

Draft T2#15 Report V 0.3 (2001-12)

**3rd Generation Partnership Project (3GPP);
Technical Specification Group Terminals (TSG-T);
Working Group 2 Mobile Terminal Services and Capabilities;
Draft Meeting Report
T2#15
Cancun, Mexico, 26-30 November 2001**



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Chairman: Ian HARRIS (Vodafone)

Secretary: Friedhelm RODERMUND (ETSI MCC)

1 Opening Plenary

1.1 Opening of the meeting

The T2 chairman, Ian HARRIS (Vodafone), opened the meeting and welcomed the delegates. Shannon KOLKA from The SK Group welcomed the delegates on behalf of The American Friends of 3GPP. Friedhelm RODERMUND (ETSI MCC) reminded delegates to take care that they sign into the participants list to ensure that they maintain their company's voting rights. He also reminded delegates to refrain from renaming files while keeping the same tdoc number, and to use the given templates for CRs, LSs and general tdocs. The chairman asked the SWG chairmen to use the new SWG report template.

1.2 Approval of the agenda and schedule

The agenda and schedule in **T2-010871** was agreed.

1.3 Notification of IPR Obligations

The chairman made the call for IPRs. **T2-010874** gives some background information on IPR issues.

The chairman drew the attention of the delegates to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of. They were invited to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the TSG-Terminals and to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

1.4 Report of the last T2 meeting

The report of T2#14 Edinburgh UK, 3 - 7 September 2001 (**T2-010870**) was approved.

The approved report is also available on the 3GPP server at:

ftp://www.3gpp.org/TSG_T/WG2_Capability/TSGT2_14/Report

1.5 Reports from other groups

1.5.1 TSG T

A summary of issues of T2 interest from T#13 meeting Beijing, 19 - 21 September 2001 was presented by Friedhelm RODERMUND in **T2-010877**:

All CRs were approved except the CRs to 07.07 and 27.007 on changes due to IHOSS, OSP and X.25 removal. As during T2#14, concerns were expressed about resulting conflicts from the potential reuse of deleted values like AT command names etc. It was concluded that it might be better to mark the values as

obsolete rather than actually remove them. These CRs were thus withdrawn and T2 will investigate further on the best solution and present modified CRs to TSG-T #14.

Related to the approved CR 23.040-033 on EMS delivery request, comments were made that we have to stabilize EMS because of the tiny marketing window. Conclusion of the discussion was that T requests T2 to complete the EMS work by Dec 2001 and list any exceptions to this at the next T meeting. Exceptions are to be approved by the next T meeting.

Regarding the discussion on getting MExE more commercially focused, there was a proposal that SA1 should review the MExE requirements. It is proposed that the MExE group discusses the need for this at their next meeting. If there is any work for SA1 to do, then this could be addressed to the SA1 meeting in the beginning of November.

The revised WID MExE Security Analysis Activity (TP-010195) was approved. It was noted that the WI rapporteur is unable to continue with this work. A new work item rapporteur has to be found.

The revised WID Terminal Local Model Rel-5 was approved as TP-010224 with the change of the planned completion date from TSG#14 to #15.

The WID 3GPP Generic User Profile (TP-010197) was presented to T to show the work in which T2 is involved. Further information on the progress of the work was provided to T.

A discussion took place on the scope of IMS in Rel-5 and Rel-6. TP-010179, TP-010198, TP-010199, TP-010211 were related to this issue. It is proposed to split IMS into two phases belonging to Rel-5 and Rel-6. Some comments regarding T2's involvement:

- ?? T2 delegates expressed their concerns about the proposed inclusion of the proposed work item on terminal capabilities (related to the UP work) into Rel-5.
- ?? The work on Terminal capabilities, Notification mechanism is currently assigned to CN1 but it seems that a large part of this work is under T2's responsibility.
- ?? The foreseen completion date for UE split Dec 2001 seems not to be realistic. However, it is not felt that UE split has to be included in the first phase of IMS since until the study has been completed, all implementations should follow traditional split so as to avoid potential security problems. Prem had a question.
- ?? End-to-end QOS (SA2): impact on T2 not clear

T1 reported on testing of application platforms and interfaces to applications: An interest group was formed by interested companies to come up with a plan of how to test 3GPP standardized UE interfaces to 'alien' applications. To prepare for the joint T1/T2 meeting in Cancun, the group met to draft first proposals for scope and area of work. The intermediate status report from the group can be found in T1-010376. At the next T meeting, scope/work area and support will be presented.

The work item on GTT (Global Text Telephony) had been marked as completed at the last TSGs. At this T meeting, it was noted that there might be some work to be done on AT commands. Maybe even for Rel-5.

In an LS on "Introduction Of UMTS_AMR_2 into R99 UE's" (TP-010168), CN1 asks TSG-T to consider updating TR 21.904 to include given requirements on the support of UMTS_AMR_2 in R99. In order to maintain these requirements for future releases, CN1 asks TSG-T to consider transferring this TR to a TS. TSG-T agreed that T2 will create a reply LS and create a CR to 21.904. TSG-T recommends that the document stays as a TR.

Below is a list of all the T2 related documents submitted to TSG-T #13 – you can find them on the server under ftp://ftp.3gpp.org/TSG_T/TSG_T/TSMT_13/docs/

- * TP-010222 T2 status report for information
- * TP-010191 Draft meeting report T2#14 for information
- * TP-010192 MExE CRs for approval
- * TP-010212 UE Interface and Capabilities CRs for approval
- * TP-010194 Messaging CRs for approval
- * TP-010195 WID MExE Security Analysis for approval
- * TP-010196 WID Terminal Local Model for approval
- * TP-010197 WID User Profiles for information
- * TP-010221 CR 27.005-002rev1 for approval

- * TP-010169 LS from T2 cc TSG-T "SMS Testing" for information

The draft TSG-T#13 meeting report was available in **T2-010878**.

The specifications updated after T#13 can be found at:

ftp://www.3gpp.org/Specs/2001_09

1.5.2 TSG SA

Kevin HOLLEY gave a brief summary of the SA#13 meeting regarding issues which are of interest to T2. A work item for interworking of wireless LANs with 3GPP systems was created. A discussion took place if more NMCs are needed. Content and timing regarding IMS was discussed. It was impossible to agree on prioritisation. The decision was whatever is in the work plan for Rel-5 is in Rel-5 for March 2002, except IMS security which is for June 2002. A basic document on UE functionality split will probably be finished within the timeframe for Rel-5. Stage 1 for the Multimedia Broadcast/Multicast Service (MBMS) has been approved. Stage 2 work has started but is unlikely to be completed in the Rel-5 timeframe. Work is ongoing on distributed speech recognition. WIDs on UE split and Generic User Profile (GUP) were agreed.

The draft meeting report of TSG SA meeting #13 Beijing, 24 - 27 June 2001 was available in **T2-010879**.

1.5.3 TSG T2 SWG1 MExE

Lars BRENK reported from the MExE meeting held in Portland, 23-25 October hosted by Intel. The meeting report can be found in **T2-010923** and the MExE T2 Cancun opening plenary report can be found in **T2-010938**.

There were less delegates and input docs than normal at the Portland meeting. Regarding the T#13 recommendation to check if SA1 has to review MExE work, MExE concluded that this is not necessary at the moment. Most of the MExE delegates want to keep the security work within MExE. Of course, SA3 has to stay involved.

1.5.4 TSG T2 SWG2

No SWG2 meeting took place.

1.5.5 TSG T2 SWG3 EMS ad hoc

Arthur GIDLOW reported from the EMS ad hoc meeting which was held in Rome, 3-5 October 2001. The report can be found in **T2-011002**.

Three CRs to 23.040 were agreed. They were on correction to Data Delivery Format Request coding, IE classification, and sub-addressing.

It was emphasised that the aim should be to complete the work on EMS at the next T2 meeting.

Line Drawing for EMS was a major topic at this meeting. There were three potential candidate data formats, however full technical details were not available. The organisations working on these proposals agreed to attempt to combine their proposals into a CR. It was stressed that a decision needs to be made at this T2 meeting - based on the available CRs. Otherwise Line Drawing may not be included in EMS.

The full specification for compression of EMS extended objects is proposed to be included in 23.040, by way of new sections in the main specification, and also an informative annex.

A CR to add a polyphonic melody format was presented and discussed, but it could not be agreed.

1.5.6 TSG T2 SWG3 MMS ad hoc

Josef LAUMEN reported from the MMS ad hoc meeting which was held SWG3#8 MMS Ad-Hoc, Dortmund. The report can be found in **T2-011003**.

For MMS Rel-5 reference point MM7 is expected to provide mainly messaging functions between the MMS Relay/Server and the VASP Server (protocol decision still pending, candidates are SOAP and PAP).

The scope for persistent storage in MMS Rel-5 has been defined after very long discussions based on the contributions to this meeting.

The following working assumption on address resolution was agreed: For MMS Rel-5 ENUM is to be standardised for address resolution and an additional informative annex for an interim solution based on SS7 IMSI lookup tables is to be added to 23.140.

The group sees the risk that work for MMS Rel-5 can not be completed if SWG3 does not prioritise the list of proposed and outstanding work tasks and proceed according to the priorities agreed upon. Therefore priorities for MMS Rel-5 will be assigned at Cancun:

For a Non-WAP 1.x implementation of MMS Rel-5 three approaches have been identified so far. Whether or not SWG3 itself will start work on MMS Stage 3 of MMS Rel-5 will be decided in Cancun. If "yes" one of the proposals could be taken as a basis. If SWG3 is not able to come to an agreement, a vote on the realization of a Non-WAP 1.x implementation of MM1 might be held.

The three proposals for a non-WAP 1.x implementation of MMS for Rel-5 are:

- /// IMAP4 + SMTP + WAP PUSH + self defined "UA Prof" 3GPP
- /// HTTP tunnelled [IMAP4+SMTP] + PUSH + UA Prof 3GPP (WAP Forum)
- /// WAP-2.0 + WAP PUSH + WAP UA Prof WAP Forum

1.5.7 Generic User Profile (GUP)

Gunilla BRATT (Ericsson) reported from the four joint meetings held on Generic User Profile:

- ?? Generic User Profile – Requirements – SA1/SA2/SA3/SA4/SA5/CN4/T2 – Sophia Antipolis – 11th – 13 September
- ?? Generic User Profile – data description framework – SA1/SA2/SA3/SA4/SA5/CN4/T2/T3 - Stuttgart – 8th – 9th October
- ?? Generic User Profile – Stage 1 & 2 - SA1/SA2/SA3/SA4/SA5/CN4/T2/T3 - Stuttgart – 10th – 12th October.
- ?? Generic User Profile – data description framework – SA1/SA2/SA3/SA4/SA5/CN4/T2/T3 – Lund – 12 – 14 Nov.

Gunilla BRATT gave a summary of the status of the GUP work in **T2-010981**.

1.5.8 SA1

Kevin HOLLEY (mmO2) gave a brief summary from the last SA1 meeting.

SA1 want to have the stage 1 work on GUP and MMS done in SA1 and not in other groups. New rapporteur for the MMS stage 1 will be Michele ZARRI (One 2 One). There was a proposal to send an LS from SA1 to T2 on MMS but there were many different views and therefore the LS was not agreed. SA1 will do further work on GUP (ad hoc scheduled for Jan 14th2002). Although there was a long discussion, there is no output on the proposals regarding EMS over CBS and SMSs generated by the USIM. SA1 could not agree that there were definitive service requirements at the moment, however, EMS over CBS seems to be a technical implementation matter and therefore not appropriate for SA1 to decide. SA2 should decide on architectural requirements for MBMS which is related to EMS over CBS.

1.5.9 SA3

Regarding IMS security, Louis FINKELSTEIN (Motorola) reported that there was a T3/SA3 JM on the ISIM ongoing in parallel with T2. SA3 had also some discussion about the MExE security work. Although it is possible to do some security work outside SA3, SA3 wants to have a final word.

1.5.10 GSMA

Ian HARRIS reported that there is a meeting in Canada where GSMA BARG will discuss also MMS billing. T2 is urged to contribute to this discussion in future.

1.6 Registration and allocation of documents

The document list was presented and the documents were assigned to the subgroups. A complete document list as of the end of the meeting can be found in Annex A.

All registered meeting documents, which were made available in the inbox of the meeting server, can be found on the 3GPP server at:

ftp://www.3gpp.org/TSG_T/WG2_Capability/TSGT2_15_Cancun/Docs

1.7 Incoming Liaison Statements:

The LSs below were noted during the opening plenary. All other LSs were forwarded to the SWGs as shown in Annex A.

T2-010887 LS from SA4: "re: Distributed Speech Recognition (DSR)".

T2-010891 LS from T3: "IMS identifiers and ISIM or TSIM".

T2-010898 LS from SA3: "re: IMS identifiers and ISIM".

T2-010914 LS from T3 on IMS identifiers and ISIM and USIM.

T2-010915 LS from N1 on IMS identifiers.

T2-010918 LS from SA3: "re: rejection of 2G AKA by 3G ME with USIM in UTRAN".

1.8 3GPP Work Plan

The latest version of the 3GPP work plan available in **T2-010880**. All WGs are requested to review and update the work plan at each meeting. The T2 SWGs were asked to do so.

1.9 Other opening plenary issues

1.9.1 LS to SERG on address resolution in MMS

T2-011099 is an LS to SERG and others on address resolution in MMS. Nokia raised the point that their comments were not taken into account. Therefore, the LS was revised to **T2-011050**. There was a discussion on the draft version and it was approved in principle. However, SWG3 was tasked to do some editorial fine-tuning before the LS can be sent. (During the SWG3 session on Monday the LS was agreed as T2-011050 and sent out immediately).

1.9.2 Update on 3GPP Generic User Profile

Gunilla BRATT (Ericsson) gave an update on the work on the 3GPP Generic User Profile in **T2-01989**. The WID was approved by TSG-SA #13 in Beijing. She outlined the objectives of the work and explained the definition of the GUP: "The collection of data which is stored and managed by different entities such as the UE, the Home Environment, the Serving Network and Value Added Service Provider, which affects the way in which an individual user experiences services." The WID allocates responsibility to T2 regarding two specifications: 23.241 "The 3GPP Generic User Profile (Stage 2) - Data Description Framework" and 24.241 "The 3GPP Generic User Profile (Stage 3; access)- Common objects". Motorola has accepted rapporteurship. So far the architectural part is not yet well developed. Main work has been done on the data description framework.

1.9.3 non WAP1.x implementation of MM1 for MMS Rel-5

SWG3 chairman Josef LAUMEN (Siemens) summarized the status of the discussion. If no consensus could be reached, then a vote could be a way to find a decision. He presented **T2-011096** which contains the proposal for motion of Vote on Non-WAP 1.x implementation of MM1 in MMS Rel-5.

Rami NEUDORFER (Comverse) expressed the concern that currently 3GPP doesn't have a stage 3 solution for MM1 because it relies on external bodies. Vasilis POLYCHRONIDIS (Openwave) highlighted that the stage 1 contains already a requirement having a stage 3. He explained that there are certain operators who will certainly never deploy a WAP stack and these operators need an alternative solution to deploy MMS. Josef clarified that the WAP Forum will continue working on MMS even if 3GPP decides to create their own stage 3.

To get an idea on how much support each of the proposals has, an informal show of hands was proposed by the chairman. The first question was if 3GPP TSG T WG2 shall specify an alternative REL-5 3GPP MMS stage 3 for MM1 in addition to the specifications that will be provided by the WAP Forum. 22 hands were counted for "yes", 28 for "no". Although the "real" vote would be finished after such a result, the SWG3 chairman asked to have a show of hands also for the two remaining questions in T2-011096 on the selection of a non-WAP 1.x solution. The T2 chairman stressed that such shows of hands don't imply any decision, however, some delegates objected to proceed with this and the two remaining shows of hands were skipped.

Kevin HOLLEY (mmO2) expressed his concern that T2 really haven't had a substantial debate on this issue and proposes to decide not to have a vote at all. Ian HARRIS thinks that there has already been a considerable debate within SWG3. Further discussion will take place in SWG3 this week.

2 Subgroup Meetings

Between T2 opening and closing plenary, three sub group sessions (SWG1, 2, 3) and four joint meetings with other groups were held. The reports can be found in Annexes D-J. The results may have been changed and amended during the closing plenary. The final results of the T2#15 meeting are reported in the following clauses 3 and 4.

3 Vote on alternative MMS MM1

Continued discussions on the alternative MM1 topic were held during the SWG3 session, several compromise proposals made but no consensus could be reached. The T2 chairman asked how many delegates would prefer a vote at this T2 meeting. The result of a show of hands was that a significant majority of the delegates preferred a vote at this T2 meeting to resolve the issue. The T2 chairman who is responsible for this decision decided to proceed in that manner.

The motion to be voted upon was proposed by the T2 chairman. Some modifications were proposed by delegates and the final motion was agreed as:

“Shall T2 deliver an alternative MM1 implementation in addition to the specifications that will be delivered by the WAP Forum for REL-5 ? YES/NO”

The result of the vote was the following:

Total number of votes: 49

Yes: 21 (42,9%)

No: 28 (57,1%)

Abstentions: 3

The 3GPP working procedures say: “A proposal shall be deemed to be approved if 71% of the votes cast are in favor. Abstentions or failure to submit a vote shall not be included in determining the number of votes cast.” Thus, the proposal was not approved by T2.

4 Closing Plenary

4.1 Results SWG1 Execution Environment

SWG1 chairman Lars BRENK (TTPCom) presented the SWG1 report in **T2-010921**. The report can be found in Annex D.

The three CLI rolling CRs will be presented for approval at the next T2 meeting. There are still some open questions to be solved.

A restructuring of the MExE specification is currently under discussion, to make the specification more readable and to remove a lot of the forward references. Other discussions took place concerning making the MExE specification easier to use as implementation guide, for example by clarifying the interpretation of the user control and making for example the administrator role optional.

Presentations were held by Intel and Ericsson, both on states of public keys and certificates. Further work to clarify the specification and understand the state concepts will be needed.

A new WID was presented by Intel, concerning a run-time independent classmark. The group was positive, and further discussions and clarifications will take place on the MExE email reflector.

Some work was done on “MExE light. The mentioned run-time independent classmark proposal will incorporate some of the MExE light aspects. Furthermore, some of the things mandatory in 23.057 might be changed to optional. Tim AMBROSE (Hutchison3G) raised his concerns about the raising number of classmarks in MExE.

Ericsson presented the security toolbox model again. Mixed feelings were expressed in the MExE group. Concerns were on lack of expertise and time to do this work, and that MExE could just refer to the work done by WAP in this area. Other comments were positive about the concept and that it should be done in the MExE group, and that it goes fine along with the run-time independent classmark work.

TTPCom also made a presentation of their Wireless Game Engine, to maybe be included as a fifth classmark.

T2-010946 is a CR to 23.057 Rel-4 changing the figure number 6A to 7. The CR was agreed as a category F CR.

T2-010957 is a CR to 23.057 Rel-4 correcting spelling mistakes giving clarifications. The “consequences if not approved” were changed to “Risk of misinterpretation”. The CR submitted as a category D CR was agreed as a category F CR. The T2 secretary reminded the author that category D CRs (editorial modifications) are not permitted for a specification which has already been frozen in March 2001. He discouraged delegates from producing further editorial CRs for Rel-4.

T2-010959 is a CR to 23.057 Rel-4 adding a reference to TS 23.227 “Applications and User interaction in the UE-Principles and specific requirements” in order to cover all the requirements on Application and User Interactions. The CR was agreed.

T2-011131 is a CR to 23.057 Rel-4: removing a certificate chain level inconsistency. The CR was agreed.

T2-011132 is a CR to 23.057 Rel-4: mandating the signature algorithm SHA1WithRSA for MExE devices. The CR was agreed.

T2-011133 is a CR to 23.057 Rel-4. This Change Request makes an explicit notation that the secure mechanism can mark a MRPK/ARPK as valid or invalid. The CR was agreed.

T2-011135 is a CR to 23.057 Rel-4 on the missing context of MCC+MNC. The CR adds clarification on point that definitions of the Operator ID on the (U)SIM and the ORPK of the ME are left for implementation agreements. The CR was agreed.

T2-011136 is a CR to 23.057 Rel-4 on Sun reference removal. The CR was agreed.

T2-011137 is the revised WID on the MEXE Security Analysis. It has been updated with a new rapporteur name (Ernest Woodward, Intel), new timescale (June 2002) and the exchange of the specification numbers 21.133 by 33.900. The version which is going to be presented to TSG-T needs to show revision marks. Therefore, the WID was revised and agreed as **T2-011244**.

T2-011138 is a CR to 23.057 Rel-4 updating the PKCS#15 reference and doing some editorial changes. The CR was agreed as **T2-011245**.

4.2 Results SWG2 Terminal Interfaces

The SWG2 report in **T2-010961** was presented by SWG2 chairman Prem SOOD (Sharp). The report can be found in Annex E.

Topics discussed at this meeting included UE Functionality Split, AT Commands, Application and User Interaction (Terminal Local Model), Generic User Profiles, User Equipment Management, AMR Codecs, Data Synchronization, Security Toolbox, various Liaison Statements and other logistics for future meetings, ad hoc meetings, and meeting procedures.

The work item vObjects & other constructs in data synchronisation might be merged with the work item Generic User Profile.

A presentation was received from the SyncML Initiative on Device Management.

T2-010965 is a CR to 23.227 expanding the introduction and giving clarifications on the scope. With minor changes agreed as **T2-011240**.

T2-010967 is a CR to 27.007 R99 giving clarifications to AT commands used with circuit switched data. The usage and validity of HSCSD AT commands is clarified. The CR was agreed including the corresponding CR to Rel-4 in **T2-010968**.

T2-010969 is a CR to 07.07 R98 on the obsolete +CGCLOSP and corrections due to IHOSS removal. **T2-010970** is the corresponding CR to R99, and **T2-010971** is the corresponding CR to Rel-4. Louis FINKELSTEIN (Motorola) proposed to keep the obsolete terms in the abbreviations section. This was not agreed. The three CRs were agreed.

T2-010972 is a CR to 27.007 R99 on obsolete +CGCLPAD and corrections due to X.25 removal. The CR was agreed including the corresponding CR for Rel-4 in **T2-010973**.

T2-010974 is a CR to 27.007 R99 on correction in the +CGACT command explanation. It deletes incorrect text in the explanation of the command about secondary PDP context. The CR was agreed including the corresponding CR to Rel-4 in **T2-010975**.

T2-010976 is a CR to 27.007 Rel-5 correcting of chapter headings and references. The CR was changed to Rel-4. The CR was agreed as **T2-011241**.

T2-010979 is a CR to 27.007 R99 introducing different compression algorithms in AT command +CGDCONT. The CR was agreed. **T2-010980** is the corresponding CR to Rel-4. The parameter descriptions for the two AT commands were aligned (“applicable for SNDCP/PDCP only”) and the CR was agreed as **T2-011242**.

T2-011175 is a CR to 23.227 Rel-5 on a correction in WAP Forum Reference. The CR was agreed.

T2-011176 is a CR to 23.227 Rel-5 adding an explanatory title to Figure A.1. The category was changed to F. The CR was agreed.

T2-011177 is a CR to 23.227 Rel-5 adding the USAT bearer independent protocol for local links interactions requirement. Addition of the concept of local bearer as part of the Bearer Independent Data Transfer (U)SAT feature. The CR was agreed. Louis FINKELSTEIN reminded that if T2 does any changes regarding the security concepts, SA3 has to be involved.

T2-011179 is a CR to 27.007 Rel-4 introducing a new AT command to control Ring Melody +CRMC. Currently, there is a command to playback a selected ring melody but there is no possibility to set a ring melody The CR was agreed.

T2-011180 is a CR 27.007 Rel-5 adds a reference to 23.227 to indicate that an application in the TE, interfacing the MT-TA, shall fulfil the framework described in the interaction handling specification. The CR was agreed.

T2-011170 is an LS to CN, T and SA on UE Functionality Split relating to the IMS. The LS was agreed.

T2-011171 is an LS to SA1 on UE functionality split. The LS was agreed.

T2-011178 is an LS response to CN1, SA4 cc: TSG-T on UMTS_AMR2. The LS was agreed.

T2-011184 is an LS reply to SyncML with Follow-Up Questions. Tim AMBROSE asked for some visibility of the expected timeframes. It was clarified that the dates can be found on the attachments of this LS. DevMan alpha release is scheduled for December 2001, the full specification for February. The LS was agreed.

T2-011183 is a request for the approval of the formation of a T2 Generic User Profile (T2-GUP) ad hoc. A discussion took place if this ad hoc should report to T2 directly or to SWG2. Gunilla BRATT pointed out that the GUP work should be more obviously open to other groups. The work must be joint to other SWGs and other WGs. It was agreed to set it up as a T2 GUP ad hoc (including having a folder in the T2 area) with the reporting back formally via SWG2. Peter NEUMANN (Siemens) expressed his dissatisfaction that invitations to GUP joint meetings were distributed on the SA1 GUP email list only and not sent to other WGs invited to the joint meeting.

4.3 Results SWG3 Messaging

The report of SWG3 was presented in **T2-011001** by Josef LAUMEN. A misplaced paragraph caused some confusion and therefore the report was revised to **T2-011246**. Later it was revised again to **T2-011252**. It can be found in Annex F.

Generic DRM requirements will be generated by SA1 for Rel-6 suitable for all 3GPP needs and T2 will be informed among other 3GPP working groups if problems arise during the drafting process. SWG3 sees no need for action, but suggests that DRM issues be addressed to SA1 first.

EMS Polyphony: Four separate proposals were received. After extensive discussions, the contributors agreed to collaborate on the development of a single solution, to be completed by T2#16. The starting point will be the widely available MIDI format. See **T2-011159** for further details.

EMS Vector Graphics: There are three proposals. The group agreed on a selection process, including deadlines, to ensure that the necessary information becomes available before the end of December. See **T2-011165** for further details.

It was agreed that all the above EMS features should be included in Rel-5. An ad-hoc meeting (3 days) on EMS and SMS/CBS matters is planned to take place 16-18 January 2002.

On Address resolution / MNP for MMS Rel-5, three different approaches are envisaged: ENUM for the long-term usage and two interim IMSI solutions (direct MNP and indirect MNP). Input to the latter is missing. A basis for the stage 2 of MM7: interworking with VAS applications is now available. The most important outstanding issue is the choice of the underlying protocol in order to allow stage 3 CRs for MM7 to be developed.

A CR on Configuration of MMS-capable UEs, T2-011211, was agreed upon which is seen as an important step in finalising the joint effort between T2-SWG3 and T3 on USIM aspects of MMS Rel-5. For completion of this effort a joint meeting with T3 is planned to take place.

Non-WAP 1.x implementation of MM1 for MMS Rel-5: Extensive discussions about a non-WAP 1.x MM1 implementation for Rel-5 did not result in consensus, nor compromise, but had to be resolved by a vote. See clause 3 of this meeting report for details.

Work plan for MMS Rel-5: There is a risk that the Rel-5 schedule (March 2002) cannot be met. The following counter-measures were taken in order to meet 3GPP Rel-5 time frame:

- ?? Outstanding work has been prioritised with deferring low and medium priority tasks to Rel-6.
- ?? A list of action items (see below) has been created which companies have committed to working on before the next meeting.
- ?? In addition, two one-week ad hoc meetings are scheduled before T2#16.

T2-011004 is a CR 23.040 Rel-5 corrects the double use of bits 1..7 within octet 8 of the Data Format Delivery Request. The CR was agreed.

T2-011024 is a CR 23.041 Rel-4 on the clarification on the use of Message IDs in multi-technology networks. It is clarified that Message ID values are assigned identically in each network technology. Kevin HOLLEY pointed out that there is a general attempt now in 3GPP avoiding the term UMTS. The CR was agreed.

T2-011068 is a CR to 23.040 Rel-5 on Information Element Classification. The changes in this CR clarify the functionality of each IEI and whether they can be duplicated or not. The question came up if Wireless Control Message Protocol is repeatable. The CR was revised to **T2-011254**. Note 3 was added: "The functionality of these IEIs is defined by the WAP Forum and therefore the repeatability is not within the scope of this document and will not be determined here." The CR was agreed.

T2-011108 is a CR to 23.038 Rel-4 deleting the reference to GSM 01.04. The CR was agreed.

T2-011151 is a CR to 23.040 Rel-5 on the clarification of LZSS compression for "EXTENDED OBJECTS" in EMS. The CR was agreed.

T2-011158 is a CR to 23.040 Rel-5 on Extended Object Positioning. Some guidelines are placed on the position filed within the Extended Object to facilitate the presentation of messages. The CR was agreed as category F.

T2-011160 is a CR to 03.40 R97 on the correction of SMS Information Data Length. The CR removes an inconsistency regarding the valid length range of an information element data. Some changes were done to the cover sheet and the CR was revised to **T2-011247**. **T2-011161** is the corresponding CR to 03.40 R98. The CR was revised to **T2-011248** and agreed. **T2-011162** is the corresponding CR to 23.040 R99. The CR was revised to **T2-011249** and agreed. **T2-011163** is the corresponding CR to 23.040 Rel-4. The CR was revised to **T2-**

011250 and agreed. **T2-011164** is the corresponding CR to 23.040 Rel-5. The CR was revised to **T2-011251** and agreed.

T2-011019 is a CR to 23.140 Rel-4 adding a reference to TS 29.061 on RADIUS. The CR was agreed.

T2-011020 is a CR to 23.140 Rel-5 adding a reference to a CN3 specifications on RADIUS. The CR was agreed.

T2-011043 is a CR to 23.140 Rel-5 doing a clarification on the reply-charging service behaviour description. The CR was agreed.

T2-011111 is a CR to 23.140 Rel-4 is correction of the MM Status Code. The CR was agreed. **T2-011119** is the corresponding CR to Rel-5. The title was aligned with the Rel-4 CR. The CR was agreed.

T2-011112 is a CR to 23.140 Rel-4 on clarification of forwarding in MM1 message retrieval. The IE Forward_counter is removed from the MM1_retrieve.RES. The CR was agreed. **T2-011113** is the corresponding CR to Rel-5: The CR was agreed.

T2-011115 is a CR to 23.140 Rel-4 for removing inconsistency. The T2 secretary reminded about the importance of comprehensive titles. The title was changed to "Removing inconsistency of mandated functionality". The CR was agreed. **T2-011116** is the corresponding CR to Rel-5. The title was changed as well and the CR was agreed.

T2-011120 is a CR to 23.140 Rel-4 on corrections on MM1 and MM4 abstract messages. The CR was agreed. **T2-011127** is the corresponding CR to Rel-5. The question came up which "Proposed change affects "-boxes to tick on the CR cover sheet for MMS CRs. "CN" should be ticked for MM4 etc. related CRs, and "ME/UE" for UA related CRs. The CR was agreed.

T2-011200 is a CR to 23.140 on read status codes. The title was changed to "clarification of status codes in the MM4_read_reply_report.REQ". The CR was agreed. **T2-011201** is the corresponding CR to Rel-5. The CR was agreed.

T2-011211 is a CR to 23.140 Rel-5 adding an Annex about the configuration of MMS-capable UE. The CR was agreed.

T2-011233 is a CR 23.140 Rel-5 on MMS address hiding. This CR was included already in Rel-4 (CR009) but was removed from Rel-5 by CR014 unintentionally (TSG-T#13). The CR was agreed.

T2-011234 is a CR 23.140 Rel-5 on reply-charging clarifications. This CR is included already in Rel-4 as CR015 but was removed partly from Rel-5 by CR014 unintentionally (TSG-T#13). The CR was agreed.

T2-011117 is an LS reply to WAP WAG MMDC on forwarding issues. It was agreed as **T2-011256**.

T2-011118 is an LS to WAP Forum MMDC on reply-charging. The LS was agreed.

T2-011122 is an LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations . The LS was agreed.

T2-011150 is an LS to GSMA SerG, GSMA IREG, GSMA EC, GSMA MSIG cc SA2 on Address Resolution in MMS. The LS was agreed and sent already at the beginning of the opening plenary.

T2-011243 is on the registration of SMS-related MIME types with IANA. The proposed way to proceed was endorsed by T2.

4.4 Joint SA1/T2 SWG2 meeting on UE split

The joint SA1/T2 SWG2 meeting on UE split was chaired by SWG2 chairman Prem SOOD (Sharp). The report was presented in **T2-011172**. It can be found in Annex G.

The meeting reviewed the UE Functional Split Requirements Document under development in SA1, which was presented in **T2-010911**. The meeting discussed the document and prepared and approved an output document with proposed changes, which is to be sent back to SA1 (agreed as **T2-011171**, see subclause 3.2).

The Meeting also prepared and approved an LS to the TSGs proposing that the issue of IMS functionality being split across UE components be debated and resolved (agreed as **T2-011170**, see subclause 3.2).

Another joint SA1/T2 meeting on UE split is planned Sunday January 13, 2002, in Phoenix, US.

4.5 Joint SA5/T2 SWG1 SWG2 meeting on User Equipment Management (UEM)

This meeting was chaired by John MUDGE (Vodafone). The report was presented in **T2-011239**. It can be found in Annex H.

The UEM feasibility study TR 32.802 was reviewed in the meeting. A number of changes to the TR were agreed. A conclusion section will be added to the document which indicates that UEM capabilities vary greatly in how easy it will be to implement them. A number of references will be inserted in the document including GUP and MExE.

A presentation on SyncML was received. SyncML seems to be an applicable technology for UEM.

It is requested that T2 reviews the updated TR 32.802 and feedback comments to SA5 SWG-A. (LS in **T2-011255**).

4.6 Joint SA5/T2 SWG3 meeting on MMS charging

This meeting was chaired by Alain BIBAS (France Telecom). The report was presented by Philippe BELLORDRE (France Telecom) in **T2-011235**. It can be found in Annex I.

The purpose was to review the two R4 charging specifications related to MMS (TS 32.200 and 32.235), to address technical questions included in a received T2 LS (T2-010903) and to clarify any open issues in SA5's understanding of the MMS specifications. During this meeting, a number of issues were raised and may lead to actions from T2.

SA5 clarified that till this time, prepaid charging is not in their scope for R5 and that they have no expertise for prepaid architecture. SA5 recommended T2 to contact CN2 (responsible for CAMEL) for the definition of a MMS prepaid architecture.

4.7 Joint T1/T2 SWG1 meeting on application enabler testing

This meeting was chaired by Peter NEUMANN (Siemens). The report was presented in **T2-011232**. It can be found in Annex J.

Some misunderstandings on terminology and targets were identified. Discussions took place about the need on interface testing. A proposal was to create a WID and to create a feasibility study. The responsibilities of the work have still to be decided yet. The need for another meeting was identified. Proposed to be presented to T plenary.

T2-011253 is the draft WID on Conformance Testing of MExE Environment. Peter NEUMANN presented the document. It was noted and comments are invited to Peter.

5 Future meeting schedule

Meeting	Date	Location	Host
T#14	12 - 14 Dec 2001	Kyoto, Japan	
Joint T3/T2 MMS USIM aspects	11 Jan	Sophia Antipolis, France	ETSI
Joint SA1/T2 UE split	13 Jan 2002	Phoenix, US	
T2 SWG3 EMS#03	16-18 Jan 2002	Paris	Alcatel
T2 SWG3#09 MMS network-related only	14-18 Jan 2002	Paris	Comverse, France Telecom
T2 SWG3#10 MMS network and terminal-related	21-25 Jan 2002	Paris	Comverse, France Telecom
T2 GUP + joint GUP	5-8 Feb 2002	Sophia Antipolis, France	ETSI
T2#16	11-15 Feb 2002	Sophia Antipolis	ETSI
T#15	6 - 8 March 2002	Korea	
T2#17	13-17 May 2002	tbd	tbd
T#16	5 - 7 June 2002	Marco Island, Florida	
T2#18	19-23 Aug 2002	tbd	tbd
T#17	4 - 6 Sep 2002	Biarritz, France	
T2#19	18-22 Nov 2002	tbd	tbd
T#18	4 - 6 Dec 2002	New Orleans, US	

See also 3GPP on-line meeting calendar at <http://www.3gpp.org>.

Companies were invited to consider hosting of future T2 meetings.

6 Any Other Business

The T2 chairman reported that his ongoing role as T2 Chairman is at risk due to redundancies announced by his company.

The following LSs arrived during the meeting and were treated by the closing plenary:

T2-011255 is an LS from SA5 on UEM. SA5 asks T2 to provide feedback to SA5 SWG_A on the submitted TR 32.802. Comments are invited.

T2-011231 is an LS on IMS identifiers and ISIM and USIM. The LS was postponed until the next T2 meeting.

T2-011238 is an LS from SA3 on Configuration of ciphering. It was noted that the attachment was missing. The LS was postponed until the next T2 meeting.

7 Close of the Meeting

Ian HARRIS thanked all delegates and the subgroup chairmen for their contributions and work at this meeting. He thanked The American Friends of 3GPP for hosting the meeting in Cancun and for the excellent organisation and facilities including the wireless LAN.

Annex A List of all temporary documents

TDOC	Subject	Source	SWG
T2-010870	Draft Meeting Report T2#14, Edinburgh, 3-7 September 2001	T2 secretary	OP
T2-010871	Draft Agenda T2#15	T2 chairman	OP
T2-010872	Draft Agenda for joint T1/T2 meeting on Applications Enabler Platform Testing	Samsung	JM
T2-010873	Draft Agenda for the joint T2 and SA5 SWG-A meeting	Vodafone	JM
T2-010874	IPR guidance	MCC	OP
T2-010875	T2 specs status list	MCC	OP
T2-010876	3GPP meeting calendar	MCC	CP
T2-010877	Summary of T#13 issues of T2 interest	T2 secretary	OP
T2-010878	Draft Report of TSG-T meeting #13 Beijing, 19 - 21 September 2001	T secretary	OP
T2-010879	Draft Report of TSG SA meeting #13 Beijing, 24 - 27 June 2001	SA secretary	OP
T2-010880	3GPP work plan	MCC	OP
T2-010881	Draft Agenda for the joint T2 / SA5 meeting on MMS charging	France Telecom	JM
T2-010882	not used		
T2-010883	not used		
T2-010884	not used		
T2-010885	LS from T3: "re: Storage of MMS information on USIM"	T3-010614	SWG3
T2-010886	LS from CN1: "Introduction Of UMTS_AMR_2 into R99 UE's"	N1-011286	SWG2
T2-010887	LS from SA4: "re: Distributed Speech Recognition (DSR)"	S4 (01) 0524	OP
T2-010888	LS from SA4: "Digital Rights Management (DRM) requirements for PSS Rel-5"	S4 (01)0534	SWG3
T2-010889	LS from SA4: "re: stage 1 for Extended Streaming Service"	SA4-010535	SWG3
T2-010890	LS from GSMA BARG chairman: "Workshop on MMS Interworking"	BARG Doc 165/01rev 1	SWG3
T2-010891	LS from T3: "IMS identifiers and ISIM or TSIM"	T3-010613	OP
T2-010892	LS from WAP WAG MMDC: "re:FUTURE RELEASES OF MMS"	WAP WAG MMDC	SWG3
T2-010893	LS from WAP WAG MMDC: "FORWARDING ISSUES"	WAP WAG MMDC	SWG3
T2-010894	LS from WAP WAG MMDC: "MMS HEADER MAPPING"	WAP WAG MMDC	SWG3
T2-010895	LS from SA5 "re: Liaison Statement in Regards to MMS Charging"	S5-010648 rev.1	SWG3
T2-010896	LS from SA3: "Initial comments on digital rights management "	S3-010532	SWG3
T2-010897	LS from SA3: "re: Cell ID in SIP messages"	S3-010526	SWG2
T2-010898	LS from SA3: "re: IMS identifiers and ISIM "	S3-010554	OP
T2-010899	LS from The SyncML Initiative: "Data Formats in SyncML"	The SyncML Initiative	SWG2
T2-010900	LS from GUP ad hoc: "User Profile"	UP-010046	SWG2
T2-010901	LS to WAP WAG MMDC on message header mappings	SWG3	-
T2-010902	LS to SA1 on the IP based MM services framework report	SWG3	-
T2-010903	LS to SA5 on MMS charging requirements	SWG3	-
T2-010904	LS to T3 on MMS and USIM	SWG3	-
T2-010905	LS to S1 S2 S3 CN5 S5 regarding VASP MMS connectivity	SWG3	-
T2-010906	LS to SA1 cc WAP MMDC on scope of persistent storage	SWG3	-
T2-010907	withdrawn		
T2-010908	LS from SA1 on 3GPP Generic User Profile Stage 1	S1-011176	SWG2

T2-010909	LS from SA1 on DRM	S1-011300	SWG3
T2-010910	LS from SA1 on requirements on Multimedia Broadcast/Multicast Service	S1-011310	SWG3
T2-010911	LS from SA1 on UE functionality split	S1-011321	SWG2
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	SWG2
T2-010913	LS from SA2 on E.164 addressing support for MMS	S2-013072	SWG3
T2-010914	LS from T3 on IMS identifiers and ISIM and USIM	T3-010730	OP
T2-010915	LS from N1 on IMS identifiers	N1-011768	SWG3
T2-010916	LS from BARG: Billing and network aspects concerning Multimedia Messaging Interworking	BARG Doc 250/01 rev 1	SWG3
T2-010917	LS from WAP Forum on non-WAP 1.x MMS implementation	WAP WAG MMDC	SWG3
T2-010918	LS from SA3: "re: rejection of 2G AKA by 3G ME with USIM in UTRAN"	S3-010523	OP
T2-010919	LS from WAP Forum ON MMDC'S PROCESS AND TARGET FOR WAP MMS	WAP WAG MMDC	SWG3
T2-010920	draft agenda SWG1 MExE at T2#15		SWG1
T2-010921	report of SWG1 MExE at T2#15		SWG1
T2-010922	Mail: TSG-T#13 results	ETSI/MCC	SWG1
T2-010923	Report from MExE ad-hoc in Portland 23-25 October	Chairman	SWG1
T2-010924	Classmark 4 code safety verification	MExE group	SWG1
T2-010925	CR 23.057: CLI classmark 4 - non-security	Microsoft	SWG1
T2-010926	CR 23.057: CLI classmark 4 - security	Microsoft	SWG1
T2-010927	Restructuring of the MExE-specification.	Ericsson	SWG1
T2-010928	Mandatory items made optional.	Ericsson	SWG1
T2-010929	Interpretation of User Control.	Ericsson	SWG1
T2-010930	MExE Run-Time Independent Classmark WID	Intel	SWG1
T2-010931	Presentation on the MExE Run-Time Independent Classmark WID	Intel	SWG1
T2-010932	CR 23.057 - Marking MRPK Valid through Secure Mechanism	Intel	SWG1
T2-010933	CR 23.057 - Context of MCC+MNC Missing	Intel	SWG1
T2-010934	CR 23.057 - Certificate and Public Key Validation	Intel	SWG1
T2-010935	Issues on TS 23.057 Sub-clause 6.2	Intel	SWG1
T2-010936	States of Public Keys and Certificates	Intel	SWG1
T2-010937	Presentation on States of Public Keys and Certificates	Intel	SWG1
T2-010938	MExE TSG-T2 opening plenary report	Chairman	SWG1
T2-010939	WGE presentation for MExE	TTPCom	SWG1
T2-010940	CR 23.057 Rel-4: Certificate chain level inconsistency	TTPCom	SWG1
T2-010941	CR 23.057 Rel-4: Signature algorithm specification	TTPCom	SWG1
T2-010942	CR 23.057 REL-4: (References)	HP	SWG1
T2-010943	CR 23.057 REL-4: Spell check in 23.057	TTPCom	SWG1
T2-010944	CR 23.057 REL-4: Reference alignment in 23.057	TTPCom	SWG1
T2-010945	CR 23.057 REL-4: New reference for PKCS#15	TTPCom	SWG1
T2-010946	CR 23.057 REL-4: Changing figure number 6A to 7	TTPCom	SWG1
T2-010947	State of RPK	Ericsson	SWG1
T2-010948	Comments to 72-010924	Nokia	SWG1
T2-010949	Comments to 72-010925	Nokia	SWG1
T2-010950	Comments to 72-010926	Nokia	SWG1
T2-010951	Comments to 72-010927	Nokia	SWG1
T2-010952	Comments to 72-010928	Nokia	SWG1
T2-010953	Comments to 72-010929	Nokia	SWG1

T2-010954	Comments to 72-010930	Nokia	SWG1
T2-010955	Comments to 72-010934	Nokia	SWG1
T2-010956	Comments to 72-010935	Nokia	SWG1
T2-010957	CR 23.057 REL-4: Spell check in 23.057	TTPCom	SWG1
T2-010958	New reference for PKCS#15	TTPCom	SWG1
T2-010959	CR 23.057 Rel-5 Add reference to 23.227	Ericsson	SWG1
T2-010960	draft agenda SWG2 at T2#15	SWG2 chairman	SWG2
T2-010961	report of SWG2 at T2#15		SWG2
T2-010962	E-Mail Discussion on T2-010886 (LS from CN1 on UMTS_AMR2)	Sharp	OP, SWG2
T2-010963	LS response on UMTS_AMR2	Sharp	SWG2
T2-010964	CR 21.904 R99: UMTS_AMR2	Sharp	SWG2
T2-010965	CR 23.227: Applic/User Interaction UE	Sharp	SWG2
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	SWG2
T2-010967	CR 27.007 R99: Clarifications to AT commands used with circuit switched data	Nokia	SWG2
T2-010968	CR 27.007 Rel-4: Clarifications to AT commands used with circuit switched data	Nokia	SWG2
T2-010969	CR to 07.07 R98 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010970	CR to 27.007 R99 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010971	CR to 27.007 Rel-4 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010972	CR to 27.007 R99 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2
T2-010973	CR to 27.007 Rel-4 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2
T2-010974	CR to 27.007 R99 Correction in the +CGACT command explanation	Ericsson	SWG2
T2-010975	CR to 27.007 Rel-4 Correction in the +CGACT command explanation	Ericsson	SWG2
T2-010976	CR to 27.007 Rel-5 Correction of chapter heading and references	Ericsson	SWG2
T2-010977	CR to 23.227 Rel-5 Correction in WAP Forum Reference	Ericsson	SWG2
T2-010978	CR to 23.227 Rel-5 Text added to Figure A.1	Ericsson	SWG2
T2-010979	CR to 27.007 R99 Different compression algorithms in AT command +CGDCONT	Siemens	SWG2
T2-010980	CR to 27.007 REL-4 Different compression algorithms in AT command +CGDCONT	Siemens	SWG2
T2-010981	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	SWG2
T2-010982	UICC in UE-Split and IMS	Nortel Networks	SWG2
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	SWG2
T2-010984	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	SWG2
T2-010985	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	SWG2
T2-010986	CR 23.057 Rel-5 Add reference to 23.227	Ericsson	SWG1
T2-010987	CR 27.901: Including UE Functional Split	BT	SWG2
T2-010988	WID GUP	Ericsson	SWG2
T2-010989	3GPP GUP work status	Ericsson	SWG2
T2-010990	22.240	GUP ad hoc	SWG2
T2-010991	23.240	GUP ad hoc	SWG2

T2-010992	23.241	GUP ad hoc	SWG2
T2-010993	24.241	GUP ad hoc	SWG2
T2-010994	impact of the T3 WI transport protocol for USIM applications on 23.227	Ericsson	SWG2
T2-010995	CR 27.007 Rel-4: alingment of UE architecture description to 23.101	Ericsson	SWG2
T2-010996	UP-03 Meeting Minutes	Ericsson	SWG2
T2-010997	UP-04 Meeting Minutes	Ericsson	SWG2
T2-010998	UP-06 Meeting Minutes	Ericsson	SWG2
T2-010999	TR32.802 UEM Feasibility Study	SA5	SWG2
T2-011000	draft agenda SWG3 at T2#15	chairman	SWG3
T2-011001	report of SWG3 at T2#15	Siemens	SWG3
T2-011002	Report of the EMS#02 Ad-Hoc Meeting, Rome, 3-5 October 2001	SWG3 EMS ad-hoc	SWG3
T2-011003	DRAFT2 Report SWG3#8 MMS Ad-Hoc, Dortmund	Siemens	SWG3
T2-011004	CR 23.040 Rel-5: Editorial changes of Data Format Delivery Request	Siemens	SWG3
T2-011005	LS reply to WAP WAG MMDC: Forwarding Issues	Logica	SWG3
T2-011006	CR 23.140 Rel-4: Forwarding Counter	Logica	SWG3
T2-011007	CR 23.140 Rel-5: Forwarding Counter	Logica	SWG3
T2-011008	CR 23.140 Rel-4: Forwarding Addresses-Date-Time	Logica	SWG3
T2-011009	CR 23.140 Rel-5: Forwarding Addresses-Date-Time	Logica	SWG3
T2-011010	CR 23.140: Clarification of request status codes over MM4	Ericsson	SWG3
T2-011011	CR 23.140: MM1-MM4 header mapping	Ericsson	SWG3
T2-011012	CR 23.140: ESMTP message size declaration	Ericsson	SWG3
T2-011013	CR 23.140 Rel-5: MM4 bug fixes	Ericsson	SWG3
T2-011014	CR 23.140: MMS version end-to-end	Ericsson	SWG3
T2-011015	CR 23.140: Read status codes	Ericsson	SWG3
T2-011016	CR 23.140: Improved Request Status Codes over MM4	Ericsson	SWG3
T2-011017	CR 23.140: Functionality Handling over MM4 and MM1	Ericsson	SWG3
T2-011018	CR 23.140: MM4 forward failure	Ericsson	SWG3
T2-011019	CR 23.140 Rel-4: Reference to CN3 specifications on RADIUS	Nokia	SWG3
T2-011020	CR 23.140 Rel-5: Reference to CN3 specifications on RADIUS	Nokia	SWG3
T2-011021	CR 23.040 Rel-5: polyphony in EMS	digiplug	SWG3
T2-011022	input statement on polyphony in EMS	digiplug	SWG3
T2-011023	CR 23.140 Rel-4: MM4 bug fixes	Ericsson	SWG3
T2-011024	CR 23.041: Clarification on the use of Message IDs in multi-technology networks	Siemens	SWG3
T2-011025	CR 23.040 R99: Editorial Correction section 9.2.3.6	NTT DoCoMo	SWG3
T2-011026	CR 23.040 Rel-4: Editorial Correction section 9.2.3.6	NTT DoCoMo	SWG3
T2-011027	CR 23.040 Rel-5: Editorial Correction section 9.2.3.6	NTT DoCoMo	SWG3
T2-011028	Duplicate Messages Originating from UA on the MM1 Interface	Logica	SWG3
T2-011029	CR 23.140 Rel-5: Submission Description Enhancement	Siemens	SWG3
T2-011030	Discussion points to MMS and USIM	Siemens	SWG3
T2-011031	CR 23.140 Rel-5: Configuration of MMS-capable UE	Nokia	SWG3
T2-011032	Use cases for VAS	Telia	SWG3
T2-011033	CR 23.140 Rel-5: MM7	Telia	SWG3
T2-011034	CR 23.140 Rel-5: SMIL	Telia	SWG3
T2-011035	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	SWG3
T2-011036	CR 23.140 Rel-4: Address hiding outside MMS	Ericsson	SWG3

T2-011037	CR 23.140 Rel-5: Address hiding outside MMS	Ericsson	SWG3
T2-011038	CR 23.040 Rel-5: Standard Midi File Format (Polyphonic Sound) for EMS	Ericsson	SWG3
T2-011039	Standard Midi File Format for EMS - Supporting Information	Ericsson	SWG3
T2-011040	Distribution Lists on MM7	Logica	SWG3
T2-011041	MM7 Issues	Logica	SWG3
T2-011042	LS to WAP Forum MMDC on reply-charging (former T2M010188)	Siemens	SWG3
T2-011043	CR 23.140 Rel-5: Editorial clarification of the reply-charging service behaviour description (former T2M010136)	Siemens	SWG3
T2-011044	MM3 E-mail Notification Protocol	Motorola	SWG3
T2-011045	A compression method for SVG content	Ericson, Nokia, Siemens, ZOOMON	SWG3
T2-011046	CR 23.040 Rel-5: Vector Graphics Format for EMS	Ericson, Nokia, Siemens, ZOOMON	SWG3
T2-011047	MMS Security services using USIM and S/MIME (doc file)	GEMPLUS	SWG3
T2-011048	MMS Security services using USIM and S/MIME (ppt file)	GEMPLUS	SWG3
T2-011049	CR 23.140: MMS Security services using USIM and S/MIME	GEMPLUS	SWG3
T2-011050	3GPP MMS recipient address resolution	Openwave	SWG3
T2-011051	CR 23.140 Rel-5 (Recipient MSISDN address resolution)	Openwave	SWG3
T2-011052	3GPP MMS based on existing IETF messaging protocols	Openwave	SWG3
T2-011053	CR 23.140 (MM1 Technical realization based on existing IETF Messaging Protocols)	Openwave	SWG3
T2-011054	Multimedia Messaging Service	Openwave and others	SWG3
T2-011055	Release 5 MMS Implementation	BT	SWG3
T2-011056	withdrawn	Siemens	SWG3
T2-011057	Priority of SWG3 MMS work until T2#16, February 2002	Siemens	SWG3
T2-011058	Status of MMS action items	Siemens	SWG3
T2-011059	CR 23140-500 terminal capability negotiation - revised T2M010169	Siemens	SWG3
T2-011060	CR 23.040 Rel-5: Line Drawing Object in EMS	Bijitec	SWG3
T2-011061	Line Drawing Messaging Overview	Bijitec	SWG3
T2-011062	Line Drawing Data Size Report	Bijitec	SWG3
T2-011063	CR 23.140 Rel-4: Correction of the Forwarding Feature	Siemens	SWG3
T2-011064	CR 23.040 Data Format Delivery Request Cmd	Motorola	SWG3
T2-011065	CR 23.040 EO Positioning	Motorola	SWG3
T2-011066	CR 23.040 Object Distribution Clarification	Motorola	SWG3
T2-011067	CR 23.040 Service Shortcodes	Motorola	SWG3
T2-011068	CR 23.040 IEI Classification	Motorola	SWG3
T2-011069	CR 23.040 EMS Polyphonic MIDI	Motorola	SWG3
T2-011070	EMS MIDI	Motorola	SWG3
T2-011071	CR 23.040 iSketch in EMS	Motorola	SWG3
T2-011072	iSketch overview	Motorola	SWG3
T2-011073	CR 23.040 Rel-5: Subaddressing	Swapcom	SWG3
T2-011074	CR 23.040 Rel-5: Alternate Return address	Swapcom	SWG3
T2-011075	Short SMIL Basic Introduction	Telia	SWG3
T2-011076	CR 23.040 Rel-5: Support of polyphonic melodies in EMS	Alcatel	SWG3
T2-011077	Discussion on the support of polyphonic melodies in EMS	Alcatel	SWG3

T2-011078	Discussion on MIME type registrations	Alcatel	SWG3
T2-011079	XHTML in MMS	Openwave	SWG3
T2-011080	MM1 Qualified Retrievals	Openwave	SWG3
T2-011081	withdrawn		SWG3
T2-011082	withdrawn		SWG3
T2-011083	HTTP based Solution for MM1	Comverse	SWG3
T2-011084	CR 23.140 Rel-5: Technical Realisation of MM1 Interface based on tunnelled SMTP and IMAP protocols	Comverse, Schlumberger Sema	SWG3
T2-011085	Alternative MM1 implementation for Release 5 (revised to T2-011098)	Schlumberger Sema	SWG3
T2-011086	not used		SWG3
T2-011087	CR 23.140: MMS Abstract Messages	Comverse	SWG3
T2-011088	CR 23.140: Before a proper solution for addressing is available	KT ICOM	SWG3
T2-011089	compression vectors	Magic4	SWG3
T2-011090	request for clarification about WDP over CBS	CMG/Swapcom	SWG3
T2-011091	Recommendations regarding polyphonic format for EMS R5	France Telecom	SWG3
T2-011092	CR 23.038: User Data Header support over CB	Magic4	SWG3
T2-011093	Input Statement from Bijitec	Bijitec	SWG3
T2-011094	discussions on Polyphony	Digiplug	SWG3
T2-011095	MMS Charging specs	France Telecom	SWG3
T2-011096	SWG3 chair proposal for motion of vote on non-WAP 1.x impl. of MM1 in Rel-5	SWG3 chair	SWG3
T2-011097	priority of SWG3 MMS work until T2#16 (revised T2-011057)	Siemens	SWG3
T2-011098	Alternative MM1 implementation for Release 5	Schlumberger Sema	SWG3
T2-011099	LS to SERG and others on address resolution in MMS	Comverse	OP
T2-011100	Storage of MMS parameters on the USIM	Siemens	SWG3
T2-011101	not used		SWG3
T2-011102	Alternative MM1 implementation for Release 5	SWG3 chair	SWG3
T2-011103	CR 23140 changes on MM1 and MM4 abstract messages	Materna	SWG3
T2-011104	CR 23140 editorial changes	Materna	SWG3
T2-011105	user prompt	Ericsson	SWG3
T2-011106	MM3 principles document (T2M010130)	Comverse	SWG3
T2-011107	CR 23140 Streaming CR (T2M010132)	Comverse	SWG3
T2-011108	CR 23.038 Rel-4: Deletion of GSM 01.04 reference	MCC	SWG3
T2-011109	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	SWG3
T2-011110	CR 23.140 REL-5 on forwarding feature	Siemens, Logica	SWG3
T2-011111	CR 23.140 REL-4 on indeterminate value	Ericsson	SWG3
T2-011112	CR 23.140 Rel-4: Forwarding Counter - revised T2-011006	Logica	SWG3
T2-011113	CR 23.140 Rel-5: Forwarding Counter - revised T2011007	Logica	SWG3
T2-011114	LS to SA4 on MMS presentation format	Openwave	SWG3
T2-011115	CR 23.140v440 for removing inconsistency (T2M010194)	Nokia, Siemens	SWG3
T2-011116	CR 23.140v500 for removing inconsistency (T2M010195)	Nokia, Siemens	SWG3
T2-011117	LS reply to WAP WAG MMDC: Forwarding Issues	Logica	SWG3
T2-011118	LS to WAP Forum MMDC on reply-charging (former T2M010188)	Siemens	SWG3

T2-011119	CR 23.140 REL-5 on indeterminate value	Ericsson	SWG3
T2-011120	CR 23140 REL-4 corrections on MM1 and MM4 abstract messages	Materna	SWG3
T2-011121	CR 23140 REL-5 corrections on MM1 and MM4 abstract messages	Materna	SWG3
T2-011122	LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations	CMG	SWG3
T2-011123	withdrawn	withdrawn	SWG3
T2-011124	withdrawn	withdrawn	SWG3
T2-011125	MSIG Members Statement to 3GPP T2 regarding the MMS standardisation of Addressing	several	SWG3
T2-011126	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	SWG3
T2-011127	CR 23140 REL-5 corrections on MM1 and MM4 abstract messages	Materna	SWG3
T2-011128	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	SWG3
T2-011129	CR 23.140 REL-5 on forwarding feature	Siemens, Logica	SWG3
T2-011130	Classmark 4 code safety verification	MExE group	SWG1
T2-011131	CR 23.057 Rel-4: Certificate chain level inconsistency	TTPCom	SWG1
T2-011132	CR 23.057 Rel-4: Signature algorithm specification	TTPCom	SWG1
T2-011133	CR 23.057 - Marking MRPK Valid through Secure Mechanism	Intel	SWG1
T2-011134	CR 23.057 - Context of MCC+MNC Missing	Intel	SWG1
T2-011135	CR 23.057 - Context of MCC+MNC Missing	Intel	SWG1
T2-011136	CR 23.057 REL-4: (Sun reference removal)	HP	SWG1
T2-011137	WID MEXE SECURITY	SWG1	SWG1
T2-011138	New PKCS#15 and reference alignment	TTPCom	SWG1
T2-011139	Reference clarification message	MExE group	SWG1
T2-011140	not used		SWG1
T2-011141	not used		SWG1
T2-011142	not used		SWG1
T2-011143	not used		SWG1
T2-011144	not used		SWG1
T2-011145	not used		SWG1
T2-011146	not used		SWG1
T2-011147	not used		SWG1
T2-011148	not used		SWG1
T2-011149	not used		SWG1
T2-011150	LS to SERG and others on address resolution in MMS (revised 1099)	Comvers. Openwave	OP
T2-011151	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	SWG3
T2-011152	CR 23.040 Rel-5: Line Drawing Object in EMS	Bijitec	SWG3
T2-011153	Input statement on polyphony in EMS	Digiplug	SWG3
T2-011154	CR23.040 Correction on SMS Information Element Data Length	Alcatel	SWG3
T2-011155	CR 23.040 Extended Object Data Request Command	Motorola	SWG3
T2-011156	CR 23.040 Extended Object Data Request Command	Motorola	SWG3
T2-011157	Vector Graphics Data Format Comparison (isketch)	Motorola	SWG3
T2-011158	CR 23.040 EO Positioning	Motorola	SWG3
T2-011159	Common agreement on the support of Polyphony in EMS	Alcatel, Ericsson, Motorola,	SWG3

		Digiplug	
T2-011160	CR 23.040 R97 Correction on SMS Information Data Length	Alcatel	SWG3
T2-011161	CR 23.040 R98 Correction on SMS Information Data Length	Alcatel	SWG3
T2-011162	CR 23.040 R99 Correction on SMS Information Data Length	Alcatel	SWG3
T2-011163	CR 23.040 R4 Correction on SMS Information Data Length	Alcatel	SWG3
T2-011164	CR 23.040 R5 Correction on SMS Information Data Length	Alcatel	SWG3
T2-011165	Selection of Data Formats for Vector Graphics	TEMC2	SWG3
T2-011166	Support of User data Header structure in CBS	CMG	SWG3
T2-011167	not used		SWG3
T2-011168	not used		SWG3
T2-011169	not used		SWG3
T2-011170	LS to CN, T and SA on UE Functionality Split	JM UE-FS	SWG2
T2-011171	LS to SA1 Update to T2-010911 UE FS Requirements	JM UE FS	SWG2
T2-011172	Joint Meeting UE Split Meeting Report	JM UE-FS	SWG2
T2-011173	SyncML and DevMan presentation	SyncML initiative	SWG2
T2-011174	LS to SyncML with follow-up questions	Rob L.	SWG2
T2-011175	CR 23.227 Correction in WAP Forum Reference	Ericsson	SWG2
T2-011176	CR 23.227 Text added to Figure A.1	Ericsson	SWG2
T2-011177	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	SWG2
T2-011178	LS to CN1, SA4 cc: TSG-T on UMTS_AMR_2	Sharp	SWG2
T2-011179	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	SWG2
T2-011180	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	SWG2
T2-011181	CR 27.007 Rel-4: alignment of UE architecture description to 23.101	Ericsson	SWG2
T2-011182	CR 27.007 Rel-99: alignment of UE architecture description to 23.101	Ericsson	SWG2
T2-011183	Request for formation of T2 Generic User Profile (T2-GUP) Ad-Hoc	SWG2	SWG2
T2-011184	LS to SyncML cc CN4, SA1, SA3, SA5, T3, GUP ad hoc with follow-up questions	Motorola	SWG2
T2-011185	not used		SWG2
T2-011186	not used		SWG2
T2-011187	not used		SWG2
T2-011188	not used		SWG2
T2-011189	not used		SWG2
T2-011190	report from 2nd meeting on application testing, Busan, Korea September 6th and 7th, 2001	T1	JM T1/T2
T2-011191	LS from T1 to T2 concerning a future joint meeting in November	T1	JM T1/T2
T2-011192	documents from the Munich ad hoc on application testing, Munich, Germany 1 August 2001	T1	JM T1/T2
T2-011193	work item index for conformance and application testing	T1	JM T1/T2
T2-011194	not used		JM T1/T2
T2-011195	not used		JM T1/T2
T2-011196	not used		JM T1/T2
T2-011197	not used		JM T1/T2
T2-011198	not used		JM T1/T2
T2-011199	not used		JM T1/T2
T2-011200	CR 23.140: Read status codes	Ericsson	SWG3
T2-011201	CR 23.140: Read status codes	Ericsson	SWG3

T2-011202	MM4 routing	Nokia	SWG3
T2-011203	CR 23.140 REL-5 MM7 abstract messages - revised T2-011087	Comverse, Materna, Logica	SWG3
T2-011204	withdrawn	withdrawn	SWG3
T2-011205	Statement the MMS standardisation on MM1 protocol	KPN, Intel, Openwave Systems	SWG3
T2-011206	MMS REL-5 work plan	SWG3 chair	SWG3
T2-011207	Priority list of SWG3 MMS REL-5 work	SWG3 chair	SWG3
T2-011208	suggested compromise on non-WAP 1.x MM1	SWG3 chair	SWG3
T2-011209	2nd suggested compromise on non-WAP 1.x MM1	SWG3 chair	SWG3
T2-011210	Storage of MMS parameters on the USIM	T3 secretary	SWG3
T2-011211	CR 23.140 Rel-5: Configuration of MMS-capable UE	Nokia	SWG3
T2-011212	LS to IREG cc SERG, SA1, SA2 on MM4 routing	Nokia	SWG3
T2-011213	CR 23140 REL-5 MMS standardised presentation language	MMO2	SWG3
T2-011214	LS to SA1 and SA4 on MMS media sequencing, synchronisation and presentation	Comverse	SWG3
T2-011215	not used		SWG3
T2-011216	not used		SWG3
T2-011217	not used		SWG3
T2-011218	not used		SWG3
T2-011219	not used		SWG3
T2-011220	not used		SWG3
T2-011221	not used		SWG3
T2-011222	not used		SWG3
T2-011223	not used		SWG3
T2-011224	not used		SWG3
T2-011225	not used		SWG3
T2-011226	not used		SWG3
T2-011227	not used		SWG3
T2-011228	not used		SWG3
T2-011229	not used		SWG3
T2-011230	security toolbox	Ericsson	SWG1/SWG 2
T2-011231	LS from SA3 on IMS identifiers and ISIM and USIM	S3-010647	CP
T2-011232	draft report T1/T2 joint meeting on application enabler testing	T1/T2 JM	CP
T2-011233	CR 23.140 Rel-5: MMS address hiding	MCC	SWG3
T2-011234	CR 23.140 Rel-5: reply-charging clarifications	MCC	SWG3
T2-011235	draft report of joint meeting SA5/T2 on MMS charging	France Telecom	CP
T2-011236	LS from CN5 on Confirmation of OSA Support for VASP MMS Connectivity	N5-011160	SWG3
T2-011237	LS from GSMA MSIG & SERG on MMS standardisation of MM1 Release 5	GSMA 158/01	SWG3
T2-011238	LS from SA3 on Configuration of ciphering	S3-010675	CP
T2-011239	draft report joint meeting SA5/T2 on UEM		CP
T2-011240	CR 23.227: Applic/User Interaction UE (revised 965)	SWG2	CP
T2-011241	CR to 27.007 Rel-5 Correction of chapter heading and references (revised 976)	SWG2	CP
T2-011242	CR to 27.007 REL-4 Different compression algorithms in AT command +CGDCONT (revised 980)	SWG2	CP

T2-011243	registration on MIME types	Alcatel	CP
T2-011244	WID MEXE SECURITY (revised 1137)	SWG1	CP
T2-011245	CR 23.057: New PKCS#15 and reference alignment (revised 1138)	SWG1	CP
T2-011246	report of SWG3 at T2#15 (revised 1001)	Siemens	CP
T2-011247	CR 23.040 R97 Correction on SMS Information Data Length (revised T2-011160)	SWG3	CP
T2-011248	CR 23.040 R98 Correction on SMS Information Data Length (revised T2-011161)	SWG3	CP
T2-011249	CR 23.040 R99 Correction on SMS Information Data Length (revised T2-011162)	SWG3	CP
T2-011250	CR 23.040 R4 Correction on SMS Information Data Length (revised T2-011163)	SWG3	CP
T2-011251	CR 23.040 R5 Correction on SMS Information Data Length (revised T2-011164)	SWG3	CP
T2-011252	report of SWG3 at T2#15 (revised T2-011246)	Siemens	CP
T2-011253	WID application enabler testing	T1-010545	CP
T2-011254	CR 23.040 Data Format Delivery Request Cmd (revised 1068)	SWG3	CP
T2-011255	LS from SA5 on User Equipment Management (UEM)	S5-010722	CP
T2-011256	LS reply to WAP WAG MMDC: Forwarding Issues (revised 1117)	SWG3	CP

Annex B Outgoing Documents

B.1 Change Requests submitted to TSG-T#14

The following CRs will be submitted to TSG-T#14 for approval:

"MExE" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.057	098		Rel-4	Changing figure number 6A to 7	F	4.3.1	4.4.0	T2-010946	MEXE-ENHANC
23.057	099		Rel-4	Spell check and clarifications	F	4.3.1	4.4.0	T2-010957	MEXE-ENHANC
23.057	100		Rel-4	Addition reference to 23.227	F	4.3.1	4.4.0	T2-010959	MEXE-ENHANC
23.057	101		Rel-4	Certificate chain level inconsistency	F	4.3.1	4.4.0	T2-011131	MEXE-ENHANC
23.057	102		Rel-4	Signature algorithm specification	F	4.3.1	4.4.0	T2-011132	MEXE-ENHANC
23.057	103		Rel-4	Marking MRPK/ARPK Invalid through Secure Mechanism	F	4.3.1	4.4.0	T2-011133	MEXE-ENHANC
23.057	104		Rel-4	Context of MCC+MNC Missing	F	4.3.1	4.4.0	T2-011135	MEXE-ENHANC
23.057	105		Rel-4	Removing References to Sun Microsystems	F	4.3.1	4.4.0	T2-011136	MEXE-ENHANC
23.057	106		Rel-4	Correction of PKCS #15 reference and editorial changes	F	4.3.1	4.4.0	T2-011245	MEXE-ENHANC

"Terminal Interfaces and Capabilities" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
07.07	A90	1	R98	Obsolete +CGCLOSP and corrections due to IHOSS and OSP removal	F	7.6.0	7.7.0	T2-010969	TEI
27.007	069	1	R99	Obsolete +CGCLOSP and corrections due to IHOSS and OSP removal	A	3.9.0	3.10.0	T2-010970	TEI
27.007	070	1	Rel-4	Obsolete +CGCLOSP and corrections due to IHOSS and OSP removal	A	4.2.0	4.3.0	T2-010971	TI-ATC
27.007	071	1	R99	Obsolete +CGCLPAD and corrections due to X.25 removal	F	3.9.0	3.10.0	T2-010972	TEI
27.007	072	1	Rel-4	Obsolete +CGCLPAD and corrections due to X.25 removal	A	4.2.0	4.3.0	T2-010973	TI-ATC
27.007	073		R99	Clarifications to AT commands used with circuit swiched data	F	3.9.0	3.10.0	T2-010967	TEI
27.007	074		Rel-4	Clarifications to AT commands used with circuit swiched data	A	4.2.0	4.3.0	T2-010968	TI-ATC
27.007	075		R99	Correction in the +CGACT command explanation	F	3.9.0	3.10.0	T2-010974	TEI
27.007	076		Rel-4	Correction in the +CGACT command explanation	A	4.2.0	4.3.0	T2-010975	TI-ATC
27.007	077		Rel-4	Correction of chapter heading and references	F	4.2.0	4.3.0	T2-011241	TI-ATC
27.007	078		R99	Different compression algorithms in AT command +CGDCONT and +CGDSCONT	F	3.9.0	3.10.0	T2-010979	TEI
27.007	079		Rel-4	Different compression algorithms in AT command +CGDCONT and +CGDSCONT	A	4.2.0	4.3.0	T2-011242	TI-ATC
27.007	080		Rel-5	New AT command +CRMC (Ring Melody Control)	B	4.2.0	5.0.0	T2-011179	TEI5
27.007	081		Rel-5	Added reference to 23.227	B	4.2.0	5.0.0	T2-011180	TEI5
23.227	001		Rel-5	Expansion of introduction and clarifications of scope	F	4.0.0	5.0.0	T2-011240	TLM5

23.227	002		Rel-4	Correction in WAP Forum Reference	F	4.0.0	4.1.0	T2-011175	TLM
23.227	003		Rel-4	Text added to Figure A.1	F	4.0.0	4.1.0	T2-011176	TLM
23.227	004		Rel-5	Add the interaction requirements for USAT bearer independent protocol via local links	F	4.0.0	5.0.0	T2-011177	TLM5

"Messaging" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers -Curr	Vers- New	T2 Tdoc	Workitem
03.40	A090		R97	Correction on SMS Information Element Data Length	F	6.1.0	6.2.0	T2-011247	TEI
03.40	A091		R98	Correction on SMS Information Element Data Length	A	7.4.0	7.5.0	T2-011248	TEI
23.038	008		Rel-4	Deletion of GSM 01.04 reference	F	4.3.0	4.4.0	T2-011108	TEI4
23.040	034		Rel-5	Correction of Data Format Delivery Request	F	5.1.0	5.2.0	T2-011004	TEI5
23.040	035		Rel-5	Information Element Classification	F	5.1.0	5.2.0	T2-011254	TEI5
23.040	036		Rel-5	Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	F	5.1.0	5.2.0	T2-011151	MESS5-EMS
23.040	037		Rel-5	Extended Object Positioning	F	5.1.0	5.2.0	T2-011158	TEI5
23.040	038		R99	Correction on SMS Information Element Data Length	A	3.6.0	3.7.0	T2-011249	TEI
23.040	039		Rel-4	Correction on SMS Information Element Data Length	A	4.4.0	4.5.0	T2-011250	TEI4
23.040	040		Rel-5	Correction on SMS Information Element Data Length	A	5.1.0	5.2.0	T2-011251	TEI5
23.041	008		Rel-4	Clarification on the use of Message IDs in multi-technology networks	F	4.1.0	4.2.0	T2-011024	TEI4
23.140	018		Rel-4	Reference to TS 29.061 specification on RADIUS usage	F	4.4.0	4.5.0	T2-011019	MMS
23.140	019		Rel-5	Reference to TS 29.061 specification on RADIUS usage	A	5.0.0	5.1.0	T2-011020	MESS5-MMS
23.140	020		Rel-5	Clarification of the reply-charging service behaviour description	F	5.0.0	5.1.0	T2-011043	MESS5-MMS
23.140	021		Rel-4	Correction of MM Status Code	F	4.4.0	4.5.0	T2-011111	MMS
23.140	022		Rel-4	Clarification of Forwarding in MM1 message retrieval	F	4.4.0	4.5.0	T2-011112	MMS
23.140	023		Rel-5	Clarification of Forwarding in MM1 message retrieval	A	5.0.0	5.1.0	T2-011113	MESS5-MMS
23.140	024		Rel-4	Removing inconsistency of mandated functionality	F	4.4.0	4.5.0	T2-011115	MMS
23.140	025		Rel-5	Removing inconsistency of mandated functionality	A	5.0.0	5.1.0	T2-011116	MESS5-MMS
23.140	026		Rel-5	Correction of MM Status Code	A	5.0.0	5.1.0	T2-011119	MESS5-MMS
23.140	027		Rel-4	Correction on MM1 and MM4 abstract messages	F	4.4.0	4.5.0	T2-011120	MMS
23.140	028		Rel-5	Correction on MM1 and MM4 abstract messages	A	5.0.0	5.1.0	T2-011127	MESS5-MMS
23.140	029		Rel-4	clarification of status codes in MM4_read_reply_report.REQ	F	4.4.0	4.5.0	T2-011200	MMS
23.140	030		Rel-5	clarification of status codes in MM4_read_reply_report.REQ	A	5.0.0	5.1.0	T2-011201	MESS5-MMS
23.140	031		Rel-5	Configuration of MMS-capable Ues	B	5.0.0	5.1.0	T2-011211	MESS5-MMS
23.140	032		Rel-5	MMS address hiding	F	5.0.0	5.1.0	T2-011233	MESS5-MMS
23.140	033		Rel-5	reply-charging clarifications	F	5.0.0	5.1.0	T2-011234	MESS5-MMS

B.2 Liaison Statements

The following LSs have been sent from T2#15:

TDOC	Subject	Comments
T2-011118	LS to WAP Forum MMDC on reply-charging (former T2M010188)	sent 03/12/01
T2-011122	LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations	sent 30/11/01 (during the meeting)
T2-011150	LS to SERG and others on address resolution in MMS (revised 1099)	sent 26/11/01 (during the meeting)
T2-011170	LS to CN, T and SA on UE Functionality Split	sent 03/12/01
T2-011171	LS to SA1 Update to T2-010911 UE FS Requirements	sent 03/12/01
T2-011178	LS to CN1, SA4 cc: TSG-T on UMTS_AMR_2	sent 03/12/01
T2-011184	LS to SyncML cc CN4, SA1, SA3, SA5, T3, GUP ad hoc with follow-up questions	sent 03/12/01
T2-011256	LS reply to WAP WAG MMDC: Forwarding Issues (revised 1117)	sent 03/12/01

B.3 Reports/Specifications submitted to TSG-T#14

No specifications/reports to be forwarded to TSG-T#14.

B.4 Other documents submitted to TSG-T#14

The following other documents were agreed to be submitted to TSG-T#14:

TDOC	Subject
T2-011244	Revised WID MExE security analysis Rel-5 for approval

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Total number of delegates: 85

Annex D: Report from SWG1 Execution Environment

Source: SWG1 Chair

Executive Summary:

General:

13 delegates, 53 tdocs, 10 output papers.

MEXE-ENHANC Work Item:

The three CLI rolling CR's (tdoc 926, tdoc 1130 and tdoc 925) were agreed upon, and will be presented at the next T2 meeting. Lots of questions were raised from Nokia. Microsoft will provide answers on the E-mail reflector.

CR's concerning minor technical clarifications, additions and corrections have been agreed to the release 4 version of the MExE specification.

A restructuring of the MExE specification were discussed (tdoc 927), to make the specification more readable and to remove a lot of the forward references.

Other discussions concerning making the MExE specification easier to use as implementation guide, for example by clarifying the interpretation of the user control and making for example the administrator role optional.

A discussion took place regarding putting more overall architectural information for classmark 3 into the specification (tdoc 935).

MEXE-SEC Work Item:

Tdoc T2-011137 is the WID, updated with a new rapporteur name (Ernest Woodward), new timescale (June 2002) and the exchange of the tdoc numbers 21.133 to 33.900.

We had presentations from both Intel and Ericsson, regarding states of public keys and certificates. The presentations can be found in tdoc 937 and 947.

According to the discussion, further work to clarify the specification and understand the state concepts will be needed.

Any Other Business:

A new WID was presented by Intel, concerning a run-time independent classmark. The group was positive, and further discussions and clarifications will take place on the MExE email reflector.

Ericsson again presented the security toolbox model. Mixed feelings were expressed in the MExE group regarding this presentation. Comments were made that we don't have the expertise to do this work, that we don't have the time, that WAP already has done it and we should just refer to their specs.

Other comments were that it was a good idea, that the concept was good and it should be done in the MExE group and that it goes fine along with the run-time independent classmark work.

TTPCom also made a presentation of their Wireless Game Engine, to maybe be included as a fifth classmark. Further presentations will follow.

The MExE group felt a need to get some clarifications regarding the reference policy in 3GPP. Tdoc 1139 contains the questions the group would like to get clarified, and which will be posted on the reflector and to Friedhelm.

Future Meetings:

Meeting	Date	Venue	Comment
T2#16	11-15 Feb 2002	(Sophia Antipolis ?)	No host identified yet
T2#17	13-17 May 2002	(Korea ?)	No host identified yet

Output Change Requests:

TDoc	Title	Source	Comment
T2-010946	CR 23.057 REL-4: Changing figure number 6A to 7	TTPCom	
T2-010957	CR 23.057 REL-4: Spell check in 23.057	TTPCom	
T2-010959	CR 23.057 REL-4 Add reference to 23.227	Ericsson	
T2-011131	CR 23.057 REL-4: Certificate chain level inconsistency	TTPCom	
T2-011132	CR 23.057 REL-4: Signature algorithm specification	TTPCom	
T2-011133	CR 23.057 REL-4: Marking MRPK Valid through Secure Mechanism	Intel	
T2-011135	CR 23.057 REL-4: Context of MCC+MNC Missing	Intel	
T2-011136	CR 23.057 REL-4: (Sun reference removal)	HP	
T2-011137	WID MEXE SECURITY	MExE group	
T2-011138	CR 23.057 REL-4: New PKCS#15 and reference allignment	TTPCom	

Output Liaison Statements:

TDoc	Title	Source	Comment

Detailed Report:

Opening of the meeting

The Chairman (Lars Brenk, TTPCom) opened the meeting.

Approval of the draft agenda

Tdoc	Subject	SOURCE
T2-MExE-010920	Draft agenda SWG1 MExE at T2#15	Chairman

Tdoc presented by Lars Brenk, Chairman.

Conclusion:

The agenda was agreed.

Introductions

Delegates introduced themselves, and are listed in the participants annex.

Call for IPR

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective Organizational Partners of Essential IPRs they become aware of.**

The members take note that they are hereby invited:

- ?? To investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- ?? To notify the Chairman, or the Director-General of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

Registration of input documents

See Annex A.

Results of previous meetings

Meeting report

Tdoc	Subject	SOURCE
T2-010923	Report from MExE ad-hoc in Portland 23-25 October Agreed	Chairman

Tdoc presented by Lars Brenk, Chairman.

The meeting report from the previous ad-hoc meeting in Portland had undergone some changes via comments on the email reflector. No further comments were made here.

Conclusion:

Tdoc T2-010923 was agreed.

T2-010938	MExE TSG-T2 opening plenary report Noted	Chairman
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Tdoc presented by Lars Brenk, Chairman.

The presentation was made in the T2 open plenary.

Conclusion:

Tdoc T2-010938 was noted.

E-mail activity

Tdoc	Subject	SOURCE
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No documents were required for email approval since the last MExE meeting in Portland.

Action Items and other issues

Action Items

- ?? **Pubudu Chandrasiri - to contact Telsta (carried over from Athens MExE meeting)**
- ?? **Tim Wright - (for Tdoc 651 Ericsson presentation) to scope out a new TS and raise in SA3 at their next meeting (October). Get a response sent from SA3 to the MExE October meeting.**
- ?? **Microsoft (for Mike Smith) - to provide an explanation of the CLI security model, for future MExE meeting (before end 2001).**
- ?? **Bo Johansson - to continue on certificate state discussion on email.**
- ?? **Ernie Woodward - to analyse Tdoc 673 and perform a matrix breakdown by 20th September.**
- ?? **Nicola Sugimoto - to produce templates for the MExE business model.**
- ?? **All - discuss with own S3 delegates regarding MExE security work (Tdoc 651)**
- ?? **All - discuss at home regarding PKCS#15 adoption (LS to T3).**

A quick walk through of the status of the different action points from the Edinburgh/Portland meeting were made:

1. Pubudu was not present. No info.
2. Tim Wright was not present. No info.
3. Mike Smith was not present but will prepare a presentation of the CLI security model at the next T2 meeting.
4. Bo Johansson provided an input document (tdoc 947) on the topic.
5. Ernie Woodward looked at the document and made the matrix breakdown.
6. Nicola Sugimoto ran into some copyright problems. Information regarding business models can be found on www.iso.ch.
7. The general response from the delegates was that the MExE security work should be kept inside the MExE group.
8. No response from T3 yet. Further discussion postponed.

Other Issues

A new version of the MExE specification (23.057) is needed. MCC ran a report style check on the specification between version 4.2.0 and 4.3.0, and changed a lot of definitions to include notes instead of using more than one line. No problem here.

Furthermore they by accident removed a lot of URL's from the reference section as well. We need them back :-)

Others

Tdoc	Subject	SOURCE

No input.

Incoming LS

Tdoc	Subject	SOURCE

No input.

MExE Security Analysis Activity

Tdoc	Subject	SOURCE
T2-010922	Mail: TSG-T#13 results Noted	ETSI/MCC

Tdoc presented by Lars Brenk, Chairman.

The MExE Security Analysis Activity needed a new rapporteur. Discussions took place if we needed the WID at all, since basically nothing has been done here. Ernie Woodward volunteered to become the new rapporteur.

Conclusion:

Tdoc T2-010922 was noted.

Tdoc	Subject	SOURCE
TP-010195	WID MEXE SECURITY Updated in 1137	MCC
T2-011137	WID MEXE SECURITY Agreed Updated from TP-010195	MExE group

Tdoc presented by Lars Brenk, Chairman.

The tdoc TP-010195 was updated with the new rapporteur name (Ernest Woodward), new timescale (June 2002) and the exchange of the tdoc numbers 21.133 to 33.900.

Conclusion:

Tdoc TP-010195 was noted.

Tdoc T2-011137 was agreed.

Tdoc	Subject	SOURCE
T2-010937	Presentation on States of Public Keys and Certificates Noted	Intel

Tdoc presented by Ernie Woodward, Intel.

The presentation, together with 947, started a lengthy debate, regarding how to interpretate the specification, regarding the states of certificates and RPK's.

In this presentation, Intel looks at the overall two states the RPK can be in, namely valid/invalid.

Conclusion:

Tdoc T2-010937 was noted.

Tdoc	Subject	SOURCE
T2-010947	State of RPK Noted	Ericsson

Tdoc 927 was presented by Bo Johansson, Ericsson.

In this presentation, Ericsson looks at how to arrive to the overall states of the RPK, by determining the substates of both certificates and the RPK.

Conclusion:

Tdoc T2-010947 was noted.

Tdoc	Subject	SOURCE
T2-010936	States of Public Keys and Certificates Noted	Intel

Conclusion:

Tdoc T2-010936 was noted

Tdoc	Subject	SOURCE
T2-010934	CR 23.057 – Certificate and Public Key Validation Noted	Intel
T2-010955	Comments to 72-010934 Noted	Nokia

Tdoc 934 was presented by Ernie Woodward, Intel.

Tdoc 955 was presented by Lars Brenk, Chairman.

The overall feeling from the group was that this clarification CR is ok, it just needs to have some textual changes and modifications incorporated.

Conclusion:

Tdoc T2-010934 was noted.

Tdoc T2-010955 was noted.

MExE 22.057 contributions and change requests

Tdoc	Subject	SOURCE

No input.

MExE 23.057 contributions and change requests

Security

CLI

Tdoc	Subject	SOURCE
T2-010926	CR 23.057: CLI classmark 4 – security Agreed as a rolling release 5 CR	Microsoft
T2-010950	Comments to 72-010926	Nokia

	Noted. Action for Microsoft to post answers on reflector.	
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Tdocs presented by Lars Brenk, Chairman.

Tdoc 950 raised a lot of concerns and questions from Nokia.

The CLI binary file format is specified in the ECMA CLI specification, and is the Portable Executable (PE) format, a standard file format.

It is possible to send signed content. One possible way could be to use the signed JAR file format.

CLI has a granular and flexible application security model that can be mapped to the existing MExE security domains. Further discussion is required to reach consensus on the desired security model mapping and any other MExE-specific normative requirements.

Since neither a Nokia delegate or the Microsoft security expert were present, and there was insufficient time to review the Nokia comments prior to the meeting, it was decided to create an action point, in which Microsoft will post detailed answers on the MExE email reflector.

Conclusion:

Tdoc T2-010926 was noted.

Tdoc T2-010950 was noted.

Tdoc	Subject	SOURCE
T2-010924	Classmark 4 code safety verification Updated in tdoc 1130	MExE group
T2-010948	Comments to 72-010924 Noted. Action for Microsoft to post answers on reflector.	Nokia
T2-011130	Classmark 4 code safety verification Updated from 924. Agreed as a rolling release 5 CR. Action for Microsoft to merge tdoc 1130 into tdoc 926.	MExE group

Tdocs presented by Lars Brenk, Chairman.

Tdoc 948 raised a lot of concerns and questions from Nokia.

The group agreed that normative text is required to ensure unsafe applications do not run within MExE devices.

There was an unresolved question on whether the CR text should refer only to verification, or also to validation.

The general feeling in the group was that the group might need additional “education” in CLI, e.g. a white paper that provides a high-level introduction to the ECMA CLI specification.

Since neither a Nokia delegate or the Microsoft security expert were present, and there was insufficient time to review the Nokia comments prior to the meeting, it was decided to create an action point, in which Microsoft will post the answers on the MExE email reflector.

Conclusion:

Tdoc T2-010924 was noted.

Tdoc T2-010948 was noted.

Tdoc T2-011130 was noted.

Others

Tdoc	Subject	SOURCE
T2-010940	CR 23.057 Rel-4: Certificate chain level inconsistency Updated in tdoc 1131	TTPCom
T2-011131	CR 23.057 Rel-4: Certificate chain level inconsistency Agreed, updated from 940	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Minor textual changes were made online to tdoc 940 and presented in 1131, which was agreed.

Conclusion:

Tdoc T2-010940 was noted.

Tdoc T2-011131 was agreed.

Tdoc	Subject	SOURCE
T2-010941	CR 23.057 Rel-4: Signature algorithm specification Updated in tdoc 1132	TTPCom
T2-011132	CR 23.057 Rel-4: Signature algorithm specification Agreed, updated from 941	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Minor textual changes were made online to tdoc 941 and presented in 1132, which was agreed.

Conclusion:

Tdoc T2-010941 was noted.

Tdoc T2-011132 was agreed.

Tdoc	Subject	SOURCE
T2-010932	CR 23.057 - Marking MRPK Valid through Secure Mechanism Updated in 1133	Intel
T2-011133	CR 23.057 - Marking MRPK Valid through Secure Mechanism Updated from 932 Agreed	Intel

Tdoc presented by Ernie Woodward, Intel.

The specification didn't talk about secure mechanisms for marking a certificate invalid. Rewording of tdoc 932 achieving this was done in tdoc 1133 and represented.

Conclusion:

Tdoc T2-010932 was noted.

Tdoc T2-011133 was .

Tdoc	Subject	SOURCE
T2-010933	CR 23.057 - Context of MCC+MNC Missing Updated in 1134	Intel
T2-011134	CR 23.057 - Context of MCC+MNC Missing Updated from 933, updated in 1135	Intel
T2-011135	CR 23.057 - Context of MCC+MNC Missing Agreed Updated from 1134	Intel

Tdoc presented by Ernie Woodward, Intel.

Instead of deleting the note in tdoc 933, an explanation for the note was added in tdoc 1134 and represented.

Conclusion:

Tdoc T2-010933 was noted.

Tdoc T2-011134 was .

Non security

CLI

Tdoc	Subject	SOURCE
T2-010925	CR 23.057: CLI classmark 4 – non-security Agreed as a rolling release 5 CR	Microsoft
T2-010949	Comments to 72-010925 Noted. Action for Microsoft to post answers on reflector.	Nokia

Tdocs presented by Lars Brenk, Chairman.

Tdoc 949 raised a lot of concerns and questions from Nokia.

Microsoft proposed to provide links to information (whitepapers, specifications, presentations etc.), which could solve the issues.

Since there was insufficient time to review the Nokia comments prior to the meeting, and not all the questions and concerns could be addressed by the Microsoft delegate at the meeting, it was decided to create an action point, in which Microsoft will post the answers to all the questions raised on the MExE email reflector.

A discussion took place if it was needed to have an overall highlevel architecture for all classmarks inside the MExE specification. Also if informative references for CLI should be included as well.

Conclusion:

Tdoc T2-010925 was noted.

Tdoc T2-010949 was noted.

Others

Tdoc	Subject	SOURCE
T2-010927	Restructuring of the MExE-specification. Noted	Ericsson
T2-010951	Comments to 72-010927 Noted	Nokia

Tdoc 927 was presented by Bo Johansson, Ericsson.

Tdoc 951 was presented by Lars Brenk, Chairman.

The main idea with this input document was to try to split the generic MExE parts and the classmark parts, to make the specification more readable and not have so many forward references that we have in the specification today.

The general feeling of the group was positive, for a restructuring of the specification. It was though also pointed out, that the task is not trivial, and should be done at the beginning of a new release when the specification is in a “clean” state.

Conclusion:

Tdoc T2-010927 was noted.

Tdoc T2-010951 was noted.

Tdoc	Subject	SOURCE
T2-010928	Mandatory items made optional. Noted. Action on Bo Johansson to start an Email discussion regarding mandatory items made optional	Ericsson
T2-010952	Comments to 72-010928 Noted	Nokia

Tdoc 928 was presented by Bo Johansson, Ericsson.

Tdoc 952 was presented by Lars Brenk, Chairman.

Discussions took place regarding if the secure storage of operator certificates was necessary on the ME, or if it could be enough to just provide storage capabilities on the (U)SIM.

Also the role of the administrator was discussed, and opinions were raised to make the administrator an optional feature.

Conclusion:

Tdoc T2-010928 was noted.

Tdoc T2-010952 was noted.

Tdoc	Subject	SOURCE
T2-010929	Interpretation of User Control. Noted. Action on Bo Johansson to start an Email discussion regarding the interpretation of user control	Ericsson
T2-010953	Comments to 72-010929 Noted	Nokia

Tdoc 929 was presented by Bo Johansson, Ericsson.

Tdoc 953 was presented by Lars Brenk, Chairman.

The general feeling of the group was very positive.

Conclusion:

Tdoc T2-010929 was noted.

Tdoc T2-010953 was noted.

Tdoc	Subject	SOURCE
T2-010935	Issues on TS 23.057 Sub-clause 6.2 Noted	Intel
T2-010956	Comments to 72-010935 Noted	Nokia

Tdoc 935 was presented by Ernie Woodward, Intel.

Tdoc 956 was presented by Lars Brenk, Chairman.

A lengthy discussion took place how best to provide overall architecture information regarding classmark 3.

It was stated that the OEM API's are optional, and that a clarification of section 6.2 might be needed.

Concerns were raised to include information in the MExE specification, regarding the future of MIDP and a lot API's and profiles, MExE does NOT mandate!

Conclusion:

Tdoc T2-010935 was noted.

Tdoc T2-010956 was noted.

Tdoc	Subject	SOURCE
T2-010943	CR 23.057 REL-4: Spell check in 23.057 Updated in tdoc 957	TTPCom
T2-010957	CR 23.057 REL-4: Spell check in 23.057 Agreed, updated from 943	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Minor textual changes were made online to tdoc 943, and represented in tdoc 957.

Conclusion:

Tdoc T2-010943 was noted.

Tdoc T2-010957 was agreed.

Tdoc	Subject	SOURCE
T2-010944	CR 23.057 REL-4: Reference alignment in 23.057 Updated in 1138	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Since this CR and tdoc 958 both touch the same line in the specification, they were merged into tdoc 1138.

Conclusion:

Tdoc T2-010944 was noted.

Tdoc	Subject	SOURCE
T2-010945	New reference for PKCS#15 Updated in tdoc 958	TTPCom
T2-010958	New reference for PKCS#15 updated from 945 Updated in 1138	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Minor textual changes were made online to tdoc 945, and represented in tdoc 958. Since this CR and tdoc 944 both touch the same line in the specification, they were merged into tdoc 1138.

Conclusion:

Tdoc T2-010945 was noted.

Tdoc T2-010958 was noted.

Tdoc	Subject	SOURCE
T2-010946	Changing figure number 6A to 7 Agreed	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Conclusion:

Tdoc T2-010946 was agreed.

Tdoc	Subject	SOURCE
T2-010986	CR 23.057 Rel-5 Add reference to 23.227 Updated in tdoc 959	Ericsson
T2-010959	CR 23.057 Rel-5 Add reference to 23.227 Agreed, updated from tdoc 986	Ericsson

Tdoc presented by Bo Johansson, Ericsson.

Minor textual changes were made online to tdoc 986, and represented in tdoc 959.

Conclusion:

Tdoc T2-010986 was noted.

Tdoc T2-010959 was agreed.

Tdoc	Subject	SOURCE
T2-010942	CR 23.057 REL-4 (References) Updated in 1136	HP
T2-011136	CR 23.057 REL-4: (Sun reference removal) Agreed Updated from 942	HP

Tdoc presented by Wendy Fong, HP.

A discussion regarding the references to SUN and Java sites took place, and the group realised that clarification from 3GPP was need to proceed.

The questions to 3GPP regarding references policies can be found in tdoc 1139.

After removing the URL changes in tdoc 942, the tdoc 1136 was represented.

Conclusion:

Tdoc T2-010942 was noted.

Tdoc T2-011136 was agreed.

MExE Run-Time independent Classmark

Tdoc	Subject	SOURCE
T2-010931	Presentation on the MExE Run-Time Independent Classmark WID Noted	Intel

Tdoc presented by Ernie Woodward, Intel.

General positive feeling in the MExE group for this new WID. Discussions if the it should be either a Work Item or a Work Task took place.

Conclusion:

Tdoc T2-010931 was noted.

Tdoc	Subject	SOURCE
T2-010930	MExE Run-Time Independent Classmark WID Noted Action on Ernie to start an Email discussion regarding run-time independent classmark	Intel
T2-010954	Comments to 72-010930 Noted	Nokia

Tdoc 930 was presented by Ernie Woodward, Intel.

Tdoc 954 was presented by Lars Brenk, Chairman.

Comments were made if we need specific classmarks at all, if the run-time independent classmark is incorporated into the specification.

Conclusion:

Tdoc T2-010930 was noted.

Tdoc T2-010954 was noted.

Tdoc	Subject	SOURCE
T2-011230	SecurityToolBox presentation Noted	Ericsson

Tdoc presented by Bo Johansson, Ericsson.

Mixed feelings in the MExE group regarding this presentation. Comments were made that we don't have the expertise to do this work, that we dont have the time, that WAP already has done it and we should just refer to their specs.

Other comments were that it was a good idea, that the concept was good and it should be done in the MExE group and that it goes fine along with the run-time independent classmark work.

Conclusion:

Tdoc T2-011130 was noted.

Presentations

Tdoc	Subject	SOURCE
T2-010939	WGE presentation for MExE Noted	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Presentation made by TTPCom, regarding the Wireless Game Engine for a possible classmark 5.

Questions were raised regarding the business model, the current status and connection to Java.

TTPCom will work to make a new presentation at the next T2 open plenary.

Conclusion:

Tdoc T2-010939 was noted.

Review of agreed output documents and action items

Output documents

Tdoc	Subject	SOURCE
T2-010921	Report of SWG1 MExE at T2#15	Chairman

Action items

- ?? **Lars Brenk to contact Tim Wright - (for Tdoc 651 Ericsson presentation) to scope out a new TS and raise in SA3 at their next meeting (October). Get a response sent from SA3 to the MExE October meeting.**
- ?? **Microsoft (for Mike Smith) - to provide an explanation of the CLI security model, for future MExE meeting (before end 2002).**
- ?? **Nicola Sugimoto - to produce templates for the MExE business model.**
- ?? **Microsoft to post answers on reflector.**
- ?? **Microsoft to merge tdoc 1130 into tdoc 926.**
- ?? **Ernest Woodward to start an Email discussion regarding run-time independent classmark**
- ?? **Bo Johansson to start an Email discussion regarding the interpretation of user control**
- ?? **Bo Johansson to start an Email discussion regarding mandatory items made optional**
- ?? **Lars Brenk to send tdoc 1139 to the reflector and Friedhelm**

Any other business

Tdoc	Subject	SOURCE
T2-011138	New PKCS#15 and reference alignment Agreed Updated from 944 and 958	TTPCom

Tdoc presented by Lars Brenk, TTPCom.

Since the two documents (tdoc 944 and tdoc 958) both touched the same line, a combined CR was created, combining the text in tdoc 944 and tdoc 958

Conclusion:

Tdoc T2-011138 was agreed.

Tdoc	Subject	SOURCE
T2-011139	Reference clarification message Noted Action to Lars Brenk to send tdoc 1139 to the reflector and Friedhelm	MExE group

Tdoc presented by Lars Brenk, TTPCom.

The MExE group felt a need to get some clarifications regarding the reference policy in 3GPP. This document contains the questions the group would like to get clarified.

Conclusion:

Tdoc T2-011139 was noted.

Future meetings

MExE meetings, see executive summary.

Conferences with MExE relation

Wireless Java Applications and Platforms, Marcus Evans, 21st - 23rd January 2002, London.

Mobile Application Development Environments: Apis, 23rd – 25th April 2002, Stockholm.

Thanking the hosts

Close of meeting

Annex A – Complete Document List

Green: APPROVED - OUTPUT TO T2

Yellow: NOTED/APPROVED – NO OUTPUT TO T2

TDoc	Title	Source	Comment
TP-010195	WID MEXE SECURITY	MCC	
T2-010920	Draft agenda SWG1 MExE at T2#15	Chairman	
T2-010921	Report of SWG1 MExE at T2#15	Chairman	
T2-010922	Mail: TSG-T#13 results	ETSI/MCC	
T2-010923	Report from MExE ad-hoc in Portland 23-25 October	Chairman	
T2-010924	Classmark 4 code safety verification	MExE group	
T2-010925	CR 23.057: CLI classmark 4 – non-security	Microsoft	
T2-010926	CR 23.057: CLI classmark 4 – security	Microsoft	
T2-010927	Restructuring of the MExE-specification.	Ericsson	
T2-010928	Mandatory items made optional.	Ericsson	
T2-010929	Interpretation of User Control.	Ericsson	
T2-010930	MExE Run-Time Independent Classmark WID	Intel	
T2-010931	Presentation on the MExE Run-Time Independent Classmark WID	Intel	
T2-010932	CR 23.057 - Marking MRPK Valid through Secure Mechanism	Intel	
T2-010933	CR 23.057 - Context of MCC+MNC Missing	Intel	
T2-010934	CR 23.057 - Certificate and Public Key Validation	Intel	
T2-010935	Issues on TS 23.057 Sub-clause 6.2	Intel	
T2-010936	States of Public Keys and Certificates	Intel	
T2-010937	Presentation on States of Public Keys and Certificates	Intel	
T2-010938	MExE TSG-T2 opening plenary report	Chairman	
T2-010939	WGE presentation for MExE	TTPCom	

T2-010940	CR 23.057 Rel-4: Certificate chain level inconsistency	TTPCom	
T2-010941	CR 23.057 Rel-4: Signature algorithm specification	TTPCom	
T2-010942	CR 23.057 REL-4: (References)	HP	
T2-010943	CR 23.057 REL-4: Spell check in 23.057	TTPCom	
T2-010944	CR 23.057 REL-4: Reference alignment in 23.057	TTPCom	
T2-010945	CR 23.057 REL-4: New reference for PKCS#15	TTPCom	
T2-010946	CR 23.057 REL-4: Changing figure number 6A to 7	TTPCom	
T2-010947	State of RPK	Ericsson	
T2-010948	Comments to 72-010924	Nokia	
T2-010949	Comments to 72-010925	Nokia	
T2-010950	Comments to 72-010926	Nokia	
T2-010951	Comments to 72-010927	Nokia	
T2-010952	Comments to 72-010928	Nokia	
T2-010953	Comments to 72-010929	Nokia	
T2-010954	Comments to 72-010930	Nokia	
T2-010955	Comments to 72-010934	Nokia	
T2-010956	Comments to 72-010935	Nokia	
T2-010957	CR 23.057 REL-4: Spell check in 23.057	TTPCom	
T2-010958	New reference for PKCS#15	TTPCom	
T2-010959	CR 23.057 Rel-5 Add reference to 23.227	Ericsson	
T2-010986	CR 23.057 Rel-5 Add reference to 23.227	Ericsson	
T2-011130	Classmark 4 code safety verification	MExE group	
T2-011131	CR 23.057 Rel-4: Certificate chain level inconsistency	TTPCom	
T2-011132	CR 23.057 Rel-4: Signature algorithm specification	TTPCom	
T2-011133	CR 23.057 - Marking MRPK Valid through Secure Mechanism	Intel	
T2-011134	CR 23.057 - Context of MCC+MNC Missing	Intel	
T2-011135	CR 23.057 - Context of MCC+MNC Missing	Intel	
T2-011136	CR 23.057 REL-4: (Sun reference removal)	HP	
T2-011137	WID MEXE SECURITY	MExE group	
T2-011138	New PKCS#15 and reference alignment	TTPCom	
T2-011139	Reference clarification message	MExE group	

T2-011140			
T2-011141			
T2-011142			
T2-011143			
T2-011144			
T2-011145			
T2-011146			
T2-011147			
T2-011148			
T2-011149			
T2-011230	SecurityToolBox presentation	Ericsson	

Annex B - Participants List

Name	Organisation represented	Phone	Email
Lars Brenk	TTPCom Danmark (new Chairman)		LSB@TTPCOM.COM
Nicola Sugimoto	NTT DoCoMo Inc.		Nicola@cet.yrp.nttdocomo.co.jp
Thomas Rodestrand	TELIA		Thomas.X.Rodestrand@telia.se
Bo Johansson	Ericsson LM		Bo.Johansson@emp.ericsson.se
Louis Finkelstein	Motorola		louisf@labs.mot.com
Ernie Woodward	Intel Corporation		ernest.e.woodward@intel.com
Ramin Afchar	CETECOM GmbH		ramin.afchar@cetecom.de
Robert Westers	KPN		A.R.Westers@kpn.com
Timo Oikarinen	Sonera		Timo.oikarinen@sonera.com
Tan Kok Sen	Matsushita Communication Ind		Kstan@psl.com.sg
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Pascal Gaulin	Philips Consumer Communications		pascal.gaulin@philips.com
Wendy Fong	Hewlett-Packard		wendy_fong@hp.com

Annex E: Report from SWG2 UE Interfaces and Capabilities

T2-010961

Source: SWG2 Chair

ES Executive Summary

Topics discussed at this meeting included UE Functionality Split, AT Commands, Application and User Interaction (Terminal Local Model), Generic User Profiles, User Equipment Management, AMR Codecs, Data Synchronization, Security Toolbox, various Liaison Statements and other logistics for future meetings, ad hoc meetings, and meeting procedures.

General:

Review of Progress on Action Items

Work Item 1806: IP Multimedia Service –

Agreed to Delete.

Work Item 1828: AT Commands –

CRs from Nokia, Ericsson and Siemens on the AT-Commands were processed.

Work Item 1831: vObjects & other constructs –

Will be linked to User Profiles WI. See xxxx below.

A presentation from the SyncML Initiative on Device Management was given and a response LS has been sent to the SyncML Initiative.

Work Item 2573: Terminal Local Model Enhancements

Several CRs on 23.227 Application and User Interaction were processed

Work Item xxxx: Generic User Profiles –

Presentations on the status of work for Generic User Profiles was given. A request has been sent to T2 for the creation of an ad hoc group within SWG2 to address the stage 2 and stage 3 GUP work.

Work Item xxxx: User Equipment Management –

A Joint Meeting with SA5 on User Equipment Management took place. The meeting report for this meeting is available in S5A-010717.

Work Item 2563: UE Split –

Discussion of the UE Functionality Split occurred in a Joint Ad Hoc Meeting with S1/S2/S5/T2 hosted by T2 SWG2. The meeting report for this meeting is contained in T2-011172.

Other Items Executive Summary from SWG2 meeting :**AMR Codec, Tones**

An LS was reviewed and a Response LS was approved.

As mentioned in the above LS, a draft of a future CR to TR21.904 UE Capabilities Requirements, T2-010964, was discussed. It is provided to T2 for information.

Future Meetings:

Meeting	Date	Venue	Comment
GUP	Dec 3 – 5	Cancun	
UE Split Ad Hoc	January 13, 2002	With S1 Ad Hocs	Tentative in Phoenix
GUP	January 14-18, 2002	With S1 Ad hoc	Phoenix
SWG2 #16	February 11-15, 2002	With T2#16	Sophia-Antipolis

Output Change Requests:

TDoc	Title	Source	Comment
T2-010965	CR to make editorial changes and minor corrections to 23.227	Sharp	Approved
T2-010967	CR 27.007 R99: Clarifications to AT commands used with circuit switched data	Nokia	Approved
T2-010968	CR 27.007 Rel-4: Clarifications to AT commands used with circuit switched data	Nokia	Approved
T2-010969	CR to 07.07 R98 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved
T2-010970	CR to 27.007 R99 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved
T2-010971	CR to 27.007 Rel-4 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved
T2-010972	CR to 27.007 R99 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved
T2-010973	CR to 27.007 Rel-4 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved
T2-010974	CR to 27.007 R99 Correction in the +CGACT command explanation	Ericsson	Approved
T2-010975	CR to 27.007 Rel-4 Correction in the +CGACT command explanation	Ericsson	Approved
T2-010976	CR to 27.007 Rel-5 Correction of chapter heading and references	Ericsson	Approved
T2-010979	CR to 27.007 R99 Different compression algorithms in AT command +CGDCONT	Siemens	Approved
T2-010980	CR to 27.007 REL-4 Different compression algorithms in AT command +CGDCONT	Siemens	Approved

TDoc	Title	Source	Comment
T2-011175	CR to 23.227 Rel-5 Correction in WAP Forum Reference	Ericsson	Approved.
T2-011176	CR to 23.227 Rel-5 Text added to Figure A.1	Ericsson	Approved.
T2-011177	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	Approved.
T2-011179	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	Approved
T2-011180	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	Approved.

Output Liaison Statements:

TDoc	Title	Source	Comment
T2-011170	LS on UE Functionality Split Relating to the IMS	UE Split Ad Hoc	Approved
T2-011171	LS Revised T2-010911	UE Split Ad Hoc	Approved
T2-011178	LS response on UMTS_AMR2	Sharp	Approved.
T2-011184	LS Reply to SyncML with Follow-Up Questions	T2-SWG2	Approved

Other documents for T2 Approval

TDoc No.	Title	Source	Status
T2-011183	Request for formation of a T2 Generic User Profile (T2-GUP) Ad Hoc	T2-SWG2	
T2-011172	Joint UE Split Meeting Report	JM-UE-FS	

S5A-010717	Joint UEM Meeting Report	JM-UEM	
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ES Detailed Report

1. Opening of the meeting

The Chair of SWG2, Mr. Prem Sood, Sharp, opened the meeting at 4:30pm on Monday November 26. Mr. Nicholas Alfano, Sierra Wireless volunteered to act as meeting secretary. The Chair welcomed everyone to Cancun and thanked the North American Friends of 3GPP for hosting the meeting. At the opening of SWG2 there were 12 attendees.

Meeting restarted November 28, 2001 at 9:10am.

Meeting restarted November 29, 2001 at 9:05am.

1.1. Approval of the proposed Agenda

Document – T2-010960

TDoc No.	Title	Source	Status
T2-010960	SWG2 draft meeting agenda	SWG2 Chair	Approved

Presented by – Chairman

The first item of business was to approve the meeting agenda. Discussion of meeting logistics and timing of discussions for various agenda items with respect to individuals whom must be in other meeting during the week and would like to be present for specific items on the agenda.

Discussion –

Added tdocs to the agenda:

?? T2-010994 to agenda item 3.2

?? T2-010995 to agenda item 3.5

Tdoc numbers 996-998 are assigned to Generic User Profile meeting minutes, making these documents available to T2 delegates.

Resolution –

T2-010960 Agenda for SWG2 approved.

1.2. Joint Meetings Schedule

Approved joint meetings and times with SA1, SA5 and T1.

1.3. Review of previous Action Points

AP Description	Assigned to	Status	Comments
14.1 production of architectural diagram to explain the proposal on applications and security.	Dr G. Bratt		IP
14.2 rapporteur to check 23.227 for compliance of the new T3 specification on USIM Application Transport Protocol	Ms. O. Tome	Nov.	Done T2-010994
14.3 LS T2-010721 to SA5 on Device management	Mr. R. Lockhart	Done	
14.4 (a) Develop T2-010704 to include transfer of cell id	Mr. N. Alfano	Done	Contained in T2-010966
14.4 (b) LS to SyncML T2-010722 asking for status of DevMan	Mr. R. Lockhart	Done	
14.4 (c) LS to S3 T2-010723 on Security Needs of Terminal Applications based on SyncML usage	Mr. R. Lockhart	Done	
14.5 Investigate AT commands for the ability to transfer cell id between MT and TE.	Ms. O. Tome		Done, CMDS exist
14.6 LS T2-010823 to SA2 on transfer of cell id between MT and TE	Mr. R. Lockhart	Done	

14.7 Generate Siemens inputs on Terminal Local Model (23.227)	Mr. P Neumann	Nov	
14.8 Consider on impact of UE Functional Split on this Work Item.	SWG2 Chairman and Olga Tomé	Nov	Done. No change
14.9 To propose final changes to 23.227 for this work item	Olga Tomé	Nov	IP
14.10 MCC to check whether T2 involvement is required.	MCC	Nov	Check

Reviewed and approved above Action Points from the previous SWG2 meeting in Edinburgh.

T2-010961 (this report) to be approved at the end of the meeting.

2 Items for immediate discussion.

3.1 UE Functionality Split

The Meeting Report for Joint UE Functionality Split meeting is contained in T2-011172. Tdocs relating to UE Functionality Split are T2-010897, 911, 912, 966, 982, 983, and 987.

TDoc No.	Title	Source	Status
T2-010897	LS from SA3: "re: Cell ID in SIP messages"	S3-010526	Noted and Ag

Presented by – .

See T2-011172 for summary of discussion of this LS.

Discussion –

Resolution –

TDoc No.	Title	Source	Status
T2-010911	Liaison Statement on UE functionality split	SA1	Revised to T2 01171

Presented by – .

November 26, 2001

Alan Chan, Nokia presented this Tdoc.

November 27, 2001

See T2-011172 Meeting Report for UE Split discussion of this document.

Discussion –

November 26, 2001

This is the latest version of the UE Functionality Split Technical Report approved by SA1 at the meeting two weeks ago in Japan.

Changes made to this document are reviewed and general consensus on the interpretation of the changes is agreed.

This version of the UE Split document has had some of the features that were slowing progress of the UE Split work removed and placed on the Release 6 schedule. For example the call control issue and whether it is in the TE or MT is moved to Release 6. The remaining features presented in this version of the UE Split requirements are targeted for Release 5. A question is raised by Ericsson that SA2 needs to review this LS and approve of the changes, specifically with regard to the positioning of SIP call control in the MT only. A suggestion is made that since SA2 is also meeting locally a representative from SA2 can be requested to attend the Joint UE Split meeting to explain the SA2 position. The SWG2 chair will invite the SA2 representatives to attend the UE Split meeting.

Resolution –

See T2-011172 for further discussion and resolution on this document that took place at the UE Split ad hoc.

TDoc No.	Title	Source	Status
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	Posponed

Presented by – .

Prem Sood. Sharp

Discussion –

The LS and attachment raises many complicated issues associated with UE Split. After some discussion on how to respond to this LS there was no consensus.

Resolution –

Postponed to UE Split Ad Hoc.

TDoc No.	Title	Source	Status
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	Postponed

Presented by – .**Discussion –**

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Resolution –

TDoc No.	Title	Source	Status
T2-010982	UICC in UE-Split and IMS	Nortel Networks	Postponed

Presented by – .**Discussion –****Resolution –**

TDoc No.	Title	Source	Status
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	Postponed

Presented by – .**Discussion –****Resolution –**

TDoc No.	Title	Source	Status
T2-010987	CR 27.901: Including UE Functional Split	BT	Postponed

Presented by – .**Discussion –**

Resolution –**3.2 Application and User Interaction (Terminal Local Model).**

Tdocs 965, 977, 978, 985, 994, 1230

TDoc No.	Title	Source	Status
T2-010965	CR to make editorial changes and minor corrections to 23.227	Sharp	Approved

Presented by –

Presented by Prem Sood.

Discussion –

Suggested changes to the scope of the TS to limit it to the UE clarifies the scope, rather than saying the scope does not apply to the network. Some modified text is included in the Introduction.

Text added to the Introduction appears to repeat the meaning of the existing text in the same section. After more text smithing it was decided to move the discussion to an offline meeting to help progress the work.

Resolution –

Action 15.1: the rapporteur (Olga) is asked to review 23.227 for consistent usage of the terms UE, and ME.

Approved. Removed the “Draft” from T2-010965 after revisions. The revised version, now T2-010965 is approved.

TDoc No.	Title	Source	Status
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T2-010977	CR to 23.227 Rel-5 Correction in WAP Forum Reference	Ericsson	Revised to T2-011175. Appr
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Presented by – .

Olga Tome, Ericsson.

Discussion –

Update of cover sheet work item code is changed to TLM5. Question on what release this CR applies. If it applies to R4 then the changes will be automatically applied in a R5 version of the document.

Resolution –

The CR is changed to be applied to R4 instead of R5. New Tdoc is T2-011175. Approved.

TDoc No.	Title	Source	Status
T2-010978	CR to 23.227 Rel-5 Text added to Figure A.1	Ericsson	Revised to T2-011176. Appr

Presented by – .

Olga Tome, Ericsson

Discussion –

Modification to cover page to change Work Item Code, and Release. Work Item Code and Release are TLM5 and R4.

Resolution –

New tdoc for this CR is T2-011176, approved.

TDoc No.	Title	Source	Status
T2-010985	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	Revised to T2-011177. Appr

Presented by –

Olga Tome, Ericsson

Discussion –

One comment on the change of USIM to USAT. The USAT is the only place where Bearer Services can be established via the MT. Change of Work Item Code, Date, and Release.

Resolution –

Tdoc revised to T2-011177. Approved.

TDoc No.	Title	Source	Status
T2-010994	Impact on 23.227 of the TSG WG3-Work Item. “Definition and Specification of a Transport Protocol for the USIM application”	Ericsson	Noted

Presented by –

Olga Tome, Ericsson.

Discussion –

No discussion.

Resolution –

Noted.

TDoc No.	Title	Source	Status
T2-011230	Security Toolbox	Ericsson	Noted

Presented by – .

Gunilla Bratt, Ericsson.

Discussion –

Suggest the topic be brought up in S3.

Resolution –

Noted.

3.3 Data Synchronization, SyncML

Tdoc 899, SyncML/DevMan presentation

Document – T2-010899

TDoc No.	Title	Source	Status
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T2-010899	LS from The SyncML Initiative: "Data Formats in SyncML"	The SyncML Initiative	Noted. See T011174
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Presented by – .

Presented by Rob Lockhart, Motorola.

Discussion –**Resolution –**

Noted.

Document – T2-011173

TDoc No.	Title	Source	Status
T2-011173	SyncML Device Management (DM)	The SyncML Initiative	Noted

Presented by – .

November 28, 2001

Presented by Riku Mettala, Nokia.

Discussion –

Questions raised during the presentation included; manipulation of objects, control of servers that may modify objects, push mechanisms used by SyncML DevMan, security, remote diagnostics, and WAP.

The specifications of Sync Dev Man will be available in February 2002. The specifications will be publicly available in February 2002.

A discussion on how to get the specification to 3GPP delegates prior to the public availability of the spec began. SA5 expects T2 to be able to develop stage 2 documents for Device Management. Given SyncML DevMan is a candidate solution, in order for T2 to consider SyncML DevMan the specifications need to be reviewed by 3GPP delegates. Also T2 is expected to do a "gap analysis" looking at differences between SyncML DevMan and the requirements of SA5. The ad hoc group on Generic User Profiles may be a good location to review the SyncML DevMan specs and perform the gap analysis.

Further questions on testing of the SyncML Synchronization Protocol relating to the SynML SyncFest and tools available. These tools are available for a nominal cost from the SyncML Initiative.

Resolution –

There is an overall outstanding issue of how to progress the work on SyncML DevMan inside 3GPP. This issues will be further discussed at the S1 Ad Hoc meeting to be held in Phoenix, January 2002.

Document – T2-011174

TDoc No.	Title	Source	Status
T2-011174	LS Reply to SyncML with Follow-Up Questions	T2-SWG2	Noted. Revis T2-011184 Approved.

Presented by –

Rob Lockhart, Motorola.

Discussion –

LS sent to SyncML Initiative with CC to CN4, SA1, SA3, SA5, and GUP Ad Hoc. Added T3 to the list of recipients and the revised Tdoc is now T2-011184

Resolution –

Approved.

3.4 UE Terminal/Device Management

Document – T2-010

TDoc No.	Title	Source	Status
T2-010873	Proposed Agenda for the joint T2 and SA5 SWG-A meeting		

Presented by –

November 26, 2001

Chair Prem Sood presented the Agenda for the Joint T2/SA5 meeting scheduled for tomorrow November 27.

Discussion –

November 26, 2001

Discussion on the agenda in T2-010873 and the roles for UE Terminal/Device Management for both SA5 and T2. Questions raised on giving presentations on SyncML and UE Profiles to SA5 to keep them in the loop on these issues related to UE Terminal Management. This will be discussed at the joint meeting Nov 27. The agenda also appears to be quite long for a ½ day meeting. None-the-less the agenda items are appropriate for the meeting and the issues need to be covered.

Resolution –

3.5 AT Commands

Tdocs **419 (Alcatel)**, 967-968,969-971, 972-973, 974-975, 976, 979-980, 981, 984, 995

Document – T2-010

TDoc No.	Title	Source	Status
T2-010419		Alcatel	Withdrawn

Presented by – .

November 28, 2001 – Withdrawn.

Discussion –

Resolution –

TDoc No.	Title	Source	Status
T2-010967	CR 27.007 R99: Clarifications to AT commands used with circuit switched data	Nokia	Approved
T2-010968	CR 27.007 Rel-4: Clarifications to AT commands used with circuit switched data	Nokia	Approved

Presented by – .

Presented by Alan Chau, Nokia. Changes relating to HSCSD.

Discussion –

References to UTRAN implies a single mode only UE.

Resolution –

Approved.

TDoc No.	Title	Source	Status
T2-010969	CR to 07.07 R98 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved
T2-010970	CR to 27.007 R99 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved
T2-010971	CR to 27.007 Rel-4 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved

Presented by – .

Olga Tome, Ericsson. CR includes minor editorials as well as obsolescing the IHOSS references.

Discussion –

Obsolescing a command allows implementers to be aware of the command being removed from the specification going forward, and also reserves the command name against being reused at some time in the future and possible causing an interoperability problem with an older product implementing the original command.

Resolution –

CRs in tdocs 969-971 approved.

TDoc No.	Title	Source	Status
T2-010972	CR to 27.007 R99 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved
T2-010973	CR to 27.007 Rel-4 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved

Presented by – .

Olga Tome, Ericsson.

Discussion –

Definitions removed in R99 need to be added in R4 and then obsolesced to preserve the command name and make implementers aware of the change. Discussion on using the dot (.) in X.25 or just X25, no change as X.25 is an obsolesced feature.

Resolution –

Tdocs 972 and 973 are approved.

TDoc No.	Title	Source	Status
T2-010974	CR to 27.007 R99 Correction in the +CGACT command explanation	Ericsson	Approved
T2-010975	CR to 27.007 Rel-4 Correction in the +CGACT command explanation	Ericsson	Approved

Presented by – .

Olga Tome, Ericsson.

Discussion –

Question raised to ensure this change is in agreement with 23.060. The change is in agreement with 23.060.

Resolution –

Tdoc 974 and 975 are approved.

TDoc No.	Title	Source	Status
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T2-010976	CR to 27.007 Rel-5 Correction of chapter heading and references	Ericsson	Approved

Presented by – .

Olga Tome, Ericsson.

Discussion –**Resolution –**

Approved.

TDoc No.	Title	Source	Status
T2-010979	CR to 27.007 R99 Different compression algorithms in AT command +CGDCONT	Siemens	Approved
T2-010980	CR to 27.007 REL-4 Different compression algorithms in AT command +CGDCONT	Siemens	Approved

Presented by – .

Jurgen Lehmann, Siemens.

Discussion –

References to RFCs are given in 04.65 and 44.065.

Resolution –

Tdocs 979 and 980 are approved.

TDoc No.	Title	Source	Status
T2-010981	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	Noted. Revisi T2-011179
T2-011179	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	Approved

Presented by – .

Jurgen Lehmann, Siemens.

Discussion –

Nokia asks for more time to review this CR, therefore the decision is deferred.

Resolution –

November 29, 2001

T2-11179 is Approved.

TDoc No.	Title	Source	Status
T2-010984	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	Revised to T2 011180 and Approved.

Presented by – .

Olga Tome, Ericsson.

Discussion –

The sentence, “The TE-(TA)MT interface, using AT commands” is to be changed to “The functional blocks shown in Figure 1, ...”.

Resolution –

T2-011180 is approved with the above change included.

TDoc No.	Title	Source	Status
T2-010995	CR 27.007 Rel-4: alingment of UE architecture description to 23.101	Ericsson	Revised to T2 011181. Postponed
T2-011182	CR 27.007 Rel-99: alingment of UE architecture description to 23.101	Ericsson	Postponed

Presented by – .

Olga Tome, Ericsson.

Discussion –

Question raised on change of MS to UE. The UE will be the terminology going forward and MS will be removed. The definition of UE will be added. Changes to the cover page date, category (A) and spelling errors to be fixed.

New version for R99 will be created with category F.

Email discussion on 11182 to take place.

Resolution –

T2-011181 discussion postponed till next meeting at request of rapporteur.

T2-011182 discussion postponed till next meeting at request of rapporteur.

3.6 User Profiles, Terminal Capability Reporting

Tdocs 900, 908, 988, 989, 990, 991, 992, 993, 996, 997, 998, 1183

Document – T2-010900

TDoc No.	Title	Source	Status
T2-010900	LS to GSM-A TWG/SERG “regarding User Profile”	UP-010046	Noted

Presented by – .

Gunilla Bratt, Ericsson.

Discussion –

Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010908	LS from SA1 on 3GPP Generic User Profile Stage 1	S1-011176	Noted

Presented by – .

Gunilla Bratt, Ericsson.

Discussion –

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Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010988	WID Generic User Profile	Ericsson	Noted

Presented by – .

Gunilla Bratt, Ericsson

Discussion –

Updates to documents referenced in the WID i.e. 23.241, 23.240. Rapporteur is Rob Lockhart, Motorola. Chair asks for group approval, no objections stated. This WID was approved at the TSG-S in Beijing see SP-010548.

Resolution –

Noted.

TDoc No.	Title	Source	Status
T2-010989	3GPP GUP work status	Ericsson	Noted

Presented by – .

Gunilla Bratt, Ericsson.

Discussion –

Review of work plan schedule, on slide 15. Discussion on how T2 SWG2 will participate in the GUP stage 2 and stage 3 work. A proposal is suggested by the chair to assign the work on GUP to be developed within T2 SWG2 (specifications 23.241 and 24.241) to an ad hoc group under SWG2. Because the work on GUP touches on information needed from many parts of the 3G infrastructure the use of an Ad Hoc group allows the work to be contributed too by all members of the 3G

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community and also fast tracks the work. The ad hoc group will provide regular updates to SWG2 on the development of this work. No objections to forming the T2-GUP Ad Hoc. Gunilla Bratt, Ericsson, volunteers to act as chair for this T2-GUP Ad Hoc.

NTTDoCoMo raises the concern that notices for Ad Hoc meetings should be provided several weeks (preferably 1 month or more) in advance to give attendees who must travel to the meeting sufficient time to prepare.

Resolution –

Agreed to form an ad hoc group to develop 23.241 and 24.241. A request to T2 for creation of the Ad Hoc is contained in T2-011183. Noted.

TDoc No.	Title	Source	Status
T2-010990	22.240	GUP ad hoc	Noted

Presented by –

Gunilla Bratt, Ericsson.

Discussion –

Action 15.2: Chair asks T2 SWG2 members to review this document.

Resolution –

Noted.

TDoc No.	Title	Source	Status
T2-010991	23.240	GUP Ad Hoc	Noted

Presented by –

Gunilla Bratt, Ericsson

Discussion –

Action 15.3 Chair asks T2 SWG2 members to review this document.

Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010992	23.241	GUP Ad Hoc	Noted

Presented by – .

Gunilla Bratt, Ericsson

Discussion –

Action 15.4 Chair asks T2 SWG2 members to review this document.

Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010993	24.241	GUP Ad Hoc	Noted

Presented by – .

Gunilla Bratt, Ericsson

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Discussion –

Action 15.5 Chair asks T2 SWG2 members to review this document.

Resolution –

Noted.

TDoc No.	Title	Source	Status
T2-010996	UP-010057 GUP Ad Hoc – Sophia-Antipolis – Sept 2002	Chair GUP Ad Hoc	Noted

Presented by – .

Prem Sood, Sharp

Discussion –

T2 SWG2 members are encouraged to review this document.

Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010997	UP-010093 GUP Ad Hoc – Stuttgart – October 2002	Chair GUP Ad Hoc	Noted

Presented by – .

No presentation

Discussion –

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Resolution –

Noted

TDoc No.	Title	Source	Status
T2-010998	UP-010115 GUP Ad Hoc – Lund – November 2002	Chair GUP Ad Hoc	Noted

Presented by – .

No presentation.

Discussion –**Resolution –**

Noted.

TDoc No.	Title	Source	Status
T2-011183	Request for formation of a T2 Generic User Profile (T2-GUP) Ad Hoc	T2-SWG2	Approved

Presented by – .

Rob Lockhart, Motorola.

Discussion –

Wording changes.

Resolution –

Approved.

4.1 AMR Codec, Tones**Document – T2-010886**

TDoc No.	Title	Source	Status
T2-010886	LS from CN1: "Introduction Of UMTS_AMR_2 into R99 UE's"	N1-011286	Response in 010963

Presented by – .

November 28, 2001.

Prem Sood, Sharp. There is a basic incompatibility between the FRAM and the AMR codes. For R99 the codes is UMTS AMR only. The new UMTS_AMR_2 codec is backward compatible with R99 UMTS_AMR. The LS describes the solution to the problem as:

- i) R99 UMTS only - UMTS_AMR supported as default.
- ii) R99 UMTS & GSM, if UMTS_AMR_2 supported as default then it must indicate one or more GSM speech versions in Octet 3a of Bearer Capabilities IE, TS 24.008
- iii) R99 UMTS & GSM, if GSM speech version indicated in Octet 3a of Bearer Capabilities IE, TS 24.008 then it must support UMTS_AMR_2 as default.

The UMTS_AMR_2 codec replaces the UMTS_AMR codec.

Discussion –

The response to this LS is contained in T2-010963, with associated email discussion in T2-010962.

Resolution –

Noted with response LS contained in T2-010963.

Document – T2-010962

TDoc No.	Title	Source	Status
T2-010962	E-Mail Discussion on T2-010886 (LS from CN1 on UMTS_AMR2)	Sharp	Noted

Presented by – .

Prem Sood, Sharp

Discussion –**Resolution –**

Noted

Document – T2-010963

TDoc No.	Title	Source	Status
T2-010963	LS response on UMTS_AMR2	Sharp	Approved. Re to T2-011178

Presented by – .

Presented by Prem Sood. The presentation included discussion of the requests from CN1 contained in T2-010886 and how T2 should respond to this request.

Discussion –

Updated the coversheet to include SA4. The format of the LS must be changed to follow the correct format.

November 29, 2001

Review of revised T2-011178 for formatting and slight re-wording of introduction to be more courteous to the SA4 and CN1 groups.

Resolution –

Approved.

Document – T2-011178

TDoc No.	Title	Source	Status
T2-011178	LS response on UMTS_AMR2	Sharp	Approved.

Presented by – .

Prem Sood.

Discussion –

November 29, 2001

Review of revised T2-011178 for formatting and slight re-wording of introduction to be more courteous to the SA4 and CN1 groups.

Resolution –

Approved.

4.2 UE Capabilities Requirements.

Document – T2-010964

TDoc No.	Title	Source	Status
T2-010964	CR 21.904 R99: UMTS_AMR2	Sharp	Noted

Presented by –

November 28, 2001

Prem Sood presented this CR in relation to T2-010886 and T2-010963. The presentation reviews the changes suggested in T2-010963 that need to be made to TR 21.904.

Discussion –

This Draft CR is for information at this time and would only be submitted for approval if T2-010963 is approved by CN1 as the correct approach to solving the UMTS_AMR_2 issue.

Resolution –

Noted. Also for T2.

5. Review of WI's progress, SWG2 and T2 relevant items in 3GPP work plan.**Document – T2-010**

TDoc No.	Title	Source	Status
T2-010880	3GPP work plan	MCC	

Presented by – .

Discussion –

Resolution –

6. Approval of Output Documents for T2 Approval.

TDoc No.	Title	Source	Status
T2-011183	Request for formation of a T2 Generic User Profile (T2-GUP) Ad Hoc	T2-SWG2	
T2-011172	Joint UE Split Meeting Report	JM-UE-FS	
S5A-010717	Joint UEM Meeting Report	JM-UEM	

7. Deferred Items

8. Any Other Business

9. Future Meetings, Time Requirements

See Executive summary.

10 Close of the Meeting

The meeting was closed on Monday November 26 at 6:05pm. To restart with Joint UE Split meeting on Tuesday November 27. Closed at 6pm on Tuesday (Joint SA5/T2 meeting), to restart Wed at 8:30pm. Closed at 6pm on Wednesday to restart at 9am Thursday. Meeting adjourned at 3:30pm on Thursday November 29, 2001.

10.1. List of New Action Points added at this meeting

AP Description	Assigned to	Status	Comments
Action 15.1: the rapporteur (Olga) is asked to review 23.227 for consistent usage of the terms UE, and ME.	Olga Tome	Due T2#16	
Action 15.2, 15.3, 15.4, 15.5 to review documents related to Generic User Profiles.	All SWG2	Due T2#16	

Annex A List of all temporary documents

SWG2 Final Document List

COLOR CODE

APPROVED - OUTPUT TO T2

NOTED/APPROVED – NO OUTPUT TO T2

PENDING / ACTION

NOT REVIEWED AT THIS MEETING

NOT DISCUSSED YET

TDOC	Subject	Source	SWG	OUTCOME
T2-010886	LS from CN1: "Introduction Of UMTS_AMR_2 into R99 UE's"	N1-011286	SWG2	Noted. Response
T2-010897	LS from SA3: "re: Cell ID in SIP messages"	S3-010526	SWG2	Noted and agreed
T2-010899	LS from The SyncML Initiative: "Data Formats in SyncML"	The SyncML Initiative	SWG2	Noted
T2-010900	LS from GUP ad hoc: "User Profile"	UP-010046	SWG2	Noted
T2-010907	withdrawn			Withdrawn
T2-010908	LS from SA1 on 3GPP Generic User Profile Stage 1	S1-011176	SWG2	Noted
T2-010911	LS from SA1 on UE functionality split	S1-011321	SWG2	Noted with Output
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	SWG2	Noted. Action Pos to UJF-FS ad-hoc.r

				to UE-FS ad-hoc r
T2-010960	draft agenda SWG2 at T2#15	SWG2 chairman	SWG2	Approved
T2-010961	report of SWG2 at T2#15	SWG2 chairman	SWG2	Approved. For T2
T2-010415	CR to 23.227 (from T2#13 May meeting)	Alcatel	SWG	Withdrawn by Orig
T2-010962	E-Mail Discussion on T2-010886 (LS from CN1 on UMTS_AMR2)	Sharp	OP, SWG2	OP – Noted. SWG2 - Noted
T2-010963	LS response on UMTS_AMR2	Sharp	SWG2	Approved in princi Revised to 1178
T2-010964	CR 21.904 R99: UMTS_AMR2	Sharp	SWG2	Noted. Also to T2
T2-010965	CR 23.227: Applic/User Interaction UE	Sharp	SWG2	Agreed Output to T
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	SWG2	Postponed to UE- hoc meeting
T2-010967	CR 27.007 R99: Clarifications to AT commands used with circuit switched data	Nokia	SWG2	Agreed Output to T
T2-010968	CR 27.007 Rel-4: Clarifications to AT commands used with circuit switched data	Nokia	SWG2	Agreed Output to T
T2-010969	CR to 07.07 R98 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2	Agreed Output to T
T2-010970	CR to 27.007 R99 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2	Agreed Output to T
T2-010971	CR to 27.007 Rel-4 Obsolete +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2	Agreed Output to T
T2-010972	CR to 27.007 R99 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2	Agreed Output to T
T2-010973	CR to 27.007 Rel-4 Obsolete +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2	Agreed Output to T
T2-010974	CR to 27.007 R99 Correction in the +CGACT command explanation	Ericsson	SWG2	Agreed Output to T
T2-010975	CR to 27.007 Rel-4 Correction in the +CGACT command explanation	Ericsson	SWG2	Agreed Output to T
T2-010976	CR to 27.007 Rel-5 Correction of chapter heading and references	Ericsson	SWG2	Agreed Output to T
T2-010977	CR to 23.227 Rel-5 Correction in WAP Forum Reference	Ericsson	SWG2	Revised in 1175
T2-010978	CR to 23.227 Rel-5 Text added to Figure A.1	Ericsson	SWG2	Revised in 1176
T2-010979	CR to 27.007 R99 Different compression algorithms in AT command +CGDCONT	Siemens	SWG2	Agreed Output to T
T2-010980	CR to 27.007 REL-4 Different compression algorithms in AT command +CGDCONT	Siemens	SWG2	Agreed Output to T
T2-010981	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	SWG2	Revised to 1179

T2-010982	UICC in UE-Split and IMS	Nortel Networks	SWG2	Postponed to UE-hoc meeting
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	SWG2	Postponed to UE-hoc meeting
T2-010984	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	SWG2	Revised to 1180
T2-010985	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	SWG2	Revised in 1177
T2-010987	CR 27.901: Including UE Functional Split	BT	SWG2	Postponed to UE-hoc meeting
T2-010988	WID GUP	Ericsson	SWG2	Noted
T2-010989	3GPP GUP work status	Ericsson	SWG2	Noted, with T2 Re approval of ad-hoc
T2-010990	22.240	GUP ad hoc	SWG2	Noted
T2-010991	23.240	GUP ad hoc	SWG2	Noted
T2-010992	23.241	GUP ad hoc	SWG2	Noted
T2-010993	24.241	GUP ad hoc	SWG2	Noted
T2-010994	impact of the T3 WI transport protocol for USIM applications on 23.227	Ericsson	SWG2	Noted
T2-010995	CR 27.007 Rel-4: alignment of UE architecture description to 23.101	Ericsson	SWG2	Revised to 1181
T2-010996	UP-03 Meeting Minutes	Ericsson	SWG2	Noted
T2-010997	UP-04 Meeting Minutes	Ericsson	SWG2	Noted
T2-010998	UP-06 Meeting Minutes	Ericsson	SWG2	Noted
T2-010999	TR32.802 UEM Feasibility Study	SA5	SWG2	Noted
T2-011170	LS to TSGs on UE Functionality Split	JM UE-FS	SWG2	Approved. For T2 Approval
T2-011171	LS to SA1 Update to T2-010911 UE FS Requirements	JM UE FS	SWG2	Approved. For T2 Approval
T2-011172	Joint Meeting UE Split Meeting Report	JM UE-FS	SWG2	Approved. For T2 Information & App
T2-011173	SyncML and DevMan presentation	SyncML initiative	SWG2	Noted
T2-011174	LS to SyncML with follow-up questions	Rob L.	SWG2	Revised in 1184
T2-011175	CR 23.227 Correction in WAP Forum Reference	Ericsson	SWG2	Approved. For T2 Approval
T2-011176	C R 23.227 Text added to Figure A.1	Ericsson	SWG2	Approved. For T2 Approval
T2-011177	CR 23.227 Rel-5 Add USAT bearer independent protocol for local links interactions requirement	Ericsson	SWG2	Approved. For T2 Approval
T2-011178	LS response on UMTS_AMR_2	Sharp	SWG2	Approved For T2 A

T2-011179	CR to 27.007 REL-4 new AT command to control Ring Melody +CRMC	Siemens	SWG2	Approved For T2 A
T2-011180	CR 27.007 Rel-5 Add reference to 23.227	Ericsson	SWG2	Agreed Output to T
T2-011181	CR 27.007 Rel-4: alignment of UE architecture description to 23.101	Ericsson	SWG2	Postponed
T2-011182	CR 27.007 Rel-99: alignment of UE architecture description to 23.101	Ericsson	SWG2	Postponed
T2-011183	Request for formation of T2 Generic User Profile (T2-GUP) Ad-Hoc	SWG2	SWG2	Approved. For T2
T2-011184	LS to SyncML with follow-up questions	Rob L.	SWG2	Approved. For T2 Approval
T2-011230	Security Toolbox Activity steps and Specification Architecture	Ericsson	SWG2	Noted

Annex B List of Participants

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Annex F: Report from SWG3 Messaging

Source: SWG3 Chair

Executive Summary:

General:

Digital Rights Management (DRM)

SWG3 reviewed the incoming LSs on DRM, T2-010896, T2-010909. DRM is understood to be of general T2 interest. The current status of DRM in 3GPP can be found in T2-010909. A Work Item Description has been approved for DRM in SA1 and a Stage 1 document to capture requirements is now being drafted as part of Rel-6. (Note: SA1 is not planning to develop any requirements for DRM in Rel-5.) Generic DRM requirements will be generated by SA1 suitable for all 3GPP needs and T2 will be informed among other 3GPP working groups if problems arise during the drafting process. SWG3 sees no need for action, but suggests that DRM issues – if any identified by T2 – be addressed to SA1 first.

TEI (EMS/CBS/SMS R'99):

See below.

TEI4 (EMS/CBS/SMS REL-4):

See below.

MESS5-EMS (EMS/CBS/SMS REL-5):

CBS

Use of Message IDs in multi-technology networks: a CR to 23.041 was agreed.

Support for User Data Headers: work on aligning 23.041 to the WAP specifications could not be completed.

Other SMS matters

IEI classification: a CR to 23.040 was agreed.

IE data length: an error was discovered concerning the range of lengths used. CRs were produced to cover different releases of 03.40 and 23.040.

Transfer of TP-FCS: an inconsistency in 23.040 was identified, due to a change made at T2#7. A solution was not reached.

Three other CRs on the following subjects were briefly discussed, but due to lack of time they could not be concluded.

- Sub-addressing.
- Alternate Return Address IE.
- Obtaining a list of supported short codes from a SMSC.

EMS: Polyphony

Four separate proposals were received. After extensive discussions, the contributors agreed to collaborate on the development of a single solution, to be completed by T2#16. The starting point will be the widely available MIDI format. See T2-011159 for further details.

EMS: Vector Graphics

There are three proposals. It was expected that test results would be available to allow a comparison to be made, but these were incomplete. The group agreed on a new process, including dates, to ensure that the necessary information becomes available before the end of December. See T2-011165 for further details.

Other EMS

Compression of extended objects: A CR to 23.040 was agreed. Test vectors are available.

Interoperability: A mechanism to request the supported data formats was discussed, but not concluded.

Extended object positioning: A CR to 23.040 was agreed.

Object distribution: a proposed CR was not agreed.

Data Format Delivery Request: a correction to 23.040 was agreed.

It was agreed that all the above EMS features should be included in REL-5. An ad-hoc meeting (3 days) on EMS and SMS/CBS matters is planned to take place during the week commencing 14th January 2002. Bijitec kindly offered to host the meeting in Singapore. It was agreed in SWG3 closing plenary that it would be useful to have the location the same as the MMS ad hoc which is taking place at about the same time.

MMS (MMS REL-4):

Four essential corrections to 23.140 REL-4 were accepted at this meeting, together with corresponding mirror CRs for REL-5.

MESS5-MMS (MMS REL-5):

Achievements

On **Address resolution / MNP** for MMS Rel-5, three different approaches are envisaged: ENUM for the long term usage and two interim IMSI solutions (direct MNP and indirect MNP). Input to the latter is missing. A basis for the stage 2 of **MM7: interworking with VAS applications** is now available. The most important outstanding issue is the choice of the underlying protocol in order to allow stage 3 CRs for MM7 to be developed.

A CR on Configuration of MMS-capable Ues, T2-011211, was agreed upon which is seen as an important step in finalising the joint effort between T2-SWG3 and T3 on **USIM aspects of MMS** REL-5. For completion of this effort a joint meeting with T3 is planned to take place.

Non-WAP 1.x implementation of MM1 for MMS Rel-5

Extensive discussions about a non-WAP 1.x MM1 implementation for REL-5 did not result in consensus, nor compromise, but had to be resolved by a vote. The SWG3 chairman concluded that whilst he noted many delegates had expressed a wish for a compromise, it seemed that after discussions on this lasting many days during several meetings and 4 different proposals for a compromise that a compromise would not be reached.

Work plan for MMS Rel-5

MMS REL-5 work is behind schedule. There is a risk that the REL-5 schedule (March 2002) can not be met. The following counter-measures were taken in order to meet 3GPP REL-5 time frame:

- ?? Outstanding work has been prioritised with deferring low and medium priority tasks to REL-6.
- ?? A list of action items (see below) has been created which companies have committed to working on before the next meeting.
- ?? In addition, two one week ad hoc meetings are scheduled before T2#16.

Due to lack of time the following documents were postponed: T2-011014, T2-011028, T2-011029, T2-011104, T2-011105, T2-011106, T2-011128, T2-011129.

AOB:

-

Future Meetings:

Meeting	Date	Venue	Comment
SWG3-EMS#03	16th – 18 th January 2002	Paris	Host: Alcatel
SWG3#09	14th – 18th January 2002	Paris ?	No host yet !!! (NEC ?) MMS, network-related only
SWG3#10	21st – 25th January 2002	Paris	Host: France Telecom ? MMS, network and terminal-related
JM T2-SWG3 / T3	Tbd	Tbd	No host yet !!! MMS, USIM aspects

Output Change Requests:

Output Change Requests from SWG3-EMS/CBS sessions:

Tdoc	Title	Source	Comment
T2-011004	CR 23.040 Rel-5: Editorial changes of Data Format Delivery Request	Siemens	
T2-011024	CR 23.041: Clarification on the use of Message IDs in multi-technology networks	Siemens	
T2-011068	CR 23.040 IEI Classification	Motorola	

T2-011108	Deletion of GSM 01.04 reference	MCC	
T2-011151	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	
T2-011158	CR 23.040 EO Positioning	Motorola	
T2-011159	Common agreement on the support of Polyphony in EMS	Alcatel, Ericsson, Motorola, Digiplug	
T2-011160	CR 23.040 R97 Correction on SMS Information Data Length	Alcatel	
T2-011161	CR 23.040 R98 Correction on SMS Information Data Length	Alcatel	
T2-011162	CR 23.040 R99 Correction on SMS Information Data Length	Alcatel	
T2-011163	CR 23.040 R4 Correction on SMS Information Data Length	Alcatel	
T2-011164	CR 23.040 R5 Correction on SMS Information Data Length	Alcatel	
T2-011165	Selection of Data Formats for Vector Graphics	TEMC ²	

Output Change Requests from SWG3-MMS sessions:

Tdoc	Title	Source	Comment
T2-011019	CR 23.140 Rel-4: Reference to CN3 specifications on RADIUS	Nokia	Approved at SWG3#8
T2-011020	CR 23.140 Rel-5: Reference to CN3 specifications on RADIUS	Nokia	Approved
T2-011043	CR 23.140 Rel-5: Editorial clarification of the reply-charging service behaviour description (former T2M010136)	Siemens	Approved
T2-011111	CR 23.140 Rel-4: MM4 bug fixes	Ericsson	Approved
T2-011112	CR 23.140 Rel-4: Forwarding Counter – revised T2-011006	Logica	Approved
T2-011113	CR 23.140 Rel-5: Forwarding Counter – revised T2011007	Logica	Approved
T2-011115	CR 23.140v440 for removing inconsistency (T2M010194)	Nokia, Siemens	Approved at SWG3#8

	(T2M010194)		
T2-011116	CR 23.140v500 for removing inconsistency (T2M010195)	Nokia, Siemens	Approved at SWG3#8
T2-011119	CR 23.140 REL-5 on indeterminate value	Ericsson	Approved
T2-011120	CR 23140 REL-4 corrections on MM1 and MM4 abstract messages	Materna	Approved.
T2-011127	CR 23140 REL-5 corrections on MM1 and MM4 abstract messages	Materna	Approved
T2-011200	CR 23.140: Read status codes	Ericsson	Approved
T2-011201	CR 23.140: Read status codes	Ericsson	Approved
T2-011211	CR 23.140 Rel-5: Configuration of MMS-capable UE	Nokia	Approved

Output Liaison Statements:

Output LSs from SWG3-EMS/CBS sessions:

None

Output LSs from SWG3-MMS sessions:

Tdoc	Title	Source	Comment
T2-011117	LS reply to WAP WAG MMDC: Forwarding Issues	Logica	Approved
T2-011118	LS to WAP Forum MMDC on reply-charging (former T2M010188)	Siemens	Approved
T2-011122	LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations	CMG	Approved
T2-011150	LS to SERG IREG EC SA2 on Address Resolution in MMS - Reply to SerG LS on E164 Address Scheme	Comverse	Approved

MMS Action Items assigned at T2#15, Cancun

Action Item	Responsible Person	Status
MIME registration: action: revised wording for "use cases" section on EMS media types	Miraj/Gwenael	
create reply-LS to BARG on T2-010916 (via email)	Petri	
Via email: To come up with consensus on REL-4 forwarding – by Wednesday morning	Andreas	
MMS option tables (T2M010140) to become 2 CRs as informative annex for rel-4 and rel-5 – interdependencies between features to be identified	Tim, Hutchison3G	Outstanding issue from SWG3#8
Clarify prepaid vs. status text in either option table in T2M010140, spec or both	Petri, Nokia	Outstanding issue from SWG3#8
T2M010142 (VAS use cases) to be maintained as living document	Henrik, Telia	Permanent
CR: MM7 protocol; basis: T2M010141, T2M010148, T2M010166	Vasilis, Openwave	Outstanding issue from SWG3#8
email discussion on “Duplicate messages”, T2M010125 / T2-011028	Padraig, Logica	Outstanding issue from SWG3#8
email discussion on MM3, T2M010130 / T2-011106	Rami, Comverse	Outstanding issue from SWG3#8
Clarify address hiding – MM4, MM3, forwarding; diff. Rel-4 / rel-5	Josef	
Input on indirect approach for MNP	Aram	
Via email: Address resolution CR based on 1051 – NOT handling of non-MMS-capable recipients	Vasilis	
Via email: handling of non-MMS-capable recipients – basis 1088	Rami	
Via email: Reflect comments on T2-011012 in revised version – might depend on feedback on LS to IREG	Eskil	
Via email: Revision of T2-011018	Eskil	
Via email: Revision of T2-011010	Eskil	
Via email: Discussion of T2-011016 on codes only / not their transport – depends on 23	Eskil	
Via email: Discussion of T2-011017 – depends on feedback from LS to IREG	Eskil	

Lead creation of CR on Messaging part of MM7	Rami	
Lead creation of CR on basic framework part of MM7	Christian	
Lead debate on protocol choice for MM7 DEADLINE: status report by sent to SWG3 by 15th December	Rami	
Rel-4 MMS charging: consistency check	Petri	
Rel-5 MMS charging: Lead discussion	Ileana	
Revise CR on terminal cap neg / check for what is needed as caps on streaming	Josef	
Revise T2-011011	Eskil	
Email: Finalize LS to IREG	Ville	
Revise T2-011213	Henrik	
Revise T2-011214	Miraj	
Email Discussion on T2-011014 (CR 23.140: MMS version end-to-end)	Eskil	
Email Discussion on T2-011029: CR 23.140 Rel-5: Submission Description Enhancement	Josef	
Email Discussion on T2-011104 : CR 23140 editorial changes	Christian	
Email Discussion on T2-011105 : user prompt	Magnus	
Creation of & Email Discussion on T2-011128 / T2-011129: on CR 23.140 REL-4 / 5 on forwarding feature	Andreas	

Detailed Report from all-SWG3:

Tdoc	Title	Source	Comment
T2-011000	Draft agenda SWG3 at T2#15	SWG3 chair	Revised in T2-011101

Discussion: -

Conclusion: -

Tdoc	Title	Source	Comment
T2-011101	Approved agenda SWG3 at T2#15	SWG3 chair	Revised T2-011100

Discussion: -

Conclusion: -

Approved.

Appointment of temporary secretaries

Andreas Schmidt (Siemens) volunteers to take the meeting minutes for the combined MMS/EMS and MMS-only sessions of this week's SWG3 meeting and Alan Baldwin (Ericsson) volunteers to take the minutes for the EMS-only sessions.

Tdoc	Title	Source	Comment
T2-011206	MMS REL-5 work plan	SWG3 chair	For discussion

Josef (SWG3 chair) presents this document.

Discussion:

Due to the high workload for MMS Rel-5 three weeks of Ad-Hoc are proposed in mid of December, mid of January and at the end of January. Many SWG3 delegates would prefer to delete some lower priority MMS Rel-5 work items from as given in document T2-011207 (priority list) rather than having three additional meetings before T2#16 in February. Josef (SWG3 chair) emphasizes that all delegates should make themselves familiar with this document, because it also contains some guidelines and rules for the planned Ad-Hocs.

Conclusion:

It is agreed to meet in CW 3 (14th-18th January 2002) for network related work items only and in CW4 (21st-25th January 2002) for terminal and network related issues. France Telecom offered to host the

second week of Ad-Hoc (CW4) in Paris. A second host for the first week of Ad-Hoc (CW3) still needs to be found. Date and host for the joint meeting with T3 are still to be defined.

Tdoc	Title	Source	Comment
T2-011207	Priority list of SWG3 MMS REL-5 work	SWG3 chair	For discussion

Josef (SWG3 chair) presents this document.

Discussion:

The following work items have been assigned high priority for 3GPP MMS Rel-5

1. Bug Fix Rel-5
2. Address resolution/MNP,
3. MM4: enhanced interworking issues,
4. MM7: interworking with VAS applications,
5. network based mailbox model in MMSE / Persistent Storage,
6. USIM and USAT aspects of MMS,
7. Support for SA5 on MMS charging

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011058	Status of MMS action items	Siemens	

Josef (SWG3 chair) presents this document.

Discussion:

Conclusion:

Noted.

MIME Type Registration

Tdoc	Title	Source	Comment
T2-011078	Registration of SMS-related MIME types with IANA	Alcatel	Document for Discussion

Gwenaël (Alcatel) presents the document.

Discussion:

The aim of this document (deliver a collection of available EMS types, rather than making statements whether the support of certain types is optional or mandatory) is pointed out by Josef. Optional or mandatory support has not been discussed so far in SWG3.

Conclusion:

Miraj and Gwenaël are to provide a revised version of this document, in order to enable Gwenaël to continue with the registration process. This document is noted.

Detailed Report from SWG3-EMS/CBS sessions:

General:

Day1:

Arthur Gidlow opened the meeting; stating that it was important for the group to decide on the future of EMS very soon. Arthur said that One2One view both EMS and MMS as important, but timescales mean that EMS is vitally important in the near term.

Ian Harris felt that EMS was a very valuable technology and that a good standard was needed now. As there was a clear market requirement for EMS.

Several delegates stated that they felt EMS was of key importance in the short term.

Paul Voskar stated that he thought it was important to agree the Rel-5 EMS standard this week. because the window of opportunity was small.

Arthur said that given the level of urgency for finalising EMS, he believed that a good prioritisation was required.

A check was made that the group had all of the documents, and that no documents were missed.

Arthur presented a draft agenda with discussion items in priority order.

Robert commented that Magic4 thought the compression was the most important item.

Randall commented that Motorola's view was that inter-operability was a key issue and should be of higher importance.

It was pointed out that some delegates had requested certain items to be discussed at certain times.

The agenda was modified to account for new priorities.

Day 3:

Randall presented an update to the polyphonic melody discussion.

There is a broad agreement from the polyphonic interested companies. All of the companies agree that they have a very strong desire to see a Midi based solution for EMS. Ericsson will supply details of the new midi proposal that is targeted towards mobile platforms when it is available from the MMA. The interested companies will work together on a single proposal suitable for EMS. The situation is fully described in document T2-011159

It is agreed that Ad-hoc should be held if appropriate to discuss polyphonic melodies (and others) considering all other SWG3 related meetings. There are offers to host from Bijitec, and Alcatel.

Barry asked about the stability of the SVG standard. Stating that he believed that the standard was not frozen. Arthur re-iterated the point that at the Rome Ad-hoc the vector graphics companies were asked to produce information.

Casper stated that he believed that the Bijitec proposal had changed recently, and that the ZoomOn proposal was based on standards.

Dave Chen pointed out that the Bijitec proposal is completely stable and entirely within 3GPP control.

Gwenael asked when the CVG based proposal was made available. Azadeh stated that basing the choice on procedural matters, such as time of submission was not the right way to go. Randall agreed adding that it was more important to have control, and that any externally referenced material had to be stable.

Casper asked about the requirements for a vector graphic standard in EMS.

Randall stated that he believed the requirements for EMS were limited to drawing lines, and simple shapes. He added that he didn't think that colour, & animations were needed for vector graphics. Casper pointed out that EMS already has animations and colour in the bitmap areas.

Dave Chen stated that they thought that their proposal was targeted specifically to EMS. They believe the primary requirement was a small message size.

Paul insisted that all the proposals should be considered on technical merit.

Compression:

Tdoc	Title	Source	Comment
T2-011035	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	Revised in T2-011151

Discussion:

Robert Wakeling presented the CR pointing out the changes from the document which was reviewed at the EMS Ad-hoc meeting in Rome.

Alan commented that there were two sets of change bars.

Peter Freitag pointed out that the deletion of reference 35 would mean pointers to references 36 and 37 would now be wrong. Ian added that it might be easiest to change it to "unused".

Joop pointed out that the diagram references were incorrect.

Randall asked whether this should be renamed as "Extended object Compression Control" as he believed it did not necessarily exclude normal objects.

Paul asked whether it was permissible to reference an algorithm that is not from a standards body. Various delegates stated that this document was self entirely contained.

Paul re-iterated his point saying that the document was self contained but the term LZSS is used, and that is a term from an academic paper. Ian stated that there is a similar situation in 03.042 that references Huffman.

Conclusion:

Revised as T2-011151

Tdoc	Title	Source	Comment
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T2-011089	compression vectors	Magic4	Noted
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Discussion:

Robert presented the test vectors briefly.

Alan stated that the test vectors have been verified by Ericsson to work with the compression and decompression algorithms

Conclusion:

Noted

Polyphonic Melodies:

Ian asked whether the 4 CR's proposed were competing. The other delegates stated that they were. The order in which the presentations were to be made was decided arbitrarily. It was decided that all the relevant polyphonic formats would be presented and that detailed discussions would take place afterwards. These detailed discussions are recorded in the General polyphonic discussion in the end. Small questions regarding each submission were allowed briefly after each presentation.

Tdoc	Title	Source	Comment
T2-011076	CR 23.040 Rel-5: Support of polyphonic melodies in EMS	Alcatel	Noted

Discussion:

Gwenael briefly presented the change request.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011077	Discussion on the support of polyphonic melodies in EMS	Alcatel	Noted

Discussion:

Gwenael presented the document.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011021	CR 23.040 Rel-5: polyphony in EMS	Digiplug	Noted

Tdoc	Title	Source	Comment
T2-011094	discussions on Polyphony	Digiplug	Noted

Discussion:

Digiplug presented the document.

Digiplug declared their position with regards to their IP. (see document T2-011022)

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011039	Standard Midi File Format for EMS - Supporting Information	Ericsson	Noted

Discussion:

Alan Baldwin presented the document.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011038	CR 23.040 ReI-5: Standard Midi File Format (Polyphonic Sound) for EMS	Ericsson	Noted

Discussion:

Alan Baldwin presented the document briefly.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011091	Recommendations regarding polyphonic format for EMS R5	France Telecom	Noted

Discussion:

Philippe presented the document.

Gwenael asked about the licensing of the encoding.

Stephan (France Telecom) stated that they thought size of content was the key issue.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011069	CR 23.040 EMS Polyphonic MIDI	Motorola	Noted

Discussion:

Randall briefly presented this document.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011070	EMS MIDI	Motorola	Noted

Discussion:

Randall presented the document. Which is supporting information to the CR

Thomas Picard asked about the content on the web and conversion. Pointing out that he thought that freely available tools might not be able to publish SMS type content.

Alan Baldwin pointed out that tools freely available allowed content creation, and that a general PC to SMS file converter could easily be produced.

Randall stated that Motorola's point of view was that we should use an industry standard that was royalty free.

Julian Laz (Digiplug) pointed out that their proposal is royalties at a reasonable rate.

Barry Jones highlighted that T2 groups can only decide on technical matters, not on licensing. Barry asked whether after using the guidelines what would be the expected file sizes.

Conclusion:

Noted

General Polyphonic Discussion:

Ian Harris pointed out that even though T2 decides on technical matters, delegates should be mindful of IPR restrictions as once technical matters have been decided they can become bound by IPR and licensing.

Julian (digiplug) asked about decompression requirements.

Alan Baldwin stated that the 23.040 document limits size of uncompressed data, and that the algorithm is suitable for implementation on terminals.

Gwenael stated that their open standard is compact, and that he wondered about the strength of the Midi proposals in terms of Midi Type. He was questioning about the inter-operability of Midi types.

Barry asked about the similarity between the Motorola and Ericsson proposals

Alan and Randall stated that they are very similar.

Gwenael stated that their format is very similar to Midi, but is very optimized.

Ian stated that although there was a wish to build on existing standards, he believed that the move should be towards small formats based on existing standards.

Randall stated that he thought the Midi proposals allow the content providers to carry out the reduction in size.

Peter Neuman pointed out that the group had commonality on some points, and that we should start on some agreed points and try to progress.

Randall suggested that opinion from companies other than Ericsson, Alcatel, Motorola and digiplug.

Cingular wireless stated that they were

Magic4 stated that they thought the IPR issue with

Arthur Gidlow stated that manufacturers should bear in mind the operators view that they need something that works, and that they thought message size was important.

Arthur Gidlow stated that he believed that the discussions had gone as far as they could. He suggested that the interested companies get together offline and discuss the issues involved with a clear view to trying to reach a consensus.

Paul Voskar stated that he thought some common core points should be looked at. Stating that as a group progress had been made and there appeared to be general consensus on the following points. 1) That the format should be based upon Midi

2) That the format should be open and completely royalty free.

Ian Harris stated that the T statement regarding new features was perhaps not worded as good as it could have been. Ian feels that the intention of the T statement is not to stop EMS work at T2#15, but to stop new features being added after T2#15. Ian pointed out this does not prevent work continuing on EMS features already introduced at T2#15.

Paul Voskar and Peter Neuman agreed, stating that this was the intention of the T statement.

Paul suggested that we put a list together of core requirements, Alan Baldwin and Ian Harris agreed:

The following core requirements were drawn up.

?? Midi is the starting point 1.0?

?? Free of IPR

?? Open Standard

?? Optimization for SMS – efficient coding/compression

?? Applicability considerations for MMS

Paul Voskar suggested that an Ad-hoc might be needed.

Vector Graphics:

Tdoc	Title	Source	Comment
T2-011062	Line Drawing Data Size Report	Bijitec	Noted

Discussion:

Dave Chen presented the document

Paul asked about the comparison. Dave stated that Bijitec's document only shows the results for coding the sample images in Bijitec format.

Barry asked where the other data size information is, as he was under the impression a comparison of all the formats was asked for by the Ad-hoc.

Ian pointed out that the document gives facts about the Bijitec sizes, and that these facts could be useful in the comparison.

Casper asked when the document was posted. Dave responded that the document was posted Monday 26th November.

Paul did not see an issue with what Bijitec had done.

Paul asked about IPR with the Bijitec proposal. Bijitec stated that their proposal was Completely royalty free.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011045	A compression method for SVG content	Ericson, Nokia, Siemens, ZOOMON	Noted

Discussion:

Casper presented the document.

Ian Harris asked about the static images section of the report. Questioning particularly the sizes of the files called Forest and AtSleep. He asked whether this could be compared between the Bijitec solution and the ZoomOn solution. Casper stated that some geometry differences exist between the two formats.

Barry asked whether ZoomOn used the original test vectors from Rome. Casper stated that he did not believe that the comparison is like for like since the other companies did not necessarily have a SVG XML parser, and must have used some other way of getting images into their own formats.

Dave stated that for the test report we should look at image size and rendering quality.

Dave observed that the feather drawing is part of a Motorola drawing "wisdompen"

Paul asked how we could compare the formats?

Peter Neuman asked about the quality of the image when scaling.

Gwenael asked about the licensing of CVG. Casper responded that it was royalty free.

Motorola pointed out that fidelity of the drawings was important. Indicating a difference in the rendering of the forest image.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011046	CR 23.040 Rel-5: Vector Graphics Format for EMS	Ericson, Nokia, Siemens, ZOOMON	Noted

Discussion:

Casper presented the CR.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011072	iSketch overview	Motorola	Noted

Discussion:

Motorola presented the document.

Paul asked whether any data for compression was available for this proposed format.

Ian expressed disappointment that the agreement for comparison that was made in Rome was not carried through. Paul Agreed, adding that it was left to the companies involved deciding on a set of criteria and test images.

Peter Neuman stated that it was difficult to compare the different standards, as they seemed to be aimed at different things. Ian stated that it was agreed in Rome that the test images would be used, and he asks why two companies did not produce results for this meeting.

Dave Chen asked that a consensus be made on what was required for EMS.

Paul asked whether the T2 chairman was contacted by SA4 with regard to vector graphics.

Conclusion:

Noted

Tdoc	Title	Source	Comment
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T2-011061	Line Drawing Messaging Overview	Bijitec	Noted
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Discussion:

Dave Chen presented the document.

Gwenael asked about alignment of images and text. Dave answered that the text could be moved around the images.

Conclusion:

Noted

General Vector Graphics Discussion:

Casper talked about the differences between the CVG based proposal and the Bijitec proposal.

Barry asked about the difference between compression and optimisation.

Gwenael stated that he thought that all of the formats were lossy compression, and that the primary aim was to chose the best format that gave a good compromise between image quality and transmitted size.

Randall asked about the library of data available. Casper stated that Adobe tools produce SVG content.

Manu (Motorola) pointed out that authoring tools would use plug-ins.

Barry pointed out that whatever format was chosen tools would be available that can produce the content.

Pascal asked about WBXML and the difference between CVG. Casper stated that the information was available in the contribution.

Tdoc	Title	Source	Comment
T2-011072	ISketch overview	Motorola	Noted

Discussion:

Manu presented the document.

Several delegates pointed out that since each manufacturer had done different optimizations then it was very hard to compare different formats.

Conclusion:

Noted

General Vector Graphics Discussion:**Day2:**

Alan suggested that we send an LS to SA4 asking them to review the Vector Graphics and Midi Cr's.

Randall disagreed stating that he thought that SA4 would only be interested in MMS. Azadeh disagreed with Randall stating that it was even more important for a good decision to be made for EMS since the format needed to be concise.

Gwenael proposed that an LS is sent to SA4 requesting a joint Adhoc in January.

Arthur pointed out that he thought that sending anything to SA4 would introduce a delay and that would be hurtful to the industry.

Barry disagreed and wanted to know why we could not just produce figures, Stephan was not sure that SA4 knew enough about EMS, but thought that they were able to decide on codecs.

Alan proposed that maybe a joint Adhoc meeting might get a better result.

Peter Freitag (Siemens) agreed.

Paul Voskar stated that the discussions on a joint Adhoc pre-suppose that SA4 can attend. Gwenael said that if SA4 cannot attend then the SWG3 EMS Adhoc should go ahead anyway.

Day3:

A discussion took place on what the requirements would be for a Vector Graphics solution in EMS.

The group agreed that the files (in SVG format) that the proposing companies already have distributed after the meeting in Rome would be suitable for the purposes of comparison.

The group agreed that four sizes of image 40x32, 80x64, 160x160, 320x240 would be used to compare the output in GIF or BMP format. Arthur Gidlow will collate the output into a single document for comparison at the Ad-hoc.

It is agreed that animations (dynamic) may be used in the comparison.

Gwenael asked about Chinese character suitability, it was suggested that a sample Chinese character at a small resolution (18x18) maybe added to the comparison.

It was agreed that the compression ratio of the Vector format is of high priority.

It was agreed that building on open standards was of a lower priority.

The delegates did not agree that existent content tools should be easily able to produce content to EMS, they did not agree that a migration path from EMS to MMS was needed. It was not agreed

It was agreed that it was essential that any proposed CR was technically complete.

It was agreed that any CR should be technically realisable in Rel-5.

It was agreed that delegates would produce the data above and send it to Arthur Gidlow by the end of the 21st December (Pacific Time). Arthur will distribute the data on the 24th December. This should allow delegates time to comment on any proposal before the proposed Ad-hoc.

Other - Editorial Corrections:

Tdoc	Title	Source	Comment
T2-011025	CR 23.040 R99: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred
T2-011026	CR 23.040 Rel-4: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred
T2-011027	CR 23.040 Rel-5: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred

Discussion:

NTT Docomo presented this CR (and derivatives).

Peter Freitag commented that he was not happy with the CR because without sending an RP_ACK the MS will re-send the message.

Arthur explained the situation, and asked the NTT Docomo delegate to explain the problematic situation. The NTT Docomo delegate explained the problem.

Arthur asked about the impact on existing mobile terminals of the proposed change. NTT Docomo agreed that there is a possibility of interoperability issues with existing mobile terminals, but that they were unaware of the impact.

Gwenael said that he was sure that there was a conflict in the specification. Several delegates agreed, and asked about the interoperability aspects, expressing concerns about interoperability with old terminals.

Randall asked whether this was a problem that was exhibited in the field. Docomo stated that the problem exhibits itself if the billing mechanism is setup on the RP_ACK. Arthur added that pre-pay billing also sometimes bills in this way.

The general feeling that there was a problem with the specification, and that delegates wished to check on the impact of this specification problem.

The group thanked NTT Docomo for raising the problem.

Conclusion:

The group agreed that there is an inconsistency, and wished more time to discuss this issue. The item shall be deferred for e-mail discussion and the outcome presented at the next T2

Tdoc	Title	Source	Comment
T2-011004	CR 23.040 Rel-5: Editorial changes of Data Format Delivery Request	Siemens	Agreed

Discussion:

Peter Freitag presented this CR

Conclusion:

Agreed

Tdoc	Title	Source	Comment
T2-011154	<i>CR23.040 Correction on SMS Information Element Data Length</i>	Alcatel	Template Agreed New CR's to change applicable versions

Discussion:

Gwenael presented this CR

Peter Freitag pointed out this inconsistency dates back to GSM ETSI specifications. Gwenael asked whether this could be changed by 3GPP. Paul believed that it was within 3GPP's mandate, but urged Gwenael to check with Freidhelm.

Conclusion:

Agreed

The group agreed the content; Gwenael will create new CR's to cover all versions of the specifications.

Tdoc	Title	Source	Comment
T2-011108	Deletion of GSM 01.04 reference	MCC	Agreed

Discussion:

Arthur presented this CR

Conclusion:

Agreed

Other - Interoperability:

Tdoc	Title	Source	Comment
T2-011068	CR 23.040 IEI Classification	Motorola	Agreed

Discussion:

Randall presented this CR.

Gwenael asked why compression control could not be repeated. Randall thought that whilst it may be technically possible to repeat these elements, it was better to enforce compression in a single contiguous block.

The category is missing from the change request

Conclusion:

Agreed

Tdoc	Title	Source	Comment
T2-011065	CR 23.040 EO Positioning	Motorola	Revised as T2-011166

Discussion:

Randall presented this CR

Paul thought that this was an implementation issue, and was not sure that it should be mandate in the specification.

Peter thought that the CR was useful for clarification.

Gwenael thought that this would make a good recommendation for content providers, but questioned whether this was needed in the standard. Gwenael asked what would happen if the content did not match the specifications. Delegates suggested that the content in “illegal” IE’s would be rejected.

There was a suggestion that this be made an advisory note.

Gwenael said that if it were to be a normative statement then there would be need to be a description of what to do in cases that do not conform.

The delegates agreed that the changes should be of the form of an explanatory note.

Conclusion:

Revised as T2-011166

Tdoc	Title	Source	Comment
T2-011066	CR 23.040 Object Distribution Clarification	Motorola	Rejected

Discussion:

Randall presented the document.

Barry asked about the overriding of the Object distribution Indicator inside a compression object.

Gwenael asked why this was needed, as only Rel-5 objects are included in the compression stream, and all rel-5 Extended objects have an integral ODI attribute.

Conclusion:

Rejected

Tdoc	Title	Source	Comment
T2-011064	CR 23.040 Data Format Delivery Request Cmd	Motorola	Revised as T2-011155

Discussion:

Randall presented the document.

Ian asked about the reference to 23.038, Randall stated that the DCS used marks the message for automatic deletion.

Joop expressed concerns about the privacy of information. Randall stated that no information that was confidential was conveyed by the returned information. The Data format delivery request indicator can already deliver the information requested.

Ian asked whether the response comes back in the RP_ACK. Randall responded that it did.

Paul commented that the CR is a new Feature and the category maybe wrong.

Peter Freitag commented that the term SMS-Delivery PDU should be SMS_DELIVER_REPORT. Peter asked the intention of the message being discarded. Randall pointed out that the terminal would probably not want to store these messages.

Peter asked what would happen if other Elements were included in the message. Randall responded that he envisaged only network SME sending this data, it was not envisaged that terminals would send this.

Gwenael pointed out that explicitly stating the DCS value might not be a good idea if the 23.038 specification changed. Arthur suggested that the words from 23.038 might be included instead of the value.

Gwenael said that the term SC should perhaps be replaced with SME. He felt that it might not be a SC that originates the message.

Questions were raised about the return path. Ian Harris suggested that the CR places no requirement on the SMSC. Joop disagreed. Ian pointed out that any IE value is optional, and the SMSC can decide whether to reject the message or not if it does not support the IE.

Joop asked whether it was possible to return user data attached to RP_ACK and RP_ERROR. Peter Freitag and Arthur Gidlow said that it is possible, but it is not widely used.

Gwenael pointed out that the IEI Data lengths 9.2.3.24 allow IEI Data lengths only to be 1 to "n" octets. This is in conflict with the CR that uses a 0 length IEI. Randall pointed that this inconsistency already exists with section 9.2.3.24.7. The group agreed that a CR should be raised to correct this. Gwenael will do this in T2-011154.

Paul asked about the backward compatibility of this CR. Randall stated that older terminals will not recognize this IE, and will therefore be ignored.

Randall will revise the existing document T2-011155

Conclusion:

Revised as T2-011155

Tdoc	Title	Source	Comment
T2-011155	CR 23.040 Extended Object Data Request Command	Motorola	Deferred

Discussion:

Randall presented the CR.

Peter Freitag suggested a modification to cover the case where a SM contains only this IE, allowing the short message to be discarded.

Ville expressed concerns about the behavior of this particular IE, since it appears to affect SMSC. Randall answered that the implementation is left open.

Ville asked about information being exchanged between different network subscribers, and is this supported currently by SMSC vendors. Randall pointed out that no confidential information is being exchanged, and that its is not currently implemented.

Joop expressed concerns about the implications on the SMSC since the SMS-DELIVER-REPORT is being changed. Randall pointed out that user data could already be included in an SMS-DELIVER-REPORT.

Joop pointed out that this specification defines an interface between the SMSC and SME. Arthur believed that this type of thing is already carried out in an SMS-DELIVER-REPORT.

Joop (CMG) and Paul (Nokia) pointed out that they had reservations about the CR.

Joop suggested that changes could be made elsewhere to achieve the same result in a shorter timescale, Randall questioned whether this would cause problems with billing mechanisms.

Joop said that he would be in favour of achieving this using a MO message, as he was not against the principle of EMS inter-operability.

Conclusion:

The CR is deferred to an e-mail discussion to be started by Randall Grund of Motorola

CBS documents:

Tdoc	Title	Source	Comment
T2-011024	CR 23.041: Clarification on the use of Message IDs in multi-technology networks	Siemens	Agreed

Discussion:

Peter Freitag presented this document.

Randall asked whether the category is correct. Ville stated that for Rel-4 it needs to be a correction.

Conclusion:

Agreed

Tdoc	Title	Source	Comment
T2-011090	Request for clarification about WDP over CBS	CMG/Swapcom	Noted

Discussion:

Joop presented this document.

Randall suggested that we note this document and move on.

Conclusion:

Noted

Tdoc	Title	Source	Comment
T2-011092	CR 23.038: User Data Header support over CB	Magic4	Revised as T2-011168

Discussion:

This document had an incorrect header sheet, and was submitted late. The group briefly looked at it.

Ville asked why EMS is mentioned, as there are no requirements from SA1 for EMS over CBS. Some changes were made to the document to remove references to EMS.

Peter Freitag pointed out that only DCS values defined by the WAP forum may be used. Randall asked whether this CR was introducing two changes.

Peter Freitag stated that SA1 had rejected EMS over CB, but this seems to be a back door route to achieve the same thing via the WAP forum.

Conclusion:

Revised as T2-011168

Tdoc	Title	Source	Comment
T2-011166	Support of User data Header structure in CBS	CMG	Deferred

Discussion:

Joop presented this document.

Conclusion:

Deferred

Detailed Report from SWG3-MMS sessions:

Prioritisation of 3GPP MMS Rel-5 Work Items

Tdoc	Title	Source	Comment
T2-011057	Priority of SWG3 MMS work until T2#16, February 2002	SWG3 chair	revised in T2-011097

Josef (SWG3 chair) presents the document.

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011097	Priority of SWG3 MMS work until T2#16, February 2002	SWG3 chair	Revised T2-011057

Josef (SWG3 chairman) presents the document.

Discussion:

Some companies complain about their views in respect of prioritisation not being reflected in the document. A discussion follows giving companies the opportunity to make comments and express their views on the list of prioritisations. "Addressing Resolution/Mobile Number Portability" is added as a new work task to the list. Ville points out that SA4 is responsible for media types/formats and presentation. Some delegates see the need to write an LS to SA4 on standardised presentation language based on the discussions in SWG3. Openwave supports this approach in order to take care of interoperability. BLU: The uncertainty about work in SA4 (are they working on presentation languages?) would justify an LS.

It is agreed to send an LS from T2 to SA4 indicating that T2 sees the need to have a presentation language standardised for 3GPP MMS Rel-5. Vasilis volunteers to prepare such an LS. T2 might have to revisit this topic if SA4 does not come up with an answer.

The following work items have been assigned *high* priority:

1. Address resolution/MNP,
2. MM4: enhanced interworking issues,
3. MM7: interworking with VAS applications,
4. network based mailbox model in MMSE (persistent storage),
5. USIM and USAT aspects of MMS,
6. Support for SA5 on MMS charging

The following work items have been assigned *medium* priority:

7. MM3 interworking with external messaging systems (e.g. with e-mail systems) † Rel-5 (if feasible)

The following work items (listed here in alphabetical order) have been assigned *low* priority, some of them might be postponed to 3GPP MMS Rel-6:

- ~~enhanced charging methods~~
- ~~enhancements for addressing~~
- ~~extended MMS User Agent capabilities~~

- ~~///~~ security enhancements
- ~~///~~ streaming
- ~~///~~ User Profile mechanisms

For the time being the Non-Wap 1.x implementation of MM1 is pending until discussion on Wednesday, i.e. this issue can be appear at any bullet point of this list later on. The classification of media types/formats and presentation depends on the reply-LS from SA4.

Conclusion:

Noted.

Bug Fixes for MMS Rel-4

Tdoc	Title	Source	Comment
T2-011023	MM4 Bug Fixes (Rel-4)	Ericsson	CR to Rel-4 of category F

Eskil (Ericsson) presents the document.

Discussion:

According to 23.140 Rel-4 the originator MMS Relay/Server is responsible for retaining an MM until the earliest desired time of delivery. SWG3 sees no reason for conveying the corresponding information element on the MM4 reference point to the recipient MMS Relay/Server.

Conclusion:

Rejected. Eskil is asked to prepare a new document T2-011111.

Tdoc	Title	Source	Comment
T2-011111	MM4 Bug Fixes (Rel-4)	Ericsson	CR to Rel-4 of category F

Eskil (Ericsson) presents the document.

Discussion:

No comments.

Conclusion:

Approved.

Tdoc	Title	Source	Comment
T2-011119	MM4 Bug Fixes (Rel-5)	Ericsson	Mirror-CR for Rel-5 to T2-011111

Eskil (Ericsson) presents the document.

Discussion:

Conclusion:

Approved.

Tdoc	Title	Source	Comment
T2-011006	CR 23.140 Rel-4 Forwarding Counter	Logica	CR to Rel-4 of category F

Padraig (Logica) presents the document.

Discussion:

Minor comments.

Conclusion:

Agreed in principle. Padraig is asked to provide a revised version in T2-011112.

Tdoc	Title	Source	Comment
T2-011112	CR 23.140 Rel-4 Forwarding Counter	Logica	CR to Rel-4 of category F

Padraig (Logica) presents the document.

Discussion:

No comments.

Conclusion:

Approved.

Tdoc	Title	Source	Comment
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T2-011007	CR 23.140 Rel-5 Forwarding Counter	Logica	CR to Rel-5 of category A
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Padraig (Logica) presents the document.

Discussion:

Minor comments.

Conclusion:

Agreed in principle. Padraig is asked to provide a revised version in T2-011113.

Tdoc	Title	Source	Comment
T2-011113	CR 23.140 Rel-5 Forwarding Counter	Logica	CR to Rel-5 of category A

Padraig (Logica) presents the document.

Discussion:

No comments.

Conclusion:

Approved.

Tdoc	Title	Source	Comment
T2-011008	CR 23.140 Rel-4: Forwarding Addresses-Date-Time	Logica	revised in T2-01109

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011009	CR 23.140 Rel-5: Forwarding Addresses-Date-Time	Logica	revised in T2-01110

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011063	CR 23.140 Rel-4 Correction of the Forwarding Feature	Siemens	revised in T2-01109

Discussion:**Conclusion:**

Noted.

Tdoc	Title	Source	Comment
T2-011109	CR to 23.140 Rel-4 Forwarding Feature	Siemens, Logica	CR to Rel-4 of category F

Padraig (Logica) presents the document.

Discussion:

Some comments are expressed by Nokia on the use of the term “may” and on the formats of the addresses and dates.

Conclusion:

Rejected. Action item to Padraig and Andreas to come up with a revised version of this document in T2-011126.

Tdoc	Title	Source	Comment
T2-011110	CR to 23.140 Rel-5 Forwarding Feature	Siemens, Logica	Mirror-CR for Rel-5 to T2-011109

Discussion:**Conclusion:**

Rejected. Action item to Padraig and Andreas to come up with a mirror CR to document T2-011126.

Tdoc	Title	Source	Comment
T2-011126	CR to 23.140 Rel-4 Forwarding Feature	Siemens, Logica	CR to Rel-4 of category F

Andreas (Siemens) presents the document.

Discussion:

What happens when a MMS Relay/Server deletes some of the entries in the “previously-sent-by” information element? Maybe this needs to be clarified. The header value “address” is questioned.

Conclusion:

This CR is agreed in principle, but the addressing issue has to be worked on by Padraig, Andreas, Soeren and Ville. Andreas volunteers to provide new versions of this CR in DRAFT-T2-011128 and DRAFT-T2-011129, to be created after the meeting via e-mail.

Tdoc	Title	Source	Comment
T2-011005	Reply-LS to WAP WAG MMDC on Forwarding Issues	Logica	Reply-LS to WAP Forum

Padraig (Logica) presents the document.

Discussion:

Some minor editorial changes are discussed.

Conclusion:

A revised version can be found in document number T2-011117.

Tdoc	Title	Source	Comment
T2-011117	Reply-LS to WAP WAG MMDC on Forwarding Issues	Logica	Reply-LS to WAP Forum

Approved.

Tdoc	Title	Source	Comment
T2-011036	CR 23.140 Rel-4: Address hiding outside MMS	Ericsson	CR to Rel-4 of category F

Eskil (Ericsson) presents the document.

Discussion: -

Conclusion:

Rejected. Action Item to Josef to come up with a revised version of this CR.

Tdoc	Title	Source	Comment
T2-011042	LS to WAP Forum MMDC on reply-charging	Siemens	Reply-LS to WAP Forum

Andreas (Siemens) presents the document.

Discussion:

The chairman points out that it is not allowed to include documents within a document anymore. It is agreed to restrict the LS to Rel-4 issues only.

Conclusion:

Noted. A revised version of this document can be found in T2-011118.

Tdoc	Title	Source	Comment
T2-011118	LS to WAP Forum MMDC on reply-charging	Siemens	Reply-LS to WAP Forum

Approved.

Tdoc	Title	Source	Comment
T2-011103	Changes on MM1 and MM4 abstract messages	Materna	CR to Rel-4 of category F

Christian (Materna) presents the document.

Discussion:

Questions are raised why the message ID in the MM4_forward.RES abstract message can be deleted and what the status text in the MM1_read_reply_originator.REQ abstract message is good for. Christian explains. Most delegates think that the message ID should not be deleted due to backwards compatibility problems. Vasilis sees a use case for the status text information element, but Miraj is worried that the status text could be used fraudulently by a user, because it is conveyed end-to-end and could be used for sending short messages.

Conclusion:

Rejected. The chairman would like to see Christian preparing two new documents, including a mirror CR.

Tdoc	Title	Source	Comment
T2-011120	Changes on MM1 and MM4 abstract messages (revised T2-011103)	Materna	CR to Rel-4 of category F

Christian (Materna) presents the document.

Approved.

Tdoc	Title	Source	Comment
T2-011121	Changes on MM1 and MM4 abstract messages Rel-5 (revised T2-011103)	Materna	CR to Rel-5 of category F

Christian (Materna) presents the document. This document is noted.

The category of this CR is changed. A revised version can be found in T2-011127.

Tdoc	Title	Source	Comment
T2-011127	Changes on MM1 and MM4 abstract messages Rel-5 (revised T2-011121)	Materna	CR to Rel-5 of category A

Approved.

Bug Fixes for MMS Rel-5

Tdoc	Title	Source	Comment
T2-011012	ESMTP Message size declaration	Ericsson	CR to Rel-5 of category B

Eskil (Ericsson) presents the document.

Discussion:

A controversial discussion arises. The interesting parties are invited to discuss this issue further.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011015	Read Status Codes	Ericsson	CR to Rel-5 of category C

Eskil (Ericsson) presents the document.

Discussion:

Some comments result in a slightly modified version. Eskil is to prepare two new CRs: one to Rel-4 (T2-011200) and one mirror CR to Rel-5 (T2-011201).

Conclusion:

Agreed in principle.

Tdoc	Title	Source	Comment
T2-011200	Read Status Codes	Ericsson	CR to Rel-4 of category C

Approved.

Tdoc	Title	Source	Comment
T2-011201	Read Status Codes	Ericsson	CR to Rel-5 of category A

Approved.

Tdoc	Title	Source	Comment
T2-011018	MM4 forwarding failure	Ericsson	CR to Rel-5 of category B

Eskil (Ericsson) presents the document.

Discussion:

Eskil volunteers to prepare a revised version of this document via e-mail.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011010	Clarification of request status codes over MM4	Ericsson	CR to Rel-5 of category B

Eskil (Ericsson) presents the document.

Discussion:

Intention is to to make the meaning of status codes more clearly. Concerns about backwards compatibility problem. It is suggested that old Rel-4 error codes should be marked as “not valid anymore” in the new

list. Jerry, Vasilis: mapping of SMTP error codes should be envisaged based on operator input and Ville's presentation. The chairman asks all interesting parties to provide input for the next meeting.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011016	Improved Request Status Codes over MM4	Ericsson	CR to Rel-5 of category C

Eskil (Ericsson) presents the document.

Discussion:

Eskil volunteers to prepare a revised version of this document via e-mail. Aim is to provide input for the next meeting.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011013	MM4 bug fixes (mirror CR)	Ericsson	CR to Rel-5 of category A

No presentation. Rejected.

Tdoc	Title	Source	Comment
T2-011202	MM4 routing	Nokia	Presentation

Ville (Nokia) presents his document.

Discussion:

Action Item: Eskil, Vasilis and Ville are to draft an LS to IREG, Cc: SA1, SA2 and SerG.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011017	Functionality Handling over MM1 and MM4	Ericsson	CR to Rel-5 of category B

Eskil (Ericsson) presents the document.

Discussion:

Address Hiding and Reply-Charging service behaviour descriptions are affected by this document. A long and controversial discussion arises. Some delegates ask how the proposed mechanism works and when queries to the MMS Relay/Server should be done. Rami sees the risk that both originator and recipient MMS Relay/Server send back report saying not the same thing. A statement about not sending the MM if a negative report comes back is missing. The chairman asks all interesting parties to sit together and provide input for the next meeting. Basic question: is it necessary to separate this CR into MM1 and MM4 issues? SWG3 agrees to work only on one combined CR covering both MM1 and MM4. Openwave is requesting feedback from the operators on SMTP issue. Rami would like to see Vasilis to join Ville who is writing an LS to the operators, because some of them might not take a look into the meeting minutes.

Conclusion:

Rejected.

Non-WAP 1.x implementation of MM1 for MMS Rel-5

Tdoc	Title	Source	Comment
T2-011053	CR 23.140 (MM1 Technical realization based on existing IETF Messaging Protocols)	Openwave	

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011084	CR 23.140 Rel-5: Technical Realisation of MM1 Interface based on tunnelled SMTP and IMAP protocols	Schlumberger Sema, Comverse	

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011098	Alternative MM1 implementation for Release 5	Various companies	Document for Discussion

Marina (Schlumberger/SEMA) presents the document.

Discussion:

Josef asks the delegates to read this document carefully as a preparation for the discussion about this topic which is scheduled to take place on Wednesday. Ville would like to see the names of all the supporting companies in the source field rather than “various companies”. Vasilis complains that not all of his comments are included. Marina does not agree, from her point of view all of Openwave’s comments are included without any changes. Rami says that this document does reflect different views from different companies and that no common agreement has been achieved on this document. Josef proposes to use “SWG3 chairman” as a new document source instead of “various companies”. Document T2-011098 is withdrawn. Vasilis points out that Openwave’s position is not reflected clear enough in this document. Thus he does not want to see Openwave as a supporting company in the source field of this document. Rami asks Openwave to prepare a new document before Wednesday providing their views on this topic.

Conclusion:

Some companies emphasize that no common agreement has been achieved on either the criteria or the assessment made in this document. A revised version of this document is assigned document number T2-011102. Discussion is to be resumed on Wednesday afternoon.

Tdoc	Title	Source	Comment
T2-011102	Alternative MM1 implementation for Release 5	Various companies	Document for Discussion

Discussion:

Delegates are urged to carefully study this document before the discussions on Non-WAP 1.x implementation take place.

Conclusion:

Noted.

Tdoc	Title	Source	Comment
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T2-010917	LS from WAP Forum on non-WAP 1.x MMS implementation	WAP WAG MMDC	Incoming LS from WAP Forum
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Soeren (Motorola, WAP Forum Liasion Officer) presents the document.

Discussion:

The need to approach the IETF on URIs mentioned in the document is questioned by Rami. Vasilis asks if vendors that do not want to implement the “WAP stack” on their handsets can make use of a future WAP MMS implementation or if this approach is not feasible at all due to remaining dependencies of WAP MMS on other parts of the WAP specifications, e.g. WAP UA Prof or WAP PUSH.

Conclusion:

SWG3 might come back to this document on Wednesday afternoon. Noted.

Tdoc	Title	Source	Comment
T2-010919	LS on MMDC's process and target for WAP MMS	WAP WAG MMDC	Incoming LS from WAP Forum

Soeren (Motorola, WAP Forum Liasion Officer) presents the document.

Discussion:

Questions arose about some terminology used in this LS and about MMDC's statement on their optimistic view regarding the time frame of future MMS work aiming to incorporate 3GPP's MMS Rel-5 requirements.

Conclusion:

Noted. SWG3 might come back to this document.

Tdoc	Title	Source	Comment
T2-011237	LS from GSMA MSIG regarding the MMS standardisation of MM1 Release 5	CN5	

Discussion:

Conclusion:

Noted.

Digital Rights Management

Tdoc	Title	Source	Comment
T2-010896	Initial comments on digital rights management	SA3	Incoming LS from SA3

Josef (SWG3 chairman) presents the document.

Discussion:

Ian and Josef think that SA3 does not expect a response from SWG3. According to Vasilis SA1 is responsible for DRM requirements in 3GPP. Rami agrees that we are not asked to do anything.

Conclusion:

This document is noted.

Tdoc	Title	Source	Comment
T2-010909	Liasion Statement on digital rights management	Openwave	Incoming LS from SA1

Vasilis (Openwave) presents the document. Basic Statement: SA1 is planning to work on DRM for Rel-6, not for Rel-5.

Discussion:

Rami: we are not asked to do anything.

Conclusion:

This document is noted.

Addressing in MMS

Tdoc	Title	Source	Comment
T2-010913	Liaison Statement on E.164 addressing support for MMS	SA2	Incoming LS from SA2

Rami (Comverse) presents the document.

Discussion:

Josef: There is no action required from SWG3.

Conclusion:

This document is noted.

Tdoc	Title	Source	Comment
T2-011037	CR 23.140 Rel-5: Address hiding outside MMS	Ericsson	

Discussion:

Conclusion:

Rejected.

IMS Identifiers

Tdoc	Title	Source	Comment
T2-010915	LS on IMS identifiers	CN1	Incoming LS from CN1

Josef (SWG3 chairman) presents the document.

Discussion:

Ileana says we should take this document into consideration when we discuss the Nokia contribution proposing a new annex for both connectivity and user preferences parameters to 3GPP TS 23.140.

Conclusion:

This document is noted.

Billing and network aspects concerning Multimedia Messaging Interworking

Tdoc	Title	Source	Comment
T2-010916	Billing and network aspects concerning Multimedia Messaging Interworking	SMS Steering committee	Incoming LS from GSMA BARG

Ian (Vodafone) presents the document.

Discussion:

Is SWG3 expected to give feedback on this document? Ian does not think so, because the GSMA BARG#55 meeting is scheduled to take place this week in parallel to T2#15. Vasilis says that SWG3 should regard this document as a request for a joint effort on billing issues. Petri agrees and volunteers to

prepare an answer. Rami objects to handling this topic during this week's meeting, because it is a new work item and not on our list of high priority work items. Ileana is in favour of figuring out impact of content type on charging for IMS. Rami: MMS does not go through IMS; therefore IMS is of no interest for us.

Conclusion:

This document is noted. Action item to Petri to prepare a reply-LS to GSMA BARG.

Address Resolution

Tdoc	Title	Source	Comment
T2-011122	LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations	CMG	

Discussion:

Conclusion:

Approved.

Tdoc	Title	Source	Comment
T2-011099	LS to SERG IREG EC SA2 on Address Resolution in MMS - Reply to SerG LS on E164 Address Scheme	Comverse	revised in T2-011150

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011150	LS to SERG IREG EC SA2 on Address Resolution in MMS - Reply to SerG LS on E164 Address Scheme	Comverse	revised T2-011099

Discussion:

Conclusion:

Approved.

Tdoc	Title	Source	Comment
T2-011050	3GPP MMS MSISDN Address Resolution	Openwave	Presentation

Vasilis (Openwave) presents the document.

Discussion:

Rami: the details of the IMSI solution has to be worked on further. Concerns are raised if the proposal is putting a barrier (additional delay) to number portability. Aram asks if the proposed mechanism could cause problems in cases where the MMS Service Provider is not identical to the network operator.

Conclusion:

SWG3 agrees to work on three different approaches for address resolution in MMS Rel-5 as follows: ENUM is one approach and two interim IMSI solutions (direct MNP and indirect MNP) are regarded to be suitable as a second approach. Aram is requested to provide input for the indirect MNP IMSI approach. The presentation is noted.

Tdoc	Title	Source	Comment
T2-011051	3GPP MMS MSISDN Address Resolution	Openwave	CR to Rel-5 of category F

Vasilis (Openwave) presents the document.

Discussion:

Aram proposes changes to the picture. Rami supports this CR in principle, but sees the need for further work, even if the proposed mechanism is regarded just as an interim solution. A normative annex is regarded to be the right way to proceed.

Conclusion:

SWG3 does agree in principle to this CR. All interested parties (Aram, Petri, Rami, Vasilis) are invited to draft a new version via e-mail aiming to provide a final CR for the next MMS meeting. Making the annex normative means that everyone implementing this optional feature has to stick to the annex. Aram volunteers to write an LS to CN4 (cc: SA2) requesting to make MAP send IMSI operations mandatory.

Tdoc	Title	Source	Comment
T2-011088	CR 23.140: Before a proper solution for addressing is available	KT ICOM	CR to Rel-4 of category C

Josef (SWG3 chair) presents the document.

Discussion:

Rami says KT ICOM is pointing out a very important issue and that SWG3 should discuss this CR in detail via e-mail.

Conclusion:

Rejected. This CR shall be taken as a basis for the e-mail discussion lead by Rami.

Tdoc	Title	Source	Comment
T2-011125	MSIG Member Statement to 3GPP T2 regarding the standardisation of addressing	KPN et altera	

Menno (KPN) presents the document.

Discussion:

Menno is asked to check this issue with other operators and to come with a new document.

Conclusion:

Noted.

MM7 interworking with VASP applications

Tdoc	Title	Source	Comment
T2-011032	Use cases for VAS	Telia	for discussion

Henrik (Telia) presents the document.

Discussion:

Setting up the first VAS between a Service Provider (network operator) and a VASP is not supported with Rel-5 of MM7. It is agreed to keep this document as a living document for VAS use cases. The title should not be changed in future to avoid confusion (T-doc number will change with every updated version). At this time no official LS is written.

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011087	CR 23.140: MMS Abstract Messages	Comverse	revised in T2-011203

Discussion:**Conclusion:**

Noted.

Tdoc	Title	Source	Comment
T2-011203	CR 23.140 REL-5 MM7 abstract messages	Comverse	revised T2-011087

Jerry (Comverse) presents the document.

Discussion:

Concerns are raised about statements in section 7. Josef says this document could serve as a basis for further discussions. Nokia cannot agree on some of the features (e.g. profiles, authentication details). Nevertheless, Petri can finally agree that this document can serve as a basis for future work. Josef points out that MM7 has definitely to be on the agenda of the first of the planned Ad-Hoc. Rami: It was a big mistake not to include all the framework functions (authentication, encryption and so on) that are needed for Rel-5, but we will be running out of time. Rami apologizes for not having noticed this problems earlier and asks other participants for support on the work of the basic framework part. Openwave is rethinking its position on MM7 protocols (maybe PAP will be regarded as suitable).

Conclusion:

Comverse is to lead the discussion on the messaging part and Materna to lead the discussion on the framework part aiming to prepare a CR. Josef (SWG3 chairman) asks the parties to come to a conclusion via e-mail by December 10th, 2001. Rami is to lead the discussion on protocols and to report the outcome by December 15th.

Tdoc	Title	Source	Comment
T2-011033	CR 23.140 Rel-5 (MM7 additions)	Telia	CR to Rel-5 of category B

Henrik (Telia) presents the document. Rejected.

Tdoc	Title	Source	Comment
T2-011041	MM7 issues	Logica	CR to Rel-5 of category B

Padraig (Logica) presents the document. Noted.

Tdoc	Title	Source	Comment
T2-011040	MM7 issues	Logica	for discussion

Padraig (Logica) presents the document. Noted.

Final discussion on MM1 in order to come to a consensus and avoid the T2 VOTE

Tdoc	Title	Source	Comment
T2-011052	3GPP MMS based on existing IETF messaging protocols	Openwave	Presentation

Vasilis (Openwave) presents the document.

Discussion:

see below

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011208	suggested compromise on non-WAP 1.x MM1	SWG3 chair	for discussion

Discussion:

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011209	2 nd suggested compromise on non-WAP 1.x MM1	SWG3 chair	for discussion

Discussion:**Conclusion:**

Noted.

Tdoc	Title	Source	Comment
T2-011054	Multimedia Messaging Service	Various companies	for discussion

Vasilis (Openwave) presents the document.

Discussion:

see below

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011055	Release 5 MMS Implementation	BT	for discussion

Kevin (MMO2) presents the document.

Discussion:

see below

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011204	withdrawn	withdrawn	Withdrawn

Discussion:

Rami objects against the presentation of this document under the title “MSIG Members Statements...”, because the title is misleading: Comverse and Omnitel Vodafone do not support the statements in this document although being MSIG members. The title is changed. The new document is assigned document number T2-011205.

Conclusion:

withdrawn.

Tdoc	Title	Source	Comment
T2-011205	Statements on MM1 Interface v3.0	Various companies	for discussion

Menno (KPN) presents the document.

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2-011083	HTTP based solution for MM1	Comverse	Presentation

Rami (Comverse) presents the document.

Discussion:

NTT DoCoMo proposes to combine the different IETF-based proposals and to compare the combined IETF-based proposal to WAP, i.e. SWG3 would only have to discuss two instead of three different implementation proposals. Josef: let's get the motivations sorted out: Why do some companies want to have an alternative implementation based on IETF? Rami delivers an objective summary. Very long discussions follow about work in WAPF, different protocols, persistent storage and other related issues.

Conclusion:

Noted

An extensive debate on the pros and cons of the three proposals no conclusion could be drawn. As a way towards a compromise the SWG3 chairman suggested the following approach:

Suggestion #1

1. to add a normative reference to WAP specs into 23.140,
2. to endorse the tunneling of IMAP commands for inbox management (in order to avoid backwards compatibility problems),
3. to request from WAPF to take 2.) as basis to enable future extensions of inbox management with little standardisation effort,
4. to request from WAPF normative reference to 23.140 in WAPF specs

After long debate which did not result in a consensus, the SWG3 chairman carried out an informal show of hands in order to get an indication for the group's opinion, including those companies that did not speak up during discussions. The compromise listed above is acceptable for 17 delegates, 12 delegates do not agree

and 4 delegates abstain. Some delegates are in favour of removing bullet points #2 and #3 from the suggested list above.

After this it was discussed whether the group prefers to specify MMS MM1 stage 3 within 3GPP rather than by the WAP Forum. Again after lengthy discussions no consensus was reached. In order to also find out those companies' opinion that did not speak up during discussions another indicative, informal show of hands upon the original motion (VOTE#1 "Shall 3GPP TSG T WG2 SWG3 specify an alternative Rel-5 3GPP MMS Stage 3 for MM1 in addition to the specifications that will be provided by the WAP Forum") was held. Again it results in an almost 50/50 result: 20 delegates indicate "yes", 22 indicate "no".

Concerns were expressed that the tunneling of IMAP was not endorsed as the best solution and could therefore not be agreed upon. The suggestion for a compromise was therefore revised into:

Suggestion #2

1. to add a normative reference to WAP specs (successors 274, 275, 276) into 23.140,
2. to endorse inbox management,
3. to request from WAPF to enable future extensions of inbox management with little standardisation effort,
4. to request from WAPF normative reference to 23.140 in WAPF specs

But discussions about such a compromise did again not turn out into a consensus. Another indication for the groups opinion, including those companies that did not speak up during discussions, was felt necessary. An informal show of hands upon compromise #2 listed above is performed. This suggestion is acceptable for 20 delegates, whereas 19 delegates do not agree.

The decision finding process is stuck. Due to the high workload (still many outstanding work items to be discussed) SWG3 finally agrees not to spend any more time and energy on the MM1 issue. The discussion was suspended over night.

The following morning an additional attempt was made by SWG3 chairman to find a compromise in the hope that delegates might have changed their minds over night. Ville expresses his concerns about this proceeding. Rami however supports finding a compromise, because the situation right now is not satisfying for most delegates. The first suggestion was slightly changed, lengthily debated but again could not be concluded upon:

Suggestion #1A

1. to add a normative reference to WAP specs (successors 274, 275, 276) into 23.140,
2. to endorse an IMAP-based (tunnel or direct) inbox management,
3. to request commitment from WAPF to take 2.) as a basis to enable future extensions of inbox management with little standardisation effort,
4. to request from WAPF normative reference to 23.140 in WAPF specs

An indication for the silent majority's view was needed by another informal show of hands upon compromise #1A listed above. This suggestion is acceptable for 13 delegates, whereas 23 delegates do not agree.

Josef (SWG3 chairman) presents a "last resort" towards a compromise which can be found below:

Suggestion #3

1. Define 3GPP MMS MM1 Stage3 Rel-5,
2. Basis: copy-paste WAP specs 274/275/276 into 23.140,
3. Define extensions to these to support inbox management/persistent storage,

Conditions:

- a) Get “ok” from T2 and T plenary for this approach
- b) Request to extend MM1 Rel-5 until Q3/2002
- c) Finalise other Rel-5 work until Q1/2002
- d) Legal problems with WAPF?

Again discussions got stuck soon and the SWG3 chairman needed some indication for whether this last proposal for a compromise would be acceptable to the majority. An informal, indicative show of hands upon suggestion #3 listed above is performed which has the following result: the proposal is acceptable for 2 delegates, whereas the majority does not agree.

The SWG3 chairman concluded that whilst he noted many delegates had expressed a wish for a compromise, it seemed that after discussions on this lasting many days during several meetings and 4 different proposals for a compromise that a compromise would not be reached.

Due the situation being stuck at such a point, T2 chairman, initiates an informal show of hands on having a vote on the following motion at T2#15:

“Shall 3GPP TSG T2 deliver an alternative MM1 implementation in addition to the specifications that will be delivered by the WAP Forum for Rel-5?”

A number of 22 delegates are in favour of having a vote on the motion mentioned above, whereas 13 delegates are not.

MMS and USIM

Tdoc	Title	Source	Comment
T2-011100	-	-	-

Withdrawn.

Tdoc	Title	Source	Comment
T2-011210	Storage of MMS parameters in the USIM	T3 chairman	Inofficial LS from T3

Andreas (Siemens) presents the document.

Noted.

Tdoc	Title	Source	Comment
T2-011030	Discussion points to MMS and USIM	Siemens	For discussion

Andreas (Siemens) presents the document.

Discussion:

Size of notification: SWG3 states that more than 255 Bytes for a notification are possible, priority list of information elements to be stored could be envisaged, but even with this approach the notification can exceed the limit of 255 Bytes.

Flexibility to combine data: For the MMS user preferences the more flexible approach makes sense, so why not allow flexibility also for MMS Service Configuration Parameters and MMS Access Parameters? Thus SWG3 is in favour of figure 1 (full flexibility).

Conclusion:

Action Item: Andreas is to lead e-mail discussion (with Miraj, Volahanta and Soeren).

Noted.

Tdoc	Title	Source	Comment
T2-011031	Configuration of MMS-capable UEs	Nokia	CR to Rel-5 of category B

Miraj (Nokia) presents the document.

Discussion:

It is agreed in principle to have such an annex in 23.140 Rel-5, but some delegates still see the need for a revised version that makes use of 3GPP terminology only (meaning of e.g. "NAP" is not clear).

Conclusion:

Miraj is to provide new version based on Vasilis', Jerry's and Volahanta's comments in T2-011211. This CR is rejected.

Tdoc	Title	Source	Comment
T2-011211	Configuration of MMS-capable UEs	Nokia	CR to Rel-5 of category B

Miraj (Nokia) presents the document.

Discussion:

some minor comments.

Conclusion:

Approved.

Other outstanding issues

Tdoc	Title	Source	Comment
T2-011059	Terminal Capability Negotiation	Siemens	CR to Rel-5 of category B

Josef (Siemens) presents the document.

Discussion:

Some editorial changes are proposed and a discussion arises whether or not this CR is aiming to copy the MeXE model. In regards to streaming it is suggested to reference the corresponding 3GPP specification and to clarify of what type (static or dynamic content) the information in the profile is. Soeren suggests to contact the experts on User Agent Profile in WAP Forum. Rami supports this idea. Miraj says the header fields names that correspond to certain functionalities could be used alternatively in some cases in the MMS Relay/Server. Rami fears that such an approach could be Nokia specific and therefore interoperable. Other delegates (e.g. Ileana, Antonella, Henrik and Vasilis) see the need to make Terminal Capability Negotiation a mandatory feature. On the other hand: mandating it could be a waste of bandwidth, because the profile will contain a lot of static information. Most delegates see the need to make the Terminal Capability Negotiation functionality mandatory for both MMS User Agent and MMS Relay/Server. Nokia does not agree, because this functionality will primarily be used for content adaptation which is an optional feature according to MMS Stage 1.

Conclusion:

Rejected.

Tdoc	Title	Source	Comment
T2-011043	Editorial clarification of the reply-charging service behaviour description	Siemens	CR to Rel-5 of category D

Andreas (Siemens) presents the document.

Discussion: -

Conclusion: -

Approved.

Tdoc	Title	Source	Comment
T2-011011	Header mapping	Ericsson	CR to Rel-5 of category B

Eskil (Ericsson) presents the document.

Discussion:

Some information given in the tables would better fit in the WAP specifications. Delegates question if the given values are abstract enough. Eskil will prepare a new CR on this issue

Conclusion: Eskil volunteers to prepare a new CR on this issue.

Rejected.

Tdoc	Title	Source	Comment
T2-011114	LS to SA4 on MMS presentation format	Openwave	LS to SA1 and SA4

Vasilis (Openwave) presents the document.

Discussion:

Conclusion: Rami volunteers to provide a revised version in T2-011214.

Rejected.

Tdoc	Title	Source	Comment
T2-011212	Routing of MMS traffic via MM4	Nokia	LS to IREG, cc: SERG, SA1 and SA2

Ville (Nokia) presents the document.

Discussion:

Conclusion: Josef (SWG3 chair) proposes to continue the discussion via e-mail. Ville volunteers to take care of the debate.

Rejected.

Tdoc	Title	Source	Comment
T2-011213	MMS standardized presentation Language	BT	CR to Rel-5 of category B

Kevin (BT) presents the document.

Discussion:

Conclusion: Kevin says he had enough feedback to prepare a revision of this document.

Rejected.

Tdoc	Title	Source	Comment
T2-011236	Reply-LS on VASP MMS connectivity	CN5	Incoming LS from CN5

Josef (SWG3 chair) presents the document.

Discussion:

Conclusion: any action is postponed to Rel-6.

Noted.

Tdoc	Title	Source	Comment
T2-011214	MMS Standardized Sequencing and Synchronization Language	Comverse	LS to SA1 and SA4

Rami (Comverse) presents the document.

Discussion:

Delegates are proposing several changes. No consensus could be reached.

Conclusion:

Rejected. Action item to Miraj.

Tdoc	Title	Source	Comment
T2-011020	CR 23.140 Rel-5: Reference to CN3 specifications on RADIUS	Nokia	LS to SA1 and SA4

Discussion:**Conclusion:**

Approved.

media presentation:

TDoc	Title	Source	Comment
T2-011034	CR 23.140 Rel-5: SMIL	Telia	noted
T2-011075	Short SMIL Basic Introduction	Telia	noted
T2-011079	xHTML in MMS	Openwave	noted

Discussion:

These documents was not dealt with since SA4 was seen to be the more appropriate group to deal with presentation description for MMS. It was agreed to send an LS along these lines to SA4.

Conclusion:

All noted.

Security enhancements:

Tdoc	Title	Source	Comment
T2-011047	MMS Security services using USIM and S/MIME (doc file)	GEMPLUS	noted
T2-011048	MMS Security services using USIM and S/MIME (ppt file)	GEMPLUS	noted

Discussion:

These documents was not dealt with. According to the agreed upon priority list of work for REL-5 all discussions on security enhancements were postponed to REL-6.

Conclusion:

All noted.

Annex A – Complete Document List

Colour coding:

PROCESSED COMPLETELY (e.g. approved) - OUTPUT TO T2

PROCESSED COMPLETELY (e.g. noted/approved) – NO OUTPUT TO T2

PENDING / ACTION

ACTIVELY POSTPONED AFTER DISCUSSION

NOT DISCUSSED YET

ALL-SWG3 documents

TDoc	Title	Source	Comment
T2-011000	draft agenda SWG3 at T2#15	SWG3 chair	Noted
T2-011001	report of SWG3 at T2#15	SWG3 chair	This document
T2-011078	Discussion on MIME type registrations	Alcatel	Noted
T2-011101	approved agenda SWG3 at T2#15	SWG3 chair	approved

CBS documents

Tdoc	Title	Source	Comment
T2-011024	CR 23.041: Clarification on the use of Message IDs in multi-technology networks	Siemens	Agreed
T2-011090	request for clarification about WDP over CBS	CMG/Swapcom	Noted
T2-011092	CR 23.038: User Data Header support over CB	Magic4	Revised as T2-011166

	over CB		
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EMS documents

Tdoc	Title	Source	Comment
T2-011004	CR 23.040 Rel-5: Editorial changes of Data Format Delivery Request	Siemens	Agreed
T2-011021	CR 23.040 Rel-5: polyphony in EMS	Digiplug	Noted
T2-011022	Input statement on polyphony in EMS	Digiplug	Revised as T2-011153
T2-011025	CR 23.040 R99: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred
T2-011026	CR 23.040 Rel-4: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred
T2-011027	CR 23.040 Rel-5: Editorial Correction section 9.2.3.6	NTT DoCoMo	Deferred
T2-011035	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	Revised as T2-011151
T2-011038	CR 23.040 Rel-5: Standard Midi File Format (Polyphonic Sound) for EMS	Ericsson	Noted
T2-011039	Standard Midi File Format for EMS – Supporting Information	Ericsson	Noted
T2-011045	A compression method for SVG content	Ericson, Nokia, Siemens, ZOOMON	Noted
T2-011046	CR 23.040 Rel-5: Vector Graphics Format for EMS	Ericson, Nokia, Siemens, ZOOMON	Noted
T2-011060	CR 23.040 Rel-5: Line Drawing Object in EMS	Bijitec	Updated in T2-011152
T2-011061	Line Drawing Messaging Overview	Bijitec	Noted
T2-011062	Line Drawing Data Size Report	Bijitec	Noted
T2-011064	CR 23.040 Data Format Delivery Request Cmd	Motorola	Revised as T2-011155
T2-011065	CR 23.040 EO Positioning	Motorola	Revised as T2-011158
T2-011066	CR 23.040 Object Distribution Clarification	Motorola	Rejected

T2-011067	CR 23.040 Service Shortcodes	Motorola	Noted
T2-011068	CR 23.040 IEI Classification	Motorola	Agreed
T2-011069	CR 23.040 EMS Polyphonic MIDI	Motorola	Noted
T2-011070	EMS MIDI	Motorola	Noted
T2-011071	CR 23.040 iSketch in EMS	Motorola	Noted
T2-011072	Isketch overview	Motorola	Noted
T2-011073	CR 23.040 Rel-5: Subaddressing	Swapcom	Noted
T2-011074	CR 23.040 Rel-5: Alternate Return address	Swapcom	Noted
T2-011076	CR 23.040 Rel-5: Support of polyphonic melodies in EMS	Alcatel	Noted
T2-011077	Discussion on the support of polyphonic melodies in EMS	Alcatel	Noted
T2-011089	Compression vectors	Magic4	Noted
T2-011091	Recommendations regarding polyphonic format for EMS R5	France Telecom	Noted
T2-011093	Input Statement from Bijitec	Bijitec	Noted
T2-011094	Discussions on Polyphony	Digiplug	Noted
T2-011108	Deletion of GSM 01.04 reference	MCC	Agreed
T2-011151	CR 23.040 Rel-5: Clarification of LZSS compression for "EXTENDED OBJECTS" in EMS	Magic4	Agreed
T2-011152	CR 23.040 Rel-5: Line Drawing Object in EMS	Bijitec	Noted
T2-011153	Input statement on polyphony in EMS	Digiplug	Noted
T2-011154	<i>CR23.040 Correction on SMS Information Element Data Length</i>	Alcatel	Template for change revised in T2-011160 to T2-011164
T2-011155	CR 23.040 Extended Object Data Request Command	Motorola	Deferred to an e-mail discussion
T2-011156	CR 23.040 Extended Object Data Request Command	Motorola	Deferred to an e-mail discussion
T2-011157	Vector Graphics Data Format Comparison (isketch)	Motorola	Noted
T2-011158	CR 23.040 EO Positioning	Motorola	Agreed
T2-011159	Common agreement on the support of Polyphony in EMS	Alcatel, Ericsson, Motorola,	Agreed

		Digiplug	
T2-011160	CR 23.040 R97 Correction on SMS Information Data Length	Alcatel	Agreed
T2-011161	CR 23.040 R98 Correction on SMS Information Data Length	Alcatel	Agreed
T2-011162	CR 23.040 R99 Correction on SMS Information Data Length	Alcatel	Agreed
T2-011163	CR 23.040 R4 Correction on SMS Information Data Length	Alcatel	Agreed
T2-011164	CR 23.040 R5 Correction on SMS Information Data Length	Alcatel	Agreed
T2-011165	Selection of Data Formats for Vector Graphics	TEMC ²	Agreed
T2-011166	Support of User data Header structure in CBS	CMG	Deferred
T2-011167	NOT ALLOCATED		
T2-011168	NOT ALLOCATED		
T2-011169	NOT ALLOCATED		

SWG3-MMS documents

TDoc	Title	Source	Comment
T2-010896	LS from SA3: "Initial comments on digital rights management "	S3-010532	Noted
T2-010909	LS from SA1 on DRM	SA1	Noted
T2-010913	LS from SA2 on E.164 addressing support for MMS	SA2	Noted
T2-010915	LS from N1 on IMS identifiers N1-011768	N1-011768	Noted
T2-010916	LS from BARG: Billing and network aspects concerning Multimedia Messagging Interworking	BARG	Noted
T2-010917	LS from WAP Forum on non-WAP 1.x MMS implementation	WAP MMDC	Noted
T2-010919	LS from WAP MMDC on MMDC's process and target for WAP MMS	WAP MMDC	Noted
T2-011005	LS reply to WAP WAG MMDC: Forwarding Issues	Logica	revised in T2-010117
T2-011006	CR 23.140 Rel-4: Forwarding Counter	Logica	revised in T2-011112
T2-011007	CR 23.140 Rel-5: Forwarding Counter	Logica	revised in T2-011113
T2-011008	CR 23.140 Rel-4: Forwarding Addresses-Date-Time	Logica	revised in T2-011109
T2-011009	CR 23.140 Rel-5: Forwarding Addresses-Date-Time	Logica	revised in T2-011110
T2-011010	CR 23.140: Clarification of request status codes over MM4	Ericsson	Rejected
T2-011011	CR 23.140: MM1-MM4 header mapping	Ericsson	Rejected
T2-011012	CR 23.140: ESMTTP message size declaration	Ericsson	Rejected
T2-011013	CR 23.140 Rel-5: MM4 bug fixes	Ericsson	Rejected
T2-011014	CR 23.140: MMS version end-to-end	Ericsson	Postponed
T2-011015	CR 23.140: Read status codes	Ericsson	revised in T2-011200 / T2-011201
T2-011016	CR 23.140: Improved Request Status Codes over MM4	Ericsson	Rejected

T2-011017	CR 23.140: Functionality Handling over MM4 and MM1	Ericsson	Rejected
T2-011018	CR 23.140: MM4 forward failure	Ericsson	Rejected
T2-011019	CR 23.140 Rel-4: Reference to CN3 specifications on RADIUS	Nokia	Approved
T2-011020	CR 23.140 Rel-5: Reference to CN3 specifications on RADIUS	Nokia	Approved
T2-011023	CR 23.140 Rel-4: MM4 bug fixes	Ericsson	Rejected
T2-011028	Duplicate Messages Originating from UA on the MM1 Interface	Logica	Postponed
T2-011029	CR 23.140 Rel-5: Submission Description Enhancement	Siemens	Postponed
T2-011030	Discussion points to MMS and USIM	Siemens	Noted
T2-011031	CR 23.140 Rel-5: Configuration of MMS-capable UE	Nokia	Rejected
T2-011032	Use cases for VAS	Telia	Noted
T2-011033	CR 23.140 Rel-5: MM7	Telia	Rejected
T2-011034	CR 23.140 Rel-5: SMIL	Telia	Noted
T2-011036	CR 23.140 Rel-4: Address hiding outside MMS	Ericsson	Rejected
T2-011037	CR 23.140 Rel-5: Address hiding outside MMS	Ericsson	Rejected
T2-011040	Distribution Lists on MM7	Logica	Noted
T2-011041	MM7 Issues	Logica	Noted
T2-011042	LS to WAP Forum MMDC on reply-charging (former T2M010188)	Siemens	revised in T2-011118
T2-011043	CR 23.140 Rel-5: Editorial clarification of the reply-charging service behaviour description (former T2M010136)	Siemens	Approved
T2-011044	withdrawn	withdrawn	Withdrawn
T2-011047	MMS Security services using USIM and S/MIME (doc file)	GEMPLUS	Noted
T2-011048	MMS Security services using USIM and S/MIME (ppt file)	GEMPLUS	Noted
T2-011049	Withdrawn	withdrawn	Withdrawn
T2-011050	3GPP MMS recipient address resolution	Openwave	Noted
T2-011051	CR 23.140 Rel-5 (Recipient MSISDN address resolution)	Openwave	Noted

T2-011052	3GPP MMS based on existing IETF messaging protocols	Openwave	Noted
T2-011053	CR 23.140 (MM1 Technical realization based on existing IETF Messaging Protocols)	Openwave	Noted
T2-011054	Multimedia Messaging Service	Openwave, BT, AWS, NTT DoCoMo, KPN, Hutchison3G, France Telecom, Comverse	Noted
T2-011055	Release 5 MMS Implementation	BT	Noted
T2-011056	withdrawn	withdrawn	Withdrawn
T2-011057	Priority of SWG3 MMS work until T2#16, February 2002	Siemens	revised in T2-011097
T2-011058	Status of MMS action items	Siemens	Noted
T2-011059	CR 23140-500 terminal capability negotiation - revised T2M010169	Siemens	Rejected
T2-011063	CR 23.140 Rel-4: Correction of the Forwarding Feature	Siemens	revised in T2-011109
T2-011075	Short SMIL Basic Introduction	Telia	Noted
T2-011079	xHTML in MMS	Openwave	Noted
T2-011080	MM1 Qualified Retrievals	Openwave	Noted
T2-011081	withdrawn	withdrawn	Withdrawn
T2-011082	withdrawn	withdrawn	Withdrawn
T2-011083	HTTP based Solution for MM1	Comverse, SchlumbergerSema	Noted
T2-011084	CR 23.140 Rel-5: Technical Realisation of MM1 Interface based on tunnelled SMTP and IMAP protocols	SchlumbergerSema, Comverse	Noted
T2-011085	withdrawn	withdrawn	Withdrawn
T2-011086	withdrawn	withdrawn	Withdrawn
T2-011087	CR 23.140: MMS Abstract Messages	Comverse	revised in T2-011203
T2-011088	CR 23.140: Before a proper solution for addressing is available	KT ICOM	Rejected
T2-011095	MMS Charging specs	France Telecom	Noted
T2-011096	SWG3 chair proposal for motion of Vote on Non-WAP 1.x implementation of	SWG3 chair	Noted

	MM1 in MMS Rel-5		
T2-011097	Priority of SWG3 MMS work until T2#16, February 2002 - revised T2-011057	Siemens	Noted
T2-011098	withdrawn	withdrawn	Withdrawn
T2-011099	LS to SERG IREG EC SA2 on Address Resolution in MMS - Reply to SerG LS on E164 Address Scheme	Comverse	revised in T2-011150
T2-011100	withdrawn	withdrawn	Withdrawn
T2-011102	Alternative MM1 implementation for Release 5	SWG3 chair	Noted
T2-011103	CR 23140 changes on MM1 and MM4 abstract messages	Materna	Rejected
T2-011104	CR 23140 editorial changes	Materna	Postponed
T2-011105	user prompt	Ericsson	Postponed
T2-011106	MM3 principles document (T2M010130)	Comverse	Postponed
T2-011107	CR 23140 Streaming CR (T2M010132)	Comverse	Noted
T2-011109	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	Rejected
T2-011110	CR 23.140 REL-5 on forwarding feature	Siemens, Logica	Rejected
T2-011111	CR 23.140 REL-4 on indeterminate value	Ericsson	Approved
T2-011112	CR 23.140 Rel4: Forwarding Counter - revised T2-011006	Logica	Approved
T2-011113	CR 23.140 Rel5: Forwarding Counter - revised T2011007	Logica	Approved
T2-011114	LS to SA4 on MMS presentation format	Openwave	Rejected
T2-011115	CR 23.140v440 for removing inconsistency (T2M010194)	Nokia, Siemens	Approved
T2-011116	CR 23.140v500 for removing inconsistency (T2M010195)	Nokia, Siemens	Approved
T2-011117	LS reply to WAP WAG MMDC: Forwarding Issues	Logica	Approved
T2-011118	LS to WAP Forum MMDC on reply-charging (former T2M010188)	Siemens	Approved
T2-011119	CR 23.140 REL-5 on indeterminate value	Ericsson	Approved
T2-011120	CR 23140 REL-4 corrections on MM1 and MM4 abstract messages	Materna	Approved

T2-011121	CR 23140 REL-5 corrections on MM1 and MM4 abstract messages	Materna	revised in T2-011127
T2-011122	LS to CN4 cc SA2 on MSISDN address resolution for MMS using MAP operations	CMG	Approved
T2-011123	withdrawn	withdrawn	Withdrawn
T2-011124	withdrawn	withdrawn	withdrawn
T2-011125	MSIG Members Statement to 3GPP T2 regarding the MMS standardisation of Addressing	KPN, Intel, Cegetel, T-Mobile, France Telecom, Openwave Systems, Hutchinson 3G	Noted
T2-011126	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	Rejected
T2-011127	CR 23140 REL-5 corrections on MM1 and MM4 abstract messages	Materna	Approved
T2-011128	CR 23.140 REL-4 on forwarding feature	Siemens, Logica	revised T2-011126 to be created via email
T2-011129	CR 23.140 REL-5 on forwarding feature	Siemens, Logica	to be created via email
T2-011150	LS to SERG IREG EC SA2 on Address Resolution in MMS - Reply to SerG LS on E164 Address Scheme	Comverse	Approved
T2-011200	CR 23.140: Read status codes	Ericsson	Approved
T2-011201	CR 23.140: Read status codes	Ericsson	Approved
T2-011202	MM4 routing	Nokia	Noted
T2-011203	CR 23.140 REL-5 MM7 abstract messages - revised T2-011087	Comverse, Materna, Logica	Rejected
T2-011204	withdrawn	withdrawn	withdrawn
T2-011205	Statement the MMS standardisation on MM1 protocol	KPN, Intel, Openwave Systems	Noted
T2-011206	MMS REL-5 work plan	SWG3 chair	Noted
T2-011207	Priority list of SWG3 MMS REL-5 work	SWG3 chair	Noted
T2-011208	suggested compromise on non-WAP 1.x MM1	SWG3 chair	Noted
T2-011209	2nd suggested compromise on non-WAP 1.x MM1	SWG3 chair	Noted

T2-011210	Storage of MMS parameters on the USIM	T3 secretary	Noted
T2-011211	CR 23.140 Rel-5: Configuration of MMS-capable UE	Nokia	Approved
T2-011212	LS to IREG cc SERG, SA1, SA2 on MM4 routing	Nokia	rejected
T2-011213	CR 23140 REL-5 MMS standardised presentation language	MMO2	rejected
T2-011214	LS to SA1 and SA4 on MMS media sequencing, synchronisation and presentation	Comverse	Rejected
T2-011215	unused	unused	Unused
T2-011216	unused	unused	Unused
T2-011217	unused	unused	Unused
T2-011218	unused	unused	Unused
T2-011219	unused	unused	Unused
T2-011220	unused	unused	Unused
T2-011221	unused	unused	Unused
T2-011222	unused	unused	Unused
T2-011223	unused	unused	Unused
T2-011224	unused	unused	Unused
T2-011225	unused	unused	Unused
T2-011226	unused	unused	Unused
T2-011227	unused	unused	Unused
T2-011228	unused	unused	Unused
T2-011229	unused	unused	Unused
T2-011237	LS from GSMA MSIG regarding the MMS standardisation of MM1 Release 5	CN5	Noted
T2-011236	LS from CN5 on OSA support for VASP MMS	CN5	Noted

Annex B - Participants List

Annex B.1 - Participants List at SWG3-EMS/CBS/SMS sessions

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Annex G: Report from SA1/T2 SWG2 meeting in UE split *T2-011172*

Source: SWG2 Chair

ES Executive Summary

General:

Review of Progress on Action Items

Work Item 2563: UE Split –

The meeting reviewed the UE Functional Split Requirements Document under development in SA1, which was presented in T2-010911. The meeting discussed the document and prepared and approved an output document with proposed changes, which is to be sent back to SA1.

The Meeting also prepared and approved an LS to the TSGs proposing that the issue of IMS functionality being split across UE components be debated and resolved.

Future Meetings:

Meeting	Date	Venue	Comment
Joint Ad Hoc	Sunday January 13, 2002	S1 ad hocs/Phoenix	Tentative on host accommodations

Output Change Requests:

TDoc	Title	Source	Comment

Output Liaison Statements:

TDoc	Title	Source	Comment
T2-011170	LS on UE Functionality Split Relating to the IMS	UE Split Ad Hoc	
T2-011171	Revised T2-010911	UE Split Ad Hoc	

Other Items Executive Summary from UE Split Ad Hoc meeting :

ES Detailed Report

1. Opening of the meeting

The Chair of SWG2, Mr. Prem Sood, Sharp, opened the meeting at 8:34am on Tuesday November 27. Mr. Nicholas Alfano, Sierra Wireless volunteered to act as meeting secretary. Circulation of attendance roster. Agenda item 3.1 of SWG2 Agenda contained in T2-010960 and listed document numbers will be reviewed at this meeting.

The Chair has spoken with the SA2 chair he will announce this joint meeting at 9am this morning. Therefore tdoc T2-010911 will be deferred until after 9am.

8:50am introductions of attendees with good representation from S1, S2, and T2.

1.1. Approval of the proposed Agenda

Document – T2-010960

TDoc No.	Title	Source	Status
T2-010960	SWG2 draft meeting agenda item 3.1	SWG2 Chair	Approved

Presented by – Chairman

Chair Mr. Prem Sood.

Discussion –

Resolution –

T2-010960 Agenda for SWG2 item 3.1 UE Split is approved.

1.2. Joint Meetings Schedule

Approved joint meetings and times with S1/S2/T2.

1.3. Review of previous Action Points

2 Items for immediate discussion.

3.1 UE Functionality Split

Tdocs 897, 911, 912, 966, 982, 983, 987

Document – T2-010897

TDoc No.	Title	Source	Status
T2-010897	LS from SA3: "re: Cell ID in SIP messages"	S3-010526	Noted and ac

Presented by – .

8:40am began presentation of this tdoc. Presented by K. Holley.

By 10am there are 22 people attending the meeting.

Discussion –

The transmission of Cell ID may have some privacy implications for the user, but the LS states that it is fine for SIP to transmit Cell ID.

Resolution –

LS is noted and agreed.

TDoc No.	Title	Source	Status
T2-010911	Liaison Statement on UE functionality split	SA1	Revised as T. 011171

Presented by –

November 27, 2001

Presented by Alan Chau, Nokia. Document to be submitted to TSG SA Kyoto meeting for information.

Discussion –

November 27, 2001

Review of the changes is suggested, rather than a full presentation of the complete document.

The change made by SA1 in section 6.1 bullet 6) suggests AT commands as they exist today are the only functionality to operate between the TE and MT. Change agreed, with wording change to remove the word “today” from the sentence. A new revised document of T2-010911 from this joint meeting will be created and submitted to SA1 for review. The new revised document out of this meeting will be T2-011171 .

Clarification of section 6.1 bullet 7 is given where the functionality for Release 5 is the current set of AT-Commands.

The figure showing the TE and ME as a laptop and PC-Card is a temporary inclusion in the TR to be moved to a stage 2 document in the future.

The remaining parts of the document appear to be consistent with the changes made in section 6.1.

Nortel raises the issue that the change in section 6.1 bullet 7 implies a SIP Client in release 5 cannot be present in the TE. This change was made by SA1 because several operators view the TE may not be secure due to the public nature of host platforms the TEs may reside on such as laptop/PDAs. Therefore all signaling software must be restricted to the MT to ensure (as best as possible) that no tampering of the software is possible.

Nortel highlights the current requirements of UE Split limit the architecture of mobile devices to that of GSM and does not allow for future integration of host devices and functionalities with bearer services.

Ericsson highlights the issue of security in the UE (TE/MT) and the time constraints to complete work addressing this problem by Release 5.

NTT DoCoMo suggest 3GPP specifications must focus on security issues of the MT and leave the TE for industry developments. The guards for security are applied to the MT and the TE is open to industry evolution.

Nortel states that SIP Clients in the TE must be protected to ensure that a tampered SIP Client would not work with IMS infrastructure.

Sierra Wireless suggests that although the issues of security and others associated with changing the UE architecture are complex, the general feel of members is although no one wants to restrict the architecture of a UE going forward, the real issue is the deadline for Release 5. It is felt there is not enough time to address all the issues. Therefore a compromise for what is defined for UE Split for Release 5 must be reached.

BT suggest changes made in this meeting to the TR can be recorded and submitted to TSG S1.

Modify bullet 7 of section 6.1 to read, "... MT by the TE in Release 5."

NT suggests, limiting the UE architecture to the existing architecture assumes it is not possible to resolve the issues by the conclusion of R5, where in fact this will not be known until the deadline for Release 5 has arrived. Therefore allowing the possibility for R5 to include a SIP Client in the TE should be allowed at this point in time. View from others is the content of Release 5 requirements must be reflected in other specifications and therefore open ended or "for further study" requirements are not appropriate in this document.

Editorial discussion on marking up the T2-010911 (revised to T2-011171) with changes made at this meeting to be submitted to S1.

A new bullet 8 in section 6.1 is suggested by Sierra Wireless to include the issue of a SIP Client in the TE. The suggestion is not well supported, but some mechanism is needed to get the issue raised in SA. A LS will be drafted to capture the SIP Client in the TE issue and no reference to this issue will be made in the T2-010911 Revised document. (Thanks to Kevin Holley for real-time drafting of the LS.)

Changes suggested by Ericsson are made to the diagram showing the TE as a computer and the ME as a PC-Card. The changes are withdrawn but it is noted the terminology used in the diagram may not be correct, in particular the ME should be MT.

Review of section 6.2, wording changes suggested by BT "... the responsibility for integrity..." is included in the Note of the Revised document.

Section 6.3 changes to bullet a) are suggested by Ericsson and Phillips. After some word smithing and input from other companies the final change reads; "The UICC where the USIM/SIM application resides, shall be contained in the same physical module as the MT."

Ericsson requests clarifications for section 6.1 bullet 4. A generic API for operating between the MT/TE is seen as required. A change to point 4 suggests to remove the phrase, "way of describing an", also to change the phrase, "must be provided" to "shall be considered".

Coffee break at 10:40, reconvene at 11:10am

Kevin Holley has draft a LS to SA1 on the issue of SIP Client Signalling in the TE. Draft LS is contained in T2-011170.

Resume review of T2-010911

Changes to section 6.3 shows removal of a number of topics for further study and this raises issues with Nortel and Sierra Wireless on where are these issues normally documented. BT suggests that subsequent release of this document i.e. Release 6, can contain these topics which are seen as for further study at this point in time and for Release 5. Nortel comments that many of the issues removed on IMS client are the issues which they have submitted contributions on for discussion in this meeting. Those contribution will be discussed, but the requirements from SA1 are applicable to Release 5. T2 is to work on addressing the mechanisms to implement the requirements, companies not in agreement with the requirements must submit their concerns to SA1.

Review of changes to 6.3.1, 6.3.2 and section 7.

Comment from Anritsu suggest a new bullet 10 be added to section 6.3.1 which reads, "MT shall continue to meet all Regulatory requirements." Discussion of the wording of this issue results in a final wording as, "Maintain compliance with all Conformance Testing requirements."

AT&T Wireless suggests adding a new bullet 11 on “Involvement in UE Capability negotiation. Exact MT-TE split FFS”. After some discussion the point is moved to section 6.3 point 2 and reads, “UE capability negotiation function will be split between the MT and TE. Exact MT-TE split is FFS.”

Nortel comment on 6.3.2 adds a new phrase “Future Release may consider...” . No conclusion.

Action point for Nortel and BT to create wording for FFS points to be included in this document.

Add phrase “where appropriate” to section 7 last sentence.

Nortel comments that last sentence of section 7 is a Stage 3 type of statement which is not appropriate for a requirements document.

Review of all changes made to the revised document T2-011171 is conducted. No final comments are made beyond those opinions already stated during the discussions.

Resolution –

November 27, 2001

The revised document will be submitted to SA1. The revised document number is T2-11171. Chairs asks group to allow him to create a coversheet for this document for submission to SA1.

TDoc No.	Title	Source	Status
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	

Presented by – .

Deferred

Discussion –

Resolution –

TDoc No.	Title	Source	Status
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	

Presented by – .

Deferred

Discussion –**Resolution –**

TDoc No.	Title	Source	Status
T2-010982	UICC in UE-Split and IMS	Nortel Networks	

Presented by – .

Deferred

Discussion –**Resolution –**

TDoc No.	Title	Source	Status
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	

Presented by – .

Deferred

Discussion –**Resolution –**

TDoc No.	Title	Source	Status
T2-010987	CR 27.901: Including UE Functional Split	BT	

Presented by – .

Deferred

Discussion –**Resolution –**

TDoc No.	Title	Source	Status
T2-011170	LS on UE Functionality Split Relating to the IMS	T2	Sent to CN, T

Presented by – .

Kevin Holley, BT.

Discussion –

Nortel raises the point that a SIP Client in the TE is one issue the other also includes the ability of the MT to police SIP signaling to guard against rogue implementation of SIP on the TE and the associated erroneous SIP signaling messages reaching the infrastructure. The whole IETF architecture is based on an untrusted SIP Client therefore the CSCF will be able to detect and handle erroneous SIP signaling from a client.

BT states that 3GPP has not agreed necessarily to use the IETF model for SIP signaling.

NT points out T2-010911 suggests the SIP signaling cannot pass transparently through an MT. But it also goes further to say that a SIP Client cannot operate on a TE which is beyond that of the first statement, where a policing agent in an MT would satisfy the first statement and allow a SIP Client on a TE. BT and NT disagree on this topic. After further offline discussion BT and NT agree to a change in the 911 that would allow a compromise. A modification to the LS includes the ability of the network to detect rogue signaling coming from a compromised TE.

Resolution –

Wording of document is agreed and will be submitted for approval by T2 at the closing plenary.

6. Approval of Output Documents for T2 Approval.

Document – T2-011172

TDoc No.	Title	Source	Status
T2-011172	Meeting Report for Joint S1/S2/T2 UE Split	UE Split Ad Hoc	

Presented by – .

Discussion –

Resolution –

7. Deferred Items

Due to a long discussion on T2-010911 most other documents for discussion at this meeting were not discussed due to time constraints. These remaining documents will be presented in the SWG2 meeting later this week.

Tdocs deferred from this meeting are;

TDoc No.	Title	Source	Status
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	Deferred
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	Deferred
T2-010982	UICC in UE-Split and IMS	Nortel Networks	Deferred
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	Deferred
T2-010987	CR 27.901: Including UE Functional Split	BT	Deferred

8. Any Other Business

9. Future Meetings, Time Requirements

An ad hoc meeting is proposed for Sunday January 13 in Phoenix to coincide with the S1 ad hoc meetings that week. The meeting confirmation is subject to the host being able to accommodate.

10 Close of the Meeting

The meeting was closed at 12:45pm Tuesday November 27, 2001

Annex A List of all temporary documents

TDOC	Subject	Source	Status
T2-010897	LS from SA3: "re: Cell ID in SIP messages"	S3-010526	Noted and agreed
T2-010911	Liaison Statement on UE functionality split	SA1	Revised as T2-011171
T2-010912	LS from SA2 on IMS identifiers and ISIM and USIM	S2-013067	Deferred
T2-010966	TE/ME Abstract Service Interface	Sierra Wireless	Deferred
T2-010982	UICC in UE-Split and IMS	Nortel Networks	Deferred
T2-010983	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	Deferred
T2-010987	CR 27.901: Including UE Functional Split	BT	Deferred
T2-011170	LS on UE Functionality Split Relating to the IMS	UE Split Ad Hoc	
T2-011171	Revised T2-010911	UE Split Ad Hoc	
T2-011172	Meeting Report for Joint S1/S2/T2 UE Split	UE Split Ad Hoc	

Annex B List of Participants

DELEGATE	ORGANIZATION	E-MAIL
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Annex H Report from SA5/T2 SWG1 SWG2 meeting on UEM

T2-011239

Source: UEM Rapporteur

Work Item ID: UEM

Doc Summary: This is the UEM Rapporteur report for the joint T2 and SA5 SWG-A meeting on User Equipment Management (UEM) on 27 Nov. 2001 at Cancun, Mexico meetings of SA5 #24.

Specs involved: TR 32.802

Joint meeting on User Equipment Management (UEM) between T2 and SA5 SWG-A

?? Summary of the meeting

- The joint meeting on UEM between SA5 SWG-A and T2 took place on 27/11/01 14:00-18:00.
- Annex A lists the documents associated with the meeting. Annex B contains the agenda for the joint meeting. The directory of files for the meeting prepared by MCC will contain the list of attendees.
- The UEM Rapporteur presented the TR 32.802 document together with the draft UEM Roles. There was some discussion on the slides. Albert Yuhan emphasised that TR 32.802 is a feasibility study and has no impact on the Release 5 specifications. TR 32.802 is scheduled to be submitted to TSG T #14 and TSG SA #14 (12/01) for information. The TR is scheduled to be submitted for approval to TSG#15 (03/02). The attendees made a number of useful comments

on the presentation, for example that the UE Software Update capability was technically very difficult to implement and so a phased approach should be used for UEM.

- Riku Mettala (Nokia) presented the “SyncML Device Management (DM) Overview” (S5A010714). This update on the SyncML Device Management activities was useful; SyncML seems to be an applicable technology for UEM. [For information the SyncML presentations that were presented to SA5 in May 2001 are S5A010112-DevMan Overview.zip & S5A010113-DevMan Tech Overview.zip].
- Document TR 32.802 was reviewed in the meeting. The meeting attendees made many useful comments and a number of changes to the TR were agreed. A conclusion section will be added to the document which indicates that UEM capabilities vary greatly in how easy it will be to implement them. The Remote UE Diagnostics capability could be achieved utilising a diagnostic application built in to the UE; this will be added to the document. A number of references will be inserted in the document including GUP and MExE.
- The meeting agreed that the TR will be updated with the comments agreed during the joint meeting and the updated TR will be sent to T2, TSG-T and TSG-SA for information.
- Gunilla Bratt (Ericsson) presented the “3GPP Generic User Profile Work Status” (S5A010715). The GUP work is very applicable to UEM.
- Following the joint meeting the UEM feasibility study has been updated to reflect the comments made during the meeting (Tdoc. S5A010716, TR 32.802 V0.0.6) SWG-A has drafted a liaison to T2 containing the updated feasibility study (TR 32.802 V0.0.6) and requests that T2 feedback comments on the feasibility study.

?? **Actions:**

- It is requested that T2 review TR 32.802 V0.0.6 and feedback comments to SA5 SWG-A. A liaison statement from SA5 SWG_A to T2 requesting this is in document S5-010722.

?? **Problems/Issues:**

- None

Annex A

	UEM Documents	
S5A010711	User Equipment (UE) Management Feasibility Study	John Mudge (Vodafone Group)
S5A010713	User Equipment Management Presentation for T2 SA5 SWG-A joint meeting	SA5 SWG-A
S5A010714	SyncML Device Management (DM) Overview	Riku Mettala (Nokia)
S5A010715	3GPP Generic User Profile Work Status	Gunilla Bratt (Ericsson)
S5A010716	User Equipment Management (UEM) Feasibility Study	John Mudge (Vodafone Group)
S5A010717	Report for joint T2 and SA5 SWG-A meeting on User Equipment Management (UEM)	John Mudge (Vodafone Group)

Annex B

- 1) Introductions
 - 2) UEM Role Model
 - 3) Presentation of TR 32.802 document
 - 4) SyncML Presentation
 - 5) Review of TR 32.802
 - 6) UEM Platforms and Technology
 - 7) Agree what to submit to TSG SA
 - 8) Agree how to progress the UEM work
-

Annex C

Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
32.802 (TR)	UEM Feasibility Study	SA5	T2	TSG#14 (12/01)	TSG#15 (03/02)	Release 5
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
32.101				TSG#15 (03/02)	If applicable	
32.102				TSG#15 (03/02)	If applicable	

Annex I Report from SA5/T2 SWG3 meeting on MMS charging

Source: France Telecom

Executive Summary:

A SA5/T2 SWG3 joint meeting on MMS charging was held on Tuesday, November, 27th (6-8.30pm). This JM was suggested by T2 and was acknowledged by SA5.

The purpose was to review the two R4 charging specifications related to MMS (TS 32.200 and 32.235), to address technical questions included in a received T2 LS (T2-010903) and to clarify any open issues in SA5's understanding of the MMS specifications.

The JM was chaired by SA5 convenor : Alain Bibas (France Telecom).

T2 recognized the hard work done by SA5 for specifying MMS charging for R5.

During this meeting, a number of issues were raised and may lead to actions from T2 :

- ?? To seriously review the two updated MMS charging specifications (to be created by SA5) and to provide comments to SA5 if needed.
- ?? To discuss internally (during next MMS meetings) the possibility to co-operate with GSMA BARG for the definition of charging scenarios.
- ?? To discuss the addition of a reference point in 23.140 spec to identify the interface between MMS Relay/Server and the Billing System.
- ?? provide SA5 with a correct definition of media element in one message (e.g. a MM may contain one JPEG, one EMS comprising sub-media element). T2 should moreover identify how many levels of media elements can be contained in a MM. The purpose is to be able to charge according to the size of the each multimedia element in one MM.

On the other hand, SA5 clarified that till this time, prepaid charging is not in their scope for R5 and that they have no expertise for prepaid architecture. SA5 recommended T2 to contact CN2 (responsible for CAMEL) for the definition of a MMS prepaid architecture. Discussions are needed in T2 to find the way to proceed with prepaid.

Actions for SA5 :

- ?? Create two CRs against 32.200 specification and 32.235 specification to reflect the different comments made during this joint meeting. These CRs will be created by next SA5 meeting.

Future Meetings:

No other joint meeting scheduled for the moment.

Output Change Requests:

Two CRs are expected to be created by SA5, based on the T2 comments : one against 32.200 spec, the other one against 32.235 spec.

Output Liaison Statements:

None

Detailed Report from SA5/T2 SWG3 Joint meeting :

Tdoc	Title	Source	Comment
T2-010881	Agenda for the joint T2 / SA5 meeting on MMS charging	France Telecom	

Conclusion : the agenda of the meeting was agreed as follows :

- ?? Technical review of SA5 R4 TS 32.200 and 32.235
- ?? Discussions on LS from T2 to SA5 on MMS charging requirements

TDoc	Title	Source	Comment
T2-011095	MMS Charging specs	FranceTelecom	

Discussion:

1. The chairman made a presentation of **TS 32.200** : this specification deals with the charging principles for CS/PS domains and application services (such as MMS). Three points are related to MMS in this spec and were therefore discussed :

?? **Charging architecture figure** : in this figure, the MMS Relay/Server is part of the Service Domain. So far, two interfaces have been identified for MMS Relay : one with the Billing System and the other one with PS domain. OpenWave raised the issue that MMS Relay/Server should also be interfaced with the CS domain. However, the CS Network Element involved in this interface was not clearly identified. Thus, **T2 should investigate that point so that SA5 could provide the appropriate figure**. Comverse suggested to add a reference point in 23.140 spec to identify the interface between MMS Relay/Server and the Billing System. This proposal was not commented.

?? **Charging information** (described in section 7.1) : this is related to the general usage information that should be collected by MMS Relay/Server to create CDR.

- i. For clarification, **SA5 proposed that the term “usage of radio interface” is changed to “usage of MMS resources”** that refers to the data volume exchanged for the transfer of MMs.
- ii. Usage duration is defined in the spec “as either (1) the time interval from the beginning of storage of the message until forwarding to another MMS R/S or as (2) the time interval from the beginning of storage until reception of the MM by an MMS User Agent”. **CMG suggested to rename usage duration to storage duration, that is more suitable. This was approved by SA5.**

?? **Charging scenarios** : the purpose of this section is to illustrate the different types of CDRs that are likely to be generated for the transfer of an MM. At the moment, only one scenario (MM submission and retrieval with delivery report and read reply report) is provided. OpenWave pointed out that the definition of duration of storage was not correct : it should not be defined as “Time between MM1_submit.RES and MM4_forwarding.RES” since MM4_forwarding.RES is an optional abstract message. Therefore, OpenWave proposed either to remove the duration of storage parameter or to change its definition to “Time between MM1_submit.RES and MM4_forwarding.REQ”. The second solution was preferred by SA5 because operators may need to charge for the storage resource usage.

On the other hand, it was raised that GSMA BARG group envisaged to define charging scenarios for MMS, based on CDRs standardized by SA5. From SA5 perspective, it was assumed that it is not their responsibility to define these scenarios. **T2 needs to discuss internally the possibility to co-operate with GSMA BARG on this issue**. Nokia wondered whether T2 expertise would not be required anyway as charging scenarios drafted by GSMA may not technically feasible.

2. The chairman next made a presentation of **TS 32.235** : this document specifies MMS CDR description and format as well as the CDR transfer. The chairman indicated the parameters present in the CDR were mapped from the annex C of R4 23.140.

?? **Field categorization** : Nokia pointed out that some of these fields may be better categorized as optional. SA5 clarified that some of these fields were categorized as “Operator Provisionable

Mandatory” that means, if provisioned by the operator to be present, shall always be included in the CDR. However, this categorization does not allow flexibility for the manufacturer that are obliged to implement all of the fields listed in the CDR. Operators can then choose to turn on/off these parameters. *SA5 responds that this is a general classification applicable to the whole charging area and shall therefore be maintained.*

- ?? **Access Correlation** : The chairman clarified that access correlation refers to a unique identifier provided by the used access domain that is :
- i. CS domain : (MSC Identifier, call reference Number)
 - ii. PS domain : (GGSN address, charging ID)

How the MMS Relay/Server retrieves access correlation for CS domain needs to be investigated by SA5.

For the PS domain, it is clear for SA5 that a standardized method for Charging ID and GGSN IP address delivery already exists.

- ?? **ASN 1** : OpenWave wondered if it was possible to extend ASN1 codes to further media/formats (other than the ones currently listed). SA5 considered that, for the time being, the enumerated format is appropriate as it is extendable.

On the other hand, CMG asked whether the use of ASN1 was mandatory or not for CDR generation. SA5 clarified that, at the moment, ASN1 is the most commonly used format for the CDR format.

TDoc	Title	Source	Comment
T2-010903	LS to SA5 cc GSMA BARG on MMS charging requirements	T2 SWG3	

Discussion:

During MMS Ad Hoc #8 in Dortmund, T2 SWG3 briefly reviewed SA5 MMS specifications and identified a number of issues to address to SA5. These issues were included in a LS sent to SA5. The content of this LS was discussed during this joint meeting. Below are the questions of the LS and the answer provided during this meeting :

1. Question 1 : In TS 32.235 both Service records for originating MMS (MMSO-CDR) and recipient MMS (MMSR-CDR) (chapter 4.1 and 4.2) seems to be based on TS 23.140 Annex C. This annex is only informative and a “wish list” of possible field types needed for MMS CDRs. However recently we have noticed that all fields are not necessarily relevant when MMS is charged and CDRs are created.

Such fields are e.g.:

- ?? Access correlation
- ?? Forwarded Message Indicator
- ?? Time of expiry
- ?? Earliest time of delivery
- ?? Duration of transmission

- ?? Duration of storage
- ?? Delivery type
- ?? Delivery Result
- ?? Status code
- ?? Time of expiry

Some of these fields may be included in the MMS CDR as optional fields. The final decision might also affect TS 23.235 chapter 5 “Parameter Description”. T2 SWG3 and SA5 should have a joint meeting

to discuss about the above-mentioned fields together and produce CR to 32.235.

⌘ **Already addressed previously (see “field categorization”)**

2. Question 2 : Chapter 5.2 Charge information section list only one charge type (Reply – a definition) is mentioned. However in ASN.1 description there are listed several more. Currently TS 23.140 does not define reverse and third-party-financed charging models. T2 SWG3 is not planning to define these functionalities for Release 4 nor Release 5.

⌘ **SA5 will remove any mention of reverse and third-party-financed charging model in 32.235 spec**

3. Question 3 : Chapter 5.3 Content Type is copied directly from TS 23.140 chapter 5.1.2. However after your TS 32.235 was approved there have been approved significant changes in TS 23.140 chapter 5.1.2. T2 SWG3 proposes that in TS 32.235, only a reference to TS 23.140 with some clarification text is included.

Also in ASN.1 description there are different file formats specified. However MMS specifications allows also other types of formats to be transferred using MMS as a bearer.

⌘ **SA5 will replace the content type description by a reference to TS 23.140 to ensure consistency.**

4. Question 4 : T2 SWG3 seeks guidance on e.g. how the globally unique message ID should be defined (section 5.10). Are billing systems capable of handling only numeric message IDs or both numeric and alphabetic characters? T2 SWG3 recognizes the need on globally unique message ID especially in case of inter-MMS traffic.

⌘ **SA5 stated that billing systems are generally capable of handling both numeric and alphabetic characters. However, this capability is operator dependent.**

5. Question 5 : Should message size (section 5.12) be defined in octets or bits? It should be possible to define message size also per message element.

✍ **In general, in the CS and PS domains, the data volume is measured in octets. There is no reason using bit.**

SA5 agreed with T2 proposal to define message size per element. However, SA5 requested T2 to provide a correct definition of media element in one message (e.g. a MM may contain one JPEG, one EMS comprising sub-media element).

T2 should therefore identify how many levels of media elements can be contained in a MM.

6. Question 6 : In TS 32.200 figure 3 the interface Gi between GGSN and Service domain / MMS Relay/ Server is pictured. MMS also works with the Circuit Switched domain. Should the interface between PSTN and Service domain / MMS Relay/ Server also be pictured? This may also affect the text below figure 3.

✍ **Already addressed previously (see “charging architecture figure”)**

7. Question 7 : In TS 32.200 chapter 7.1 the MMS charging principles are described. The changes proposed in previous bullet points may affect also chapter 7.1. Especially in chapter 7.1.1.1 there are several issues, which should be discussed carefully between SA5 and T2 SWG3. Such an issues are e.g. usage of the radio interface, usage duration, usage of the general Packet-Switched domain resources and the usage of the external data networks. T2 SWG3 needs at least some clarification of what SA5 means when defining those issues in TS 32.200.

✍ **Already addressed previously (see “charging information”)**

8. Question 8 : Has SA5 considered how the real-time prepaid should be supported in an MMS environment? Are there any existing mechanisms available? And if so, which should be used?

✍ **SA5 clarified that till this time, online/prepaid is not in the scope of SA5 for R5. On the one hand, SA5 has no expertise for prepaid architecture. On the other hand, T2 has not specified an online/prepaid interface on the MMS Relay/Server. SA5 recommends T2 to contact CN2 (responsible for CAMEL) for the definition of a MMS prepaid architecture.**

Annex A – Complete Document List

Colour coding:

PROCESSED COMPLETELY (e.g. approved) - OUTPUT TO T2

PROCESSED COMPLETELY (e.g. noted/approved) – NO OUTPUT TO T2

PENDING / ACTION

ACTIVELY POSTPONED AFTER DISCUSSION

NOT DISCUSSED YET

SA5/T2 SWG3 JM documents

TDoc	Title	Source	Comment
T2-010881	Agenda for the joint T2 / SA5 meeting on MMS charging	France Telecom	Approved
T2-011095	MMS Charging specs	France Telecom	Reviewed
T2-010903	LS to SA5 on MMS charging requirements	T2 SWG3	Reviewed

Annex J Report from T1/T2 SWG1 meeting on application enabler testing

Source: John Fenn,

1) Opening of the meeting

The meeting was opened by the chairman Dr. Peter Neumann, Vice Chair of T2 who welcomed the delegates. Mr. J. Fenn acted as meeting secretary

2) Roll call of delegates

The delegates introduced themselves their company affiliations and their main area of work either T1 or T2. A list of delegates is attached.

3) Approval of Agenda

The agenda in Tdoc T2-010872 was approved without additions or changes.

4) Allocation of contributions for discussion

All the previous T1 documents were available at the meeting plus one new document from Mr. P. George T2-010193 relating to Work Items.

5) Discussion of Proposed Work Items

This point was incorporated into the next agenda item below.

6) Introduction and review of contributions

The meeting started with the introduction of the liaison statement Tdoc T2-011191 from Mr. B. Nielsen Chair of T1. It set out what work could be needed for the testing of application platforms/interfaces. This started off the discussion between the T1 and T2 delegates and demonstrated a difference in both interpretation and understanding of what was required of the work. The following main points arose:

- ?? In general it was agreed that testing was necessary but what was to be tested was not clear
- ?? T 2 wanted to test the API and not the application which was agreed , however, legacy applications such as SMS had no APIs
- ?? A brief overview of the report from the last T1 Busan meeting was given by Mr. P. George (Tdoc T2-011190)
- ?? Diagrams displayed by T1 demonstrated problems in understanding between T1 and T2 as this was the first time some T2 delegates had seen them
- ?? Requirements should be set out for testing and test purposes by T1,T2 SA 1
- ?? T2 Terminal local model should be used to aid understanding between T1 and T2
- ?? The SA 1 chair Mr. Holley pointed out that the Framework document of SA1 could aid in defining requirements
- ?? Discussion began on Work Item Description (WID) document (Tdoc T2-011193) by Mr. George
- ?? 3GPP TS 23.057 introduced by Mr. L. Brenk and other T2 delegates. The MExE conformance table in ANNEX E at the end of the document discussed what should be tested to comply
- ?? A few questions were raised:
 - ?? What did a test suite comprise of ? This was unclear to some T2 delegates
 - ?? Where should the work take place (in T1 or T2) and where do the experts go?
- ?? The work will take places where companies give their support, either in T1 or T2

- ?? Working assumption was to draft a conformance test specification based on T2 MExE specification to result in a new WID (open question to which group the WID will belong)
- ?? Mr. B. Johansson suggested a feasibility study (i.e. to clarify manpower requirements etc.?)
- ?? Mr. P. George volunteered to draft a preliminary Work Item Document incorporating a feasibility study. It would be sent to both the T1/2 reflectors for comments and to involve people unable to be present at this meeting. Afterward it should go to the 3GPP TSG-T Plenary for information/discussion.
- ?? *This action item was agreed by all delegates present in the meeting*

7) Any Other Business

There was no other business

8) Close of the meeting

The chairman thanked the delegates for participating and closed the meeting at 12:30.

Attendance List

<u>NAME</u>	<u>COMPANY</u>	<u>AFFILIATION</u>
Lars Brenk	TTP Com	T2 SWG 1 Chair
Lidia Salmeron	ETSI MCC	T1
Peter George	Anritsu	T1 Vice Chair
Friedhelm Rodermund	ETSI MCC	T2
Kevin Holley	mmO2	SA1 Chair
Oshomo Momoh	Microsoft	T2
Hajo Schulze	D2 Vodafone	T1
Phillip Brown	Hutchison 3G (UK)	T1
Matthias Klusmann	Lucent Technologies	T1

Thomas Eyring	Rhode & Schwarz	T1
Dimitris Skliris	Motorola	T1
Nakagomi Hisashi	NTT DoCoMo	T1
Timo Oikarinen	Sonera Corporation	T1
Juha Savolainen	Nokia Corporation	T1
Tam Kok Sen	Panasonic Singapore Laboratories	T2
Robert Westers	KPN	T2
Louis Finkelstein	Motorola	T2
Lief Mattisson	Ericsson	T1
Bo Johansson	Ericsson	T2
Thomas Rodestrand	Telia	T2
Jörg Stolle	Cetecom	T1
Denis Susko	Cetecom	T1
Ramin Afchar	Cetecom	T2
Peter Neumann	Siemens	T2 Vice Chair
John Fenn	Samsung Electronics	T1

Guilia Felicetti Telecom Italia Mobile T1

Nicola Sugimoto NTT DoCoMo Inc. T2