications Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (32.111-2)	7.5.3	Decision
SP-000521	CRs to Telecommunications Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1 (32.111-3)	7.5.3	Decision
SP-000522	CRs to 3G Telecom Management principles and high level requirements (32.101)	7.5.3	Decision
SP-000523	CRs to Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain (32.005)	7.5.3	Decision
SP-000524	SA5 proposed Work-Plan & Work Items for Release 4/5	7.5.3	Decision
SP-000525	ITU-T SG 4 issues (WP 3/4 TMN wireless work, WP 4/4 TMN CORBA framework) – Source: Chairman	7.5.3	Decision
NOTE: CRs after SA5#16 (total 26): AR/PR 1 CH 10 CM 6 FM 8 PM 1			

Annex E: CRs to be provided to SA#10

E.1 SA WG5 Release 99 CRs at SA#10

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Cat	Subject	Version-Current	Version-New	Work item
SP-000523	S5-000535	32.005	002		R99	F	Support 3G CS by adding "system type" parameter to CDRs (same as in 3G PS)	3.2.0	3.3.0	OAM-CH
SP-000523	S5-000536	32.005	003		R99	F	Correction of parameter Location Area and Cell	3.2.0	3.3.0	OAM-CH
SP-000523	S5-000537	32.005	004		R99	F	Correction of parameter CallEventRecord	3.2.0	3.3.0	OAM-CH
SP-000516	S5-000476	32.015	013		R99	F	Alignment of Triggers for S-CDR closure	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000528	32.015	014		R99	F	Ambiguities in Packet Transfer Command IE & Data Record Packet IE	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000529	32.015	015		R99	F	Inconsistency of Charging Characteristic size	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000530	32.015	016		R99	F	Alignment of ASN.1 for QoS attributes	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000531	32.015	017		R99	F	Correction of parameter CallEventRecord	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000533	32.015	018		R99	F	Correction of parameter Location Area and Cell	3.3.0	3.4.0	OAM-CH
SP-000516	S5-000534	32.015	019		R99	F	Correction of ASN.1 errors	3.3.0	3.4.0	OAM-CH
SP-000522	S5-000524	32.101	006		R99	F	Update references to allow both CORBA Versions 2.1 and 2.3	3.2.0	3.3.0	OAM-AR
SP-000517	S5-000479	32.104	008		R99	F	Clarification of measurement definition template	3.3.0	3.4.0	OAM-PM
SP-000518	S5-000484	32.106-2	001		R99	F	Consistent description of Event types and Extended event types	3.1.0	3.2.0	OAM-CM
SP-000518	S5-000542	32.106-2	002		R99	F	Correction of parameter inconsistency in operation unsubscribe	3.1.0	3.2.0	OAM-CM
SP-000519	S5-000486	32.106-3	001	1	R99	F	Add pragma statement to Notification IRP IDL	3.1.0	3.2.0	OAM-CM
SP-000519	S5-000482	32.106-3	002		R99	F	Correction of IDL Errors	3.1.0	3.2.0	OAM-CM
SP-000519	S5-000483	32.106-3	003		R99	F	Spelling Errors in the CORBA IDL	3.1.0	3.2.0	OAM-CM
SP-000519	S5-000485	32.106-3	004		R99	F	Ensure consistency with IDL exception	3.1.0	3.2.0	OAM-CM
SP-000520	S5-000551	32.111-2	003		R99	F	Incorrect modifiable attributes	3.2.0	3.3.0	OAM-FM
SP-000520	S5-000553	32.111-2	004		R99	F	Add acknowledgement information to getAlarmList result	3.2.0	3.3.0	OAM-FM
SP-000520	S5-000473	32.111-2	005		R99	F	Identification of valid Event Types and Extended Event Types within Notifications	3.2.0	3.3.0	OAM-FM
SP-000520	S5-000556	32.111-2	006		R99	F	A cleared Alarm shall be given perceived severity "Cleared" and nothing else	3.2.0	3.3.0	OAM-FM
SP-000520	S5-000557	32.111-2	007		R99	F	Inconsistent behaviour for cleared not yet acknowledged alarms	3.2.0	3.3.0	OAM-FM
SP-000521	S5-000472	32.111-3	001	1	R99	F	Allow "Structured Event Filterable Body Fields" to be absent if parameters are not used	3.2.0	3.3.0	OAM-FM
SP-000521	S5-000471	32.111-3	002	1	R99	F	Specific behaviour of the Iterator	3.2.0	3.3.0	OAM-FM
SP-000521	S5-000558	32.111-3	003		R99	F	Inconsistent qualifiers	3.2.0	3.3.0	OAM-FM

Annex F: Specifications and Reports under SA5 responsibility

F.1: SA WG5 Specifications and Reports

Type	Number	Title	Rel	current vers	Frozen (note)	WG prime	Rapporteur
TS	32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	R1999	3.2.0	Jun 00	S5	KOBYLARZ, Thaddeus
TS	32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	R1999	3.3.0	Jun 00	S5	KOBYLARZ, Thaddeus
TS	32.101	3G Telecom Management principles and high level requirements	R1999	3.2.0	Mar 00	S5	TRUSS, Michael
TS	32.102	3G Telecom Management Architecture	R1999	3.2.0	Mar 00	S5	BERGGREN, Tommy
TS	32.104	3G Performance Management	R1999	3.3.0	Mar 00	S5	NENNER, Karl Heinz
TS	32.105	3G Charging and Accounting Stage 2 description – to be withdrawn from R99 and moved to Releases 4/5	R1999	0.0.4	Mar 01	S5	KOBYLARZ, Thaddeus
TS	32.106-1	Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	R1999	3.1.0	Mar 00	S5	Trevor PIRT, Motorola
TS	32.106-2	Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service Version 1	R1999	3.1.0	Mar 00	S5	Edwin TSE, Ericsson
TS	32.106-3	Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA Solution Set Version 1:1	R1999	3.1.0	Mar 00	S5	Randall SCHEER, Lucent Technologies
TS	32.106-4	Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	R1999	3.1.0	Mar 00	S5	Di ZHOU, Siemens
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP: Information Model Version 1	R1999	2.0.0	Dec 00	S5	TOVINGER, Thomas
TS	32.106-6	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA Solution Set Version 1:1	R1999	1.0.0	Dec 00	S5	TOVINGER, Thomas
TS	32.106-7	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP Solution Set Version 1:1	R1999	1.0.0	Dec 00	S5	Di ZHOU, Siemens
TS	32.106-8	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	R1999	3.1.0	Mar 00	S5	TOVINGER, Thomas
TS	32.111-1	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	R1999	3.2.0	Jun 00	S5	JURE, Patrick
TS	32.111-2	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	R1999	3.2.0	Jun 00	S5	JURE, Patrick
TS	32.111-3	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA Solution Set Version 1:1	R1999	3.2.0	Jun 00	S5	JURE, Patrick
TS	32.111-4	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP Solution Set	R1999	3.1.1	Jun 00	S5	JURE, Patrick

NOTE: "Freezing" of specifications (from 21.900-340 "3GPP working methods")

A TSG may decide that a specification is sufficiently stable that it may be considered "frozen".
That is, only CRs for essential corrections of errors shall be considered.
(At the same time, a new major version may be developed for inclusion of new features.)

F.2: SA WG5 Specifications and Reports Release 4/5

Type	Number	Title	Rel	current vers	Frozen (note)	WG prime	Rapporteur
TS	32.140	3G Service Management Requirements & Framework	Rel4	0.1.0	Mar 01	S5	CARYER, Geoffrey
TR	32.800	Management Level Procedures and Interaction with UTRAN	Rel4	0.1.0	Mar 01	S5	BODEN, Bert

F.3: SA WG5 Specifications and Reports inherited from SMG6

Number	Title	former WG	WG prime	WG other	rapporteur
12.00	Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management	SMG06	S5	-	...
12.01	Common Aspects of Public Land Mobile Network (PLMN) Management	SMG06 / SMG03	S5	NP	...
12.02	Subscriber, Mobile Equipment (ME) and Services Data Administration	SMG06 / SMG01	S5	S1	...
12.03	Security Management	SMG06 / SMG01 / SMG03	S5	S1 / NP	...
12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	SMG06 / SMG01 / SMG03	S5	S1 / NP	...
12.05	Subscriber Related Call and Event Data	SMG06 / SMG01	S5	S1	sjöblom, kai
12.06	Network Configuration Management and Administration	SMG06 / SMG03	S5	NP	...
12.07	Public Land Mobile Network (PLMN) Quality of Service	SMG06 / SMG01 / SMG03	-	-	...
12.08	Subscriber and Equipment trace	SMG06 / SMG03	S5	NP	sjöblom, kai
12.11	Fault management of the Base Station System (BSS)	SMG06 / SMG01 / SMG02	S5	S1 / GP	...
12.15	General Packet Radio Service (GPRS); GPRS Charging	S5	S5	-	heaton, graham
12.20	Base Station System (BSS) Management Information	SMG06 / SMG03	S5	NP	...
12.21	Network Management (NM) Procedures and Messages on the A-bis Interface	SMG06 / SMG02	S5	GP	yuhan, albert
12.22	Interworking of GSM Network Management (NM) Procedures and Messages at the Base Station Controller (BSC)	SMG06	S5	-	yuhan, albert
12.30	ETSI Object Identifier Tree; Mobile Domain O&M	SMG06	S5	-	...
12.71	Location Services (LCS); Location services management	S5	S5	-	doshi, sonia

Annex X: List of 3GPP WG SA5 office holders

Lastname	Firstname	Representing Organisation	Role	Start Date	End Date	Notes
Cabrera	Inaki	AIRTEL Movil SA	Convenor	1998/12/07	1999/03/01	
Yuhan	Albert	VoiceStream Wireless Corp.	Chairman	1999/03/01		
Truss	Michael	MOTOROLA Ltd	ViceChairman	1999/06/04		
Pope	Maurice	ETSI Secretariat	SECRETARY	1998/12/07	1999/03/01	
Sanders	Michael	ETSI Secretariat	SECRETARY	1999/03/01	2000/01/24	
Zoicas	Adrian	ETSI Secretariat	SECRETARY	2000/01/26		

List of Rapporteurs

SA5 RG	Lastname	Firstname	Representing Organisation	Start Date	End Date	Notes
AR	Truss	Michael	MOTOROLA Ltd	1999/06/04		
PR	Berggren	Tommy	TELIA AB	1999/06/04		
CH	Deakin	Ian	MOTOROLA Ltd	1999/07/22	2000/07/24	
CH	Nenner	Karl-Heinz	Deutsche Telekom MobilNet	2000/07/25	2000/10/20	
CH	Kobylarz	Thaddeus	AT&T Corp.	2000/10/20		
CM	Tovinger	Thomas	ERICSSON L.M.	1999/07/22		
FM	Cicchitto	Gaetano	SIEMENS ICN S.p.A	1999/07/22	2000/07/28	
FM	Jure	Patrick	Lucent Technologies France	2000/07/29		
PM	Nenner	Karl-Heinz	Deutsche Telekom MobilNet	1999/07/22		

Annex Y: List of incoming & outgoing Liaison Statements

Tdoc	Agenda	Title	Source	Status
		List of incoming Liaison Statements		
S5-000494		Liaison from ITU Experts Meeting of Q14,15,19/4 to ETSI for forwarding to 3GPP (SA5) on the use of CORBA in the TMN	ITU Q14,15,19/4 (dlmatthews@att.com)	Dispatched 26 Oct 00
S5-000495		Reply from SA2 to SA5 (cc: CN1) to "LS on 2G/3G QoS profiles" (S2-001566)	SA2	Dispatched 26 Oct 00
S5-000503	6, AR 9.1	Reply LS from T2 to SA5 on MExE and User Equipment Management	T2 (MExE)	Dispatched 7 Nov 00 Reply in S5-000567
S5-000504	6, AR 9.1	Reply LS from GERAN#2 Plenary to SA5 (cc: RAN3) on co-ordination of GERAN-specific O&M specification	GERAN	Dispatched 13 Nov 00 Noted.
S5-000506	6, AR 9.1	LS from GSMA to 3GPP SA#9 (09/2000) on Standardisation of Service Operation Management	GSMA (SERG /ISG)	Noted
S5-000565	6, CH 9.2	LS from T2 to SA5, GSM Association BARG, IREG (cc: SERG) on Multimedia Messaging Service (MMS) and billing	T2 (Sofi.A.Persson@telia.se)	Reply in S5-000532
		List of outgoing Liaison Statements		
S5-000532	6, CH 9.2	Reply LS from SA5 to T2 (cc: GSM Association SERG, BARG, IREG) on MMS and billing	SA5	Approved. Dispatched 29 Nov 00
S5-000562	PM 9.5	LS from SA5 to RAN2 on Clarification about RRC connection re-establishment procedures	SA5	Approved. Dispatched 4 Dec 00
S5-000567	AR 9.1	Reply LS from SA5 to T2 on MExE and User Equipment Management	SA5	Replaces S5-000519. Dispatched 28 Nov 00

Annex Z: Access to 3GPP documents

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

Z.1 3GPP email lists

To receive information about SA5 issues, all delegates and other interested parties MUST register for email list 3GPP_TSG_SA_WG5. 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
```

There are many other 3GPP email lists that may also be of interest.

Go to http://www.3gpp.org/Discussion_Lists/e-mail.htm for further information.

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 *

Z.2 Email archives

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 2000 and the current date, send the following command to listserv@list.3gpp.org :

```
search * in 3GPP_TSG_SA_WG5 since May 2000
```

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

3GPP archives are also available via a WWW interface. For SA5, go to: http://list.3gpp.org/archives/3gpp_tsg_sa_wg5.html

Z.3 Meeting calendar, invitations and registration

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>

In particular, the invitations to WG5 meetings are made available under the directory: ftp://ftp.3gpp.org/tsg_sa/wg5_tm/invitations/; and also in the subdirectory of the individual meeting; e.g. for SA5 meeting #16 it can be found on the server at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Invitation/

On-line meeting registration

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>

Z.4 Meeting documents on the server

Document **S5DocLst.doc** contains the Year 2000 Document List, which is continuously updated. The latest version can be found at ftp://ftp.3gpp.org/TSG_SA/WG5_TM/S5DocLst.zip

All documents submitted to SA5 meetings are available on the 3GPP server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/

E.g. all the documents for SA5 meeting #16 can be found on the server either individually at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Docs/ or altogether, including the final list of documents (**S5DocLst.doc**) in a zip archive at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Docs/zip/s5-16.zip

Z.5 Specifications (TSs/TRs) on the Server

Z.5.1 Locations of 3GPP specifications

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

After each and every TSG SA meeting the updated 3GPP Specifications set is made available on the 3GPP server at:
<ftp://ftp.3gpp.org/Specs/>

E.g. the September 2000 Specifications set can be found at: <ftp://ftp.3gpp.org/Specs/2000-09/>
& the SA5-produced R99 specifications can be found at: ftp://ftp.3gpp.org/Specs/2000-09/R1999/32_series/

- The SA5-produced specifications are also copied in the SA5 meeting directory at:
ftp://ftp.3gpp.org/TSG_SA/WG5_TM/specs/
E.g. for TS 32.101 at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/specs/32101/
Previous versions of these specifications can be found in the same subdirectories.

Z.5.1.1 Location of Latest drafts of 3GPP specifications

Latest drafts of 3GPP specifications can be found at: ftp://ftp.3gpp.org/Specs/Latest_drafts/

E.g. the latest SA5 drafts can be found at: ftp://ftp.3gpp.org/Specs/Latest_drafts/32_series/

Z.5.2 Location of GSM specifications

With the closure of the ETSI TC SMG, the GSM specifications had been moved to their new home at:
<http://www.3gpp.org/ftp/Specs/GSM/>
<ftp://ftp.3gpp.org/Specs/GSM/>

History

Document history		
Ver. 1.0	10 January 2001	DRAFT Report (S5-000564) submitted to SA5 for comment & approval at SA5#17 in Sophia Antipolis, FRANCE on 18 – 26 January 2001 and posted at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Report/ and ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_17/Docs/
	26 January 2001	Approved without change at SA5#17 in Sophia Antipolis, FRANCE on 18 – 26 January 2001 as S5-000577 and posted at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_16/Report/ and ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_17/Docs/