

Draft T2#17 Report V 0.2 (2002-05)

**3rd Generation Partnership Project (3GPP);
Technical Specification Group Terminals (TSG-T);
Working Group 2 Mobile Terminal Services and Capabilities;
Draft Meeting Report
T2#17
Vancouver, BC, Canada 13-17 May 2002**



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Chairman: Ian HARRIS (Teleca Ltd.)

Secretary: Friedhelm RODERMUND (ETSI MCC)

1 Opening Plenary

1.1 Opening of the meeting

Ian HARRIS (Teleca Ltd.) opened the meeting and welcomed the delegates. Ed EHRLICH (Nokia) welcomed the delegates on behalf of host, the North American Friends, and Patti DAVIS (SKgroup) explained the organizational details.

Friedhelm RODERMUND reminded delegates about using a new tdoc number for every revised document. He also recommended delegates to use only filenames identical to the tdoc number since there are several problems connected with long filenames.

1.2 Approval of the agenda and schedule

The agenda and schedule in was presented **T2-020311**. The WIPI presentation and an agenda point for outgoing LSs were added to the agenda and it was agreed as **T2-020366**.

1.3 Notification of IPR Obligations

The chairman made the call for IPRs. **T2-020312** gives some background information on IPR issues.

The chairman drew the attention of the delegates to the fact that 3GPP Individual Members have an 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#16, Sophia Antipolis, France, 11-15 February 2002 (**T2-020310**) was approved.

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

ftp://www.3gpp.org/TSG_T/WG2_Capability/TSMT2_16/Report

1.5 Reports from other groups

1.5.1 TSG T

A summary of issues of T2 interest from T#15 meeting held in Jeju, 6-8 March 2002 was presented by Friedhelm RODERMUND in **T2-020315**:

All T2 CRs were approved as submitted except the CR42 to 23.040 on polyphonic objects. It was explained that two notes in Annex E and G (which are explaining what should be done in case SP-MIDI would not be

available in time) could be deleted since the SP-MIDI spec is now available. The CR was revised accordingly and approved (TP-020079).

The following additional comments were made on T2 CRs. These comments did not lead to any changes of the CRs:

Regarding the CR46 to 23.040 on Subaddressing scheme for SMS it was commented that there is a lack of functionality to use this from end user to end user.

Regarding the CR62 on MM7 Addressing it was commented that the added ability that MMS may support short codes to address Value Added Services is not covered in the stage 1 requirements. Materna volunteered to create a corresponding CR for stage 1.

The WID on MExE Release 6 Improvements and Investigations was approved.

The WID on MExE Run-Time Independent Framework was revised during the meeting. It was decided that a Feasibility Study (as a TR) should be created first before any changes to spec are introduced. T2 was asked to get SA1 involved in this (e.g. by sending the WID and asking for comments). The revised WID was approved (TP-020086).

Some companies proposed to delete the MExE Security analysis work item because no progress was made since the work item was created. The deletion was not agreed for the time being. TSG-T#16 will decide whether to keep it in Rel-5, or move it to Rel-6 or to delete it, based on input from T2.

The new work item on MExE testing submitted by T1 was approved (TP-020044). The intention is to produce first a feasibility study possibly as a TR.

T2 was asked to explain at the next TSG-T meeting the criteria for approving a new MExE classmark.

TSG-T agreed to T2's request to have a Rel-5 extension for MMS until June 2002 to complete MM7 stage 3.

TP-020061 contains the presentation slides from Tetsuro Tachizawa (Nokia), chair of WAP WAG MMDC. To improve the cooperation, the WAP Forum chairman proposed to make regular reports from WAP Forum meetings to 3GPP, and that he addresses the issue of the confidentiality of WAP Forum docs.

TP-020009 contains the LS from T2 to T3 cc T, SA1 on MMS related USIM changes for Rel-4. The LS was noted. T3 has not checked the attached CR yet (which was later approved at this meeting). They will report back to T2 in case they see any problem.

TP-020057 contains an LS from SA2 to T cc CN4 on mandatory support of UMTS AMR2 in dual mode terminals. A normative requirement is introduced for all 3GPP dual-mode terminals for R99 and onwards and for all UTRAN-only terminals for REL-4 and onwards to support the UMTS AMR2 as default speech version in UTRAN. As soon as the changes to the core specs are done, the UCR document TR 21.904 might need an update. The LS was forwarded to T1, T2, T3 and SA for further consideration.

TP-020010 contains an LS from T2 to TSG-T cc SA1, SA2, Joint GUP Ad Hoc on a proposal for Coordination of GUP-Related Work. To address this issue during TSG-SA, an LS from TSG-T to TSG-SA on coordination of the GUP related work was created in TP-020087.

It was decided that TR 27.903 "Discussion of synchronization standards" will not be part of the Rel-5.

It was highlighted that IPR issues should not be discussed in 3GPP WGs. It was requested that the T2 SWG chairmen should be reminded about the rules regarding IPRs.

The draft TSG-T#15 meeting report was available in **T2-020316**.

The documents can be found on the FTP server at:

ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_15

The specifications updated after T#15 can be found at:

ftp://www.3gpp.org/Specs/2002_03

1.5.2 TSG SA

A summary of issues of T2 interest from SA#15 meeting held in Kyoto, 12 -14 December 2001 was presented by Friedhelm RODERMUND in **T2-020315**:

MMS:

CRs to 22.140 Rel-5 (SP-020055) on various MMS issues were approved except CR10 on charging which was revised in SP-020193 "Support of charging models in MMS". If T2 finds a problem with these requirements they can be enhanced or corrected. The CR approved for Rel-5.

CR to 22.140 on "Automatic bearer selection for MMS delivery and submission" (SP-020195) was submitted by several companies directly to SA. It was felt that the part of the required work related to the USIM seems already been done. The CR was approved for Rel-5.

A new work item on IMS Messaging (SP-020065) proposed by SA1 was approved.

3GPP TS 26.140 version 2.0.0 "Multimedia Messaging Service (MMS); Media formats and codecs" (Release 5) (SP-020075) was approved.

SA WG3 reported in their status report (SP-020106) to TSG SA#15 that currently comments related to security on TS 23.140 are being collected. SA3 have concerns about the use of HTTP basic authentication (clear text password).

GUP:

Several LSs, WID, and other docs (SP-020005, SP-020007, SP-020152, SP-020191) were discussed related to GUP. An updated WID was approved in SP-020163 knowing that some of dates for spec delivery dates have to be debated later. SP-020191 is the proposed Generic User Profile Task List. It provides a list of the different tasks within the Generic User Profile work and a proposed mapping of these tasks to the different WGs. It was agreed that SA WG2 were most appropriate to do the initial architecture and object modeling and when detailed enough to hand over the individual tasks to the appropriate groups for elaboration. The Scope of the SA WG2 work will be broader than only architecture during this initial phase. TSG T were asked not to approve and place under Change Control the related documents until the work has been performed in SA WG2

UEM:

Rel-5 draft TR 32.802 v104 (User Equipment Management UEM feasibility study) was presented the second time for information to SA (SP-020011). It was reported that some late comments were received from T2 that may affect the prioritization of the UEM capabilities and also whether it is feasible to standardize one of the UEM capabilities (UE Software Update Capability) at all. A joint T2 SWG2/SA5 SWG-A meeting on UEM is being arranged (during SA5#27 in Cork, IRELAND, 2-5 April 2002) in order to resolve these comments. This has necessitated a delay in sending the document to TSG SA#15 meeting for Approval.

General Rel-5/Rel-6 status:

Rel-5 Status: Many work items especially in the CN area were reported as not complete. In summary it was noted that Rel-5 is not complete yet, but the content of Rel-5 is (almost completely) defined now, and most of the Rel-5 work is expected to be completed by June 2002.

Rel-6 estimation: June 2003 was considered the minimum timescale for the next Release, in order to have a reasonable functional enhancement to Rel-5. This is to be reviewed at TSG SA #16 when the full content of Rel-5 is known

Other items:

TS 22.242, V1.0.0 "Digital Rights Management; Proposed Stage 1" (SP-020061) Rel-6 was presented for information.

TS 22.233, V2.0.0 "Transparent End-to-End Packet-switched Streaming Service Stage 1" Rel-5 (SP-020062) was approved.

TR 22.944, V2.0.0 "Report on Service Requirements for UE Functionality Split" Rel-5 SP-020064 was approved. The work item on UE split is considered as completed for Rel-5. If members think more work is needed then a new work item for is needed for Rel-6.

SP-020146 LS from SA WG2 to TSG T on mandatory support of UMTS AMR2 in dual mode terminals. Extract from CR "UTRAN-only terminals of R99 may either use UMTS AMR or UMTS AMR2 as default speech version in UTRAN access." Concerns were raised about overlapping requirements in different specs. It was agreed that the text in the SA1 and SA4 area will be aligned.

The documents can be found on the FTP server at: ftp://ftp.3gpp.org/TSG_SA/TSG_SA/TSGS_15

The draft TSG-SA#15 meeting report was available in **T2-020317**.

Comments on the report from TSG#15:

Regarding the CR to 22.140 on "Automatic bearer selection for MMS delivery and submission", it was explained that in contradiction to the SA assumption, there is more work necessary on the required work related to the USIM.

The SWG2 chairman announced a document summarizing the discussion on mandatory support of UMTS AMR2 in dual mode terminals in T2-020428. Regarding UEM, he gave some background information and announced that further discussions are planned in SWG2. He highlighted that it is required that T2 gives further comment on UEM this week because these are needed at SA5 next week. He also stated that SWG2 is happy to cover the GUP work under their agenda.

Related to the transfer of responsibilities for MMS codec to SA4, the T2 chairman expressed his opinion that T2 is in the best condition to define requirements for e.g. messaging codecs. Of course, T2 should not define the codecs itself as this is the responsibility of SA4.

Regarding DRM, the T2 chairman reminded that whatever is done in 3GPP, it has to be considered what is done outside 3GPP. However, this shouldn't prevent T2 from doing a simple protection mechanism like a distribution advice informing the user not to copy an protected element further. This mechanism shouldn't impose any restrictions on equipment. It was explained that in the US and other countries everybody who receives a protected document is allowed to forward this to somebody else as long he doesn't make a copy.

1.5.3 TSG T2 SWG1

No SWG1 meeting took place since the last T2 meeting.

1.5.4 Joint T2 SWG2/ SA5 meeting on UEM

The SWG2 chairman Prem SOOD (Sharp) reported from the SA5 SWG-A and T2 SWG2 meeting on User Equipment Management (UEM) held 4/4/01 in Cork, Ireland. The report can be found in **T2-020422**.

The UEM feasibility study TR was reviewed at the meeting which was attended by a number of T2 delegates. After the meeting, the TR was updated to reflect the agreed changes and the revised version will reviewed at this T2 meeting. The target is to send the TR for approval to SA#16; this was delayed from SA#15 specifically to address the remaining T2 concerns. SA5#28 meeting (20 - 24 May 2002) is the week following the T2#17 meeting. If T2 tells SA5 that TR 32.802 can be send for approval then SA5 will bring the TR for approval to SA#16.

The question was raised if the TR is considered as finalised for Rel-5 or if it is expected to be continued for Rel-6. Prem SOOD replied that this TR is intended to be completed within Rel-5.

1.5.5 TSG T2 SWG3 MMS ad hocs

The SWG3 chairman Josef LAUMEN (Siemens) reported from the MMS ad hoc meetings SWG3#11 held 29th April to 2nd May 2002 in Seattle, Washington, USA. The reports can be found in **T2-020462**.

Design principles for MM7 stage 3 implementation were developed and agreed upon. These built the basis for the work on the CR to 23.140. After several iterations an MM7 stage 3 CR was endorsed. The endorsed document is expected to be a good basis for T2#17 finalisation of MM7 stage 3 for REL-5.

The impact of the "recipient party pays" CR to MMS stage 1 REL-5 (recently approved at SA#15) on 23.140 were discussed. The recipient party pays requirement is now reflected in an endorsed CR to 23.140. A new information element "Charged Party" is introduced on MM7 – which, once approved, will need to be reflected in MM7 stage 3 descriptions.

Three more CRs to MMS stage 1 REL-5 approved at SA#15 which were not discussed at SWG3#11.

During work on MM7 stage 3 a need to distinguish between informational-only and routing-purpose address fields was identified and reflected in a CR to 23.140 on the MM7 stage 2 description.

1.5.6 T2 GUP ad hoc

Bo JOHANSSON (Ericsson) gave a summary on the status of the GUP work and reported from the two meetings related to GUP held in Cork, Ireland, 2-5 of April, 2002. The slides were in **T2-020432**.

Joint Ad-hoc on Generic User Profile (UP-10)

SA#15's main decisions were that the GUP work (excluding the SA1 parts) will be driven and continued in the SA2. Joint GUP Ad-hoc work is moved to the SA2. It was concluded that the name "Generic User Profile" does not fully convey what is trying to be achieved. The technology (XML-schema,...) should not be explained to other groups but the main motivation for GUP needs to be clarified. To achieve this a presentation was generated which was submitted to the SA2 SWG GUP meeting (8th April 2002, Sophia Antipolis).

Joint session SA5 SWG-A / Joint GUP Ad-hoc on Subscription Management

It was noted that many data components are shared between "GUP" and "SuM". Therefore, a common data definition framework is essential. SA5 thinks that the main priority is to develop the data definitions.

The T2 chairman explained that everything related to GUP goes under the SWG2 umbrella, thus, the T2 GUP ad hoc does not exist anymore. He expects that any output from the GUP work goes into SA2. A concern was expressed with the proposal from SA2 to create a Draft new WID for DDF.

Nicola McGREGOR (NTT DoCoMo) gave an overview presentation about the GUP user profile concept. The slides can be found in **T2-020433**.

The presentation describes the existing problem of having the user profile data spread all over the place in various formats, which has a lot of negative implications. The current work on these issues in 3GPP is described, and a joint GUP recommended solution is outlined. It was stressed that time is running out for a solution. The T2 chairman proposed that T2 should report to SA2 regularly about the GUP work.

The SWG3 chairman proposed to have a joint meeting between SWG2/SWG3 on GUP and MMS alignment at the next T2 meeting in August.

1.5.7 SA5

Josef LAUMEN draw the attention to the report from a SA5 SWG-B "Service Charging " meeting which can be found in **T2-020519**.

He highlighted that from the operator side there exists the requirement of the mandatory acknowledgement of retrieve MM procedure by the recipient user agent. The send of the MM1_acknowledgement. REQ message must defined mandatory on this interfaces otherwise there exists no guarantee for the operator of the successful MM delivery to the recipient user agent. In 23.140, the acknowledgment for the retrieval of a MM is only send upon request form the network. SA5 wants to have it mandatory that every time a acknowledgement has to be sent form the user agent.

He pointed out that a quite significant number of CDRs has been developed for MMS.

1.5.8 IETF

Ileana LEUCA (AT&T Wireless) reported that there are some requirements regarding terminals supporting IPv6. So far, T2 was not exposed so far regarding IPv6 requirements. Maybe T2 should be involved to see

how this requirements fit into the overall 3GPP terminal requirements. It might be that a work item is needed for this.

1.5.9 WAP Forum

It was reported that Soeren THOMSEN (Motorola) is not available any longer as 3GPP-WAP liaison officer. The T2 chairman asked for any volunteers to come forward.

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_TWG2_Capability/TSMT2_17_Vancouver/Docs

1.7 Incoming Liaison Statements:

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

T2-020331 is an LS from SA1 asking for comments on the draft TR Priority Service Feasibility Study. T2 didn't identify much relation to its work. The SWG2 chairman agreed to bring it into SWG2 for a review.

T2-020343 is an LS reply from SA3 on the support for subscriber certificates. The LS was forwarded to SWG3.

T2-020347 is an LS reply from SA5 on the Priority Service Feasibility Study - draft TR 22.950 v1.0.0. The LS was noted.

T2-020348 is an LS from SCP on J2ME API to UICC/(U)SIM. The LS was noted.

1.8 Outgoing Liaison Statements:

The following LSs were already prepared in advance to the T2 meeting and presented for approval at the opening plenary:

T2-020323 is an LS to SA1 on MMS Stage 1 requirements for REL-5 and REL-6. Regarding the new MMS stage 1 requirements for Rel-5 it was reported that the charging requirement discussion had started in at the last SWG3 meeting in Seattle, but no discussion has taken place yet regarding the other requirements. The LS was agreed.

T2-020513 is an LS reply on a proposed SA5/CN5/T2 joint meeting on VASP MMS charging. The LS was agreed.

T2-020367 is an LS asking SA1 about intentions and comments regarding the creation of the draft MMS Rel-6 WID. The LS was agreed.

1.9 3GPP Work Plan

Friedhelm RODERMUND presented the latest version of the 3GPP work plan as in **T2-020318**. Besides listing all the work items including the expected completion date and a progress indication, a lot of other useful information can be found (link to the WID, name of work item rapporteur etc.). All WGs are requested to review and update the work plan at each meeting.

Friedhelm RODERMUND presented the list of active T2 work items in **T2-020319**.

Friedhelm RODERMUND presented the list of TSs and TRs for which T2 is responsible in **T2-020313**.

1.10 Other opening plenary issues

1.10.1 Presentation: Binary Runtime Environment for Wireless (BREW) technology for consideration as a MExE classmark

Laurence LUNDBLAD (Qualcomm) held the presentation. The slides can be found in **T2-020324**.

BREW apps and extensions are discovered at runtime and loaded when needed. BREW is an open and flexible environment with many APIs and application management services. New API extensions can be created by Developers Manufacturers Carriers. BREW provides means for protecting the handset and network by supplying three components: control and prevention including digital signing, monitoring and testing, response like e.g. application recall. BREW has been launched in November 2001 by Korea Telecom and is running there on seven handsets. Qualcomm is considering proposing BREW as a new MExE classmark.

It was explained that BREW has currently nothing specific regarding DRM implemented. Qualcomm announced that the BREW specifications and SDK will be made available to 3GPP members. It's the intention to standardize the APIs and also the application execution part should be standardized in MExE. It was clarified that the distribution model shown in the slides does not necessarily apply to BREW as a MExE classmark.

Concerns were expressed

- that BREW looks like an operating system. Laurence LUNDBLAD clarified that BREW is not an operating system e.g. it doesn't include necessary elements like device drivers for the hardware etc. It is intended as a layer on top of an operating system.
- that this is a technology which has a trademark
- about having proprietary proposals for MExE classmarks
- about the expansion of the MExE work although T2 had expressed a preference to simplify MExE

The SWG1 chairman expressed his opinion that it's very valid to introduce new classmarks if this is a market requirement. The new classmarks want to use e.g. the MExE security framework.

1.10.2 Presentation: IPv6 for Second and Third Generation Cellular Hosts

Ville WARSTA (Nokia) presented IPv6 for Second and Third Generation Cellular Hosts in the IETF on behalf of Paul VOSKAR who had lost his voice. The slides can be found in **T2-020354**.

The "IPv6 for 2G and 3G Cellular Hosts" Internet-Draft contains clearly defined IPv6 functionality set for 3GPP mobile terminals. The cellular host IPv6 Informational document is specified in the IETF IPv6 Working Group and used as a reference in 3GPP 23.221 specification. Authors of the draft want to promote rapid adoption of IPv6 in the mobile terminals (and networks) and ensure a smooth deployment.

It was commented that this draft will become an industry standard, and that it is important that 3GPP should check this work and the implications. Especially considering that IPv6 is related to terminal applications which is what we are doing in T2.

It was highlight that if IPv6 should be implemented, then the manufactures need to know when this is needed.

1.10.3 Presentation: WIPI (Wireless Internet Platform for Interoperability)

Sang Jin Yoon (ETRI) made the presentation on WIPI (Wireless Internet Platform for Interoperability). The slides can be found in **T2-020365**.

An introduction was given to ETRI, the Electronics and Telecommunications Research Institute, and KWISF, the Korean Wireless Internet Standardization Forum.

WIPI (Wireless Internet Platform for Interoperability) is an application execution environment specification for the mass market handsets. It has been developed under the guidance of KWISF and ETRI. It was made official standard in Korea through TTA (Telecommunication Technology Association). The security feature meet MExE requirements. WIPI is supposed to co-exist with other technologies such as WAP and MIDP. It is independent of underlying OS and air interface, and is supposed to embrace a broader community of application developers.

It was announced that the specification will be available in English soon.

It was pointed out that this is a good example of the use of MExE work. WIPI is reusing the MExE security model.

2 Subgroup Meetings

Between T2 opening and closing plenary, the sub group sessions (SWG1, SWG2, SWG3) were held. The reports can be found in Annexes D-F. The results may have been changed and amended during the closing plenary. The final results of the T2#17 meeting are reported in the following clauses.

3 Closing Plenary

3.1 Results SWG1 Execution Environment

SWG1 chairman Lars BRENK (TTPCom) presented the SWG1 report in **T2-020381**. The report can be found in Annex D.

The MExE group recommends, that the MExE security Analysis work item is being closed. Regarding the MEXE6-RTIF Work Item, a long discussion and clarification process took place, identifying more specifically some of the work that needs be done in this WID. A draft technical report going into details with the topics raised, will be prepared for the next meeting.

A presentation and discussion concerning a new WID called "Network Execution" took place. It was felt by the group that the WID did not belong in the MExE group. It was the groups recommendation, that the proposal should be presented for SA1, which then, during the 3GPP work item allocation process, will place the work item in the correct working group/sub working group (which might be T2 SWG1). A presentation focussed on the security aspects of BREW was given. A technical presentation on WIPI was given.

New rapporteur of the 23.057 specification is Lars BRENK (TTPCom).

T2-020393 is a CR to 23.057 Rel-6 restructuring the MExE specification to make it easier to understand and modify. The CR was agreed.

T2-020406 is a WID on the binary code execution feasibility study. It is not yet clear where the feasibility study will lead, therefore the related sentence in section 4 was deleted. The expected output documents were described more clearly by adding "TR" in section 10 and deleting 22.057 and 23.057 in section 10. The WID was agreed as **T2-020575**. Motorola stated that they do not support this work item.

T2-020394 is an LS to the SDR Forum giving general information about MExE. The LS was agreed.

T2-020402 is an LS to T on criteria's for selecting new classmarks. The LS was revised in **T2-020576** and postponed to a later point during the meeting because one company requested more studying time.

Concerns were raised that this document might be mistaken as giving formal requirements for classmark approval, and that approval is expected after the criteria's are fulfilled. It was clarified that every classmark proposal will be discussed on its own merit and that the document doesn't give a list of formal requirements. The LS was revised again to **T2-020581** and agreed.

T2-020405 is an LS to WAP Forum UAProf group on adding a CLIPPlatform tag to the UAProf schema. The LS was agreed.

3.2 Results SWG2 Terminal Interfaces and Capabilities

The SWG2 report in **T2-020421** was presented by SWG2 chairman Prem SOOD (Sharp). The report can be found in Annex E.

Topics discussed at this meeting included, Generic User Profiles, User Equipment Management, AMR Codecs, Priority Services, UE Functionality Split, AT Commands, various IMS Liaison Statements and other logistics for future meetings, joint meetings, and meeting procedures.

There was thorough discussion on the organization and conduction of the T2 work on GUP. Preparation of a draft WID for the T2-only tasks is ongoing, and is pending the approval of a GUP WI split by SA1 and SA2. SWG2 decided that the T2 GUP work should be carried out in SWG2 meetings called with the dedicated objective of progressing the DDF-common objects work. Two meetings related to GUP work were approved – June 18-20 in Sweden hosted by Telia, and a proposed JM with SA5 in Tampere in the week of August 19-23.

The UEM feasibility study was further reviewed and comments will be provided to SA5 via the LS below.

T2-020438 is a CR to 27.005 Rel-4 correcting the description of +CNM. Wrong message 'RP-ERROR' is replaced by a reference to 3GPP TS 24.011. The CR was agreed.

T2-020439 is a CR to 27.005 R99 correcting the description of +CNM. Wrong message 'RP-ERROR' is replaced by a reference to 3GPP TS 24.011. The CR was agreed.

T2-020429 is a CR to 27.007 Rel-6 Enhancement of AT command +CIND to indicate SMS rejection. The CR was agreed.

T2-020440 is a LS to SA2 & SA1 on GUP DDF progress report . All T2-related GUP work will be carried out in T2 SWG2, and SWG2 will be responsible for the coordination of all relevant joint meetings and liaison statements. The LS informs that T2 decided that there was no longer a need for the T2 GUP ad-hoc group, and disbanded the group. T2 asks SA1 and/or SA2 to keep T2 informed concerning the decision taken regarding the split of the GUP WID. The LS was agreed.

T2-020435 is a response LS to SA1 on Priority Service Feasibility Study TR. T2 would like to be informed regarding any subsequent SA1 WI or Feasibility Study which would examine the use of Priority Service with MMS or SMS. The LS was agreed.

T2-020434 is a reply LS Response to SA5 on UEM and TR 32.802. T2 asks SA5 group to accept the changes suggested before submitting TR 32.802 to SA#16 for approval. The LS was agreed.

3.3 Results SWG3 Messaging

The report of SWG3 was presented in **T2-020461** by Josef LAUMEN. The report was revised to **T2-020577**. It can be found in Annex F.

3.3.1 SMS/CBS/EMS

SMS

T2-020488 is a CR to 23.040 REL-5 on clarification of bit value combinations within TP-PI. The CR was agreed.

T2-020490 is a CR to 23.040 REL-5 on references to the TP-RD bit. The CR was agreed.

T2-020528 is a CR to 23.040 REL-5 on TP-DCS values for SIM data download. The CR was agreed.

T2-020541 is a CR to 23.040 R99 clarifying the requirement for type 0 Short Messages. "SMS" was changed to "short message". The CR was revised in **T2-020578**. The CR was agreed.

T2-020542 is a CR to 23.040 Rel-4 clarifying the requirement for type 0 Short Messages. "SMS" was changed to "short message". The CR was revised to **T2-020579**. The CR was agreed.

T2-020543 is a CR to 23.040 Rel-5 clarifying the requirement for type 0 Short Messages. "message" was changed to "short message". The CR was revised to **T2-020580**. The CR was agreed.

T2-020565 is a CR to 23.040 REL-5 on the occurrence of the Reply Address Element. The CR was agreed.

EMS

T2-020552 is a CR to 23.040 REL-5 on corrections to WVG in EMS. The CR was agreed.

T2-020553 is a CR to 23.040 REL-5 on clarifications to WVG in EMS. The CR was agreed.

T2-020554 is a CR to 23.040 REL-5 on the websafe color palette in WVG in EMS. The CR was agreed.

The SWG3 chairman reported that there are two more CRs on WVG in EMS (**T2-020567**, **T2-020568**) which could not be agreed during the SWG3 session. It is planned to have a one week email discussion period starting immediately. After that, they should be sent on a shortened e-approval period ending noon, Fri 31 May (12:00 GMT).

CBS

T2-020509 is a CR to 23.041 Rel-4 updating references. The CR was agreed.

T2-020512 is a CR to 23.041 R99 updating references. The CR was agreed.

3.3.2 MMS

REL-5 of MMS specification 3G TS 23.140 was finalized at this meeting.

During T2#17 the MM7 stage 3, the implementation of the connection of a VASP to an MMS Relay/Server was finalised. Some MM7 stage 2 corrections resulted from the discussions on MM7 stage 3.

The new SA#15 approved REL-5 MMS stage 1 requirements were analysed and implemented were needed. According to T2's understanding these requirements are now all fulfilled. LSs have been created on the matter to T3 and SA1. A CR on one of the charging requirements and a CR on the automatic bearer selection were approved. It was felt that the other charging requirements were already fulfilled.

Other results:

- Message size definition as requested by BARG.
- Message distribution indicator
- Inclusion of MIME type for SMS encapsulation and alignment with MMS codec spec, 26.140
- Other corrections to the existing REL-5 specification

Discussions of documents on MMS REL-6 matters had to be postponed due to lack of time. However, a preliminary draft WID was created which is to be send for information to SA1 and T#16.

T2-020511 is a CR to 23.140 Rel-5 on parameters for CDR creation related to VASP/VAS connectivity via MM7. Examination of Annex C to 23.140 revealed that additional parameters are needed for CDR creation when connectivity to VASP via MM7 results in a message to or from a VASP. The CR was agreed.

T2-020532 is a CR to 23.140 Rel-5 on Automatic Bearer Selection for MMS. Addition of two explanatory sentences about bearer selection. The note referring to T3 actions required might be deleted at TSG-T in case T3 has fulfilled the requirements. The CR was agreed.

T2-020533 is a CR to 23.140 Rel-5 on Charged Party Indication on MM7. In the MM7_submit.REQ a new field is introduced to send an indication to the MMS Relay/Server which party is expected to be charged for an MM. The CR was agreed.

T2-020534 is a CR to 23.140 REL-5 on MM1-MM7 and MM4-MM7 header mapping. For a complete MMS end-to-end solution the abstract messages and information elements used over MM7 needs to be mapped onto the elements used over the MM1 and MM4 interfaces. The CR was agreed. Friedhelm RODERMUND explained that according to 3GPP's drafting rules table notes have to be within the table instead of below the table.

T2-020535 is a CR to 23.140 REL-5 introducing the MM7 stage 3. The schema URL has to be defined. It was pointed out that it has to include a schema version number, and the URL once it is chosen should remain stable. Friedhelm RODERMUND will liaise with Ville WARSTA and Jerry WEINGARTEN to define the final URL. Then, the URL will be added to the CR before it goes to TSG-T. The CR was revised to **T2-020583** improving the "Reason for Change".

T2-020536 is a CR to 23.140 REL-5 on correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs. The CR was agreed.

T2-020544 is a CR to 23.140 R'99 on encapsulation of a short message in a multimedia message. The change consists of indicating that the newly registered content type can be used for encapsulating a short message in a multipart message. The CR was agreed.

T2-020545 is a CR to 23.140 Rel-4 on encapsulation of a short message in a multimedia message. The CR was agreed.

T2-020550 is a CR to 23.140 Rel-5 on encapsulation of a short message in a multimedia message. The CR was agreed.

T2-020547 is a CR to 23.140 REL-5 on MM7 Interface - Message Distribution Indicator. Add the new field, Message Distribution Indicator, to the MM1 and MM7 interfaces to support the indication about the content protection. Nokia expressed strong concerns regarding this CR and on its impact on the parallel ongoing DRM work in SA1. The CR was agreed.

T2-020548 is a CR to 23.140 REL-5 making terminology more consistent. The CR was agreed.

T2-020549 is a CR to 23.140 REL-5 on store status in stage 2 features. The CR was agreed.

T2-020551 is a CR to 23.140 REL-5 on the alignment of 23.140 with 26.140. The issue was debated in SWG3 and some concerns were expressed. The procedure should be that whenever T2 wants new codec functionality, T2 can add a new section about codec requirements, and ask SA4 to implement the requirements. Of course, SA4 can also suggest new media types but it is expected that they will inform T2. Concerns were expressed that there is nothing in place to prevent SA4 from making changes without our knowledge. The CR was agreed.

T2-020559 is a CR to 23.140 Rel-5 on Binary Encoding of MMS Connectivity Information for storage on the USIM. The description for the storage of WAP Gateway Information and Interface to Core Network and Bearer Information on the USIM in annex F is too vague at the moment. The CR was agreed.

T2-020560 is a CR to 23.140 REL-5 on additional information elements for the MM1 abstract messages. The CR was agreed.

T2-020563 is a CR to 23.140 REL-5 on clarifications. Friedhelm RODERMUND commented that the subject, reason for change, and the consequence if not approved are not giving much information about the CR. For future CRs he recommends to be more precise. The CR was agreed.

T2-020564 is a CR to 23.140 REL-5 on message Size. The CR was agreed.

T2-020570 is a CR to 23.140 REL-5 on the correction of responsibility for MM4 delivery reports. The CR was agreed.

T2-020369 is the WAP MMDC Spring report and was presented by Ville WARSTA. The report was noted. Ville volunteered to be the new WAP Forum – 3GPP liaison officer.

3.3.3 Liaison Statements

T2-020321 is a LS to SA5 on Charging Support for VASP MMS Connectivity. T2-020268 to be attached. The LS was revised to **T2-020584** and agreed.

T2-020527 is a LS to SA5 on Service Operations Management on MM7. T2 asks SA5 group to not include MMS as part of the work done for Service Operations Management, until T2 has come to a conclusion on the scope of REL-6 work for MMS. T2 also asks SA5 to provide more information on Service Operations Management. The LS was agreed.

T2-020529 is a LS to T3 on TP-DCS values for SIM data download. The LS was agreed.

T2-020530 is a LS to T3 and SA1 on MMS configuration information in the USIM. T2-020516 to be attached. The LS was agreed.

T2-020531 is a LS to T3 and SA1 on automatic bearer selection for MMS delivery and submission. T2-020518, T2-020532, T2-020559 to be attached. The LS was agreed.

T2-020539 is a LS to SA1 and GSMA-SERG on use cases for VAS. T2-020538 to be attached. T2 SWG3 kindly asks SA1 and GSMA to consider and review the use cases for MMS VAS and provide feedback to T2. The LS was agreed.

T2-020557 is a reply-LS to T2-020338 on MMS codecs. T2-020551 to be attached. The LS was agreed.

T2-020574 is a reply-LS to SA3 on T2-020343 (subscriber certificates) . T2 kindly requests the recipients to update us on the work that has been done so far regarding subscriber certificates and to bring to our attention any documents or specifications that will deal with this issue in the future. The LS was agreed.

The following LSs were not agreed by SWG3 and were presented as draft documents during the closing plenary:

T2-020569 is a LS-reply to T2-020325 to BARG and SA5 on message size definition. The LS was agreed.

T2-020572 is a LS to SA1 cc T on preliminary draft MMS REL-6 WID. T2 requests SA1 to review the proposed preliminary MMS release 6 work item description and provide comments. In addition, T2 asks SA1 to have a joint meeting in order to finalize the MMS release 6 WID. The LS was agreed.

T2-020582 is a LS to SA1 on IMS Messaging. The LS was presented as a draft document. A debate took place whether it is appropriate for T2 to ask for involvement in stage 1 creation. Several changes were done to the draft document. The LS was agreed.

Josef LAUMEN thanked everybody for the hard work done in Rel-5 which led to the successful completion.

T2-020370 is an LS from SA4 on PSS Release 6 work program. The LS was noted by T2. It will be sent to the SWG3 email reflector and comments can be provided by SWG3 to SA4 if required.

4 Future meeting schedule

Meeting	Date	Location	Host
T#16	5 - 7 June 2002	Marco Island, Florida	American Friends of 3GPP
SWG2 (on GUP)	18-20 June 2002	Sweden	Telia
SWG3	tbd	Marseille tbc	GEMPLUS tbc
T2#18	12-16 Aug 2002	Velen, Germany	Materna
JM T2 /SA1 (on Scope of MMS REL-6)	Tbd		

JM T2 / SA5 (on MMS charging)	19 Aug 2002 tbc	Tampere / Finland tbc	Co-located with SA5 meeting tbc
JM T2 SWG2 / SA5 (on DDF-common objects and SuM)	20 Aug 2002 tbc	Tampere / Finland tbc	Co-located with SA5 meeting tbc
T#17	4 - 6 Sep 2002	Biarritz, France	
T#19	18-22 Nov 2002	Korea	Samsung
T#18	4 - 6 Dec 2002	New Orleans, US	American Friends of 3GPP
T2#20	10 - 14 Feb 2003		
T#19	12 - 14 Mar 2003	Jersey Island	
T2#21	12-16 May 2003		
T#20	4 - 6 Jun 2003	Finland	
T2#22	25-29 Aug 2003		
T#21	17 - 19 Sep 2003	Germany	
T2#23	17-21 Nov 2003		
T#22	10 - 12 Dec 2003		

The T2 meeting dates for 2003 were agreed provisionally.

GEMPLUS offered to host the next SWG3 meeting in Marseille. T2 agreed to have a separate SWG3 meeting. The dates are not decided yet.

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

Companies were invited to consider hosting future T2 meetings.

5 Any Other Business

A discussion took place on size restriction of email attachments send to the email reflectors. The T2 chairman appealed to delegate not to send large attachments since this causes problems when reading emails while travelling. Friedhelm RODERMUND announced that he is checking the feasibility of having an size limitation enforced by the list server.

The question came up whether it would be possible to use the automatic document numbering tool for T2 meetings. Friedhelm RODERMUND explained that he didn't use the tool so far because it doesn't support structured document lists. Currently the T2 doclists are structured according to general OP documents, LSs, SWG1, SWG2, SWG3.

6 Close of the Meeting

Ian HARRIS thanked all delegates and the subgroup chairmen for their contributions and work at this meeting. He thanked the North American Friends of 3GPP for hosting the meeting, and he expressed special thanks to Patti DAVIS for her excellent organizational support.

Annex A List of all temporary documents

TDOC	Subject	Source	SWG
T2-020310	Draft Meeting Report T2#16, Sophia Antipolis, France, 11-15 February 2002	T2 secretary	OP
T2-020311	Draft Agenda T2#17, Vancouver	T2 chairman	OP
T2-020312	IPR guidance	MCC	OP
T2-020313	T2 specs status list	MCC	OP
T2-020314	3GPP meeting calendar	MCC	CP
T2-020315	Summary of T#15 and SA#15 issues of T2 interest	T2 secretary	OP
T2-020316	Draft Report of TSG-T meeting #15	T secretary	OP
T2-020317	Draft Report of TSG SA meeting #15	SA secretary	OP
T2-020318	3GPP work plan	MCC	OP
T2-020319	list of active T2 work items	T2 secretary	OP
T2-020320	proposed future T2 meeting dates	T2 chairman/secretary	CP
T2-020321	LS to SA5 on Charging Support for VASP MMS Connectivity	Comverse	SWG3
T2-020322	LS to SA1 on charging MMS models	Teleca	SWG3
T2-020323	LS to SA1 on MMS Stage 1 Requirements for REL-5 and REL-6	Nokia	OP
T2-020324	BREW Presentation for T2 Plenary	Qualcomm	OP
T2-020325	LS from BARG CPWP and SMS SC on Message Volume Measurement Methods	CPWP Doc 020/02 rev3	SWG3
T2-020326	withdrawn		
T2-020327	LS from SA1 on Digital Rights Management (DRM)	S1-020493	SWG3
T2-020328	LS from SA1 on revised "Draft Push Service Stage 1"	S1-020543	SWG3
T2-020329	LS from SA1 on ISIM for support of IMS	S1-020579	SWG2
T2-020330	LS from SA1 on Packet switched streaming service stage 1 TS for release 5	S1-020605	SWG3
T2-020331	LS from SA1 on Priority Service Feasibility Study TR - draft	S1-020642	OP, SWG2
T2-020332	LS from SA1 on Generic User Profile Stage 1	S1-020660	SWG2
T2-020333	LS from SA2 on "sip compression"	S2-020859	SWG2
T2-020334	LS from SA2 reply on: "Draft Push Service Stage 1"	S2-020868	SWG3
T2-020335	LS from SA1 on 3GPP TSG SA WG 1 MMS SWG	S1-020518	SWG3
T2-020336	LS from SA1 on Support of "Recipient Party pays"	S1-020519	SWG3
T2-020337	LS from SA1 on Generic User Profile (GUP) time scales	S1-020571	SWG2
T2-020338	LS from SA4 about transfer from T2 to SA4 of responsibility for MMS formats and codecs	S4-010196	SWG3
T2-020339	LS from SA2 on Comments on UP-010141 and relationship of GUP to Subscription Management	S2-020887	SWG2
T2-020340	LS from SA2 on Status of the Generic User Profile Work	S2-020886	SWG2
T2-020341	LS from SA2 on Prefix allocation for IPv6 stateless address autoconfiguration	S2-020910	SWG2
T2-020342	LS from SA3 reply on the User Equipment Management Feasibility Study	S3-020136	SWG2
T2-020343	LS from SA3 reply on support for subscriber certificates	S3-020163	OP, SWG3
T2-020344	LS from SA3 reply on Security for UE functional split	S3-020166	SWG2
T2-020345	LS from SA5 reply on: "Draft Push Service Stage 1"	S5-020045	SWG3
T2-020346	LS from SA5 reply on: "Liaison Statement on charging support for VAS MMS Connectivity Interface"	S5-020196	SWG3
T2-020347	LS from SA5 reply on: Priority Service Feasibility Study - draft TR 22.950 v1.0.0	S5-020198	OP
T2-020348	LS from SCP on J2ME API to UICC/(U)SIM	SCP-020051	OP
T2-020349	LS (forwarded from TSG-T) from SA4 on mandatory support of UMTS AMR2 in dual mode terminals	TP-020057	SWG2
T2-020350	LS from SA5 on on 3GPP SA1 MMS SWG	S5-024033	SWG3
T2-020351	LS from SA5 on VASP MMS Connectivity joint meeting	S5-020322	SWG3
T2-020352	LS from SA5 on VASP MMS Connectivity	S5-022007	SWG3

T2-020353	LS from SA5 on Relationship of GUP to Subscription Management	S5-022009	SWG2
T2-020354	LS from SA5 on co-ordination of data definitions, identified in GUP development	S5-022017	SWG2
T2-020355	LS from CN3 on IPv6 update of stage 3 specifications	N3-020361	SWG2
T2-020356	LS from CN4 on coordination of data definitions, identified in GUP development	N4-020463	SWG2
T2-020357	LS from CN4 Complement to the Answer LS on MSISDN Address resolution for MMS using MAP operations	N4-020512	SWG3
T2-020358	LS from SA3 on the use of USIMs and ISIMs for IMS	S3-020167	SWG2
T2-020359	LS from SA2 on GUP work progress	S2-021513	SWG2
T2-020360	LS from SA2 on IPv6 update of stage 3 specifications	S2-021521	SWG2
T2-020361	LS from SA5 on User Equipment Management Feasibility Study (TR 32.802)	S5-020433	SWG2
T2-020362	LS from CN5 on co-ordination of data definitions, identified in GUP development	N5-020439	SWG2
T2-020363	LS from SA2 on GUP Work Item Description and DDF	S2-021514	SWG2
T2-020364	presentation: IPv6 for Second and Third Generation Cellular Hosts	Nokia	OP
T2-020365	WIPI presentation	ETRI	OP
T2-020366	Agenda T2#17, Vancouver	Chairman	OP
T2-020367	LS to SA1 on draft MMS Rel-6 WID	Siemens	OP
T2-020368	LS from Joint ad-hoc on Generic User Profile (GUP) on Transfer of the Generic User Profile Work	UP-020053	OP
T2-020369	WAP MMDC Spring report	WAP MMDC	CP
T2-020370	LS from SA4 on PSS Release 6 work programm	S4 (02)0346	CP
T2-020371	not used		
T2-020372	not used		
T2-020373	not used		
T2-020374	not used		
T2-020375	not used		
T2-020376	not used		
T2-020377	not used		
T2-020378	not used		
T2-020379	not used		
T2-020380	agenda SWG1 MExE at T2#17	Chairman	SWG1
T2-020381	report of SWG1 MExE at T2#17	Chairman	SWG1
T2-020382	Restructuring of the MExE specification	Ericsson	SWG1
T2-020383	e-mail approval status #4	Chairman	SWG1
T2-020384	MExE contribution to the SDR Forum	MExE group	SWG1
T2-020385	New MExE classmark questions	Chairman	SWG1
T2-020386	WID MExE Classmark for BREW	Qualcomm	SWG1
T2-020387	BREW Presentation for MExE SWG	Qualcomm	SWG1
T2-020388	Binary classmark investigation WID	TTPCom / Qualcomm	SWG1
T2-020389	Network Execution in MExE WID	Media Farm	SWG1
T2-020390	LS to WAP Forum UAProf group	Microsoft	SWG1
T2-020391	Discussion Topics Towards a Requirements Analysis for a MExE Run-Time Independent Conformance Framework	Intel	SWG1
T2-020392	Discussion document - classmarks	Openwave	SWG1
T2-020393	CR 23.057 Rel-6 Restructuring of the MExE specification	Ericsson	SWG1
T2-020394	LS to SDR Forum: MExE contribution to the SDR Forum	MExE group	SWG1
T2-020395	LS to WAP Forum UAProf group	Microsoft	SWG1
T2-020396	Presentation of Network execution	Media Farm	SWG1
T2-020397	MExE answers	Microsoft	SWG1
T2-020398	Signed packages for installation of root certificates	Microsoft	SWG1

T2-020399	MExE answers version 2	Microsoft	SWG1
T2-020400	UE architecture picture	Siemens	SWG1
T2-020401	MExE answers version 3	MExE group	SWG1
T2-020402	LS to T: Criteria's for selecting new classmarks	MExE group	SWG1
T2-020403	MExE feasibility study	MCC	SWG1
T2-020404	First MExE WID	MCC	SWG1
T2-020405	LS to WAP Forum UAProf group on Adding a CLIPatform tag to the UAProf schema	Microsoft	SWG1
T2-020406	WID: Binary code execution feasibility study	TTPCom / Qualcomm	SWG1
T2-020407	not used		SWG1
T2-020408	not used		SWG1
T2-020409	not used		SWG1
T2-020410	not used		SWG1
T2-020411	not used		SWG1
T2-020412	not used		SWG1
T2-020413	not used		SWG1
T2-020414	not used		SWG1
T2-020415	not used		SWG1
T2-020416	not used		SWG1
T2-020417	not used		SWG1
T2-020418	not used		SWG1
T2-020419	not used		SWG1
T2-020420	Agenda SWG2#17	SWG2 Chair	SWG2
T2-020421	Meeting Report SWG2#17	SWG2 Chair	SWG2
T2-020422	Report/agenda of Cork UEM-JM with SA5	T2 JM Co-Chair	SWG2
T2-020423	Report/agenda of T2-GUP Cork Meeting	T2-GUP Chair	SWG2
T2-020424	Report/agenda of UP-10 Cork Joint GUP-AH	GUP-AH Chair	SWG2
T2-020425	TSG-T Decision on GUP Work	SWG2 Chair	OP, SWG2
T2-020426	TSG-SA Decision on GUP work	SWG2 Chair	OP, SWG2
T2-020427	GUP Work Organization e-mail March 26	SWG2 Chair	SWG2
T2-020428	TSG-T, SA Decision on UMTS_AMR2 codec	SWG2 Chair	SWG2
T2-020429	CR 27.007 Extention of +CIND	Siemens	SWG2
T2-020430	CR 07.05/27.005 Correction of +CNMA	Siemens	SWG2
T2-020431	Explanation for CR to +CNMA	Siemens	SWG2
T2-020432	status of GUP work	Ericsson	SWG2
T2-020433	GUP Presentation	GUP-AH, UP-020060	SWG2
T2-020434	LS to SA5 on UEM & 32.802		SWG2
T2-020435	LS to SA1 on Priority Service		SWG2
T2-020436	LS from GUP-AH UP-10 on Transfer of Work	UP-020053	SWG2
T2-020437	Draft WID on T2 GUP work	Motorola	SWG2
T2-020438	CR 07.05/27.005 Correction of +CNMA REL 99		SWG2
T2-020439	CR 07.05/27.005 Correction of +CNMA REL4		SWG2
T2-020440	LS to SA2, SA1 on T2 Progress Report on GUP		SWG2
T2-020441	GUP Information Model	UP-020043	SWG2
T2-020442	TS23.241 Updated Annex B	UP-020025	SWG2
T2-020443	TS23.241 version 0.3.0 updated	UP-020026	SWG2
T2-020444	DDF files and examples	UP-020027	SWG2
T2-020445	TS24.241		SWG2
T2-020446	GUP Work in Progress Information		SWG2

T2-020447	not used		SWG2
T2-020448	not used		SWG2
T2-020449	not used		SWG2
T2-020450	not used		SWG2
T2-020451	not used		SWG2
T2-020452	not used		SWG2
T2-020453	not used		SWG2
T2-020454	not used		SWG2
T2-020455	not used		SWG2
T2-020456	not used		SWG2
T2-020457	not used		SWG2
T2-020458	not used		SWG2
T2-020459	not used		SWG2
T2-020460	Agenda SWG3#17		SWG3
T2-020461	Meeting Report SWG3#17		SWG3
T2-020462	draft meeting report SWG3 MMS meeting, Seattle		SWG3
T2-020463	MMS end-to-end security services	GEMPLUS	SWG3
T2-020464	MMS end-to-end security services using S/MIME and USIM	GEMPLUS	SWG3
T2-020465	CR 23.140 Rel-5 Status text in the MM1_delivery_report.REQ	Materna	SWG3
T2-020466	CR 23.140 Rel-5 information field in notification	Materna	SWG3
T2-020467	CR 23.140 Rel-5 reverse charging on MM7	Materna	SWG3
T2-020468	CR 23.140 Rel-6 Encapsulation of a short message in a multimedia message	Alcatel	SWG3
T2-020469	Clarifications on attaching multimedia message content to MM7 Stage 3 CR	Nokia	SWG3
T2-020470	Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020471	CR 03.40 Ph2 (Cat. F) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020472	CR 03.40 R96 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020473	CR 03.40 R97 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020474	CR 03.40 R98 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020475	CR 23.040 R99 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020476	CR 23.040 Rel-4 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020477	CR 23.040 Rel-5 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group	SWG3
T2-020478	CR 23.140 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	SWG3#11	SWG3
T2-020479	CR 23.140 REL-5 consistent terminology	Siemens	SWG3
T2-020480	CR 23.140 REL-5 Alignment of 23.140 with 26.140	Siemens, Nokia	SWG3
T2-020481	Definition of message size in MMS (discussion document)	Siemens	SWG3
T2-020482	Restructuring of 23.140 in REL-6 (discussion document)	Siemens	SWG3
T2-020483	Meeting planning for MMS REL-6 (discussion document)	Siemens	SWG3
T2-020484	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	SWG3
T2-020485	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	SWG3
T2-020486	CR 23.140 Rel-6 User Prompt Identifier	Ericsson	SWG3
T2-020487	MMS end-to-end security services : use cases	Orange	SWG3
T2-020488	CR 23.040 Clarification of bit value combinations within TP-PI	Siemens	SWG3
T2-020489	CR 23.040 TP-DCS values for SIM data download	Siemens	SWG3

T2-020490	CR 23.040 References to the TP-RD bit	Siemens	SWG3
T2-020491	CR 23.040 Occurrence of the Reply Address Element	Siemens	SWG3
T2-020492	CR 23.040 WVG Corrections and Clarifications	Bijitec	SWG3
T2-020493	CR 23.140 Rel-5 inclusion of previously sent field to MM7	Nokia	SWG3
T2-020494	CR 23.140 MM7 Interface - Message Distribution Indicator	AT&T Wireless	SWG3
T2-020495	CR 23.140 MM1 interface - Message Distribution Indicator	AT&T Wireless	SWG3
T2-020496	CR 23.140 Consistent use of RFC2822	CMG	SWG3
T2-020497	CR 23.140 FQDN in RFC822 fields on MM4	CMG	SWG3
T2-020498	CR 23.140 Correction of responsibility for MM4 delivery reports	CMG	SWG3
T2-020499	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	SWG3
T2-020500	CR 23.140 MM7 stage 3 endorsed by SWG3#11	Ericsson	SWG3
T2-020501	Corrections to MM7 stage 3 - discussion doc	Ericsson	SWG3
T2-020502	CR 23.140 Mapping of information elements (MM1, MM4, MM7)	Materna	SWG3
T2-020503	Use cases for VAS - discussion doc	Telia	SWG3
T2-020504	23.140 v5.2.0 clarifications	Telia	SWG3
T2-020505	CR 23.140 Rel-5 Additional information elements for the MM1 abstract messages.	SchlumbergerSema	SWG3
T2-020506	CR 23.140 Rel-5 Acknowledgements for the unconfirmed transactions	SchlumbergerSema	SWG3
T2-020507	CR 23.040 Destination SME Mailbox Full TP-Failure-Cause	CMG	SWG3
T2-020508	MMS timezones - discussion doc	Teleca	SWG3
T2-020509	CR 23.041 Rel-4 Update of references	Teleca	SWG3
T2-020510	EMS feature overview	T2 secretary	SWG3
T2-020511	CR 23.140 Rel-5 Parameters for CDR creation related to VASP/VAS connectivity via MM7	Comverse	SWG3
T2-020512	CR 23.041 R99 Update of references	MCC	SWG3
T2-020513	LS to SA5, CN5 cc SA1, SA2 on JM SA5/CN5/T2 on VASP MMS charging	Siemens	OP
T2-020514	SWG3#11 agreed MM7 stage 3 design principles	SWG3#11	SWG3
T2-020515	CR 22.140 REL-5 - MMS support of both MSISDN and e-mail addressing schemes (SP-020055 CR-11)	SA1	SWG3
T2-020516	CR 22.140 REL-5 - MMS configuration information in the USIM (SP-020055 CR-13)	SA1	SWG3
T2-020517	CR 22.140 REL-5 - Support of chargingmodels in MMS (SP-020193)	SA1	SWG3
T2-020518	CR 22.140 REL-5 - Automatic bearer selection for MMS delivery and submission (SP-020195)	T-Mobile, Vodafone Group, Orange	SWG3
T2-020519	SWG3#27bis_Service Charging_Report	S5-024046	SWG3
T2-020520	Generic Approach for UPI in MMS	Siemens	SWG3
T2-020521	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	SWG3
T2-020522	CR 23.140 REL-4 Mandatory MM1_retrieve.RES	Siemens	SWG3
T2-020523	LS to SA5, WAP MMDC on REL-4 mandatory MM1_retrieve.RES	Siemens	SWG3
T2-020524	Discussion of stage 1 push specification	Comverse	SWG3
T2-020525	reply-LS to SA3 on T2-020343 (subscriber certificates)	Comverse	SWG3
T2-020526	Generic Approach for UPI in MMS	Siemens	SWG3
T2-020527	LS to SA5 cc CN5, SA1, SA2 on Service Operations Management on MM7	Nokia	SWG3
T2-020528	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	SWG3
T2-020529	LS to T3 on TP-DCS values for SIM data download	Siemens	SWG3
T2-020530	LS to T3, SA1 on MMS configuration information in the USIM	Siemens	SWG3
T2-020531	LS to T3, SA1 on Automatic bearer selection for MMS delivery and submission	Siemens	SWG3
T2-020532	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	SWG3
T2-020533	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	SWG3

T2-020534	CR 23.140 REL-5 MM1-MM7 and MM4-MM7 header mapping	Ericsson	SWG3
T2-020535	CR 23.140 REL-5 MM7 stage 3	Ericsson, Nokia, Comverse, Logica, Openwave	SWG3
T2-020536	CR 23.140 REL-5 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	SWG3#11	SWG3
T2-020537	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	SWG3
T2-020538	Use cases for VAS - discussion doc	Telia	SWG3
T2-020539	LS to SA1, GSMA-SERG on Use cases for VAS	Telia	SWG3
T2-020540	Very draft basis for an MMS REL-6 Work Item Description	Siemens	SWG3
T2-020541	CR 23.040 R99 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	SWG3
T2-020542	CR 23.040 Rel-4 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	SWG3
T2-020543	CR 23.040 Rel-5 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera, Telia	SWG3
T2-020544	CR 23.140 R'99 Encapsulation of a short message in a multimedia message	Alcatel	SWG3
T2-020545	CR 23.140 Rel-4 Encapsulation of a short message in a multimedia message	Alcatel	SWG3
T2-020546	CR 23.140 REL-5 Clarifications concerning the use of timestamp	SchlumbergerSema	SWG3
T2-020547	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	SWG3
T2-020548	CR 23.140 REL-5 consistent terminology	Siemens	SWG3
T2-020549	CR 23.140 REL-5 Store status in stage 2 features	Openwave	SWG3
T2-020550	CR 23.140 Rel-5 Encapsulation of a short message in a multimedia message	Alcatel	SWG3
T2-020551	CR 23.140 REL-5 Alignment of 23.140 with 26.140	Siemens, Nokia	SWG3
T2-020552	CR 23.040 REL-5 corrections to WVG in EMS	Motorola, Bijitec	SWG3
T2-020553	CR 23.040 REL-5 clarifications to WVG in EMS	Motorola, Bijitec	SWG3
T2-020554	CR 23.040 REL-5 Websafe color palette in WVG in EMS	Motorola, Bijitec	SWG3
T2-020555	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	SWG3
T2-020556	Summary of key changes in T2-020552 and T2-020555	Motorola, Bijitec	SWG3
T2-020557	LS to SA4 on Transfer of Responsibility for MMS Formats and Codecs	Nokia	SWG3
T2-020558	withdrawn	withdrawn	SWG3
T2-020559	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	SWG3
T2-020560	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	SchlumbergerSema, Teleca	SWG3
T2-020561	withdrawn	withdrawn	SWG3
T2-020562	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	SWG3
T2-020563	23.140 v5.2.0 clarifications	Telia	SWG3
T2-020564	CR 23.140 REL-5 Message Size	Teleca, Openwave	SWG3
T2-020565	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	SWG3
T2-020566	withdrawn	withdrawn	SWG3
T2-020567	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	SWG3
T2-020568	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	SWG3
T2-020569	LS to GSMA BARG CPWP and SMS SC cc SA5 on message size definition	Vodafone	SWG3
T2-020570	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	SWG3
T2-020571	preliminary draft MMS REL-6 Work Item Description	SWG3	SWG3
T2-020572	LS to SA1 cc T on preliminary draft MMS REL-6 WID	Openwave	SWG3
T2-020573	LS to SA1 on IMS Messaging	Openwave, Comverse, SchlumbergerSema	SWG3
T2-020574	LS to SA3, SA1 on subscriber certificates	Comverse	SWG3
T2-020575	WID: Binary code execution feasibility study (revised T2-020406)	TTPCom / Qualcomm	OP
T2-020576	LS to T: Criteria's for selecting new classmarks (revised T2-020402)	SWG1	OP

T2-020577	Meeting Report SWG3#17 (revised T2-020461)	SWG3 chair	OP
T2-020578	CR 23.040 R99 Clarification of the requirement for type 0 Short Messages (revised T2-020541)	Vodafone Group, Eplus, mm02, Sonera	OP
T2-020579	CR 23.040 Rel-4 Clarification of the requirement for type 0 Short Messages (revised T2-020542)	Vodafone Group, Eplus, mm02, Sonera	OP
T2-020580	CR 23.040 Rel-5 Clarification of the requirement for type 0 Short Messages (revised T2-020543)	Vodafone Group, Eplus, mm02, Sonera	OP
T2-020581	LS to T: Criteria's for selecting new classmarks (revised T2-020576)	SWG1	OP
T2-020582	LS to SA1 cc SA2 on IMS Messaging	SWG3	OP
T2-020583	CR 23.140 REL-5 MM7 stage 3 (revised T2-020535)	Ericsson, Nokia, Comverse, Logica, Openwave	OP
T2-020584	LS to SA5 cc CN5 on Charging Support for VASP MMS Connectivity (revised T2-020321)	SWG3	OP
T2-020585	not used		

Annex B Outgoing Documents

B.1 Change Requests submitted to TSG-T

The following CRs will be submitted to TSG-T#16 for approval:

"MExE" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.057	118	-	Rel-6	Restructuring of the MExE-specification	D	5.0.0	6.0.0	T2-020393	MEXE6-ENHANC

"Terminal Interfaces and Capabilities" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-	Vers-	T2 Tdoc	Workitem
27.005	003	-	R99	Correction in description of +CNMA	F	3.1.0	3.2.0	T2-020438	TEI
27.005	004	-	Rel-4	Correction in description of +CNMA	A	4.1.0	4.2.0	T2-020439	TI-ATC
27.007	085	-	Rel-6	Enhancement of AT command +CIND to indicate SMS rejection	B	5.1.0	6.0.0	T2-020429	TEI6

"SMS/CBS/EMS" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-	Vers-	T2 Tdoc	Workitem
23.040	049	-	Rel-5	Clarification of bit value combinations within TP-PI	F	5.3.0	5.4.0	T2-020488	TEI5
23.040	050	-	Rel-5	References to the TP-RD bit	F	5.3.0	5.4.0	T2-020490	TEI5
23.040	051	-	Rel-5	TP-DCS values for SIM data download	F	5.3.0	5.4.0	T2-020528	TEI5
23.040	052	-	R99	Clarification of the requirement for type 0 Short Messages	F	3.8.0	3.9.0	T2-020578	TEI
23.040	053	-	Rel-4	Clarification of the requirement for type 0 Short Messages	A	4.6.0	4.7.0	T2-020579	TEI4
23.040	054	-	Rel-5	Clarification of the requirement for type 0 Short Messages	C	5.3.0	5.4.0	T2-020580	TEI5
23.040	055	-	Rel-5	Occurrence of the Reply Address Element	F	5.3.0	5.4.0	T2-020565	TEI5
23.040	056	-	Rel-5	WVG Corrections and Clarifications	F	5.3.0	5.4.0	T2-020552	MESS5-EMS
23.040	057	-	Rel-5	WVG Corrections and Clarifications	F	5.3.0	5.4.0	T2-020553	MESS5-EMS
23.040	058	-	Rel-5	WVG Clarifications for websafe color	F	5.3.0	5.4.0	T2-020554	MESS5-EMS
23.041	009	-	R99	Update of references	F	3.4.0	3.5.0	T2-020512	TEI
23.041	010	-	Rel-4	Update of references	F	4.2.0	4.3.0	T2-020509	TEI4

"MMS" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-	Vers-	T2 Tdoc	Workitem
23.140	065	-	Rel-5	Parameters for CDR creation related to VASP/VAS connectivity via MM7	F	5.2.0	5.3.0	T2-020511	MESS5-MMS
23.140	066	-	Rel-5	Automatic Bearer Selection for MMS	B	5.2.0	5.3.0	T2-020532	MESS5-MMS
23.140	067	-	Rel-5	Charged Party Indication on MM7	B	5.2.0	5.3.0	T2-020533	MESS5-MMS
23.140	068	-	Rel-5	MM1 - MM7 and MM4 - MM7 header mapping	B	5.2.0	5.3.0	T2-020534	MESS5-MMS
23.140	069	-	Rel-5	MM7 stage 3	B	5.2.0	5.3.0	T2-020583	MESS5-MMS
23.140	070	-	Rel-5	Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	F	5.2.0	5.3.0	T2-020536	MESS5-MMS
23.140	071	-	R99	Encapsulation of a short message (SMS) in a multimedia message (MMS)	F	3.0.1	3.1.0	T2-020544	MMS
23.140	072	-	Rel-4	Encapsulation of a short message (SMS) in a multimedia message (MMS)	A	4.6.0	4.7.0	T2-020545	MMS
23.140	073	-	Rel-5	Encapsulation of a short message (SMS) in a multimedia message (MMS)	A	5.2.0	5.3.0	T2-020550	MESS5-MMS
23.140	074	-	Rel-5	MM1 and MM7 Interfaces: Message	B	5.2.0	5.3.0	T2-020547	MESS5-MMS

				Distribution Indicator.					
23.140	075	-	Rel-5	Consistent terminology	F	5.2.0	5.3.0	T2-020548	MESS5-MMS
23.140	076	-	Rel-5	Clarification of Persistent Network-based Storage: Store Status and Store Status Text throughout MM1 Reference Point	F	5.2.0	5.3.0	T2-020549	MESS5-MMS
23.140	077	-	Rel-5	Alignment of 3GPP TS 23.140 with 3GPP TS 26.140	F	5.2.0	5.3.0	T2-020551	MESS5-MMS
23.140	078	-	Rel-5	Binary Encoding of MMS Connectivity Information for storage on the USIM	F	5.2.0	5.3.0	T2-020559	MESS5-MMS
23.140	079	-	Rel-5	Additional information elements for the MM1 abstract messages.	F	5.2.0	5.3.0	T2-020560	MESS5-MMS
23.140	080	-	Rel-5	Clarifications	F	5.2.0	5.3.0	T2-020563	MESS5-MMS
23.140	081	-	Rel-5	Definition of Message Size in a CDR	F	5.2.0	5.3.0	T2-020564	MESS5-MMS
23.140	082	-	Rel-5	Correction of incomplete/inconsistent MM4 interface responsibility allocation for delivery reports.	F	5.2.0	5.3.0	T2-020570	MESS5-MMS

For T2 email approval:

For the following CRs, it is planned to have a one week email discussion period starting immediately after the meeting. After that, the CRs should go on a shortened e-approval period ending noon, Fri 31 May (12:00 GMT).

T2-020567	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec
T2-020568	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec

B.2 Liaison Statements

The following LSs have been sent from T2#17:

TDOC	Subject	Comments
T2-020323	LS to SA1 on MMS Stage 1 Requirements for REL-5 and REL-6	sent 14/04/2002
T2-020367	LS to SA1 on draft MMS Rel-6 WID	sent 14/04/2002
T2-020394	LS to SDR Forum: MExE contribution to the SDR Forum	sent 22/04/2002
T2-020405	LS to WAP Forum UAPProf group on Adding a CLIPPlatform tag to the UAPProf schema	sent 22/05/2002
T2-020434	LS to SA5 on UEM & 32.802	sent 18/05/2002
T2-020435	LS to SA1 on Priority Service	sent 22/02/2002
T2-020440	LS to SA2, SA1 on T2 Progress Report on GUP	sent 22/02/2002
T2-020513	LS to SA5, CN5 cc SA1, SA2 on JM SA5/CN5/T2 on VASP MMS charging	sent 14/04/2002
T2-020527	LS to SA5 cc CN5, SA1, SA2 on Service Operations Management on MM7	sent 21/05/2002
T2-020529	LS to T3 on TP-DCS values for SIM data download	sent 21/05/2002
T2-020530	LS to T3, SA1 on MMS configuration information in the USIM	sent 21/05/2002
T2-020531	LS to T3, SA1 on Automatic bearer selection for MMS delivery and submission	sent 21/05/2002
T2-020539	LS to SA1, GSMA-SERG on Use cases for VAS	sent 22/05/2002
T2-020557	LS to SA4 on Transfer of Responsibility for MMS Formats and Codecs	sent 22/05/2002
T2-020569	LS to GSMA BARG CPWP and SMS SC cc SA5 on message size definition	sent 22/05/2002
T2-020572	LS to SA1 cc T on preliminary draft MMS REL-6 WID	sent 22/05/2002
T2-020574	LS to SA3, SA1 on subscriber certificates	sent 22/05/2002
T2-020582	LS to SA1 cc SA2 on IMS Messaging	sent 22/05/2002
T2-020584	LS to SA5 cc CN5 on Charging Support for VASP MMS Connectivity	sent 21/05/2002
T2-020581	LS to T: Criteria's for selecting new classmarks	sent 23/05/2002

B.3 Reports/Specifications submitted to TSG-T

No specifications/reports to be forwarded to TSG-T#16.

B.4 Other documents submitted to TSG-T

The following other documents were agreed to be submitted to TSG-T#16:

TDOC	Subject
T2-020575	WID: Binary code execution feasibility study

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Total number of delegates: 64

Annex D: Report from SWG1 Execution Environment

T2-020381

Agenda Item: T2 Closing Plenary

Source: SWG1 Chair

Title: Report of SWG1

Document for: Approval

Executive Summary:

General:

24 delegates, 30 Tdocs, 5 output papers.

MEXE6-ENHANC Work Item:

- The restructuring of the MExE specification has been agreed upon.
- Sending an LS to WAP UAProf forum, asking them to create a CLIPlatform attribute.

MEXE5-SEC Work Item:

No work done.

The MExE group recommends, that the MExE security Analysis WID is being closed.

MEXE6-RTIF Work Item:

- A long discussion and clarification process took place, identifying more specifically some of the work that needs be done in this WID.

A draft technical report going into details with the topics raised, will be prepared for the next meeting.

Any Other Business:

- A new WID, “Binary execution feasibility study” was agreed.
- A presentation and discussion concerning a new WID called “Network Execution” took place. It was felt by the group that the WID did not belong in the MExE group. It was the groups recommendation, that the proposal should be presented for SA1, which then, during the 3GPP work item allocation process, will place the work item in the correct working group/sub working group (which might be MExE!).
- A presentation focussed on the security aspects of BREW was given.
- A presentation concerning more technical details about WIPI was given.
- An LS to the SDR forum explaining the work in the MExE group was agreed upon.
- An LS to T explaining the criteria’s for new classmarks was drafted and agreed upon.
- New rapporteur of the 23.057 specification is Lars Brenk, TTPCom.

Future Meetings:

Meeting	Date	Venue	Comment
MExE T2#18	June/July 12-16 August 2002	No meeting identified Velen, Germany	Materna
MExE T2#19	September/October 18-22 November 2002	No meeting identified Korea	Samsung

Output Change Requests:

Tdoc	Subject	SOURCE
T2-020393	CR: Restructuring of the MExE specification	Ericsson
T2-020406	WID: Binary code execution feasibility study	TTPCom / Qualcomm

		Qualcomm
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Output Liaison Statements:

Tdoc	Subject	SOURCE
T2-020394	LS to SDR: MExE contribution to the SDR Forum	MExE group
T2-020402	LS to T: Criteria's for selecting new classmarks	MExE group
T2-020405	LS to WAP Forum UAProf group	Microsoft

Detailed Report:

Opening of the meeting

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

Approval of the draft agenda

Tdoc	Subject	SOURCE
T2-020380	Agenda SWG1 MExE at T2#17	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.

Results of previous meetings

Meeting report

Tdoc	Subject	SOURCE

No ad hoc meetings held since last T2.

E-mail activity

Tdoc	Subject	SOURCE
T2-020383	e-mail approval status #4	Chairman

Tdoc presented by Lars Brenk, Chairman.

Conclusion:

Tdoc T2-020383 was noted.

Action Items and other issues

- Mike Smith to find a cleaning tool for Word documents, to remove bookmarks, etc
- Bo Johansson to create a new restructured version of the MExE specification from the 5.0 version.
- Ernest Woodward to lead an email discussion concerning the work in the MExE Security Analysis Activity WID.
- Nicola to lead a discussion on the email reflector (tdoc 85)
- Tobias to post information about new WAP download forum and draft an LS for email approval.
- Wendy Fong to post information and links concerning the JEFF format.

Action Items

Tdoc	Subject	SOURCE
T2-020398	Signed packages for installation of root certificates	Microsoft

Tdoc T2-020398 presented by Miller Abel, Microsoft.

The outcome of the analysis in this tdoc shows, that other signed packages apart from JAR files to be used as containers for root certificates. For example JEFF or CAB formats.

Conclusion:

T2-020398 was noted.

Others

Tdoc	Subject	SOURCE

No input.

Incoming LS

Tdoc	Subject	SOURCE

No input.

MExE Security Analysis Activity

Tdoc	Subject	SOURCE

No input.

MExE 22.057 contributions and change requests

Tdoc	Subject	SOURCE

No input.

MExE 23.057 contributions and change requests

Security

Tdoc	Subject	SOURCE

No input.

Non security

Restructuring of the MExE specification

Tdoc	Subject	SOURCE
T2-020382	Restructuring of the MExE specification	Ericsson
T2-020393	CR: Restructuring of the MExE specification	Ericsson

Tdoc T2-020382 presented by Bo Johansson, Ericsson.

The content of T2-020382 was agreed upon and was transformed into a CR (tdoc T2-020393).

Conclusion:

T2-020382 was noted.

T2-020393 was agreed.

Others

Tdoc	Subject	SOURCE
T2-020390	LS to WAP Forum UAPProf group	Microsoft
T2-020395	LS to WAP Forum UAPProf group	Microsoft
T2-020405	LS to WAP Forum UAPProf group	Microsoft

Tdoc T2-020390 presented by Miller Abel, Microsoft.

The content of T2-020390 was agreed upon in principle.

Minor textual modifications were made and represented in T2-020395, which were finalized in T2-020405.

Conclusion:

T2-020390 was noted.

T2-020395 was noted.

T2-020405 was agreed.

MExE Run-Time independent Classmark

Tdoc	Subject	SOURCE
T2-020391	Discussion Topics Towards a Requirements Analysis for a MExE Run-Time Independent Conformance Framework	Intel

Tdoc T2-020391 presented by Aaron Cohen, Intel.

The document raised quite some questions, and a lengthy discussion took place. Below are the summarized comments to the questions.

1. Issues which runtime environments may need to address in order to be compliant with MExE device behavioural requirements and claim conformance to the MExE RTIF.
 - 1) It's easy to make security implementations runtime for VM's, not so easy for binary code. Binaries needs lots of versions, to be able to execute on different platforms, OS's and chips. A hardware semantic barrier between binary applications and core code could be one way forward. Maybe executing the application on a different chip than the core software executes on, with different code needed, so there is absolutely no way for the two types of code to interflit. Embedded VM's on chip makes the execution faster all the time. The security has always first priority in MExE, then comes performance speed and capability. The binary examples, the MExE group had had presentations from, have dealt with end-2-end security, but not so much with runtime execution security. The topic of application portability between different platforms were mentioned. How is untrusted code handled by binary execution environments. Untrusted applications are a key part of MExE. The screen only security area for applications was mentioned (basically a blanket NO-permission from the user for network activity).
 - 2) As manufacturer you can do what you want, concerning additional API's.
 - 3) Difficult to provide a list of API's that have security restrictions (dependent of which domain). Interesting for developers. Manufacturers may need to give some idea how the API's are implemented. MExE will not approve these lists for all new classmarks. It could become a recommendation.
 - 4) The minimum RSA key-bit-length is not mandated.
 - 5) One root certificates for all classmarks. There are not certificate trees for each classmark.
 - 6) Jar files are not mandated for all classmarks. Maybe a secure independent transport format needs to be mandated.
 - 7) See 6).
 - 8) UAProf is needed for identifying the runtime support needed for new RTIF mappings. A scheme for how optional API's are identified is needed.
 - 9) A browser is the mean for application transfer mechanism.
 - 10) No API's need to be mandated for future RTIF mappings. What would the motivation be.
 - 11) See 10).
 - 12) It is recommended that the behaviour of non accessible API's are documented.

- 13) See 6).
 - 14) The USIM specification defines the directory names for the certificates stored there.
 - 15) It is recommended that it is documented how the security is maintained, if the security domains are not supported.
2. Issues that the platform management software may need to address in order to provide support for the RTIF.
- 1) The user shall be notified for each network access.
 - 2) There was difficulties understanding why the start and end points of an application needs clarification.
 - 3) Icon usage is for example specified for java in the MExE spec.
 - 4) The UAProf is not stable yet, so how it is used is for future work.
 - 5) No need to mandated HTML browsers
 - 6) No need to mandate any further content types.
3. Issues in the MExE Service Environment (MSE) that may need to be resolved in order to provide a consistent run-time independent framework.
- 1) A consistent mechanism to correlate between capabilities, provisioning, delivery and application management is needed.
 - 2) The capability attributes could be based on URI.
 - 3) Archive formats is an area were work is needed.
 - 4) HTTP is not mandated.
 - 5) The MExE service environment is out of the scope of MExE.
 - 6) How does the handset distinguishes between two jar-files, belonging either to classmark 2 or 3.
 - 7) The server may request the handset through SyncML (looked at by UAProf), but since the UAProf is not stable, this might change.
 - 8) Core software download is allowed as long as the certificate allows it.
4. Other issues in the MExE specification that may need to be resolved in order to provide a well defined run-time independent framework.
- 1) One classmark is still mandated to be supported. Might be changed.
 - 2) The only thing we could find was the minimum key-bit-length, that needs clarification.
 - 3) Archive formats needs more work.

A draft technical report going into details with the topics raised, will be prepared for the next meeting.

Conclusion:

T2-020391 was noted

Binary classmark investigation WID

Tdoc	Subject	SOURCE
T2-020388	Binary classmark investigation WID	TTPCom / Qualcomm
T2-020406	WID: Binary code execution feasibility study	TTPCom / Qualcomm

Tdoc T2-020388 presented by Lars Brenk, TTPCom.

Tdoc T2-020406 presented by Lars Brenk, TTPCom.

Textual changes were made to T2-020388, to make it clear that the WID is about a feasibility study, and not the introduction of a new classmark.

It was felt that this WID does not overlap the RTIF WID.

Conclusion:

T2-020388 was noted.

T2-020406 was agreed.

Tdoc	Subject	SOURCE
T2-020392	Discussion document - classmarks	Openwave

Tdoc T2-020392 presented by Lars Brenk, Chairman.

Conclusion:

T2-020392 was noted.

Tdoc	Subject	SOURCE
T2-020403	MExE feasibility study	MCC

Placed as input documents for information.

Conclusion:

T2-020403 was noted.

Tdoc	Subject	SOURCE
T2-020404	First MExE WID	MCC

Placed as input documents for information.

Conclusion:

T2-020404 was noted.

Network Execution WID

Tdoc	Subject	SOURCE
T2-020389	Network Execution in MExE WID	Media Farm

Tdoc T2-020389 presented by Srinivas Bharadwaj, Media Farm.

The following discussion clarified the term multimodality to mean enhanced MMI input/output features.

It was mentioned that the network execution work item might not belong under the MExE group.

It was the groups recommendation, that the proposal should be presented for SA1, which then, during the 3GPP work item allocation process, will place the work item in the correct working group/sub working group (which might be MExE!).

Conclusion:

T2-020389 was noted.

Tdoc	Subject	SOURCE
T2-020396	Presentation of Network execution	Media Farm

Tdoc T2-020396 presented by Srinivas Bharadwaj, Media Farm.

Tdoc T2-020396 presents reasons and use cases for the WID in T2-020389.

Conclusion:

T2-020396 was noted.

Presentations

Tdoc	Subject	SOURCE
T2-020387	BREW Presentation for MExE SWG	Qualcomm

Tdoc T2-020387 presented by Laurence Lundblade, Qualcomm.

The presentation was focused mainly on the security aspects of BREW, and initiated a lengthy discussion. Some of the topics were, that BREW has its own security concepts, which must be aligned to MExE.

Issues were raised that the hardware memory protection is not enough to prevent a buffer overload attack, by overflowing the stack, or changing pointer values in the stack to point outside the dedicated area for the executing application.

The recall procedure of applications in BREW is very closed.

The untrusted area in MExE is mandated. An issue was raised how BREW would deal with untrusted applications.

It was mentioned, that one of the successes of i-mode, was that it allowed access to all the unofficial i-mode services as well, this way targeting the consumer market of applications, and encouraging application developers to create new applications.

A white paper may be needed to distinguish between what BREW is today, and what Qualcomm propose to add to the MExE standard.

Conclusion:

T2-020387 was noted.

Tdoc	Subject	SOURCE
T2-020400	UE architecture picture	Siemens

Tdoc T2-020400 presented by Peter Neumann, Siemens.

The tdoc pictures the device architecture, seen from Siemens point of view.

One of the suggestions from Siemens (in consistence with other leading manufacturers), was that it might be an idea to stop creating more specific classmarks, but create a last general classmark, which consists of a API created by the MExE group, which could be used by all future execution environment technologies.

Conclusion:

T2-020400 was noted.

Tdoc	Subject	SOURCE
T2-020365	WIPI presentation	ETRI

Tdoc T2-020365 presented by Sang Jin Yoon, ETRI.

Some of the information that came out of the presentation and the following discussion were, that the first implementation of WIPI is for the ARM processor. It can download C/C++ and Java code, and its done in binary code!

The complete implementation takes up approximate 1 MB.

The Java version that is implemented in WIPI is not MIDP, but something alike (to avoid the licensing agreement from SUN).

Questions were raised concerning the security and how it is handled when talking about binary code.

The Java applications can be said to be secure, whereas the C/C++ applications can only be executed if they are from a trusted source.

3 handset models exist on the market today (Samsung and LG) with WIPI implementations.

Conclusion:

T2-020365 was noted.

Any other business

Tdoc	Subject	SOURCE
T2-020384	MExE contribution to the SDR Forum	MExE group
T2-020394	LS to SDR: MExE contribution to the SDR Forum	MExE group

Tdoc T2-020384 presented by Lars Brenk, TTPCom.

The content of T2-020384 had been distributed and discussed on the reflector, and after correcting some minor grammar-correction and removal of a reference to a MExE white paper, the LS was updated in T2-020394 and agreed upon.

Conclusion:

T2-020384 was noted.

T2-020394 was agreed.

Tdoc	Subject	SOURCE
T2-020385	New MExE classmark questions	Chairman
T2-020397	MExE answers	Microsoft
T2-020399	MExE answers version 2	Microsoft

T2-020401	MExE answers version 3	MExE group
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Tdoc T2-020385 presented by Lars Brenk, TTPCom.

Tdoc T2-020397 presented by Oshoma Momoh, Microsoft.

Tdoc T2-020399 presented by Oshoma Momoh, Microsoft.

Tdoc T2-020401 presented by Lars Brenk, TTPCom.

Tdoc T2-020385 raised a lot of questions concerning the working process of the MExE group. The questions have been answered in tdoc T2-020397, updated in T2-020399 and finalized in T2-020401.

During the lengthy discussion, a lot of different questions were raised.

The answers in T2-020401 are used as background material for the LS to T (T2-020402), explaining the criteria's for selecting new classmarks.

Conclusion:

T2-020385 was noted.

T2-020397 was noted.

T2-020399 was noted.

T2-020401 was noted.

Tdoc	Subject	SOURCE
T2-020402	LS to T: Criteria's for selecting new classmarks	MExE group

Tdoc T2-020402 presented by Lars Brenk, TTPCom.

Conclusion:

T2-020402 was agreed.

Tdoc	Subject	SOURCE
T2-020313	T2 specs status list	MCC

Tdoc T2-020313 presented by Lars Brenk, TTPCom.

The rapporteur of the MExE specification 23.057 was the topic. The group would like the rapporteur to be a person that is present at the meetings.

The MExE chairman (Lars Brenk) has contacted the current rapporteur (Mark Cataldo) and Mark Cataldo agreed to resign as rapporteur.

New rapporteur of the 23.057 specification is Lars Brenk, TTPCom.

Conclusion:

T2-020313 was noted.

Tdoc	Subject	SOURCE
T2-020315	Summary of T#15 issues of T2 interest	T2 secretary

Tdoc T2-020315 presented by Lars Brenk, TTPCom.

The topics concerning MExE were highlighted, and clarifications regarding the changes made by T to the RTIF WID were made clear.

The MExE group will ask, that the MExE security Analysis WID is being closed, due to lack of input and work done in the area.

Conclusion:

T2-020315 was noted.

Future meetings

Conferences with MExE relation

Strategically Deploying Wireless Java, 26th-28th June, Amsterdam, Netherlands

Surf to the 3GPP on-line meeting calendar (<http://www.3gpp.org>) for latest meeting and registration details.

Annex A – Complete Document List

APPROVED - OUTPUT TO T2

NOTED/APPROVED – NO OUTPUT TO T2

Meeting documents may be found at ftp://ftp.3gpp.org/TSG_T/WG2_Capability/TSGT2_17_Vancouver/Docs/

Tdoc	Subject	SOURCE
T2-020313	T2 specs status list	MCC
T2-020315	Summary of T#15 issues of T2 interest	T2 secretary
T2-020365	WIPI presentation	ETRI
T2-020380	Agenda SWG1 MExE at T2#17	Chairman
T2-020381	Report of SWG1 MExE at T2#17	Chairman
T2-020382	Restructuring of the MExE specification	Ericsson
T2-020383	e-mail approval status #4	Chairman
T2-020384	LS to SDR: MExE contribution to the SDR Forum	MExE group
T2-020385	New MExE classmark questions	Chairman
T2-020386	Withdrawn	
T2-020387	BREW Presentation for MExE SWG	Qualcomm
T2-020388	Binary classmark investigation WID	TTPCom / Qualcomm
T2-020389	Network Execution in MExE WID	Media Farm
T2-020390	LS to WAP Forum UAProf group	Microsoft
T2-020391	Discussion Topics Towards a Requirements Analysis for a MExE Run-Time Independent Conformance Framework	Intel
T2-020392	Discussion document - classmarks	Openwave
T2-020393	CR 23.057 Rel-6 Restructuring of the MExE specification	Ericsson
T2-020394	LS to SDR: MExE contribution to the SDR Forum	MExE group
T2-020395	LS to WAP Forum UAProf group	Microsoft
T2-020396	Presentation of Network execution	Media Farm
T2-020397	MExE answers	Microsoft

T2-020398	Signed packages for installation of root certificates	Microsoft
T2-020399	MExE answers version 2	Microsoft
T2-020400	UE architecture picture	Siemens
T2-020401	MExE answers version 3	MExE group
T2-020402	LS to T: Criteria's for selecting new classmarks	MExE group
T2-020403	MExE feasibility study	MCC
T2-020404	First MExE WID	MCC
T2-020405	LS to WAP Forum UAProf group	Microsoft
T2-020406	WID: Binary code execution feasibility study	TTPCom / Qualcomm

Annex B - Participants List

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Annex E: Report from SWG2 UE Interfaces and Capabilities

3GPP TSG-T2 #17
Vancouver, BC, Canada
13-17 May 2002

T2-0200421

Agenda Item: T2 Closing Plenary

Source: SWG2 Chair

Title: Draft Report of SWG2 Vancouver Meeting#17

Document for: Approval

ES Executive Summary

Topics discussed at this meeting included, *Generic User Profiles, User Equipment Management, AMR Codecs, Priority Services, UE Functionality Split, AT Commands, various IMS Liaison Statements and other logistics for future meetings, joint meetings, and meeting procedures.*

General:

The meeting was opened by Mr. Prem Sood on 16:32, 13th May 2002 and the delegates were welcomed to this meeting.

Alan Chau of Nokia volunteered to be the secretary of this meeting.

The proposed Agenda of the meeting in T2-020420 *was approved.*

Review of Progress on Action Items

Work Item 1828: AT Commands –

3 CRs from Siemens on the AT-Commands (27.007) and 27.005 *were processed*.

Work Item 2573: Terminal Local Model Enhancements

No input at this meeting.

Work Item xxxx: Generic User Profiles –

Presentations on the status of work for Generic User Profiles *were given*. A number of incoming LS's and docs were reviewed.

There was thorough discussion on the organization and conduct of the T2 work on the GUP. Preparation of a draft WID for the T2-only tasks is under preparation, and is pending the approval of a GUP WI split by SA1 and SA2. SWG2 decide that the T2 GUP work should be carried out in SWG2 meetings called with the dedicated objective of progressing the DDF-common objects work.

One Outgoing LS T2-020440 was approved.

Two meetings related to GUP work were approved – June 18-20 in Sweden hosted by Telia, and a proposed JM with SA5 in Tampere in the week of August 19-23.

Work Item xxxx: User Equipment Management –

A Joint Meeting with SA5 was held the week of April 2-4. Incoming LSs from SA5 and 32.802 *were reviewed*. T2-020434 response LS to SA5 with comments to TR 32.802 *was approved*.

Work Item 2563: UE Split –

SA3 LS was noted.

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

An incoming LS (Tdocs 428, 349, 010964) *was reviewed*.

IMS

3GPP

Incoming LS (Tdocs 341, 355, 360, 329, 358, 333) were reviewed.

Documents were reviewed.

One Outgoing LS, T2-020435 on Priority Service was approved..

Future Meetings:

Meeting	Date	Venue	Comment
SWG2 GUP	18 th -19 th June 2002	Sweden	Host Telia, location TBC
SWG2 #18	Aug. 12-16, 2002	Velen Germany	With T2 Meeting
JM with SA5 on GUP	Aug 19-23	Tampere	TBC - Will be Proposed to SA5.

Output Change Requests:

TDoc	Title	Source	Comment
T2-020438	CR 27.005 Rel-4 Correction in description of +CNM	Siemens	Agreed
T2-020439	CR 27.005 R99 Correction in description of +CNM	Siemens	Agreed
T2-020429	CR 27.007 Rel-6 Enhancement of AT command +CIND to indicate SMS rejection	Siemens	Agreed

Output Liaison Statements:

TDoc	Title	Source	Comment
T2-020440	LS to SA2 & SA1 on GUP DDF progress report	SWG2	Agreed
T2-020435	Response LS to SA1 on Priority Service Feasibility Study TR	SWG2	Agreed
T2-020434	Reply LS Response to SA5 on UEM and TR 32.802	SWG2	Agreed

Other documents for T2 Approval

TDoc No.	Title	Source	Status

ES Detailed Report

1. Opening of the meeting

The Chair of SWG2, Mr. Prem Sood, Sharp, opened the meeting at 04:32 pm on Monday May 13, 2002.

Alan Chau of Nokia volunteered to act as the meeting secretary.

The Chair welcomed everyone to Vancouver BC and thanked the North American Friends of 3GPP for hosting the meeting.

At the opening of SWG2 there were 15 attendees.

1.1. Approval of the proposed Agenda

Document – T2-020420

TDoc No.	Title	Source	Status
T2-020420	SWG2 draft meeting agenda	SWG2 Chair	Approved

Presented by –

Chairman.

Resolution –

Approved.

1.2. Joint Meetings Schedule

None scheduled.

1.3. Review of previous Action Points

Tdoc Draft1 T2-020421

AP Description	Assigned to	Status	Comments
Action 15.2, 15.3, 15.4, 15.5 to review documents related to Generic User Profiles.	All SWG2	Due T2#17	Continued
Action 16.1 to inform the SA#14 status of 3GPP-specific SIP client and access independence to the T2 email reflector.	Gunilla Bratt		Closed
Action 16.2 to review TR22.941 in T2-020037 and provide comments	All SWG2	Due T2#17	Closed
Action 16.3 – Documents T2-020111, 112 postponed to circulation on the Reflector	GUP Chair	Due T2#17	Closed
Action 16.4 – Draft a paper to address the architecture solution for MMS UICC portability and circulate on Reflector	I. Leuca	End of Feb.	Pending

1.4. Appointment of Rapporteurs

No Rapporteur found for the TS 27.007/07.07 AT Command

Kevin Holoubek will take on the Rapporteurships for GUP DDF (23.241) and Common Objects (24.241).

2 Items for immediate discussion.

2.1 UMTS_AMR2 codec

Tdocs 428, 349, 010964

TDoc No.	Title	Source	Status
T2-020428	TSG-T, TSG-SA Decision on UMTS_AMR2 codec	Sharp	Noted.
T2-020349	LS from TSG-T on FORWARDED LS from SA4 on mandatory support of UMTS AMR2 in dual mode terminals	S4-020223	Noted.

Presented by – .

Prem Sood

Discussion –

Resolution –

For information only.

2.2 Generic User Profiles

Tdocs 425, 426, 427, 337, 332, 423, 433, 424, 353, 354, 356, 359, 363, 339, 362, 340

Document – T2-020xx

3GPP

TDoc No.	Title	Source	Status
T2-020425	TSG-T Decision on GUP Work	T	Noted
T2-020426	TSG-SA Decision on GUP work	SA	Noted
T2-020427	GUP Work Organization e-mail March 26		Noted
T2-020433	Summary of Joint GUP ad hoc in April	Joint GUP ad hoc	Noted
T2-020337	LS from SA1 GUP time scales (To: SA; cc: T2)	SA1	Noted
T2-020332	LS from SA1 on Generic User Profile Stage 1	SA1	Noted
T2-020423			withdrawn
T2-020424	Report of Joint GUP ad hoc meeting 2-5 April, Cork Ireland	Joint GUP ad hoc	Noted
T2-020436	LS on transfer of the Generic User Profile Work	Joint GUP ad hoc	Noted
T2-020353	Reply LS on "Relationship of GUP to Subscription Management" from T2 (T2-020114)	SA5	Noted
T2-020354	LS on co-ordination of data definitions, identified in GUP development	SA5	Noted
T2-020356	Response to LS on coordination of data definitions, identified in GUP development	CN4	Noted with action 17.2.
T2-020359	LS from SA2 on GUP work progress	SA2	Noted
T2-020363	LS from SA2 on GUP Work Item Description and DDF	SA2	Noted. Draft WID in 437
T2-020339	LS Reply to "Comments on UP-010141 and relationship of GUP to Subscription Management"	SA2	Noted
T2-020362	Reply to Liaison Statement on co-ordination of data definitions, identified in GUP development	CN5	Noted
T2-020340	LS Reply to "Status of the Generic User Profile Work"	SA2	Noted and sent to the June SWG2 meeting to handle

Discussion –

There was a discussion about forming a separate DDF-common object drafting group under SWG2.

SA plenary has mandated that no ad hoc group is allowed

It was suggested that there were two options:

- ❖ Dedicated separate group for DDF and common objects
- ❖ Under the umbrella of SWG2, the work will be handled directly by SWG2

Resolution –

It was agreed that GUP DDF and Common Object works would be carried out under SWG2 directly. We will propose to SA5 a joint meeting with them at their August meeting in Tampere.

Document – T2-020437

TDoc No.	Title	Source	Status
T2-020437	Proposed DRAFT WID for DDF and Common Objects	SWG2	Noted

Presented by –

Kevin Holoubek.

Discussion –

This is a Proposed DRAFT WID for DDF and Common Objects.

Resolution –

The document is treated as an internal SWG2 document. The WID will not be sent to the T2#17 and T#16 for approval. It is targeted for approval at T2#18.

Document – T2-020440

TDoc No.	Title	Source	Status
T2-020440	LS to SA2 & SA1 on GUP DDF progress report	SWG2	Agreed

Presented by –

Kevin Holoubek.

Discussion –

This is a reply LS informing SA2 the T2 status of the work on DDF and Common objects, TS's 23.241 and 24.241.

Telia offer to host a SWG2 meeting in June 18th -19th to start the DDF and common objects work.

Resolution –

The LS is agreed. The Meeting in June is agreed.

Meeting invitation will be sent out next week by Telia.

Document – T2-020441

TDoc No.	Title	Source	Status
T2-020441	GUP information model	Joint GUP ad hoc	Agreed in SWG2 internally.

Presented by – .

Bo Johansson

Discussion –

This discussion document proposes an information model for Generic User Profile data to be used in TS 23.240 or TS 23.241.

Resolution –

This document is agreed internally within SWG2. The next meeting will decide how it should be incorporated into the corresponding specifications.

Document – T2-020442

TDoc No.	Title	Source	Status
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T2-020442	Proposal of changes to 23.241 Annex B	Ericsson	Agreed in SWG2 internally.
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Presented by –

Bo Johansson

Discussion –

This discussion document proposes changes in TS 23.241 AnnexB.

Resolution –

This document is agreed internally within SWG2.

Document – T2-020443

TDoc No.	Title	Source	Status
T2-020443	23.241 v0.3.0 updated	Ericsson	Agreed in SWG2 internally.

Presented by –

Bo Johansson

Discussion –

This discussion document proposes changes to 23.241 v0.3.0. In section 4.1, the figure 2 is not aligned with the information model. There are a number of typo errors.

Resolution –

This document is agreed internally within SWG2.

Document – T2-020444

TDoc No.	Title	Source	Status
T2-020444	DDF files and examples	Ericsson	Noted

Presented by – .

Bo Johansson

Discussion –

This document contains the XML-schema files and XSLT-files, which are a part of the Data Description Framework (23.241) and some examples of data descriptions. This is mainly a collection of already presented material.

Resolution –

The purpose of this document is to let delegates to learn how DDF works.

Document – T2-020445

TDoc No.	Title	Source	Status
T2-020445	TS 24.241 V0.3.0 GUP Common Objects, Stage 3	Ericsson	Noted

Presented by – .

Bo Johansson

Discussion –**Resolution –**

For information only.

Document – T2-020446

TDoc No.	Title	Source	Status
T2-020446	Work in Progress for the Joint GUP Ad-hoc	Ericsson	Noted

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Presented by – .

Bo Johansson

Discussion –**Resolution –**

For information only.

3.3 IMS

Tdocs 341, 355, 360, 329, 358, 333,

Document – T2-020xx

TDoc No.	Title	Source	Status
T2-020341	LS on Prefix allocation for IPv6 stateless address auto configuration	SA2	Noted
T2-020355	Response LS LS on Prefix allocation for IPv6 stateless address auto configuration	CN3	Noted
T2-020360	Response to the LS on "IPv6 update of stage 3 specifications"	SA2	Noted

Presented by – .

Prem Sood

Discussion –**Resolution –**

3GPP

For information only.

Document – T2-020xx

TDoc No.	Title	Source	Status
T2-020329	LS on ISIM for support of IMS	SA1	Noted
T2-020358	LS on the use of USIMs and ISIMs for IMS	SA3	Noted

Presented by – .

Prem Sood

Discussion –

Resolution –

For information only.

Document – T2-020333

TDoc No.	Title	Source	Status
T2-020333	LS on "sip compression" (cc: T2)	SA2	Noted

Presented by – .

Prem Sood

Discussion –

Resolution –

3GPP

For information only.

3.4 UE Management

Tdocs 422, 342, 361

Document – T2-020422

TDoc No.	Title	Source	Status
T2-020422	Report for joint SA5 SWG-A and T2 SWG2 meeting on UEM in April Cork, Ireland	SA5	Noted

Presented by – .

Prem Sood

Discussion –

This report is for information only

Document – T2-020342

TDoc No.	Title	Source	Status
T2-020342	Reply Liaison Statement on the User Equipment Management Feasibility Study (SA5's TR 32.802)	SA3	Noted

Presented by – .

3GPP

Prem Sood

Discussion –

This LS is for information only and no action is required from T2.

SA3 acknowledge that it has a role in providing security solutions for UEM in Release 6 and will create a corresponding SA3 work item for the security building block that is proposed in clause 8 of the TR. SA3 would like to note that it may be possible to make use of security solutions developed by the MExE group (TSG T2 SWG1) for securing the download of manufacturer software to the UE and for the secure configuration of the UE by the operator.

SA3 have not identified any major issues with the security aspects discussed in the TR. Therefore, SA3 have not identified any security-related changes would be required before the TR is presented to SA.

Document – T2-020361, 434

TDoc No.	Title	Source	Status
T2-020361	LS on UEM and TR 32.802	SA5	Noted
T2-020434	Reply LS Response to SA5 on UEM and TR 32.802	T2	Agreed

Presented by – .

Kevin Holoubek.

Discussion –

T2-020361 SA5 asks T2 group confirm to SA5 SWG-A by 19 May 2002 that TR 32.802 can be sent to TSG SA#16 for approval. If not, what changes need to be made to the TR before submitting it for approval?

T2-020434 This is a reply LS to SA5 with proposed changes on TR 32.802. Two areas of modification which T2 SWG2 would like to call attention are as follows ...

- **Consistency in the use of “UE Manager” and “UEM Manager”:** all instances were changed to UE Manager. Note: the label “UEM Manager” was changed to “UE Manager” in Figure 4, although no change bars are indicated.
- **Confusion concerning the value of the four columns “Customer Care”, “Network Operations”, “CRM”, and “UE Manufacturer” in the Paragraph 4 table:** the columns were removed. It was not clear why this information existed for some requirements and not for others, as well as the intention of the information. As such, it is suggested these columns be removed. Note: a confusing aspect of Paragraph 4 is that some of the requirements are given in table format, and some in outline format, though the reason for this is not understood. In some instances, it seems requirements may be duplicated and descriptions do not always contain consistent types of information. T2 SWG2 did not attempt to reconcile these differences, but want to call it to attention for future work.

Resolution –

The LS with proposed changes by SWG2 was agreed unanimously to be sent to SA5.

3.5 AT Commands

TDoc No.	Title	Source	Status
T2-020429	CR 27.007 Rel-6 Enhancement of AT command +CIND to indicate SMS rejection	Siemens	Agreed
T2-020430	CR 27.005 Rel-5 Correction in description of +CNMA	Siemens	Replaced in 438
T2-020431	Explanations for CR to +CNMA	Siemens	Noted
T2-020438	CR 27.005 Rel-4 Correction in description of +CNM	Siemens	Agreed
T2-020439	CR 27.005 R99 Correction in description of +CNM	Siemens	Agreed

Presented by – .

Jurgen Lehmann.

Discussion –**Resolution –**

All CRs are agreed.

4.1 UE Functionality Split

Tdocs 344,

Document – T2-020344

TDoc No.	Title	Source	Status
T2-020344	LS on Security for UE functional split, reply to S1-020300	SA3	Noted

Presented by – .

Prem Sood

Discussion –

AT&T reported that SA1 and SA3 had the joint UE F/S meeting. The security issues still have not been resolved with regard to the splitting call control between the MT and TE.

Resolution –

Noted.

4.2 Application and User Interaction (Terminal Local Model).

No input for this meeting.

4.3 Priority Service

Tdocs 331, 435,

Document – T2-020331

TDoc No.	Title	Source	Status
T2-020331	LS on Priority Service Feasibility Study TR (cc: T2)	SA1	Noted
T2-020435	Response LS to SA1 on Priority Service Feasibility Study TR	SWG2	Agreed

Presented by –

Ed Erlich.

Discussion –

This LS contains the SA1 Priority Service Feasibility Study TR for review and comments.

Resolution –

T2 has reviewed the draft Feasibility Study on Priority Service (TR22.950 V 1.0.0) and does not have any specific comments to provide. T2 note that the TR states that ‘multimedia and non-circuit switched aspects of Priority Service have not been addressed in this feasibility study and are for further study’. T2 would like to be informed regarding any subsequent SA1 WI or Feasibility Study which would examine the use of Priority Service with MMS or SMS.

5. Review of WI’s progress, SWG2 and T2 relevant items in 3GPP work plan.

Tdocs 318, 319

Document – T2-010

TDoc No.	Title	Source	Status
T2-0200xx	3GPP work plan	MCC	Noted

3GPP

Presented by –

Friedhelm Rodermund

Discussion –**Resolution –**

Not reviewed.

6. Approval of Output Documents for T2 Approval.

TDoc No.	Title	Source	Status
T2-020435	Response LS to SA1 on Priority Service Feasibility Study TR	SWG2	Agreed
T2-020438	CR 27.005 Rel-4 Correction in description of +CNM	Siemens	Agreed
T2-020439	CR 27.005 R99 Correction in description of +CNM	Siemens	Agreed
T2-020429	CR 27.007 Rel-6 Enhancement of AT command +CIND to indicate SMS rejection	Siemens	Agreed
T2-020440	LS to SA2 & SA1 on GUP DDF progress report	SWG2	Agreed
T2-020434	Reply LS Response to SA5 on UEM and TR 32.802	SWG2	Agreed

6.2 Meeting Report of this SWG2 Meeting

T2-020421	Report of T2 SWG2 #17		

7. Deferred Items

No

8. Any Other Business

No

9. Future Meetings, Time Requirements

See Executive summary.

10 Close of the Meeting

The meeting was closed on Monday May 13 at 18:10.

To restart on Tuesday May 14 at 09:00am. Closed at 18:10 on Tuesday

To restart Wed at 09:00am. Closed at 6pm on Wednesday to restart at 09am Thursday.

Meeting adjourned at 16:36pm on Thursday May 16, 2002.

10.1. List of New Action Points added at this meeting

AP Description	Assigned to	Status	Comments
17.1 Review 27.104 (v object) to see if it is still needed, and provide inputs if required	All	Due T2#18	
17.2 SWG2 GUP to consider implementing the CN4 recommendation on "Choice Construct" and generate a response when the action is planned.	SWG2 GUP	Due T2#18	
17.3 SWG2 Chair contact SA5 to arrange the JM in August	SWG2 Chair		

Annex A List of all temporary documents

SWG2 WKG1 Document List

T2#17 Vancouver, BC. 12-15

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	Resolution
T2-020329	LS from SA1 on ISIM for support of IMS	S1-020579	SWG2	Noted
T2-020331	LS from SA1 on Priority Service Feasibility Study TR - draft	S1-020642	OP, SWG2	Noted
T2-020332	LS from SA1 on Generic User Profile Stage 1	S1-020660	SWG2	Noted
T2-020333	LS from SA2 on "sip compression"	S2-020859	SWG2	Noted
T2-020337	LS from SA1 on Generic User Profile (GUP) time scales	S1-020571	SWG2	Noted
T2-020339	LS from SA2 on Comments on UP-010141 and relationship of GUP to Subscription Management	S2-020887	SWG2	Noted
T2-020340	LS from SA2 on Status of the Generic User Profile Work	S2-020886	SWG2	Noted, forward to June Meeting
T2-020341	LS from SA2 on Prefix allocation for IPv6 stateless address autoconfiguration	S2-020910	SWG2	Noted
T2-020342	LS from SA3 reply on the User Equipment Management Feasibility Study	S3-020136	SWG2	Noted
T2-020344	LS from SA3 reply on Security for UE functional split	S3-020166	SWG2	Noted
T2-020349	LS (forwarded from TSG-T) from SA4 on mandatory support of UMTS AMR2 in dual mode terminals	TP-020057	SWG2	Noted
T2-020353	LS from SA5 on Relationship of GUP to Subscription Management	S5-022009	SWG2	Noted
T2-020354	LS from SA5 on co-ordination of data definitions, identified in GUP development	S5-022017	SWG2	Noted
T2-020355	LS from CN3 on IPv6 update of stage 3 specifications	N3-020361	SWG2	Noted
T2-020356	LS from CN4 on coordination of data definitions, identified in GUP development	N4-020463	SWG2	Noted with action to DDF ad-hoc
T2-020358	LS from SA3 on the use of USIMs and ISIMs for IMS	S3-020167	OP, SWG2	Noted
T2-020359	LS from SA2 on GUP work progress	S2-021513	OP, SWG2	Noted
T2-020360	LS from SA2 on IPv6 update of stage 3 specifications	S2-021521	SWG2	Noted

T2-020361	LS from SA5 on User Equipment Management Feasibility Study (TR 32.802)	S5-020433	SWG2	Draft LS & 32.802 in 434
T2-020362	LS from CN5 on co-ordination of data definitions, identified in GUP development	N5-020439	SWG2	Noted
T2-020363	LS from SA2 on GUP Work Item Description and DDF	S2-021514	SWG2	Response LS 437
T2-020420	Agenda SWG2#17	SWG2 Chair	SWG2	Approved.
T2-020421	Meeting Report SWG2#17	SWG2 Chair	SWG2	AP's reviewed
T2-020422	Report/agenda of Cork UEM-JM with SA5	T2 JM Co-Chair	SWG2	Noted
T2-020423	Report/agenda of T2-GUP Cork Meeting	T2-GUP Chair	SWG2	WITHDRAWN
T2-020424	Report/agenda of UP-10 Cork Joint GUP-AH	GUP-AH Chair	SWG2	Noted
T2-020425	TSG-T Decision on GUP Work	SWG2 Chair	OP, SWG2	Noted
T2-020426	TSG-SA Decision on GUP work	SWG2 Chair	OP, SWG2	Noted
T2-020427	GUP Work Organization e-mail March 26	SWG2 Chair	SWG2	Noted
T2-020428	TSG-T, SA Decision on UMTS_AMR2 codec	SWG2 Chair	SWG2	Noted
T2-020429	CR 27.007 Extention of +CIND	Siemens	SWG2	Approved. Output to T2
T2-020430	CR 07.05/27.005 Correction of +CNMA	Siemens	SWG2	Revised to 3438, 439
T2-020431	Explanation for CR to +CNMA	Siemens	SWG2	Noted
T2-020432	status of GUP work	Ericsson	SWG2	Noted
T2-020433	GUP Presentation	GUP-AH, UP-020060	SWG2	Noted
T2-020434	LS Response to SA5 on UEM & 32.802		SWG2	Approved. Output to T2
T2-020435	LS Response to SA1 on Priority Service		SWG2	Approved. Ouput to T2
T2-020436	LS from GUP-AH UP-10 on Transfer of Work	UP-020053	SWG2	Noted
T2-020437	Draft WID on T2 GUP work	Motorola	SWG2	Noted
T2-020438	CR 07.05/27.005 Correction of +CNMA REL 99		SWG2	Approved. Output to T2
T2-020439	CR 07.05/27.005 Correction of +CNMA REL4		SWG2	Approved. Output to T2
T2-020440	LS to SA2 T2 Progress Report to SA2 on GUP		SWG2	Approved. Output to T2
T2-020441	GUP Information Model	UP-020043	SWG2	Noted & Agreed.
T2-020442	TS23.241 Updated Annex B	UP-020025	SWG2	Noted & Agreed

T2-020443	TS23.241 version 0.3.0 updated	UP-020026	SWG2	Noted & Agreed
T2-020444	DDF files and examples	UP-020027	SWG2	Noted
T2-020445	TS24.241		SWG2	Noted & Agreed
T2-020446	GUP Work in Progress Information		SWG2	Noted

Annex B List of Participants

DELEGATE	ORGANIZATION	E-MAIL
Prem Sood (Chair)	Sharp	pls@sharplabs.com
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Annex F: Report from SWG3 Messaging

3GPP TSG-T WG2#17

T2-020577

Vancouver, BC, Canada

13th – 17th May 2002

Agenda Item: T2 Closing Plenary

Source: SWG3 Chair

Title: Report of SWG3

Document for: Approval

Executive Summary:

General:

34 delegates attended the SWG3 sessions on SMS, EMS, CBS and MMS at T2#17. A total number of 109 documents was processed, thereof 18 documents on SMS, 7 documents on EMS, and 81 documents on MMS. REL-5 of MMS specification 3G TS 23.140 was finalised.

3 MMS documents (LSs) and 2 CBS-related documents (CRs) were deferred to T2#17 closing plenary. Another 2 EMS-related documents (CRs) were posted to SWG3 email discussion with subsequent T2 e-approval.

10 MMS documents needed to be postponed to future meetings.

SMS:

7 CRs to 3G TS 23.040 on SMS were approved, T2-020488, T2-020490, T2-020528, T2-020541, T2-020542, T2-020543, T2-020565.

In addition a LS to T3 on TP-DCS values for SIM data download was agreed, T2-020529.

EMS:

EMS REL-5:

Three corrections and clarifications to WVG in EMS REL-5 were approved, T2-020552, T2-020553, T2-020554.

Postponed EMS matters:

Two other REL-5 EMS CRs on WVG could not be concluded during the meeting and are postponed to a one-week SWG3 email discussion and subsequent shortened, one-week, T2 email approval: T2-020567 and T2-020568.

MMS:

MMS REL-5 finalisation:

During T2#17 the MM7 stage 3, the implementation of the connection of a VASP to an MMS Relay/Server was finalised.

Some MM7 stage 2 corrections resulted from the discussions on MM7 stage 3:

- Correction of address visibility
- MM1 / MM7 and MM4 / MM7 header mapping
- Update of list of possible CDR entries

New SA#15 approved REL-5 MMS stage 1 requirements analysed and implemented were needed:

- Charged party indicator on MM7

Others:

- Message size definition as requested by BARG.
- Message distribution indicator
- Inclusion of MIME type for SMS encapsulation and alignment with MMS codec spec, 26.140
- Other corrections to the existing REL-5 specification

As a result 3G TS 23.140 REL-5 is now completed.

MMS REL-6:

Discussions of documents on MMS REL-6 matters had to be postponed due to lack of time. However, a preliminary draft WID, T2-020571, was created which is to be send for information to SA1 and T#16.

Postponed MMS matters:

Due to lack of time the following documents had to be postponed to the next meeting:

- MMS REL-4:
 - T2-020522, T2-020522
- MMS REL-5:
 - T2-020322, T2-020496
- MMS REL-6:
 - T2-020463, T2-020464, T2-020486, T2-020487, T2-020524, T2-020526

CBS:

Postponed CBS matters:

Due to lack of time CBS was not dealt with. The two CBS CRs, T2-020509 and T2-020512, are deferred to the T2#17 closing plenary.

Deferred Outbound LSs

Two LSs were planned to be send from T2#17 but could not be finalised during SWG3 sessions. These LSs, T2-020569, T2-020572 are deferred to the T2#17 closing plenary.

T2-020573 was not discussed in SWG3 and is deferred to the T2#17 closing plenary.

Future Meetings:

Meeting	Date	Venue	Comment
JM SA1 / T2	Tbd	Tbd	T2 identified an urgent need for a JM – JM is subject to SA1 confirmation; Scope of MMS REL-6

T2#18	12-16 Aug 2002	Velen, Germany	Co-located with SA5 meeting; MMS REL-6 charging issues
JM SA5 / T2	T2 Suggestion: Monday, 19 Aug 2002 - subject to SA5 confirmation	Tampere / Finland	
T2#19	18-22 Nov 2002	Korea	

Output Change Requests:

SMS:

Document #	Subject	Source	Comments
T2-020488	CR 23.040 REL-5 Clarification of bit value combinations within TP-PI	Logica, Siemens	
T2-020490	CR 23.040 REL-5 References to the TP-RD bit	Siemens	
T2-020528	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	revision of T2-020489
T2-020541	CR 23.040 R99 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	revision of T2-020475
T2-020542	CR 23.040 Rel-4 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	revision of T2-020476
T2-020543	CR 23.040 Rel-5 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera, Telia	revision of T2-020477
T2-020565	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	revision of T2-020491

EMS:

Document #	Subject	Source	Comments
T2-020552	CR 23.040 REL-5 corrections to WVG in EMS	Motorola, Bijitec	revision of T2-020492

T2-020553	CR 23.040 REL-5 clarifications to WVG in EMS	Motorola, Bijitec	revision of T2-020492
T2-020554	CR 23.040 REL-5 Websafe color palette in WVG in EMS	Motorola, Bijitec	revision of T2-020492

MMS:

Document #	Subject	Source	Comments
T2-020468	CR 23.140 Rel-5 Encapsulation of a short message in a multimedia message	Alcatel	
T2-020511	CR 23.140 Rel-5 Parameters for CDR creation related to VASP/VAS connectivity via MM7	Comverse	
T2-020532	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	revision of T2-020484
T2-020533	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	revised T2-020485
T2-020534	CR 23.140 REL-5 MM1-MM7 and MM4-MM7 header mapping	Ericsson	
T2-020535	CR 23.140 REL-5 MM7 stage 3	Ericsson, Nokia, Comverse, Logica, Openwave	revision of T2-020500
T2-020536	CR 23.140 REL-5 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient les	SWG3#11	revision of T2-020478
T2-020544	CR 23.140 R'99 Encapsulation of a short message in a multimedia message	Alcatel	
T2-020545	CR 23.140 Rel-4 Encapsulation of a short message in a multimedia message	Alcatel	
T2-020547	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	revision of T2-020537
T2-020548	CR 23.140 REL-5 consistent terminology	Siemens	revision of T2-020479
T2-020549	CR 23.140 REL-5 Store status in stage 2 features	Openwave	resulted from T2-020479
T2-020550	CR 23.140 Rel-5 Encapsulation of a short message in a multimedia message	Alcatel	revision of T2-020468
T2-020551	CR 23.140 REL-5 Alignment of 23.140 with 26.140	Siemens, Nokia	revision of T2-020480

T2-020559	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	revision of T2-020521
T2-020560	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	Schlumberger Sema, Teleca	revision of T2-020505
T2-020563	23.140 v5.2.0 clarifications	Telia	revision of T2-020504
T2-020564	CR 23.140 REL-5 Message Size	Teleca, Openwave	
T2-020570	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	revision of T2-020562

Output Liaison Statements:

Document #	Subject	Source	Comments
T2-020321	LS to SA5 on Charging Support for VASP MMS Connectivity	Comverse	reply-LS to T2-020346
T2-020527	reply-LS to SA5-SWGA on T2-020352 on Service Operations Management on MM7	Nokia	
T2-020529	LS to T3 on TP-DCS values for SIM data download	Siemens	
T2-020530	LS to T3 and SA1 on MMS configuration information in the USIM	Siemens	
T2-020531	LS to T3 and SA1 on Automatic bearer selection for MMS delivery and submission	Siemens	
T2-020539	LS to SA1 and GSMA-SERG on Use cases for VAS	Telia	
T2-020557	reply-LS to T2-020338 on MMS codecs	Nokia	
T2-020574	reply-LS to SA3 on T2-020343 (subscriber certificates)	Comverse	revision of T2-020525

Tdocs deferred to T2#17 closing plenary:

CBS

Document #	Subject	Source	Comments
T2-020509	CR 23.041 Rel-4 Update of references	Teleca	POSTPONED TO T2#17-CP
T2-020512	CR 23.041 R99 Update of references	MCC	POSTPONED TO T2#17-CP

Outbound LSs

Document #	Subject	Source	Comments
T2-020569	LS-reply to T2-020325 to BARG and SA5 on message size definition	Vodafone	POSTPONED TO T2#17-CP
T2-020572	LS to SA1 cc T on preliminary draft MMS REL-6 WID	Openwave	POSTPONED TO T2#17-CP
T2-020573	LS to SA1 on IMS Messaging	Openwave, Comverse, Schlumberger Sema	POSTPONED TO T2#17-CP

Tdocs postponed to email debate / approval

Document #	Subject	Source	Comments
T2-020567	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	revision of T2-020555; POSTPONED TO EMAIL DISCUSSION AND APPROVAL
T2-020568	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	revision of T2-020555; POSTPONED TO EMAIL DISCUSSION AND APPROVAL

Detailed Report:

General:

The Chairman, Josef Laumen (Siemens), welcomed delegates and Tim Ambrose (Hutchison 3G) was appointed as secretary

The Agenda was approved in T2-020460.

Publication of Soap Schema

This is important but not essential for REL-5 completion of 23.140 and will be completed as soon as a suitable URL can be determined.

Incoming liaisons

Tdoc	Title	Source	Comment
T2020325	Message Volume Measurement Methods	BARG CPWP	

Discussion:

Rami explained that this is a request for non-linear volume based billing but in a way that is common between operators.

Ileana said that is showed the difference between recording and billing. However, Rami maintained that all MMS R/Ss need to use the same method of size measurement. What is done with the data is not for this group. T2 needs to check that current CDR definition is adequate and do a change if necessary.

Conclusion:

Noted, this topic will discussed in greater dept later in the agenda,

Tdoc	Title	Source	Comment
T2020327	Digital Rights Management (DRM)	SA1	

Discussion:

There is nothing here for T2 to do. SA1 needs to define more clearly what is required of T2. This is big subject and will most likely require some joint meetings.

Apparently, the DRM stage1 is approx 50% complete, but is not clear which other groups will be involved in stage2/3 work, though was this is clearer, T2 should work closely with these groups.

Eskil said that T2 needs to be sensitive to the needs of the Market and we cannot wait for S1 to complete their work, - there are contributions ready for discussion this week that need to be seriously considered.

Rami explained that we need a means to encourage the distribution of content in a way that generates secure revenues. However, the use cases in the stage 1 do not so far include messaging.

Conclusion:

Noted. However, after this topic is discussed further a LS may be generated

Tdoc	Title	Source	Comment
T2020328	Draft Push Service Stage 1	SA1	

Discussion:

Delegates should read the spec in their own time and bring any comments to the meeting.

Rami pointed out that some aspects of the stage one are contradictory to MMS. Comverse will create an input paper (524)

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2020330	Packet switched streaming service stage 1	SA1	

Discussion:

Even though the LS was sent in Feb 02, we did not receive it!

Delegates should read the spec in their own time and bring any comments to the meeting.

Conclusion:

Noted.

Tdoc	Title	Source	Comment
T2020334	SA2 reply on: "Draft Push Service Stage 1		

Discussion:

Conclusion: Noted

Tdoc	Title	Source	Comment
335	3GPP TSG SA WG 1 MMS SWG	SA1	

Discussion:

Conclusion: Noted

Tdoc	Title	Source	Comment
T2020336	Support of "Recipient Party pays	SA1	

Discussion: This was discussed in Seattle. Ian Harris drafted an LS for this meeting.

Four positions were put forward in Seattle

- 1) No changes allowed to R5
- 2) Service code could be used
- 3) Service code not enough
- 4) MM1 needs updating to provide AOC.

This is a big debate and will be discussed later. T2 needs to agree on a common position before sending a response.

Conclusion: Noted, Proposed Reply in 322.

Tdoc	Title	Source	Comment
T2-020338	transfer from T2 to SA4 of responsibility for MMS formats and codecs	SA4	

Discussion: Rami pointed out that we are not complying with the requirement to have SDP information attached the notification in 26.233 as this was deferred to release 6. He also questioned whether the use of SA4 AAC was valid as the market generally uses MP3. As most users have MP3 players and content comes in SA4 AAC format, transcoding will be required. Ville and Ian recommended that comments on choice of Codec should be confined to SA4. It was questioned what is the relationship PSS server entity and the MMS server.

Conclusion: Noted, Miraj will check on requests and we will then decide if an answer is required

Tdoc	Title	Source	Comment
T2-020343	reply on support for subscriber certificates	SA3	

Discussion: Should be something to think about for R6 and security issues surrounding VASPs

Conclusion: Noted, Rami will create a simple response asking to be kept informed on the matter.

Tdoc	Title	Source	Comment
T2-020345	Draft Push Service Stage 1	SA5	

Discussion:

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020350	3GPP SA1 MMS SWG	SA5	

Discussion:

Conclusion: Noted. Questions will be covered via LS's already agreed to be generated.

Tdoc	Title	Source	Comment
T2-020346	charging support for VAS MMS Connectivity Interface	SA5	

Discussion: Discussed in Seattle, Rami has produced response in 321- This will be discussed later

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020351	VASP MMS Connectivity joint meeting	SA5	

Discussion:

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020352	VASP MMS Connectivity	SA5	

Discussion: Ville expressed concern that SA5 has already started on MMS aspects before holding a joint meeting. This might lead to confusion. Ville volunteered to create an appropriate response in 527

Conclusion: Noted

Tdoc	Title	Source	Comment
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T2-020357	Complement to the Answer LS on MSISDN Address resolution for MMS using MAP operations	CN4	
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Discussion: Already discussed in Seattle, but no changes are required in 23.140

Conclusion: Noted

SMS:

Tdoc	Title	Source	Comment
T2-020470	Clarification of the requirement for type 0 Short Messages	E-Plus, MM02, Vodafone,)	(Sonera, Telefonica also supporting this)

Discussion: Background info to following CRs to 03.40

Conclusion: noted

Tdoc	Title	Source	Comment
T2-020471	CR 03.40 Ph2 (Cat. F) Clarification of the requirement for type 0 Short Messages	E-Plus, MM02, Vodafone,)	(Sonera, Telefonica also supporting this)

Discussion: Ian explained that ‘may’ was put in the spec for discarding type 0 because it would be possible to find out the availability of a mobile without the user knowing, possibly violating their privacy. It was thought that then note in the CR is unusual and possibly misleading. Rami thought that this is a new feature and not an essential correction and should not be introduced in a earlier releases. Nokia was unhappy that this change should be applied in this way and should only be included in release 5. Ian agreed that that was a valid thing to introduce, it just needs to be done in a different way, i.e. in a future release. However, Ramin was unhappy to restrict this to release 5 as such terminals will not be available for a long time. There will be an off-line discussion to try and overcome the deadlock.

Conclusion: Noted

Tdoc	Title	Source	Comment

T2-020472	CR 03.40 Ph2 (Cat. F) Clarification of the requirement for type 0 Short Messages	E-Plus, MM02, Vodafone	Mirrors to 471
T2-020474			
T2-020475			
T2-020476			
T2-020477			

Discussion:**Conclusion:** Noted

Tdoc	Title	Source	Comment
T2-020488	CR 23.040 REL-5 Clarification of bit value combinations within TP-PI	Siemens, Logica	

Discussion:**Conclusion:** Approved

Tdoc	Title	Source	Comment
T2-020489	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	

Discussion: Ian explained that this area was for SIM data download and only 8 bit data were envisaged, so he has no problem with removing the term '8 bit'. There is an Asian requirement to use 16 bit messages for UCS/2. Peter and Ian will get together to update the CR and send an LS to T3

Conclusion: Noted – to be revised in 528 – LS in 529

Tdoc	Title	Source	Comment
T2-020543	Clarification of the requirement for type 0 Short Messages	E-Plus Mobilfunk, mm02, Vodafone Group, Sonera, AT&T Wireless	Revised 471 for R5 Telia also support this CR

Discussion: There may some procedural problems with this as it essentially a new feature and not a correction. Ian is concerned that existing applications expecting to use type 0 may not work with release 5.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020541	Clarification of the requirement for type 0 Short Messages	E-Plus Mobilfunk, mmO2, Vodafone Group, Sonera, AT&T Wireless	Revised 471 fro R99

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020542	Clarification of the requirement for type 0 Short Messages	E-Plus Mobilfunk, mmO2, Vodafone Group, Sonera, AT&T Wireless	Revised 471 for R4

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020529	LS to T3 on TP-DCS values for SIM data download	SWG3	

Discussion: To include CR 528,

Conclusion: Approved .

Tdoc	Title	Source	Comment
T2-020528	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	Revised 489

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020490	CR 23.040 REL-5 References to the TP-RD bit	Siemens	

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020491	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	

Discussion: Gwenael wants “only” at the end of the sentence. Revised in 565

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020565	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020507	Destination mailbox full TP-Failure-Cause	CMG	

Discussion:

Conclusion: Withdrawn

EMS:

Tdoc	Title	Source	Comment
T2-020492	CR 23.040 REL-5 WVG Corrections and Clarifications	Motorola, Bijitec	

Discussion: This appears to be a two type of changes, bug fixes and enhancements which should probably be split into two CRs.

Siemens asked why WVG version has been changed to 0001. Bijitec explained that previously, version what not included. Version is important and version 1 should be used for this release. However, Nokia did not want the version to be changed. Josef proposed that only a correction CR be produced as an enhancement CR may not be accepted. Bijitec maintained that this CR does not represent new features and are only essential clarifications and corrections to implement the agreed feature set from the Sophia meeting. Ian felt that separate CRs are needed to make it clear what the changes are about . Nokia complained that this CR was late and proposed that new versions of the CR should be postponed to the next T2. Ian reminded everyone that EMS has limited window of opportunity and so things should not be delayed. It was agreed to have an off-line discussion.

Conclusion: Noted – new revisions to be reviewed later in the meeting.

Tdoc	Title	Source	Comment
T2-020510	EMS feature overview	T2 Secretary	

Discussion: A few comments made about accuracy of the data – Friedhelm asked that delegates should send corrections to him.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020556	Summary of key changes in T2-020552 and T2-020555	Motorola, Bijitec	

Discussion:**Conclusion:** Noted

Tdoc	Title	Source	Comment
T2-020552	CR 23.040 REL-5 corrections to WVG in EMS	Motorola, Bijitec	

Discussion:**Conclusion:** Approved

Tdoc	Title	Source	Comment
T2-020553	CR 23.040 REL-5 corrections and clarifications to WVG	Motorola, Bijitec	

Discussion: Paul argued that the version number should not be specified in the WVG header because there will no need to have future version of EMS. Bijitec thought it is useful for situations where the EMS data is used outside of messaging. Paul argued that other media types don't have version number, but this is not true, e.g. MPEG has version number so that the rendering application know how to decode the data. Randy pointed out that Nokia have already agreed to the field being present. The CR is only adding a note to the already agreed field.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020554	CR 23.040 REL-5 Websafe color palette in WVG in EMS	Motorola, Bijitec	

Discussion: Siemens accept the changes but cannot confirm that the colour palette number array is correct.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020555	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	

Discussion: Magnus is not happy with this CR has there appears to be a number of new features. Paul has the same opinion. Bijitec disagree because adding the angle is not a new feature as it only makes it consistent with the rest of the spec.

The animation section is there to ensure that same animation features are present. Magnus suggested that an email discussion should take place as Ericsson experts are not present in the meeting. Ian questioned the commitment of companies to support EMS and suggested that ways could be found to overcome these issues. It is a sad fact that EMS has probably missed its opportunity to make an impact on the market because of past difficulties. Ian and Friedhelm saw no problem that this CR could be presented to T if it was accepted via email approval. It was agreed to create two separate CRs for each change. Email discussion should start today, followed by an official email approval period. Josef explained that if this CR is indeed a new feature then it cannot be approved. However, Ian interpreted T ruling on EMS as guidelines and if it is sensible to add a new feature then we should not be prevented from doing so. Bijitec maintained that these changes are essentially not new features and only improve the consistency of the specification and efficiency of the implementation. Brian asked if this change is not approved then there will be potential problems with message size; Bijitec confirmed this to be the case. Nokia and Ericsson objected to the CR. It was finally agreed to deal with issue via email. Final version needs to be sent to Friedhelm by Sunday 26th May. Email approval will then run till Fri 31 May 12:00 GMT. New versions in 567 and 568.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020554	CR 23.040 REL-5 Web safe colour palette in WVG in EMS	Motorola, Bijitec	

Discussion:

Conclusion: approved

MMS Finalisation of Release 5

Tdoc	Title	Source	Comment
T2-020515	CR 22.140 REL-5 - MMS support of both MSISDN and e-mail addressing schemes (SP-020055 CR-11)	S1	Check to see impact on 23.140

Discussion:

Conclusion: Noted – no need for changes to 23.140

Tdoc	Title	Source	Comment
T2-020516	CR 22.140 REL-5 - MMS configuration information in the USIM (SP-020055 CR-13)	S1	Check to see impact on 23.140

Discussion: Magnus asked what it the issuer? This is the operator. Ileana thought that this CR is just aligning stage 1 and 2. Josef proposed to create a LS to T3 and S1 (530) on possible work that might be needed. Miraj pointed out that we have specified more than just configuration parameters, e.g. storage of notifications.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020517	CR 22.140 REL-5 - Support of charging models in MMS (SP-020193)	S1	Check to see impact on 23.140

Discussion: This may have impact on 23.140. Ian has created an LS to address this and there are other related contribution to be debated later. The feature “Recipient pays for receipt of messages from a VASP when there is a commercial agreement between the Recipient and the VASP”, will be debated later

Conclusion: Impact to be discussed later.

Tdoc	Title	Source	Comment
T2-020518	CR 22.140 REL-5 - Automatic bearer selection for MMS delivery and submission (SP-020195)	T-Mobile, Vodafone Group, Orange	Check to see impact on 23.140

Discussion: Rami indicated that this is a new feature – can we allow this now for R5? Josef said that we should try and implement this before June. If not, the stage1 will have to be modified. Rami also pointed out that these fields are not present in the USIM and will be need to be implemented. It was thought that the SMS and USSD bearers mentioned should be deleted. Rami also thought that the wording excluded the possibility for storing the parameters on the terminals. LS to be sent to T3 and T1

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020467	CR 23.140 REL-6 MMS end-to-end security services using S/MIME and USIM	Gemplus	

Discussion: None

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020484	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	

Discussion: Rami agreed that the CR is needed, but he does not think that a requirement can put on the UE in the MMS spec and should be re-worded. Vasilis pointed out that users should be able to avoid using CSD when roaming in order to avoid high call charges, but this is not in the stage1. Ileana suggested that an LS should be sent to S1 to point out the roaming case for bearer selection for release 6. As it was difficult to come up with agreed wording, a small group will work off-line to produce a new version in 532

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020485	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	

Discussion: Rami explained that this CR is potentially dangerous! It would allow a malicious VASP to indicate that the recipient should pay when in fact they should not! However Vodafone pointed out that an operator will only allow a VASP to reverse charge if there is contract between the operator and VASP. Any inappropriate usage by the VASP would then come under the commercial agreement between the VASP and the operator.

Furthermore, Rami is concerned that a malicious VASP could claim that there is a commercial agreement between it and the recipient that is unknown to the operator. However, Ian pointed out that as the MMS R/S is under the control of the operator and is in a good position to avoid the potential difficulties raised. Rami will make these points in the LS to SA5.

Conclusion: Noted - Updated and Approved in T2-020533

Finalisation of MM7

Tdoc	Title	Source	Comment
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T2-020514	SWG3#11 agreed MM7 stage 3 design principles		Agreed principles from Seattle
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Discussion: It was pointed out that Error handling in the proposed CRs is different – it is now done via SOAP fault report and includes a transaction ID.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020500	CR 23.140 REL-5 MM7 stage 3 endorsed by SWG3#11	Ericsson	

Discussion: Josef checked that outstanding actions will be included in the updated version of the CR.

It was pointed out that the URL from where the SOAP schema can be retrieved needs to be defined.

Rami asked when the structure of the service code will be decided. Jerry sent out some options – Nokia prefers option 2. An off-line group will decide. Marina asked for confirmation that the XML schema will be both in the spec annex and at the URL; it will.

This CR will be updated in 535

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020478	CR 23.140 REL-5 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	SWG3	

Discussion: A few comments were received on the new text with on-line editing. Updated and approved in 536

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020469	Clarifications on attaching multimedia message content to MM7 Stage 3 CR	Nokia	Discussion doc

Discussion: Vasilis suggested that a Multipart/mixed example should also be included. Comments will be reflected in 535.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020493	CR 23.140 Rel-5 inclusion of previously sent field to MM7	Nokia	

Discussion: Pdraig stated that he is not sure that we should be providing this info to VASPs. Eskil and Rami has similar doubts. Ville, said a postcard service might use this or filtering applications and as it is an optional field it can do no harm to have it. Rami said there are no good use cases. Ville stated that he could not see any reason why it should not be there as it there is other reference points. There followed a very long discussion, illustrated on the flip chart. Rami stated that he can't get consensus with himself on this feature!!!! Due to lack of time is was agreed to discuss this further for release 6

Conclusion: REJECTED

Tdoc	Title	Source	Comment
T2-020494	CR 23.140 REL-5 MM7 Interface – Message Distribution Indicator	ATW	

Discussion: Rami says he has sympathy with the problem here but there are no stage 1 requirements for this. His second concern is that in some jurisdictions it may be illegal to prevent to transfer content. Thirdly it requires a change to MM1. Fourth, there may be a better way to do this by the MMS R/S detecting the owner of forwarded content and generating an appropriate CDR. Pdraig, agrees with this in general, but is concerned that R/S is now become a distribution control point and that goes beyond the original idea of just providing an indication to the user. Eskil thought that we need at least a basic mechanism for release 5. Ian suggested that user will easily defeat these kinds of mechanisms, so it would be best to simply indicate to the user with a message saying “please do not copy this”. Magnus likes the mechanism for the content provider to a standard way of indicating protected content. Ville said that an indication to the user could be supplied in MM body, for example, in the subject field and thereby will be independent of the transport protocol. Josef felt that by the time R5 MM1 is completed in the WAP forum, 3GPP DRM solution may be available. Ileana thought that EMS could be more successful than MMS as EMS already has this protection flag and insisted that content providers will not be a happy to work with MMS if such a mechanism is provided. Ville thought that for a short term solution it would be better to have the indication in the message body.

Eventually there was an indicative vote as follows.

1. info element in MM7_submit.REQ
 - i. yes - 19
 - ii. no – 0
 - iii. abstentions – 7

2.) info element in MM1_notific.REQ

- i. yes - 15
- ii. no - 1
- iii. abstentions - 9

Therefore Ileana will produce a new CR (537) that will require a Boolean value (yes/no) message distribution indicator (informational only) that applies to the whole message.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020503	Use cases for VAS - discussion doc	Telia	

Discussion: Eskil thought that use case 9 in nothing to do with VASPs. Similarly use case 10 is not related to VASP. Rami suggested that LS should be sent to GSMA on VASP use cases. Henrik suggested that this document should be discussed via email for a few weeks before sending to SA1/GSMA to give them some suggestions on requirement creation.

Conclusion: Noted**OTHER RELEASE 5 MMS**

Tdoc	Title	Source	Comment
T2-020468	Encapsulation of a short message (SMS) in a multimedia message (MMS)	Alcatel	

Discussion: This is approved for release 5 – new version 550 to update cover sheet. Some discussion surrounded the need to apply the same CR to R4 and R99. Eventually it was agreed to do the same change for R99 and R4, in 544 and 545.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020479	CR 23.140 REL-5 consistent terminology	Siemens	

Discussion: Various comments made and new version will be created in 548. Bill will update store status text in a separate CR in 549.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020480	Alignment of 3GPP TS 23.140 with 3GPP TS 26.140	Siemens, Nokia	

Discussion: Various comments and correction received. An email from Kevin Holley was read out, but delegates thought it had no impact on the CR. Randy asked what the process should be to include formatted text for MMS. Josef suggested that a new section in 23.140 could be added with a note saying that SA4 spec would define the precise format. There was a lot of discussion on SA4 responsibilities and who is actually responsible for what MMS supports. A new version will be created in 551.

Conclusion: Endorsed

Tdoc	Title	Source	Comment
T2-020481	MMS Message Size Definition	Siemens	PowerPoint presentation

Discussion: Vasilis has reservations about excluding the SMIL part, it would be better to take the whole MIME encapsulated payload. Josef explained that the SMIL size depends upon the terminal implementation and will vary from manufacturer to manufacturer. Magnus, thinks that is very important and we need a clear definition of message size and he supports excluding the SMIL part. Ericsson terminals will show the message size during creation and it is easier to exclude the SMIL part. Ileana suggested that the message size should come from the terminal or the VASP and NOT the MMS R/S as this will add a large overhead. Paolo agreed that a uniform method is agreed here in T2 and not SA5. Additionally, we must consider not just the attachment part of the message, but the whole message. If it is excluded there will be problems, we need to include the presentation and attachments. Ian stated that size is important – it will be possible for hackers to send free information e.g. in the notification. The most costly part of message transmission is across the air interface and we need to be very careful that message size reflects this need. Ian suggested that message size needs to be defined in absolute size and not broad categories (e.g. small, medium, large). Eskil is worried that the MMS R/S will become a bottleneck if it has to do a lot of exact counting. He suggested that it should just include the attachments and take the PDU as the basis. Marina wants the PDU as the basis. Ville agrees with most of the comments – no dissecting of messages should be done. Rami thinks that the whole message size should be taken into account, and people should be free to deduct parts as required. Ericsson suggested that the size of each part of the MIME object could be used in message size calculation. However, Josef said that there is a big problem to calculate the message size during message creation and this proposal would not help. Vasilis stated that it must be possible to estimate fairly accurately the size of the SMIL part should be. Additionally an MM has the RCF822 headers as well as the message part and the only way to calculate the whole message size is after the WSP encoding is completed. Ian maintained that nothing should be excluded from the count to prevent people sending messages inside the subject field for free. Operators are free to subtract whatever they like in their billing systems. Ileana

emphasized the difference between recording and billing. When you send a parcel in the post, the whole package is included in the charging. Gwenael, thought it is possible to accurately calculate the whole message size. However, he is concerned that this is being closely coupled to the current implementation of MM1. When we have alternative MM1 implementations the message size calculations will be invalid. Rami maintained that we should focus on the whole size of the message in a consistent way. Josef added though, that we also need to be able to display the size of the message during creation. Vasilis thinks that the operator should not have to depend on the UE for accurate billing.

Ian questioned how forwarding without downloading without be billed. Answer: size will be in the notification.

After much further debate no conclusion could be reached – discussion will continue in a ad hoc group.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020521	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	Updated from 499

Discussion: Small editorials and minor changes done on-line new version Approved in 559

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020465	CR 23.140 Rel-5 Status text in the MM1_delivery_report.REQ	Materna	

Discussion: Eskil and Ville, thinks that this is a new feature and should not be in R5.

Conclusion: Rejected

Tdoc	Title	Source	Comment
T2-020466	CR 23.140 Rel-5 information field in notification	Materna	

Discussion: Ville said that this does not match any stage 1 requirement. Eskil says that this a new feature and should not be included in R5.

Conclusion: Rejected

Tdoc	Title	Source	Comment
T2-020505	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	Schlumberger Sema, Teleca	

Discussion: Eskil said that there is nothing here that not already in the WAP specifications. However, there is a problem with the version number mapping. Padraig asked whether this CR is just their to align 3GPP to WAP specs? Marina maintained that the most important reason for the CR was to add the transaction ID. Miraj, explained that the reason these information elements were omitted was because all messages had to include them and this was explained in the text. Ileana supports the CR because it adds clarity and consistency.

It was agreed to approve the CR with changes agreed during the discussion assuming that 506 is approved. Revised in 560

Conclusion: Endorsed

Tdoc	Title	Source	Comment
T2-020506	CR 23.140 REL-5 Acknowledgements for the unconfirmed transactions	Schlumberger Sema, Teleca	

Discussion: Vasilis thinks that 8.1.7.1 and 8.1.7.2 are not consistent. Magnus explained that if a message is sent to 20 recipients with delivery reports, it would generate a lot of signalling. Rami is worried about backward compatibility. Marina answered by saying that the version is always known. Ian explained that the most vulnerable path is over the radio path. Without the responses, there is not assurance that messages are received. The extra traffic problem should not be problem. Good implementations should not be upset by unknown fields and should ignore unexpected data. Ville cannot support this CR as their will be backwards compatibility, underlying protocols should be relied upon to deliver reliably and this a new feature which should not be added for R5. Josef was concerned that if a user is roaming, it might be very expensive to get 20 delivery reports! Rami insisted that this is not a new feature. Ian maintained that without this CR, there is a big hole in the protocol and with the changes there is no value in having the deliver report requests. Eskil thought that if you really want to ensure reliability you could use a WAP confirmed push.

Conclusion: REJECTED

Tdoc	Title	Source	Comment
T2-020508	MMS timezones - discussion doc		

Discussion: See 546 for related CR.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020546	CR 23.140 R5 Clarifications concerning the use of timestamp	Teleca, SchlumbergerSema	

Discussion: Josef expressed that this CR should be Cat F as it included lots of new features. Two separate CRs are required. Ian explained that if the UE can set the time and the R/S can override it will cause lots of difficulties and potentially some serious problems. Rami agreed with the spirit of the changes, but these are all new features. Padraig supports the clarification of timezone but not the other changes. Ian insisted that this CR fixes fundamental problems. Josef said that if this is cat F then it should also apply to earlier releases. It was agreed to not discuss this CR at this meeting put to postpone discussion to the next meeting. The authors will revise the contents according to comments received. Rami objected to the contents of the CR but did not want to go into a debate today. There will be an email discussion on this CR, hopefully with a updated CR presented to the next T2 meeting.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020511	Parameters for CDR creation related to VASP/VAS connectivity via MM7	Comverse	

Discussion: Ville was concerned about transaction id. Josef told Ville that this annex will be used by SA5 for their work Ian suggested that the term “reverse charging” should be revised. The CR was agreed with some on-line edits

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020534	CR 23.140 REL-5 MM1 - MM7 and MM4 - MM7 header mapping	Ericsson	

Discussion: Eskil objected to his own CR as it impossible to map MM7 to MM4. MM7 to MM4 mapping should be postponed, but the MM7-> MM1 should be retained. Ville suggested that this should be an informative annex as it is not clear what the effect on service behaviour will be.

Conclusion: Approved

Tdoc	Title	Source	Comment

T2-020544	CR 23.140 R 99 Encapsulation of a short message (SMS) in a multimedia message (MMS)	Alcatel	
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Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020545	CR 23.140 R 4 Encapsulation of a short message (SMS) in a multimedia message (MMS)	Alcatel	

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020550	CR 23.140 R5 Encapsulation of a short message (SMS) in a multimedia message (MMS)	Alcatel	

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020496	CR 23.140 REL-5 Consistent use of RFC2822	CMG	

Discussion:

Conclusion: Postponed

Tdoc	Title	Source	Comment
T2-020497	CR 23.140 REL-5 FQDN in RFC822 fields on MM4	CMG	

Discussion: Ville has some problems with this. Ville explained that when user A send a message to user B with E.164 in a different operator, MM4 has to add the domain name which should be stripped off when sent to the recipient. Vasilis did not agree with stripping domains. The To and

From field are not used for routing. CMG argued that the reply to a message needs the FQDN. It was agreed to add the CC: field. Ericsson agree with the CR but need to study RFC 822 in more detail. This will be discussed further offline. Revised in 561 – corrections to MM4 reply addressing.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020498	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	

Discussion: The first change is already incorporated later on in the section and is not needed. The second change needs some updating. Revised in 562

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020562	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	Revised 498

Discussion: Online changes and revised in 570

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020570	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	Revised 562

Discussion: Online changes and revised in 570

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020504	CR 23.140 REL -5 clarifications	Telia	

Discussion: Generally agreed but needs some updates are needed. Josef and Henrik will work on this for the next meeting. Revised version 563

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020547	CR to 23.140 Stage 2. MM1 and MM7 Interfaces: Message Distribution Indicator	AT&T Wireless Services, Schlumberger Sema	Revised version

Discussion: Long and protracted discussion about the precise wording! Ville insisted that this cat B, i.e. addition of new feature – this may be an issue for closing plenary.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020535	MM7 stage 3 endorsed by SWG3#11 and updated with corrections and new schema	Ericsson, Nokia, Comverse	

Discussion: Gwenael has concerns about the <env:Header> syntax as it does not appear in the SOAP specification. Sam will explain off-line.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020551	Alignment of 3GPP TS 23.140 with 3GPP TS 26.140	Siemens, Nokia	

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020558			

Discussion:

Conclusion: Withdrawn

Tdoc	Title	Source	Comment
T2-020563	CR 23.140 REL -5 clarifications	Telia	

Discussion: Some editorials and agreed.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020560	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	Schlumberger Sema, Teleca	

Discussion: Ville didn't want to have new fields in MM1_retrieve.REQ as the current stage3 WAP spec does not have these new mandatory fields. Ian felt that these fields are needed to avoid problems and keep consistency of operation at the application layer. Josef felt that this is not needed in the current implementation so why have it? Ian complained that everything is being driven by what WAP can or cannot do and that WAP is dictating what is in the 3GPP spec and if we proceed with an alternative to WAP in the future we will get into further problems. However, Ville thought whatever stage 3 protocol was used for MM1 you would get the same problem e.g. IMAP 4. Randy suggested that we keep the fields in stage2 and that WAP simply ignores them if they are not needed. Ian insisted that a correct application protocol should have unambiguous association between requests and responses. Josef disagrees and that the desired effect is already achieved in the current system. Pdraig said that the CR is going beyond simply matching requests and responses – it effectively linking sets of transactions together. Rami has sympathy with Ian's arguments but it is too late in the day to introduce this. Josef explained that with a synchronous protocol you do not need transaction id. Ian maintained that we should not assume that messaging applications use synchronous methods as they are quite likely to be asynchronous. Rami thinks that this should be postponed to R6. Ileana wants stage 2 to be generic and independent of stage 3.

After extensive discussion and further online revision the document was approved

Conclusion: Approved.

Tdoc	Title	Source	Comment
T2-020548	CR 23.140 REL-5 consistent terminology	Siemens	Revised 479

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020549	CR 23.140 Persistent Storage Status Text	Openwave	Derived from 479

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020564	Message size in CDR	Telica	

Discussion: Ian found it difficult to find a suitable place for the definition. Rami thought that it could be in an informative annex. Ville is happy about the wording, just unsure of the location. Vasilis warned everyone that there may be a significant differences in size for the message when it is submitted or retrieved even without transcoding. Paolo will create an LS to SA5 to inform them about this new definition message size.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020532	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	Revised 484

Discussion: Henrik questioned what happens if two different applications have simultaneous requirements for different bearers? Which get priority? Josef felt it was down to terminal implementation. Ileana felt that T3 will solve this problem. This CR should be sent to T3

Conclusion: Approved

MMS Release 6 Work Item Description

It was agreed that a draft WID would be created this week and sent to T plenary for information

Tdoc	Title	Source	Comment
T2-020540	Draft MMS Release 6 WID		

Discussion: This is Josef's initial draft based upon email discussions and postponed items from R5. It was agreed that a simpler list is needed. Delegates brainstormed ideas to make up a list if areas. Vasilis will work on the draft and sort all the items to generic categories. When completed the list will be sent to SA1.

Rami proposed to have a joint ad hoc meeting to develop new MMS requirements. Ville pointed out that the WID is not the definitive list of requirements and its contents should be easy to understand and generic. Ian finds the list very useful in explaining to T plenary the amount of work facing T2 on MMS. Vasilis made the point that we should not try to predict what we can and cannot achieve for release6, just let's get on with the work.

It was agreed to send this draft WID to SA1 and T plenary for information. Revised version in 571. LS in 572 to send this to SA1.

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020571	Preliminary Draft MMS Release 6 WID	SWG3	

Discussion:

Conclusion: Noted

Outgoing Liaisons

Tdoc	Title	Source	Comment
T2-020321	LS to SA5 on VASP charging	Comverse	

Discussion: Ville pointed out that comments made in Seattle have not been included.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020527	LS to SA5 on service management		

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020525	LS to SA3 on Subscriber Certificates		

Discussion: new version in 574

Conclusion: Noted

Tdoc	Title	Source	Comment
T2-020530	LS on MMS configuration to T3 and SA1		

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020531	LS on Automatic bearer selection for MMS delivery and submission to T3		

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020539	LS on Use cases for MMS VAS to SA1, GSM-A SERG/TWG		

Discussion:

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020557	LS on Transfer from T2 to SA4 of Responsibility for MMS Formats and Codecs to SA4		

Discussion: Rami (Comverse) commented that Streaming is not described clearly in the present 23.140. It should be cleared.

Conclusion: Approved

Tdoc	Title	Source	Comment
T2-020	LS on		

Discussion:

Conclusion:

Future meetings:

Tdoc	Title	Source	Comment
T2-020483	Meeting planning for MMS Release 6	Siemens	

Discussion:

Conclusion: Noted ; It was agreed to plan future ad hoc meetings (1 between every T2 plenary) in advance for REL-6. Moreover, an urgent need for a JM with SA1 to fix the scope and requirements for REL-6 was identified. Suitable dates for these meetings need to be defined offline.

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

Document #	Subject	Source	Status within SWG3	Comments
T2-020321	LS to SA5 on Charging Support for VASP MMS Connectivity	Comverse	approved	reply-LS to T2-020346
T2-020322	LS to SA1 on charging MMS models	Teleca	postponed	result of T2-020517 (SA#15 approved stage 1 CR)
T2-020323	LS to SA1 on MMS Stage 1 Requirements for REL-5 and REL-6	Nokia	approved	T2 approved at T2#17 OP; reply-LS to T2-020335
T2-020325	LS from BARG CPWP and SMS SC on Message Volume Measurement Methods	CPWP Doc 020/02 rev3	noted	
T2-020327	LS from SA1 on Digital Rights Management (DRM)	S1-020493	noted	
T2-020328	LS from SA1 on revised "Draft Push Service Stage 1"	S1-020543	noted	
T2-020330	LS from SA1 on Packet switched streaming service stage 1 TS for release 5	S1-020605	noted	
T2-020334	LS from SA2 reply on: "Draft Push Service Stage 1"	S2-020868	noted	
T2-020335	LS from SA1 on 3GPP TSG SA WG 1 MMS SWG	S1-020518	noted	reply-LS in T2-020323

	SWG			020323
T2-020336	LS from SA1 on Support of "Recipient Party pays"	S1-020519	noted	reply-LS in T2-020322;
T2-020338	LS from SA4 about transfer from T2 to SA4 of responsibility for MMS formats and codecs	S4-010196	noted	
T2-020343	LS from SA3 reply on support for subscriber certificates	S3-020163	noted	reply-LS in T2-020525
T2-020345	LS from SA5 reply on: "Draft Push Service Stage 1"	S5-020045	noted	
T2-020346	LS from SA5 reply on: "Liaison Statement on charging support for VAS MMS Connectivity Interface"	S5-020196	noted	reply-LS in T2-020321;
T2-020350	LS from SA5 on on 3GPP SA1 MMS SWG	S5-024033	noted	reply-LS in T2-020322;
T2-020351	LS from SA5 on VASP MMS Connectivity joint meeting	S5-020322	noted	reply-LS in T2-020321;
T2-020352	LS from SA5 on VASP MMS Connectivity	S5-022007	noted	reply/LS in T2-020527;
T2-020357	LS from CN4 Complement to the Answer LS on MSISDN Address resolution for MMS using MAP operations	N4-020512	noted	
T2-020367	LS to SA1 on draft MMS REL-6 WID	Siemens	approved	T2 approved at T2#17 OP
T2-020460	Agenda SWG3#17	SWG3 chair	approved	
T2-020461	Meeting Report SWG3#17	SWG3 chair	open	
T2-020462	draft meeting report SWG3 MMS meeting, Seattle	SWG3 chair	approved	APPROVED at T2#17-OP
T2-020463	MMS end-to-end security services	GEMPLUS	postponed	
T2-020464	CR 23.140 REL-6 MMS end-to-end security services using S/MIME and USIM	GEMPLUS	postponed	
T2-020465	CR 23.140 Rel-5 Status text in the MM1_delivery_report.REQ	Materna	rejected	
T2-020466	CR 23.140 Rel-5 information field in notification	Materna	rejected	
T2-020467	CR 23.140 Rel-5 reverse charging on MM7	Materna	noted	revised in T2-020485
T2-020468	CR 23.140 Rel-5 Encapsulation of a short message in a multimedia message	Alcatel	approved	
T2-020469	Clarifications on attaching multimedia message content to MM7 Stage 3 CR	Nokia	endorsed	To be reflected in the MM7 stage 3 CR

T2-020470	Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	
T2-020471	CR 03.40 Ph2 (Cat. F) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	
T2-020472	CR 03.40 R96 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	
T2-020473	CR 03.40 R97 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	
T2-020474	CR 03.40 R98 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	
T2-020475	CR 23.040 R99 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	revised in T2-020541
T2-020476	CR 23.040 Rel-4 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	revised in T2-020542
T2-020477	CR 23.040 Rel-5 (Cat. A) Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02	noted	revised in T2-020543
T2-020478	CR 23.140 REL-5 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	SWG3#11	noted	revised in T2-020536;
T2-020479	CR 23.140 REL-5 consistent terminology	Siemens	noted	revised in T2-020548 and T2-020549
T2-020480	CR 23.140 REL-5 Alignment of 23.140 with 26.140	Siemens, Nokia	endorsed	revised in T2-020551
T2-020481	Definition of message size in MMS (discussion document)	Siemens	noted	
T2-020482	withdrawn	withdrawn	withdrawn	withdrawn
T2-020483	Meeting planning for MMS REL-6 (discussion document)	Siemens	noted	
T2-020484	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	noted	revised in T2-020532
T2-020485	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	noted	revised in T2-020533
T2-020486	CR 23.140 Rel-6 User Prompt Identifier	Ericsson	postponed	

T2-020487	MMS end-to-end security services : use cases	Orange	postponed	
T2-020488	CR 23.040 REL-5 Clarification of bit value combinations within TP-PI	Logica, Siemens	approved	
T2-020489	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	noted	revised in T2-020528; LS to T3 in T2-020529
T2-020490	CR 23.040 REL-5 References to the TP-RD bit	Siemens	approved	
T2-020491	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	noted	revised in T2-020565
T2-020492	CR 23.040 REL-5 WVG Corrections and Clarifications	Bijitec	noted	
T2-020493	CR 23.140 Rel-5 inclusion of previously sent field to MM7	Nokia	rejected	
T2-020494	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	noted	revised in T2-020537
T2-020495	withdrawn	withdrawn	withdrawn	withdrawn
T2-020496	CR 23.140 REL-5 Consistent use of RFC2822	CMG	postponed	
T2-020497	CR 23.140 REL-5 FQDN in RFC822 fields on MM4	CMG	noted	
T2-020498	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	noted	revised in T2-020562
T2-020499	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	noted	revised in T2-020521
T2-020500	CR 23.140 REL-5 MM7 stage 3 endorsed by SWG3#11	Ericsson	noted	revised in T2-020535
T2-020501	withdrawn	withdrawn	withdrawn	withdrawn
T2-020502	withdrawn	withdrawn	withdrawn	withdrawn
T2-020503	Use cases for VAS - discussion doc	Telia	noted	revised in T2-020538
T2-020504	23.140 v5.2.0 clarifications	Telia	noted	revised in T2-020563
T2-020505	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	Schlumberger Sema, Teleca	endorsed	revised in T2-020560
T2-020506	CR 23.140 REL-5 Acknowledgements for the unconfirmed transactions	Schlumberger Sema	rejected	
T2-020507	withdrawn	withdrawn	withdrawn	withdrawn

T2-020508	MMS timezones - discussion doc	Teleca	noted	revised in T2-020546
T2-020509	CR 23.041 Rel-4 Update of references	Teleca	postponed	POSTPONED TO T2#17-CP
T2-020510	EMS feature overview	T2 secretary	noted	
T2-020511	CR 23.140 Rel-5 Parameters for CDR creation related to VASP/VAS connectivity via MM7	Comverse	approved	
T2-020512	CR 23.041 R99 Update of references	MCC	postponed	POSTPONED TO T2#17-CP
T2-020513	LS-reply to T2-020351 on JM SA5/CN5/T2 on MMS charging	Siemens	approved	T2 approved at T2#17 OP; reply-LS to T2-020351
T2-020514	SWG3#11 agreed MM7 stage 3 design principles	SWG3#11	noted	
T2-020515	CR 22.140 REL-5 - MMS support of both MSISDN and e-mail addressing schemes (SP-020055 CR-11)	SA1	noted	
T2-020516	CR 22.140 REL-5 - MMS configuration information in the USIM (SP-020055 CR-13)	SA1	noted	LS in T2-020530
T2-020517	CR 22.140 REL-5 - Support of charging models in MMS (SP-020193)	SA1	noted	LS in T2-020322;
T2-020518	CR 22.140 REL-5 - Automatic bearer selection for MMS delivery and submission (SP-020195)	T-Mobile, Vodafone Group, Orange	noted	LS in T2-020531
T2-020519	SWGB#27bis_Service Charging_Report	S5-024046	noted	Noted at T2#17-OP
T2-020520	Generic Approach for UPI in MMS	Siemens	noted	revised in T2-020526
T2-020521	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	noted	revision of T2-020499 revised in T2-020559
T2-020522	CR 23.140 REL-4 Mandatory MM1_retrieve.RES	Siemens	postponed	
T2-020523	LS to SA5, WAP MMDC on REL-4 mandatory MM1_retrieve.RES	Siemens	postponed	
T2-020524	Discussion of stage 1 push specification	Comverse	postponed	
T2-020525	reply-LS to SA3 on T2-020343 (subscriber certificates)	Comverse	noted	revised in T2-020574
T2-020526	Generic Approach for UPI in MMS	Siemens	postponed	revision of T2-020520

				020520
T2-020527	reply-LS to SA5-SWGA on T2-020352 on Service Operations Management on MM7	Nokia	approved	
T2-020528	CR 23.040 REL-5 TP-DCS values for SIM data download	Siemens	approved	revision of T2-020489
T2-020529	Ls to T3 on TP-DCS values for SIM data download	Siemens	approved	
T2-020530	LS to T3 and SA1 on MMS configuration information in the USIM	Siemens	approved	
T2-020531	LS to T3 and SA1 on Automatic bearer selection for MMS delivery and submission	Siemens	approved	
T2-020532	CR 23.140 Rel-5 Automatic Bearer Selection for MMS	Siemens	approved	revision of T2-020484
T2-020533	CR 23.140 Rel-5 Charged Party Indication on MM7	Materna, Nokia, Teleca, Vodafone, Ericsson	approved	revised T2-020485
T2-020534	CR 23.140 REL-5 MM1-MM7 and MM4-MM7 header mapping	Ericsson	approved	
T2-020535	CR 23.140 REL-5 MM7 stage 3	Ericsson, Nokia, Comverse, Logica, Openwave	approved	revision of T2-020500
T2-020536	CR 23.140 REL-5 Correction to MM7 Stage 2 on Address Visibility in Sender and Recipient IEs	SWG3#11	approved	revision of T2-020478
T2-020537	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	noted	revision of T2-020494 revised in T2-020547
T2-020538	Use cases for VAS - discussion doc	Telia	noted	revision of T2-020503
T2-020539	LS to SA1 and GSMA-SERG on Use cases for VAS	Telia	approved	
T2-020540	Very draft basis for an MMS REL-6 Work Item Description	Siemens	noted	
T2-020541	CR 23.040 R99 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	approved	revision of T2-020475

T2-020542	CR 23.040 Rel-4 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera	approved	revision of T2-020476
T2-020543	CR 23.040 Rel-5 Clarification of the requirement for type 0 Short Messages	Vodafone Group, Eplus, mm02, Sonera, Telia	approved	revision of T2-020477
T2-020544	CR 23.140 R'99 Encapsulation of a short message in a multimedia message	Alcatel	approved	
T2-020545	CR 23.140 Rel-4 Encapsulation of a short message in a multimedia message	Alcatel	approved	
T2-020546	CR 23.140 REL-5 Clarifications concerning the use of timestamp	Schlumberger Sema	noted	revision of T2-020508
T2-020547	CR 23.140 REL-5 MM7 Interface - Message Distribution Indicator	AT&T Wireless	approved	revision of T2-020537
T2-020548	CR 23.140 REL-5 consistent terminology	Siemens	approved	revision of T2-020479
T2-020549	CR 23.140 REL-5 Store status in stage 2 features	Openwave	approved	resulted from T2-020479
T2-020550	CR 23.140 Rel-5 Encapsulation of a short message in a multimedia message	Alcatel	approved	revision of T2-020468
T2-020551	CR 23.140 REL-5 Alignment of 23.140 with 26.140	Siemens, Nokia	approved	revision of T2-020480
T2-020552	CR 23.040 REL-5 corrections to WVG in EMS	Motorola, Bijitec	approved	revision of T2-020492
T2-020553	CR 23.040 REL-5 clarifications to WVG in EMS	Motorola, Bijitec	approved	revision of T2-020492
T2-020554	CR 23.040 REL-5 Websafe color palette in WVG in EMS	Motorola, Bijitec	approved	revision of T2-020492
T2-020555	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	noted	revision of T2-020492;
T2-020556	Summary of key changes in T2-020552 and T2-020555	Motorola, Bijitec	noted	
T2-020557	reply-LS to T2-020338 on MMS codecs	Nokia	approved	
T2-020558	withdrawn	withdrawn	withdrawn	withdrawn
T2-020559	CR 23.140 Rel-5 Binary Encoding of MMS Connectivity Information for storage on the USIM	Siemens	approved	revision of T2-020521
T2-020560	CR 23.140 REL-5 Additional information elements for the MM1 abstract messages	Schlumberger Sema, Teleca	approved	revision of T2-020505

T2-020561	withdrawn	withdrawn	withdrawn	withdrawn
T2-020562	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	noted	revision of T2-020498; revised in T2-020570
T2-020563	23.140 v5.2.0 clarifications	Telia	approved	revision of T2-020504
T2-020564	CR 23.140 REL-5 Message Size	Teleca, Openwave	approved	
T2-020565	CR 23.040 REL-5 Occurrence of the Reply Address Element	Siemens	approved	revision of T2-020491
T2-020566	withdrawn	withdrawn	withdrawn	withdrawn
T2-020567	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	postponed	revision of T2-020555; POSTPONED TO EMAIL DISCUSSION AND APPROVAL
T2-020568	CR 23.040 REL-5 refinements to WVG in EMS	Motorola, Bijitec	postponed	revision of T2-020555; POSTPONED TO EMAIL DISCUSSION AND APPROVAL
T2-020569	LS-reply to T2-020325 to BARG and SA5 on message size definition	Vodafone	postponed	POSTPONED TO T2#17-CP
T2-020570	CR 23.140 REL-5 Correction of responsibility for MM4 delivery reports	CMG	approved	revision of T2-020562
T2-020571	preliminary draft MMS REL-6 Work Item Description	SWG3	noted	
T2-020572	LS to SA1 cc T on preliminary draft MMS REL-6 WID	Openwave	postponed	POSTPONED TO T2#17-CP
T2-020573	LS to SA1 on IMS Messaging	Openwave, Comverse, Schlumberger Sema	postponed	POSTPONED TO T2#17-CP
T2-020574	reply-LS to SA3 on T2-020343 (subscriber certificates)	Comverse	approved	revision of T2-020525
T2-020575	unused	unused	unused	unused
T2-020576	unused	unused	unused	unused
T2-020577	unused	unused	unused	unused

T2-020578	unused	unused	unused	unused
T2-020579	unused	unused	unused	unused
T2-020580	unused	unused	unused	unused
T2-020581	unused	unused	unused	unused
T2-020582	unused	unused	unused	unused
T2-020583	unused	unused	unused	unused
T2-020584	unused	unused	unused	unused
T2-020585	unused	unused	unused	unused

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