S5-000430

Title: Report of the 3GPP SA WG5 (Telecom Management) meeting #14
hosted by Siemens ICN SpA in Milan, ITALY, 11-15 September 2000

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

Contents

Chairman:	Albert YUHAN (VoiceStream Wireless)
Vice-Chairman:	Michael TRUSS (Motorola)
Secretary:	Adrian.ZOICAS@etsi.fr (3GPP Mobile Competence Centre)
Host:	Siemens ICN SpA, ITALY

1   Call to order

Albert H. YUHAN (VoiceStream Wireless), SA5 chairman, called the meeting to order at 14:40 hrs local time on Tuesday 12 September 2000. The Rapporteur Group (RG) meetings commenced on Monday 11 September 2000. The chairman thanked Siemens ICN SpA, ITALY for hosting the meeting.

On behalf of the host, Siemens ICN SpA, Gaetano CICCHITTO warmly welcomed the delegates to Milan, in Lombardia / ITALY. The SA5 delegates were cordially invited on Thursday evening to contemplate one of Leonardo da Vinci's most renowned works - the painting "The Last Supper" - followed by an SA5 supper (the latter however, not being the last one).

For interested SA5 delegates, Siemens facilitated tickets for Giacomo PUCCINI's famous opera "La BOHÈME" performed at the renowned opera house "TEATRO ALLA SCALA".

2   Participant registration

43 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_14/Docs/_s5MemLst.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 ware 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.doc

5   Meetings and activities reports

5.1   Last SA5 meeting report

Document Rep-S5-13-v10, containing the draft report of the SA5#13 meeting, was approved without change. The approved report is contained in S5-000400.

S5-000400	Report of the 3GPP SA WG5 (Telecom Management) meeting #13 hosted by the North American friends of 3GPP in Washington D.C., USA, 24-28 July 2000	SA5

5.2   TSG-SA and PCG/OP meetings reports

There was no TSG SA meeting since the last SA5 meeting Washington D.C.

S5-000359	Draft summary minutes, decisions and actions from 3GPP PCG#4 Meeting, Beijing, 17 July 2000 (PCG4_21)	MCC

The Chairman and the Secretary referred to outcomes from the 3GPP PCG#4 (17-18 July 2000) and OP#3 (19 July 2000) meetings held in Beijing, CHINA and hosted by CWTS.

1. **Co-operation between 3GPP and the Internet Engineering Task Force (IETF)**

   TSG SA had raised the need for a closer co-operation to be established between 3GPP and the Internet Engineering Task Force (IETF) and a draft text had been proposed which could form the basis of a formal agreement between the two bodies. It was noted that the existing 3GPP Working Procedures did not prevent a direct liaison being established with the IETF but this was not the IETF's normal method of co-operation, which was based more on individual rather than company representation. Furthermore, neither 3GPP nor IETF are established as legal entities which would make a formal co-operation agreement difficult to establish, although it was understood that there was a possibility to establish an agreement with the Internet Society (ISOC), which is the parent body of the IETF. It was agreed that the PCG Chairman would lead an activity to discuss with the IETF how best to establish a closer co-operation. For this purpose, each Organizational Partner was requested to provide one representative to take part in the discussions. Comments were also invited on the draft text of the agreement, which had been prepared by TSG SA.

2. Concerns were raised on the need for 3GPP to take responsibility for the entire 3GPP system. Other related forums had started work on fringe areas, which should ideally be taken care of within the project if full control was to be maintained. The PCG endorsed the view that 3GPP was responsible for the entire 3GPP system and the Partners committed themselves to do the work within the project rather than elsewhere.

3. PCG agreed that TSG CN could liaise with the Object Management Group (OMG) and with JAVA in Advanced Intelligent Networks (JAIN).

4. PCG agreed that ETSI should take care of Organization Identifier matters for 3GPP (subject to two week commenting period).

5. TSG T had debated the apparent imbalance between the sizes of TSG T against the size of the three other TSGs and had considered how this could be corrected. It was noted that with the impending creation of TSG GERAN the dimensions of 3GPP would change and that a six month review was expected to take place in early 2001 at which time the relative sizes of the TSGs could be addressed.

6. **Contents list of Release 2000**

   A discussion took place on the content of Release 2000 and it was noted that at this stage the content had not been fully defined. It was expected that this would be debated during the TSG meetings, which will take place in September, and the PCG requested TSG SA to provide a contents list of Release 2000 for the next PCG meeting.

7. **Content of future releases**

   The content of future releases and how they should be packaged was also discussed. It was noted that the existing habit of annual releases may not be the best and that a move towards content-based rather than time-based releases should be considered. It was agreed that a release scheme based on both time and content should be developed. This would enable a known list of features to be the content of a release package having a target date for completion. The releases need not necessarily be annual. TSG SA was requested to take the results of this PCG discussion into account whilst developing future release plans.

8. It was reported that an incident had occurred recently where a 3GPP group had sent a liaison directly to a US national body and that Committee T1 had not been aware that such a contribution would be made. This led Committee T1 to propose the introduction of a rule which would prevent this from happening in the future. It was noted that the existing rules of 3GPP require the TSGs to seek approval with those bodies with whom they may liaise directly and that as such the introduction of additional rules should not be necessary. It was agreed that the TSG Chairmen should remind their officials of the need to seek approval before liaising with external bodies and that they should entertain good judgment in the nature of the liaisons that they send.

9. **Creation of an IPR Register (Article 55 of Working Procedures)**

    It was proposed that open calls should be made during 3GPP meetings for Individual Members to declare any IPRs, which they believe to be essential, and that these calls should be recorded in the meeting minutes. The purpose of these calls was to aid the early declaration of IPRs and to remind members of their obligations under their SDOs IPR Policy. The PCG endorsed this proposal. TSG Chairmen will need to ensure that open IPR calls are made during 3GPP meetings and to ensure that these calls are recorded in the meeting minutes. MCC will provide a template suitable for making IPR calls during 3GPP meetings.

    A page had been created on the 3GPP website, which pointed to the IPR declarations of 3GPP Organizational Partners. It was proposed that once links have been established with all 3GPP Organizational Partners, the page could be considered as the "IPR Register" referred to under Article 55 of the Working Procedures. PCG approved the proposal that the IPR Register referred to under Article 55 of the Working Procedures to be considered as the 3GPP web page, which points to the IPR declarations recorded by each 3GPP Organizational Partner.

10. The next PCG meeting will take place in California (probably in San Francisco) on 14 November 2000.

5.3 Liaison Rapporteurs' reports

No written contributions had been provided under this agenda item. Short verbal reports were given by:

- John MUDGE (on RAN3 meeting; Iur standardisation),

- Michael TRUSS (on TMF; no meeting since last SA5 plenary),

- Geoff CARYER (on ITU-T SG4 Q24; Liaison to ETSI for forwarding to 3GPP on the use of CORBA in the TMN),

- Albert YUHAN (GSMA / IMT-2000 steering group & SERG meetings on the LS to SA expressing the operators' viewpoint that "Service Management" should be dealt with at the beginning of the standardisation process),

- Albert YUHAN (T1M1 meeting attended as SA5 representative; CORBA alignment with 3GPP & work start on TML; Telecom version of XML);

- Thaddeus KOBYLARZ from AT&T Wireless Services (on the need for 3GPP SA5 & IETF AAA Group liaison). See also section 6.4

- Jörg SCHMIDT from Motorola (on 3GPP2).

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 ITU-T, T1M1 and 3GPP

6.1.1   ITU-T SG4 on the use of CORBA in the TMN

S5-000357	Report of Joint Meeting of Questions 14/4, 15/4, 18/4 and 19/4 on the use of CORBA in the TMN (Torrance, California CORBA Experts Meeting, 14-17 August 2000)	ITU-T SG4 (Geoff CARYER)
S5-000358	Liaison to ETSI for forwarding to 3GPP on the use of CORBA in the TMN	ITU-T SG4 (Geoff CARYER)

SA5 forwarded the two documents to CM 9.3 & FM 9.4 RGs for consideration and for proposing to the SA5 plenary a reply to ITU-T.

6.1.2   T1M1 on the alignment of T1M1 and 3GPP CORBA specifications

S5-000423	Reply to: Proposal to Align T1M1 and 3GPP CORBA Specifications	Michael FARGANO (T1M1 Chairman) mfargan@qwest.com

The Chairman forwarded at the end of the SA5#14 meeting the document to the SA5 plenary and to the CM 9.3 & FM 9.4 RGs for consideration. The Secretary was asked to send - after the SA5#14 meeting - a reply on behalf of the SA5 Chairman (cc: Edwin TSE, Ericsson) to T1M1.

6.2   T2 (MExE) on UE / Terminal Management

S5-000377	LS on Terminal Management	T2 SWG1 (MExE) tim.costello@bt.com

SA5 forwarded the document to AR 9.1 RG for consideration and for proposing to the SA5 plenary a reply to T2 (MExE).

6.3   T1M1.5 on Coarse-grained interfaces uploaded

S5-000379	Contribution on Support for Coarse-grained interfaces uploaded	T1M1.5 (Keith Allen, kallen@tri.sbc.com)

SA5 forwarded the document to CM 9.3 & FM 9.4 RGs for consideration and for proposing to the SA5 plenary a reply to T1M1.5.

6.4   IETF on the need for 3GPP SA5 & IETF AAA Group liaison

S5-000393	Need for SA5/IETF AAA Group liaison	AT&T Wireless Services (t.kobylarz@attws.com)

This document was already presented in the CH 9.2 RG in the category "Charging event data and its protocol(s)".

Document Summary:

- Because 3G wireless systems will utilise an "all-IP" architecture, 3GPP and IETF specifications alignment is mandatory. This contribution argues that a liaison relationship can provide valuable assistance in aligning the category of charging event data and its protocol(s) for these two organisations.

Specification(s) involved:

- Release 2000 successor(s) to 3G charging call event data (3G TS 32.105) and its solution set.

Background information:

- The IETF AAA (Authentication, Authorisation and Accounting) working group is currently preparing seven Internet drafts. Topics of these drafts include accounting attributes and record formats, the state of the art in accounting

protocol design, and accounting features that are supported by existing potential accounting protocols.

Each of the preceding topics is relevant to Release 2000 of the 3G charging call event data and the solution set protocol. Consequently, an efficient means must exist to avoid disparities in the specifications generated by SA5 and AAA. The best means for doing this is a liaison relationship to report on each others current progress and thereby permit the mitigation of differences as early as possible.

It is therefore proposed that a liaison volunteer be sought from the SA5 Charging RG to participate in the AAA working group as well. The liaison's responsibility will be to report on the activities of a group at the meetings of the other group, and conversely.

SA5 appointed Thaddeus KOBYLARZ (AT&T Wireless Services), the just appointed new Charging Group Rapporteur, as IETF AAA Group liaison rapporteur.

6.5   3GPP CN1, SA2 on 2G/3G QoS profiles (24.008, 23.107)

S5-000396	Answer (to: SA5, cc: SA2) to LS on 2G/3G QoS profiles (N1-001040)	CN1 dieter.jacobsohn@t-mobil.de

Document Summary:

CN1 thanked SA5 for its LS (S5-000353 / S5B000031 - dispatched on 2 Aug 00) and gave the following background for QoS IE coding:

1. CN1 has decided, that for compatibility reasons the 2G and 3G QoS parameter are both available in the QOS IE. To ensure the backwards compatibility with the older versions of the protocol, the 2G GSM GPRS QoS parameters (the first 5 octets) were kept in the IE when adding the 3G QoS contents.

2. A 2G-mobile or a 2G-network would ignore the 3G-information. An implementation (either network or ME), which supports the 3G QoS coding, should use primarily the 3G-related QoS octets.

3. 3G TS 24.008 (CN1) has to be compatible with all earlier versions of the protocol.

4. 3G TS 23.107 (S2) is a 3G-only specification and therefore not comparable.

5. The existing inconsistencies between 3G TS 23.107 and the 3G-part of QoS IE in 3G TS 24.008 will be clarified between SA2 and CN1.

SA5 forwarded the document to CH 9.2 RG for consideration and for proposing to the SA5 plenary a way forward / a reply if necessary.

6.6   3GPP SA2, CN4 on use of IP for security key distribution

S5-000395	LS to SA2 (cc: CN4, SA5) on use of IP for security key distribution (S3-000478)	SA3 Valtteri.Niemi@nokia.com

This is a continuation of a series of LS exchanged between CN4, SA2, SA3 and SA5 on Functions of Key Distribution and Key Administration for MAP security (S5-000139/147/154/173/223/225/280). The latest from SA5 being S5-000225.

Document Summary:

*   S3 is specifying core network signalling security mechanisms for UMTS R00.
    In the early phase of R00 the CN4 group has prepared specifications for secure transport of MAP dialogues (so-called layer 3 of MAP security in 3G TS 33.102).
    To be able to support this, a security key management mechanism is under development in S3 (so-called layers 1 and 2 of MAP security).

*   For key distribution from Key Administration Centre (KAC) to all core Network Elements (NEs) in the same PLMN (layer 2) an IP-based solution is being developed by S3. Therefore, S2 is kindly asked to check that:

    All UMTS R00 core Network Elements (NEs) support the IP protocol at least for communication with the KAC.

SA5 noted the LS and forwarded the document to AR 9.1 RG for consideration and for proposing to the SA5 plenary a way forward / a reply if necessary.

SA5 noted that it has some responsibility for security management (less than 5% of the work load), however the bulk of the work is actually happening in SA3.

Michael TRUSS and John MUDGE were asked to establish an informal liaison with SA3. Their task would be to discuss on SA3's plans and SA3's views about the role SA3 envisages for SA5 to play.

7 Discussions and decisions on administration issues

7.1 Work plan

The Chairman asked:

- AR/PR RG to review the IGC work plan on SA5 related issues; and

- all the RGs to review the WI descriptions under their ownership and to submit to the closing plenary revised WI descriptions for R00 (R4/R5).

S5-000386	Features, Building Blocks and Work Tasks	AR/PR Group

SA5 agreed to use the framework of Features, Building Blocks and Work Tasks described in S5-000386 when drafting R4/R5 work item descriptions.

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                        F e a t u r e s

    ┌────────┐   ┌────────┐   ┌────────┐   ┌────────┐   ┌────────┐
    │   UE   │   │   SO   │   │  IPM   │   │  RAN   │   │  CNM   │
    └────────┘   └────────┘   └────────┘   └────────┘   └────────┘
        ┌──────────────┐              ┌──────────────┐
        │    MexE      │              │    KADM      │
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                  B u i l d i n g     B l o c k s

   ┌──────────┐   ┌──────────┐   ┌──────────┐   ┌──────────┐   ┌──────────┐
   │  AR/PR   │   │   FM     │   │   CM     │   │   PM     │   │   CH     │
   │ (32.101, │   │ (32.111) │   │ (32.106) │   │ (32.104) │   │ (32.105) │
   │ 32.102)  │   │          │   │          │   │          │   │          │
   └──────────┘   └──────────┘   └──────────┘   └──────────┘   └──────────┘

                    W o r k     T a s k s

      Principles        Requirements       Solution Set
       Stage 1             Stage1            Stage 3
              Architecture                         Information Model
                Stage 1                               Stage 2
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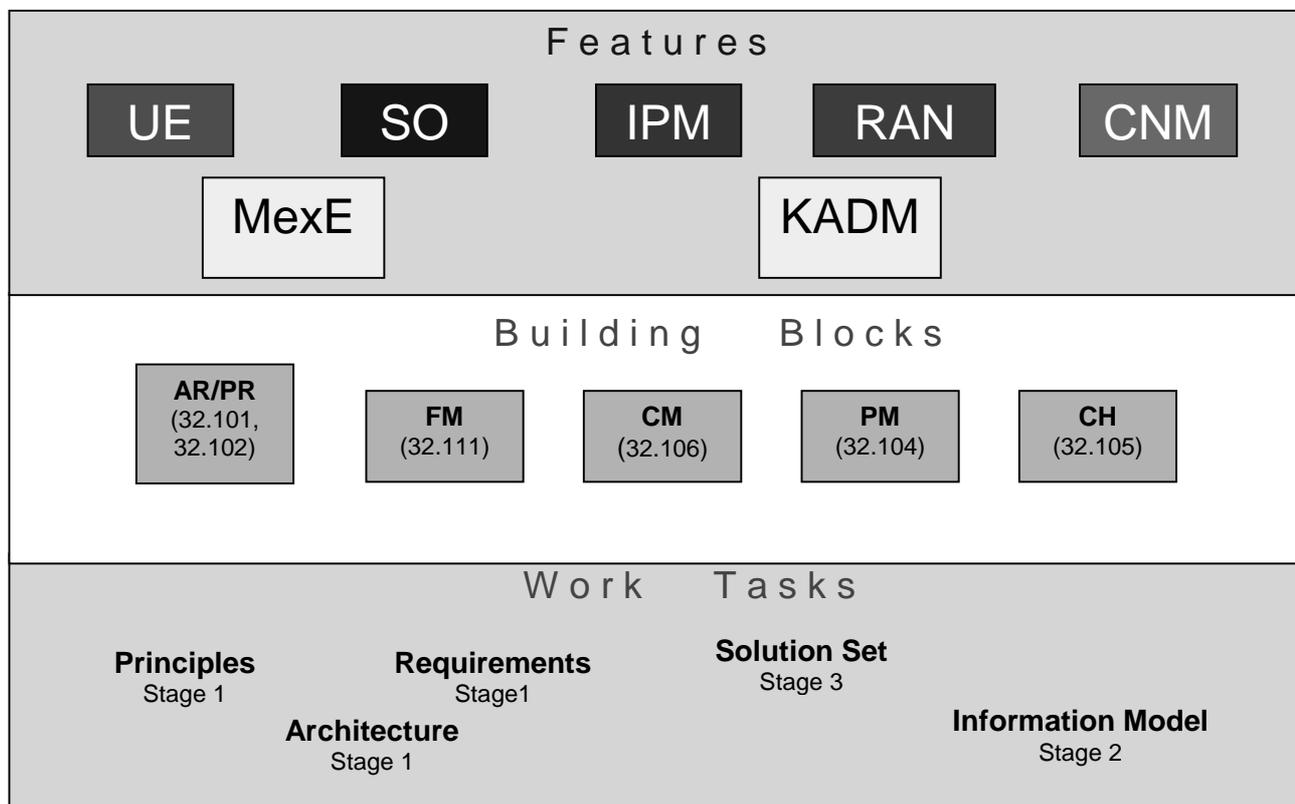
NOTE: Features and Building Blocks should have work item descriptions.
          Building Blocks will be related to one or more features.
          Building Blocks have specific work tasks of generic type (e.g. CM CMIP Solution Set).
Figure 1: SA5 Work Item Framework

S5-000391	3GPP Work Management, Release Planning and Vision	Steve MECROW (BT)

This BT contribution to the SA#9 meeting was circulated with a view to giving it early visibility. The document addresses the current activities within 3GPP and proposes:

"that a new permanent group is established to report to TSG SA, tasked to develop and maintain:

1. a Longer Term (3 to 5 year) Vision for the 3G system specified by the 3GPP;

2. a Release Plan describing the scope and timing of 3GPP Specification Releases leading towards the Vision;

both as 3GPP wide activities.

The new group is intended to progress the work initiated at the February 2000 workshop (all-IP) and the recent Work Planning meeting in August 2000 in Finland."

Note that it is not proposed to include the detailed work planning and co-ordination activities currently performed by the ICGs within the new group.

7.2   Other administrative issues

FM Rapporteur

- Mr Patrick JURÉ, nominated by Lucent, was appointed at SA5#13 to be the new Fault Management Group Rapporteur to be effective after SA5#13 (Washington, D.C., USA) meeting.

CH Rapporteur

S5-000394	Nomination of Thaddeus KOBYLARZ as CH Rapporteur	AT&T Wireless Services

- Dr Thaddeus KOBYLARZ, nominated by AT&T Wireless Services, was appointed at SA5#14 to be the new Charging Group Rapporteur to be effective after SA5#15 (Anchorage, USA) meeting.

  SA5 warmly thanked AT&T Wireless Services for the allocated voluntary resource.

- Karl-Heinz NENNER (T-Mobil), who volunteered to be temporary Rapporteur of the CH group, will chair the present and the next (SA5#15) CH RG sessions.
  At the end of SA5#15 Karl-Heinz NENNER will handover the Chairmanship to Thaddeus KOBYLARZ.

  SA5 warmly thanked Karl-Heinz and T-Mobil for the temporarily allocated resource.

8   Cross-work item technical discussions

S5-000392	Perspective on Software Download and Reconfiguration: Project TRUST (**T**ransparently **R**e-configurable **U**biquitou**S T**erminal)	Nicola.Greco@motorola.com

Document Summary:

The TRUST project (http://www.ist-trust.org) belongs to the Information Society Technologies programme, a major theme of research and technological development within the European Union's Fifth RTD (Research, Technological development and Demonstration) Framework Programme (1998-2002).

The Partners in the TRUST project are: Siemens (which is project co-ordinator), France Telecom, CSEM, King's College London, Motorola, Panasonic, Bosch, Telefonica, Toshiba, Tecnologías de Telecomunicaciones y de la Información, University of Bristol, University of Southampton.

The primary objective of the TRUST project is to "Realise the User Potential of Re-configurable Radio Systems".

Innovative Elements in the TRUST project are:

1. To define re-configurability seen from the user;

2. To investigate major technology aspects as a whole
   (RF, Transceiver Algorithms, Power Management, Adaptive Baseband, Scalable Coding, etc.);

3. To study the whole re-configurable radio system and network approach and impact on the terminal - Define framework for future software radio systems;

4. To study security aspects for the software download.

The TRUST project's structure is divided into Five Work Packages:

WP1: Project Management

WP2: User Assessment and QoS Requirements

WP3: Enabling Technologies

WP4: System Aspects of Software Defined Radio (SDR)

WP5: Standards and Dissemination

E.g. WP4: System Aspects of SDR covers System Aspects for all Future Software Radio Systems:Mechanisms for System Interworking:

- Advanced spectrum sharing techniques

- Alternative mode identification and monitoring

- Mode switching

- Download channel schemes with security management aspects

- Introducing a Framework for Compliance:

    - Providing standard hooks for 4G and new systems

    - Providing a path for upgrading legacy systems (2G, 3G)Over-the-air Software Download

- 3GPP MExE

    - framework to ensure a predictable environment for third-party applications in GSM and UMTS handsets

    - Download of Applications, Data and Content

    - Classmarks

- Software Defined Radio (SDR) Forum (with whom 3GPP has an official liaison: http://www.3gpp.org/PCG/liaisons.htm)

    - Radio Specific Software

    - Software Configuration

Conclusion / Future Work of the TRUST project:

- What can be standardised:

    - Network Architecture and Protocols to support Reconfiguration

    - The Security System Architecture and a detailed protocol specification for secure software downloading and access authentication

SA5 congratulated Nicola GRECO (Motorola, TRUST project representative) for the good and very clear presentation.

SA5 noted that TRUST was anticipating the MExE presentation to be held by Mark CATALDO (Motorola), T2 MExE representative at SA5#15 in Alaska.

SA5 noted the presentation and forwarded it to AR 9.1 RG for consideration in the context of T2 (MExE), UE & Service Operations Management and for proposing to the SA5 plenary a way forward.

9   Work item Rapporteur Group reports and actions

9.1   S5.AR/PR (32.101, 32.102, 32.140, S5 TR01)

Rapporteur: Michael TRUSS (MOTOROLA)

S5-000384	Architecture & Principles Rapporteur session Report	PR Rapporteur (Michael TRUSS)

SA5 noted the above report and approved the following output documents:

S5-000386	Features, Building Blocks and Work Tasks	AR/PR Group

SA5 agreed to use the framework of Features, Building Blocks and Work Tasks described in S5-000386 when drafting R4/R5 work item descriptions. For details see section 7.1 of the present document.

S5-000390	Proposed Work-plan for SA5	AR/PR Group

SA5 approved the R4/R5 proposed Work-plan for SA5 for submission to SA#9 for Information and to IGC for implementation.

S5-000385	R5 Work Item Proposal: "Principles, high level Requirements and Architecture" (32.101/32.102)	AR/PR Group
S5-000387	R5 Work Item Proposal: "Subscription Management"	AR/PR Group
S5-000389	R5 Work Item Proposal: "UTRAN Operations and Maintenance procedures"	AR/PR Group

SA5 agreed the above Work Item (WI) Proposals for submission to SA#9 for approval.

9.1.1 Service Operations Management/Subscription Management

SA5 decided at its last meeting (SA5#13 in Washington) to formally agree the 32.140 Service Operations Management work item description at the present meeting (SA5#14 in Milan) for subsequent submission to SA#9 for approval.

On 32.140 Service Operations Management, AR RG agreed not to forward this WI proposal to SA5 at this point. AR RG agreed to focus instead on Subscription Management and submitted a work item proposal to SA5 in S5-000387.

SA5 agreed this course of action and agreed the WI Proposals for submission to SA#9 for approval (see section 9.1 above).

9.1.2 User Equipment (UE) Management

SA5 agreed that it should initially only identify the requirements of User Equipment (UE) Management.
A 32.102 CR to add detail to the already existing placeholder on User Equipment (UE) Management would best address this.

9.1.2.1 Project TRUST (**T**ransparently **R**e-configurable **U**biquitou**S** **T**erminal)

S5-000392	Perspective on Software Download and Reconfiguration: Project TRUST (**T**ransparently **R**e-configurable **U**biquitou**S** **T**erminal)	Nicola.Greco@motorola.com

This presentation gives an overview of the work of the TRUST project, elements of which may be of interest to SA5 when considering the area of Terminal Management. For details see section 8 above.

A better understanding of the current capabilities of MExE was given by the Nicola GRECO, which raises important questions such as: "Does MExE offer the ability to download software other than application software to the UE?"

9.1.2.2 Liaison on UE/Terminal Management from T2 (MExE)

S5-000377	LS on Terminal Management	T2 SWG1 (MExE) tim.costello@bt.com

T2 (MExE) "would like to bring to the attention of S5, the existence of certain terminal management possibilities provided through the MExE framework". T2 MExE suggests to SA5 that a separate O&M infrastructure is not required to achieve Terminal Management and that the existing MExE infrastructure could be used. T2 MExE offered to co-operate with SA5.

A liaison response was drafted in S5-000388.

S5-000388	Liaison response to T2 (MExE) on Terminal Management	AR/PR Group

SA5 approved the above LS response to T2 (MExE).

Document Summary:

SA5 acknowledges that MExE appears to be a good candidate to be used as a Terminal Management infrastructure.

SA5 would like to learn more about the MExE capabilities and invites a representative from T2 (MExE) to attend SA5#15.

SA5 would like to further elaborate at SA5#15 its requirements for Terminal Management and discuss with T2 (MExE) the possible roles of each group in achieving this challenging feature.

SA5 have identified an R5 feature named "User Equipment Management", however detailed work item descriptions for this feature will not be completed prior to the SA5#15 meeting in October 2000 in Anchorage, Alaska.

SA5 contacts are Geoff CARYER (BT) and Michael TRUSS (Motorola).

9.1.2.3   TMF Mobile Market Centre (MMC) Terminal Management

SA5 agreed at its last meeting (SA5#13 in Washington) that:

- Contributions from TMF should be received from companies, which are member of both TMF and 3GPP.
  These companies should also provide the 3GPP-required IPR declaration.

- In the area of Terminal Management there was scope for co-operation between TMF MMC and SA5.
  It was agreed at the joint 3GPP SA5/TMF MMC meeting to exchange contributions in this area.

- An immediate action was on TMF MMC to contribute the first draft of its Terminal Management Project description for submission to SA5#14 in Milan.

- SA5 (AR/PR RG) would review this draft and feedback comments to TMF MMC prior to their next meeting (13 Nov 2000 in Chicago).

S5A000033	TMF Mobile Terminal Equipment Management Project Charter	Orange UK (Ian BEST)

The first draft of the TMF's Terminal Management Project description was reviewed and comments were inserted. These comments were sent back informally to the author of the document, Orange UK (Ian BEST).

The Chairman pointed out the positive and fruitful relationship between TMF MMC and 3GPP SA5.
 SA5 should take this as a good example for other SA5-external relations.

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

Temporary Rapporteur: Karl-Heinz NENNER (T-Mobil)

New Rapporteur after SA5#15 meeting: Thaddeus KOBYLARZ (AT&T Wireless Services)

S5-000397	Charging (CH) Rapporteur session Report (S5B-000041)	CH Rapporteur (Karl-Heinz NENNER)

SA5 noted the above report.

9.2.1 CRs to PS Charging (32.015)

SA5#13 in Washington provisionally agreed for submission to SA#9 for approval the following R99 CRs to 32.015.

S5-000354	32.015 CR: Miscellaneous detail clarifications to chapter 7 (S5B000028)	CH Group
S5-000355	32.015 CR: Miscellaneous detail clarifications and corrections to version 3.2.0 (S5B000029)	CH Group
S5-000356	32.015 CR: Clarification for QoS parameters (S5B000032)	CH Group

No comment has been received and SA5#14 gave the final agreement to the draft CRs for submission to SA#9 for approval.

9.2.2 Fair charging (32.015)

S5.CH had asked the SA5 Chairman to request for more information on the fair charging matter directly from SA2, so that the background of the "fair charging" mechanism can be understood.

In the meantime a direct contact has been established and the CH Rapporteur has forwarded the S5.CH questions to SA2.

A reply from SA2 is still outstanding.

9.2.3 Clarification for QoS parameters (SA2 - 23.107, CN1 - 24.008)

S5-000353	LS from SA5 to CN1, SA2 on "2G/3G QoS profiles" (S5B000031)	SA5

SA5#13 in Washington has sent the above LS to SA2 and CN1.

S5-000396	Answer (to: SA5, cc: SA2) to LS on 2G/3G QoS profiles (N1-001040)	CN1, dieter.jacobsohn@t-mobil.de

The reply received from CN1 indicates that there are some issues to be clarified between CN1 and SA2 concerning the QoS profiles and the TSs describing them (23.107 and 24.008). For further details see section 6.5 of the present document. CH RG noted the LS. The outcome of the above clarification will be awaited before any further action is taken.

9.2.4 Inter-system handover QoS issues (23.107, 24.008)

SA5.CH is investigating how the change of a PDP context from 2G to 3G and vice-versa would work within an SGSN (i.e. an air interface change from 2G to 3G and vice-versa within the same SGSN).

9.2.5 SA5/IETF AAA Group liaison

SA5 appointed Thaddeus KOBYLARZ (AT&T Wireless Services), the just appointed new Charging Group Rapporteur, as IETF AAA Group liaison rapporteur. For further details see section 6.4.

9.2.6 Release 2000 work plan on Charging

SA5.CH identified the following work items for its Release 2000 work plan to be attached to the Charging Building Block:

1. Charging Characteristics in the CN nodes (WI proponent: T-Mobil)

2. Optimisation of charging triggers in the NEs, e.g. for enhanced charging related QoS management (Ericsson)

3.　Extension of charging functionality to accommodate UE management related charging aspects (Nortel)

4.　Service related charging (Siemens)

5.　Real time CDR generation and transfer to support prepaid (AWS)

Work item descriptions should be provided by the proponents at the next SA5 meeting for submission to SA#10 for approval.

SA5 noted that the last item above would result in the standardisation of a second technical solution providing a prepaid functionality, which can already be implemented using CAMEL. The proposal was motivated by the view that not all operators would favour CAMEL as their preferred option to implement prepaid charging.
SA5 agreed that it was beyond its scope to establish a requirement for the standardisation of a non-CAMEL prepaid solution. The GSM Association would need to establish such a requirement.
AWS, as the work item proponent, should clarify with the GSM Association the need for a non-CAMEL prepaid solution.

9.2.7　Open S5.CH issues from the last meeting

SA5 noted some major open / pending S5.CH issues from the last meeting (SA5#13 in Washington):

- The finalisation date for 3G TS 32.015 was SA5#14 (Sept 2000) & for 3G TS 32.005 it is still SA5#16 (Dec 2000).

- To update 3G TS 32.005 (GSM call and event data for the CS domain) in order to create a first stable version for R99.

- To submit to SA#9 a CR against either 12.05 or 12.71 for the inclusion of "GSM LCS Charging – CDR definition".

9.2.8　Next S5.CH meeting

Some delegates travel to SA5 meetings only for participation in the SA5 Charging RG session. Therefore S5.CH agreed to look for an arrangement for the next meeting that would save the excessive travel effort for those delegates (Alaska), while at the same time allowing S5.CH delegates wishing to participate in other RG sessions to travel to the main venue after the end of the CH RG session. Consequently S5.CH tentatively decided to have its next meeting from 16-17 October 2000 (two full days) in Seattle, USA, hosted by AWS, pending final confirmation by the host.

In case this arrangement cannot be confirmed by AWS, then the S5.CH meeting will take place in Alaska (1,5 days).

SA5 exceptionally agreed that an RG is meeting in parallel with the main SA5 meeting in a different geographic location.

9.3 S5.CM Configuration Management (32.106-x)

Rapporteur: Thomas TOVINGER (Ericsson)

S5-000412	SA5#13bis CM meeting report	CM Rapporteur (Thomas TOVINGER)
S5-000421	Revised SA5#14 Configuration Management (CM) meeting report	CM Rapporteur (Thomas TOVINGER)

SA5 noted the above reports.

9.3.1   32.106-x (Release 99)

S5-000414	32.106-3 CR 001: Add pragma statement to Notification IRP IDL	CM

SA5 agreed for submission to SA#9 for approval the above R99 CR to 32.106-3 (Notification Integration Reference Point; CORBA solution set version 1:1).

S5-000417	3G TS 32.106 Part 5 Version 3.0.1e	CM

Part 5 of 3G TS 32.106 (Basic CM IRP: Information Model version 1) was provided for submission to SA#9 for Information.

Two parts (6 & 7 on Basic CM IRP CORBA/CMIP Solution Sets version 1:1) are still missing from the multi-part 3G TS 32.106 (8 parts in total). SA5 plans to have all eight (8) parts under SA change control by the end of year 2000.

9.3.2   Support for Coarse-grained interfaces uploaded (T1M1.5)

S5-000416	Response to S5-000379 "Contribution on Support for Coarse-grained interfaces uploaded, Source: T1M1.5 (kallen@tri.sbc.com) September 2000"	CM

SA5 approved the above LS reply to be submitted to T1M1.5 by Edwin TSE (Ericsson), the SA5 contact.

9.3.3   Use of CORBA in the TMN (ITU-T SG4 and T1M1.5)

S5-000422	Responses to ITU-T WP 4/4 and 5/4 (CC: T1M1.5) on "Liaison statements from ITU-T SG4 to ETSI for forwarding to 3GPP on the use of CORBA in the TMN"	CM

SA5 approved the above LS reply to be submitted to ITU-T by Ericsson (on behalf of ETSI/ 3GPP SA5).
Geoff CARYER (BT) and Edwin TSE (Ericsson) were assigned as the SA5 contacts.

9.3.4   Progress of CM work

SA5 decided that an "informal information exchange among interested parties" over the SA5 exploder list could be initiated in order to reduce the backlog of work (not considered contributions, R00 work plan) in order to pave the way for S5.CM to submit concrete proposals for SA5 decision at the next meeting.

9.4   S5.FM Fault Management (32.111-x)

Rapporteur: JURÉ Patrick (Lucent Technologies)

S5-000418	Revised SA5#14 FM meeting report	FM Rapporteur (Patrick JURÉ)

SA5 noted the above report.

9.4.1   32.111-x (Release 99)

S5-000401	32.111-3 CR 01: update Iterator S5F000078
S5-000402	32.111-3 CR 02: Clarification On Filterable Body Fields S5F000082
S5-000403	32.111-3 CR 03: Correct push_structured_event of push_structured_events S5F000085
S5-000404	32.111-2 CR 01: Correction of qualifier for SystemDN S5F000086
S5-000406	32.111-1 CR 02: Clarification On Clear Alarm Suppression S5F000091
S5-000407	32.111-1 CR 01: Clarification On Mediation Function Algorithms S5F000092
S5-000408	32.111-3 CR 04: Remove the use of interface to encapsulate const strings S5F000093
S5-000409	32.111-2 CR 03: Addition of a missing constraint in acknowledgeAlarm operation S5F000094

SA5 agreed for submission to SA#9 for approval the above R99 CRs to 32.111-1, 2 and 3. The proposed editorial CR in S5-000405 has been withdrawn and the editorial changes should be done by MCC.

9.4.2   R00 (R4/R5) content of TS 32.111 (FM)

S5-000419	SA5 FM Work item for R4/R5	FM

SA5 agreed the above Work Item (WI) Proposals for submission to SA#9 for approval.

S5.FM have identified the following topics for R4:

- Enhancement of FM IRP IS with inclusion of an information model, and more formal operations specifications including pre and post conditions

- Specification of new features like a SetComment operation and the support of trouble ticketing on Itf-N

S5.FM have identified the following topics for R5:

- Alignment effort to align as much as possible CORBA Solution Set with T1M1.5 CORBA Framework

- Specification of a storage mechanism for alarms

- Support of test management

- Support of security alarms

- Study of Q.821 to check for possible alignment of existing features in 32.111-2 with Q.821 and for possible enhancements of 32.111-2 based on Q.821

- Study the impact of IP on fault management

- Study of alarm correlation on network management and its impact on Itf-N

- Study of an additional Solution Set using XML technology

9.5   S5.PM Performance Management (32.104)

Rapporteur: Karl-Heinz NENNER (T-Mobil)

S5-000420	Revised Performance Management (PM) Rapporteur session Report	PM Rapporteur (Karl-Heinz NENNER)

SA5 noted the above report.

9.5.1   32.104 (Release 99)

S5-000399	32.104 CR: Clarification of the table oriented structure of the file format, and addition of ASN.1 example, according to annex D (S5P000029)	PM

SA5 agreed for submission to SA#9 for approval the above R99 CR to 32.104.

9.5.2   R00 (R4/R5) content of TS 32.104 (PM)

S5.PM agreed on the following group of work items for PM R4 and R5, which constitutes the complete PM work plan until the end of R5:

❑ PM Monitoring:

1. Define the functional requirements for the generation of performance alarms for the standard measurement set specified in TS 32.104;

2. Provide functionality for the control and configuration of performance thresholds;

3. Specify an Itf-N component that performs the forwarding of the performance alarms;

4. Investigate (near) real time measurement and result reporting for specific problem analysis.

❑ File format enhancements. The scope of this work item is widened to "enhancements for file format, contents and transfer". It encompasses:

1. Non-3G-standard measurement results to be contained in the PM files;

2. Ability to select measurement results that are included in the PM files;

3. Control of the transfer of PM result files from the network to the NM.

❑ Plug&Measure

- This WI encompasses the scoping of measurements inside a node, which would automatically reconfigure the measurement when a scoped resource is added or removed.

❑ Measurement type definitions

- This WI comprises the specification of the 3G standard measurement set.

SA5 provisionally agreed to this work plan and asked S5.PM:

1. to fill-in the Work Item descriptions for agreement by SA5 and subsequent submission to SA#10 for approval;

2. for the identified WIs, to define the relationship to the Features, Building Blocks and Work Tasks in the IGC work plan.

9.2.8   Next S5.PM meeting

S5.PM was investigating if their next meeting could take place on the 11-12 October (just before the next SA5 plenary), either in Seattle, USA or in Vancouver, Canada. This arrangement would allow the maximum number of participants to join.
It would also provide more time than holding the meeting during the main SA5 session.

In case this arrangement cannot be confirmed, then the S5.PM session will take place on the Wednesday and Thursday during the next SA5 meeting in Alaska.

SA5 exceptionally agreed that an RG is not meeting during the week of the SA5 plenary.

10   Any other business

None.

11   Scheduling of future meetings

Meeting	Date	Location	Host
SA5 #15	16 - 20 Oct 2000	Girdwood, Alaska, USA	3GPP North American friends
SA5 #16	27 Nov - 1 Dec 2000	Tokyo, Japan	NTT DoCoMo
SA5 #17	22 – 26 Jan 2001	Seattle (tbc)	AT&T Wireless
SA5 #18	26 Feb – 2 Mar 2001		
SA5 #19	2 - 6 Apr 2001		
SA5 #20	28 May - 1 Jun 2001		
SA5 #21			
SA5 #22			
SA5 #23			
SA5 #24			
----- Related meetings (for information) ------			
TSG#9	20 – 28 Sep 2000	Hawaii, USA	T1
TSG#10	06 - 14 Dec 2000	Bangkok, Thailand	Unisys Deutschland
PCG#5	14 Nov 2000	T1	North America
OP#4	15 Nov 2000	T1	North America
TSG#11	14 - 22 Mar 2001	USA	
TSG#12	13 - 21 Jun 2001	Europe (Sweden ?)	
TSG#13	26 Sep - 4 Oct 2001	TBD	
TSG#14	12 - 20 Dec 2001	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 15 September 2000 at 15:36 hrs local time by thanking all delegates for their active contributions.
On behalf of all the meeting participants, the Chairman expressed gratitude to the generous host Siemens ICN SpA, ITALY, and specifically to Gaetano CICCHITTO for the excellent meeting facilities and for the social event on Thursday evening.

Annex A: List of Participants

Attendee	Name	Individual Member	PO
ANDERSSON	Håkan	Ericsson	ETSI
BERGGREN	Tommy	Telia AB	ETSI
BODEN	Bert	Mannesmann	ETSI
CARYER	Geoff	BT	ETSI
CICCHITTO	Gaetano	Siemens ICN SpA	ETSI
ENGELHART	Bob	ATT	T1
FUCCELLARO	Jean-Louis	FTR&D France Telecom	ETSI
GEERS	René	Telenor	ETSI
GOERMER	Gerald	Siemens AG	ETSI
GRECO	Nicola	Motorola U.K.	ETSI
HEINONEN	Martti	Nokia	ETSI
HIJDRA	Martijn	Mannesmann	ETSI
HIRSCH	Lucian	Siemens AG	ETSI
HUBINETTE	Ulf	Ericsson	ETSI
HUTH	Jörg	Siemens AG	ETSI
JURÉ	Patrick	Lucent Technologies	ETSI
KHAN	Taimoor	Nortel Networks	T1
KNUDSON	Dale	Lucent Technologies	ETSI
KOBYLARZ	Thaddeus	ATT	T1
MILEVOY	Alan	Nortel Networks	T1
MUDGE	John	Vodafone Group	ETSI
NENNER	Karl-Heinz	T-Mobil	ETSI
NOUIRA	Habib	Alcatel France	ETSI
PAL	Tapinder	T-Mobil	ETSI
PAMIO	Andrea	TIM Telecom Italia	ETSI
SAVOLAINEN	Jarmo	Ericsson	ETSI
SCHEER	Randall	Lucent Technologies	ETSI
SCHMIDT	Jörg	Motorola	T1
SIDA	Samuel	ADC	ETSI
SIDOR	David	Nortel Networks	T1
SNOECK	Wim	Siemens AG	ETSI
SORBIER	Jean	Nortel Networks	ETSI
TAKEUCHI	Yutaka	NTT DoCoMo	TTC
TAKKU	Ari	Sonera Ltd.	ETSI
TOCHE	Christian	Nortel Networks	ETSI
TOVINGER	Thomas	Ericsson	ETSI
TRUSS	Michael	Motorola U.K.	ETSI
TSE	Edwin	Ericsson	T1
WILBER	John	ATT	T1
YUHAN	Albert H.	VoiceStream Wireless	T1
ZAKHAMA	Nabil	Bouygues Telecom	ETSI
ZHOU	Di	Siemens AG , Austria	ETSI
ZOICAS	Adrian	ETSI	ETSI

Number of Attendees: 43

NOTE 1:   The List of 3GPP Individual Members **c**an be consulted at http://www.3gpp.org/Participation/3GPP_IM.htm

NOTE 2:   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	
3	Agenda approval	_s5_14_agenda
4	Document registration and attribution	_s5DocLst
5	Meetings and activities reports	
	5.1 Last SA5 meeting report	rep-S5-13-v10
	5.2 TSG-SA meeting report	359 (PCG report),
	5.3 Liaison rapporteurs reports	
	5.4 Other reports	
6	Discussions and decisions on inter-organizational issues	357, 358 (ITU-T SG 4 Geoff), - recs from CM/FM 379 (T1M1), - recs from CM/FM 393 (AT&T Wireless), Thaddeus nominated as ext liaison rapp to IETF AAA 377 (T2 MExE), - prepare LS reply AP/PR (BT, Motorola contact) 395 S3-000478 – S3 will do the work 423, Align T1M1 and 3GPP CORBA Specifications
7	Discussions and decisions on administration issues	
	7.1 Work plan	391 (BT), 386 (AR/PR Truss), RGs to prepare R4/5 WI descrptions
	7.2 Other administrative issues	394 Letter nominating Thaddeus as CH Rapporteur
8	Cross-work item technical discussions	392, TRUST project - recs from AR/PR Registration of objects (Gaetano), - recs from CM/FM.
9	Work item rapporteur group reports and actions	378, 380,
	9.1 S5.AR/PR rapporteur group	365, 366, 377, 383, 386, 392, 384, 385, 387, 388, 389, 390, 384, Rapp Truss, 385, WI 32101/2, agreed for SA approval 390, Proposed Work-plan for SA5, approved for SA info/IGC 387, R5 Work Item Proposal: "Subscription Management", agreed for SA approval 388, Liaison response to T2 (MExE) on Terminal Management, approved 389 R5 Work Item Proposal: "UTRAN Operations and Maintenance procedures", agreed for SA approval
	9.2 S5.CH rapporteur group	354, 355, 356,360, 361, 362, 363, 364, 397, 354, 355, 356, agreed for SA approval
	9.3 S5.CM rapporteur group	368, 369, 370, 371, 372, 379, 358 (ITU-T SG 4 Geoff), 412, 413, 414, 415, 416, 417, 423, Align T1M1 and 3GPP CORBA Specifications
	9.4 S5.FM rapporteur group	373, 374, 375, 376, 381, 392, 379, 358 (ITU-T SG 4 Geoff), 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, , 418, 419, 423, Align T1M1 and 3GPP CORBA Specifications
	9.5 S5.PM rapporteur group	367, 398, 399, provisionally approved; subject to 1 week approval by correspondence
	9.6 S5.Ad Hoc groups (if any)	
10	Discussions and decisions on other business	
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 #13 Documents		
S5-000353	CH 9.2	LS from SA5 to CN1, SA2 on "2G/3G QoS profiles" (S5B000031)	SA5	Approved. Dispatched on 2 Aug 00
S5-000354	CH 9.2	32.015 CR: Miscellaneous detail clarifications to chapter 7 (S5B000028)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
S5-000355	CH 9.2	32.015 CR: Miscellaneous detail clarifications and corrections to version 3.2.0 (S5B000029)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
S5-000356	CH 9.2	32.015 CR: Clarification for QoS parameters (S5B000032)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
S5-000354	CH 9.2	32.015 CR: Miscellaneous detail clarifications to chapter 7 (S5B000028)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
S5-000355	CH 9.2	32.015 CR: Miscellaneous detail clarifications and corrections to version 3.2.0 (S5B000029)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
S5-000356	CH 9.2	32.015 CR: Clarification for QoS parameters (S5B000032)	CH Group	Provisionally agreed. Final agreement to be given at SA5#14.
		Meeting #14, Milano, ITALY, 11 – 15 September 2000		
S5-000357	6	Report of Joint Meeting of Questions 14/4, 15/4, 18/4 and 19/4 on the use of CORBA in the TMN (Torrance, California CORBA Experts Meeting, 14-17 August 2000)	ITU-T SG4 (Geoff CARYER)	
S5-000358	6	Liaison to ETSI for forwarding to 3GPP on the use of CORBA in the TMN	ITU-T SG4 (Geoff CARYER)	
S5-000359	5.2	Draft summary minutes, decisions and actions from 3GPP PCG#4 Meeting, Beijing, 17 July 2000 (PCG4_21)	MCC	
S5-000360	CH 9.2	GSM 1215-760	MCC	
S5-000361	CH 9.2	GSM 1271-700	MCC	
S5-000362	CH 9.2	GSM 1271-800	MCC	
S5-000363	CH 9.2	32005-310	MCC	
S5-000364	CH 9.2	32015-320	MCC	
S5-000365	AR 9.1	32101-320	MCC	
S5-000366	AR 9.1	32102-320	MCC	
S5-000367	PM 9.5	32104-320	MCC	
S5-000368	CM 9.3	32106-1-310	MCC	
S5-000369	CM 9.3	32106-2-310	MCC	
S5-000370	CM 9.3	32106-3-310	MCC	
S5-000371	CM 9.3	32106-4-310	MCC	
S5-000372	CM 9.3	32106-8-310	MCC	
S5-000373	FM 9.4	32111-1-310	MCC	
S5-000374	FM 9.4	32111-2-310	MCC	Revised - see S5-000381
S5-000375	FM 9.4	32111-3-310	MCC	
S5-000376	FM 9.4	32111-4-310	MCC	Revised - see S5-000382
S5-000377	AR 9.1 6	LS on Terminal Management	T2 SWG1 (MExE) tim.costello@bt.com	
S5-000378	9	GSM and 3GPP specifications under 3GPP SA5 responsibility	MCC	
S5-000379	CM 9.3 FM 9.4 6	Contribution on Support for Coarse-grained interfaces uploaded	T1M1. 5 (Keith Allen, kallen@tri.sbc.com)	
S5-000380	AR 9.1	Revised Service Operations Management – Roles Context Model	Geoff CARYER (BT)	
S5-000381	FM 9.4	32111-2-311	MCC	Replaces S5-000374
S5-000382	FM 9.4	32111-4-311	MCC	Replaces S5-000376
S5-000383	AR 9.1	Perspective on Software Download and Reconfiguration: Project TRUST (**T**ransparently **R**e-configurable **U**biquitou**S** **T**erminal)	Nicola.Greco@motorola.com	Revised - see S5-000392
S5-000384	AR 9.1	Architecture & Principles Rapporteur session Report	PR Rapporteur (Michael TRUSS)	Noted.
S5-000385	AR 9.1	R5 Work Item Proposal: "Principles, high level Requirements and Architecture" (32.101/32.102)	AR/PR Group	Agreed for SA approval
S5-000386	AR 9.1 7.1	Features, Building Blocks and Work Tasks	AR/PR Group	
S5-000387	AR 9.1	R5 Work Item Proposal: "Subscription Management"	AR/PR Group	Agreed for SA approval
S5-000388	AR 9.1	Liaison response to T2 (MExE) on Terminal Management	AR/PR Group	Approved. Dispatched on 15 Sep 00

S5-000389	AR 9.1	R5 Work Item Proposal: "UTRAN Operations and Maintenance procedures"	AR/PR Group	
S5-000390	AR 9.1	Proposed Work-plan for SA5	AR/PR Group	Agreed for forwarding to SA for info & IGC
S5-000391	7.1	3GPP Work Management, Release Planning and Vision	Steve MECROW (BT)	
S5-000392	AR 9.1 8	Perspective on Software Download and Reconfiguration: Project TRUST (**T**ransparently **R**e-configurable **U**biquitou**S** **T**erminal)	Nicola.Greco@motorola.com	Replaces S5-000383
S5-000393	5.3 6	Need for SA5/IETF AAA Group liaison	AT&T Wireless Services (t.kobylarz@attws.com)	
S5-000394	7.2	Nomination of Thaddeus KOBYLARZ as CH Rapporteur	AT&T Wireless Services	
S5-000395	6	LS to SA2 (cc: CN4, SA5) on use of IP for security key distribution (S3-000478)	SA3 Valtteri.Niemi@nokia.com	
S5-000396	CH 9.2 6	Answer (to: SA5, cc: SA2) to LS on 2G/3G QoS profiles (N1-001040)	CN1 dieter.jacobsohn@t-mobil.de	
S5-000397	CH 9.2	Charging (CH) Rapporteur session Report (S5B-000041)	CH Rapporteur (Karl-Heinz NENNER)	Noted.
S5-000398	PM 9.5	Performance Management (PM) Rapporteur session Report (S5P000031)	PM Rapporteur (Karl-Heinz NENNER)	Revised - see S5-000420
S5-000399	PM 9.5	32.104 CR: Clarification of the table oriented structure of the file format, and addition of ASN.1 example, according to annex D (S5P000029)	PM	Agreed for SA approval
S5-000400	5.1	Report of the 3GPP SA WG5 (Telecom Management) meeting #13 hosted by the North American friends of 3GPP in Washington D.C., USA, 24-28 July 2000	SA5 Secretary (Adrian ZOICAS)	Approved.
S5-000401	FM 9.4	32.111-3 CR 01: update Iterator S5F000078	FM	Agreed for SA approval
S5-000402	FM 9.4	32.111-3 CR 02: Clarification On Filterable Body Fields S5F000082	FM	Agreed for SA approval
S5-000403	FM 9.4	32.111-3 CR 03: Correct push_structured_event of push_structured_events S5F000085	FM	Agreed for SA approval
S5-000404	FM 9.4	32.111-2 CR 01: Correction of qualifier for SystemDN S5F000086	FM	Agreed for SA approval
S5-000405	FM 9.4	~~32.111-2 CR 02: Correction of some internal references S5F000087~~	~~FM~~	Withdrawn, editorial to be done by MCC
S5-000406	FM 9.4	32.111-1 CR 02: Clarification On Clear Alarm Suppression S5F000091	FM	Agreed for SA approval
S5-000407	FM 9.4	32.111-1 CR 01: Clarification On Mediation Function Algorithms S5F000092	FM	Agreed for SA approval
S5-000408	FM 9.4	32.111-3 CR 04: Remove the use of interface to encapsulate const strings S5F000093	FM	Agreed for SA approval
S5-000409	FM 9.4	32.111-2 CR 03: Addition of a missing constraint in acknowledgeAlarm operation S5F000094	FM	Agreed for SA approval
S5-000410	FM 9.4	SA5 FM Work item for R4/R5 S5F000096	FM	Revised - see S5-000419
S5-000411	FM 9.4	SA5#14 FM meeting report	FM Rapporteur (Patrick JURÉ)	Revised - see S5-000418
S5-000412	CM 9.3	SA5#13bis CM meeting report	CM Rapporteur (Thomas TOVINGER)	
S5-000413	CM 9.3	SA5#14 CM meeting report	CM Rapporteur (Thomas TOVINGER)	Revised - see S5-000421
S5-000414	CM 9.3	32.106-3 CR 01: Add pragma statement to Notification IRP IDL	CM	
S5-000415	CM 9.3	Responses to ITU-T WP 4/4 and 5/4 (CC: T1M1.5) on "Liaison statements from ITU-T SG4 to ETSI for forwarding to 3GPP on the use of CORBA in the TMN"	CM	Revised - see S5-000422
S5-000416	CM 9.3	Response to S5-000379 "Contribution on Support for Coarse-grained interfaces uploaded, Source: T1M1. 5 (kallen@tri.sbc.com) September 2000"	CM	
S5-000417	CM 9.3	3G TS 32.106 Part 5 Version 3.0.1e	CM	
S5-000418	FM 9.4	Revised SA5#14 FM meeting report	FM Rapporteur (Patrick JURÉ)	Replaces S5-000410
S5-000419	FM 9.4	SA5 FM Work item for R4/R5	SA5	Replaces S5-000411
S5-000420	PM 9.5	Revised Performance Management (PM) Rapporteur session Report	PM Rapporteur (Karl-Heinz NENNER)	Replaces S5-000398. Noted.
S5-000421	CM 9.3	Revised SA5#14 Configuration Management (CM) meeting report	CM Rapporteur (Thomas TOVINGER)	Replaces S5-000413. Noted.
S5-000422	CM 9.3	Responses to ITU-T WP 4/4 and 5/4 (CC: T1M1.5) on "Liaison statements from ITU-T SG4 to ETSI for forwarding to 3GPP on the use of CORBA in the TMN"	CM	Replaces S5-000415. Dispatched on 15 Sep 00
S5-000423	CM 9.3 FM 9.4 6	Reply to: Proposal to Align T1M1 and 3GPP CORBA Specifications	Michael FARGANO (T1M1 Chairman) mfargan@qwest.com	Answer to be drafted after SA5#14.
		Post-Meeting #14 Documents		
S5-000424	5.1	DRAFT Report of the 3GPP SA WG5 (Telecom Management) meeting #14 hosted by Siemens in Milan, ITALY, 11-15 Sept 2000	SA5 Secretary (Adrian ZOICAS)	
NOTE:	This document list is continuously updated. The latest version can be found at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/_S5DocLst.doc			

Annex D: Documents provided to SA#9

NUMBER	TITLE	AGENDA ITEM	Document For
SP-000431	Status report from SA WG5 to SA#9 (presentation)	7.5.1	Information
SP-000432	Status report from SA WG5 to SA#9 (Word)	7.5.1	Information
SP-000433	CRs to Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain (32.015)	7.5.3	Decision
SP-000434	CRs to 3G Performance Management (32.104)	7.5.3	Decision
SP-000435	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-000436	32.106-5 (v1.0.0) Configuration Management; Part 5: Basic Configuration Management IRP: Information Model version 1 (Release 1999)	7.5.3	Information
SP-000437	CRs to Telecommunications Management; Fault Management; Part 1: 3G fault management requirements (32.111-1)	7.5.3	Decision
SP-000438	CRs to Telecommunications Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (32.111-2)	7.5.3	Decision
SP-000439	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-000440	Proposed Work-plan for SA5	7.5.2 7.6 (IGC)	Information
SP-000441	Work Item Descriptions for Release 2000 (R4/R5)	7.5.3	Decision

Annex E: CRs provided to SA#9

E.1   SA WG5 Release 99 CRs at SA#9

Doc-1st-Level	Status-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
SP-000433		32.015	010		R99	Clarifications to chapter 7	F	3.2.0	3.3.0	S5-000354
SP-000433		32.015	011		R99	Clarifications and corrections	F	3.2.0	3.3.0	S5-000355
SP-000433		32.015	012		R99	Clarification for QoS parameter	F	3.2.0	3.3.0	S5-000356
SP-000434		32.104	007		R99	Clarification of the table oriented structure of the file format, and addition of ASN.1 example, according to annex D	F	3.2.0	3.3.0	S5-000399
SP-000435		32.106-3	001		R99	Add pragma statement to Notification IRP IDL	D	3.1.0	3.2.0	S5-000414
SP-000437		32.111-1	001		R99	Clarification On Mediation Function Algorithms	F	3.1.0	3.2.0	S5-000407
SP-000437		32.111-1	002		R99	Clarification On Clear Alarm Suppression	F	3.1.0	3.2.0	S5-000406
SP-000438		32.111-2	001		R99	Correction of qualifier for SystemDN	F	3.1.1	3.2.0	S5-000404
SP-000438		32.111-2	002		R99	Addition of a missing constraint in acknowledgeAlarm operation	F	3.1.1	3.2.0	S5-000409
SP-000439		32.111-3	001		R99	Update TS 32.111-3 Iterator	D	3.1.0	3.2.0	S5-000401
SP-000439		32.111-3	002		R99	Clarification On Filterable Body Fields	D	3.1.0	3.2.0	S5-000402
SP-000439		32.111-3	003		R99	Correct push_structured_event of push_structured_events	F	3.1.0	3.2.0	S5-000403
SP-000439		32.111-3	004		R99	Remove the use of interface to encapsulate const strings	F	3.1.0	3.2.0	S5-000408

E.2   SA WG5 Release 2000 CRs at SA#9

None.

E.3   SMG6 CRs at SA#9

None.

Annex F: Specifications and Reports under SA5 responsibility

F.1:   SA WG5 Specifications and Reports

Type	Number	Title	Rel	current vers	frozen	WG prime	rapporteur
TS	32.005	Telecommunications Management; Charging and billing; GSM call and event data for the Circuit Switched (CS) domain	R1999	3.1.0	Jun 00	S5	NENNER, Karl Heinz
TS	32.015	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain	R1999	3.2.0	Jun 00	S5	NENNER, Karl Heinz
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	3.2.0	Mar 00	S5	NENNER, Karl Heinz
TS	32.105	Charging & Billing; GSM call and event data for the Circuit Switched (CS) domain	R1999	0.0.3	Sep 00	S5	NENNER, Karl Heinz
TS	32.106-1	Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	R1999	3.1.0	Mar 00	S5	TOVINGER, Thomas
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	TOVINGER, Thomas
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	TOVINGER, Thomas
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	TOVINGER, Thomas
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	R1999	1.0.0	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	0.0.0	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	0.0.0	Dec 00	S5	TOVINGER, Thomas
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	3.1.0	Jun 00	S5	JURE, Patrick
TS	32.111-2	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	R1999	3.1.1	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	3.1.0	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
TS	32.140	3G Service Management Requirements & Framework	R2000	0.1.0		S5	CARYER, Geoffrey

F.2:　　SMG6 Specifications and Reports

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 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 was to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the *3GPP_TSG_SA_WG5* list between 1 May 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 invitations and meeting calendar

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 #15 it can be found on the server at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_15/Invitation/

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.doc

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 #14 can be found on the server either individually at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_14/Docs/ or altogether, including the final list of documents (_s5DocLst.doc) and the Chairman's SA5 membership list (_S5MemLst.doc), in a zip archive at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_14/Docs/zip/s5-14.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
E.g. the June 2000 "Status List" can be found at: http://www.3gpp.org/TSG/status_list/2000-06.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 June 2000 Specifications set can be found at: ftp://ftp.3gpp.org/Specs/2000-06/
  & the SA5-produced specifications can be found at: ftp://ftp.3gpp.org/Specs/2000-06/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	29 September 2000	DRAFT Report (S5-000424) submitted to SA5 for comment & approval at SA5#15 in Anchorage, Alaska, USA on 20 October 2000 and posted at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_14/Report/ and ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_15/Docs/
	20 Oct 2000	Approved without change at SA5#15 in Anchorage as S5-000430 and posted at: ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_14/Report/ and ftp://ftp.3gpp.org/TSG_SA/WG5_TM/TSGS5_15/Docs/