

Draft T2#14 Report V 0.3 (2001-09)

**3rd Generation Partnership Project (3GPP);
Technical Specification Group Terminals (TSG-T);
Working Group 2 Mobile Terminal Services and Capabilities;
Draft Meeting Report
T2#14
Edinburgh, UK, 3 - 7 September 2001**



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Chairman: Ian HARRIS (Vodafone)

Secretary: Friedhelm RODERMUND (ETSI MCC)

1 Opening Plenary

1.1 Opening of the meeting

The T2 chairman, Ian HARRIS (Vodafone), opened the meeting and welcomed the delegates. Kevin HOLLEY (BT Wireless) welcomed the delegates on behalf of the hosts BT Wireless, Vodafone, One2One, Orange, and Hutchison 3G. Kevin HOLLEY expressed his thanks to the T2 secretary for his support during Kevin's time as SMG4/T2 chairman and handed him over a non-alcoholic present. He gave a short introduction to Edinburgh and outlined the facilities and the wireless LAN.

1.2 Approval of the agenda and schedule

The agenda and schedule in **T2-010576** was agreed with the change of the closing time to 3pm.

1.3 Notification of IPR Obligations

The chairman made the call for IPRs. **T2-010577** gives some background information on IPR issues.

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

1.4 Report of the last T2 meeting

The report of T2#13 Busan, Korea 14-18 May 2001 (**T2-010575**) was approved.

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

ftp://www.3gpp.org/TSG_T/WG2_Capability/TSMT2_13/Report

1.5 Reports from other groups

1.5.1 TSG T

A summary of issues of T2 interest from T#12 was presented by Friedhelm RODERMUND in **T2-010580**. Please find below a summary of the main issues:

All CRs agreed by T2 were approved by TSG-T. During TSG-T, it was detected that the reason for change for the CRs to 23.041 on Geographical Scope was wrong. CBS does not belong only to the CS domain. After the TSG-T meeting it appeared that the CR 23.057-086 (**T2-010405**) contradicted with CR 23.057-080 (**T2-010382**), and that CR 23.057-092 (**T2-010558**) was based on 23.057 v4.0.0 instead v4.1.0.

Therefore CR 23.057-086 and CR 23.057-092 were not implemented into the 23.057 v4.2.0. Both CRs were reworked at the recent MExE meeting and will be presented to T2#14, Edinburgh.

The CR to 23.040 on extended objects in EMS in T2-010565 was not agreed by T2 because of Nokia's objections. During the TSG-T meeting, side discussions led by the T2 chairman took place and resulted in a revised CR (TP-010149), which was then approved.

The work item on the Terminal Local Model Rel-5 was approved with the addition of "SCP" to the related work areas. It was noted that T3 has to be involved in the work.

Cetecom and Materna proposed an added testing possibility of the application to the Terminal Local Model by incorporating an "agent" into the operational system which relays the interaction between the relevant components (e.g. application, OS UICC and UMTS protocol) to an appropriate output. Since this proposal was not seen by the WGs before and some delegates raised concerns it was not approved by TSG-T. TSG-T requested T2 to discuss this proposal and T1 was encouraged to provide their opinion to T2 before the next T2 meeting.

The work item MMS Rel-5 was approved.

The work item description for EMS Rel-5 was amended by a sentence on CBS charging and approved.

T2 has second responsibility for the approved T3 work item for the definition and specification of a UICC/USIM Transport Protocol (TP-010112/**T2-010599**).

Testing of Applications: T1 reported that discussion has started if there is a need for the creation of a new sub-working group to treat the testing of applications. Status of the discussion is that T1 will initially confine its testing to the "Application Enabler" (AE) functions (such as MExE, OSA, SAT and VHE) specified by 3GPP which will support the end applications generated by the Application Service Providers (such as vending, video, browser, etc). Further discussions will further detail the scope of such a group. If there is interest, resources will have to be provided by the companies.

Some concerns were expressed during TSG-T on CR 69 to TS 34.123-1 regarding the relaxing of test requirements for SMS. This CR removes the applicability of "Display of short messages" in all SMS tests. The CR was approved by TSG-T and T2 is requested to give some further guidance on this issue to T1. The related CR can be found attached as **T2-010600**.

The LS reply from T2 to T3 cc TSG-T on "TS 23.227 v4.0.0 "Application and User interaction in the UE - Principles and specific requirements" (TP-010089/**T2-010568**) was noted by TSG-T.

The LS from T2 to SA1, SA2, T3 cc TSG-T on "UE Functionality Split" (TP-010090/ **T2-010426**) was noted by TSG-T.

TSG-T's reply on a SA4 LS regarding codes type UMTS_AMR_2 (TP-010148) was copied to T2 (not mentioned on the LS header). It can be found in T2-010601.

The draft meeting report of TSG-T meeting #12 Stockholm, 13 - 15 June 2001 was available in **T2-010581**.

Regarding the CRs to 23.041 on Geographical Scope it was pointed out during TSG-T that the granularity of CBS in a 3G network is inconsistent with the granularity in the GSM environment. To have the same granularity significant changes to the specs would be necessary. It was agreed that SWG3 looks into this.

The specifications updated after T#12 can be found at:

ftp://www.3gpp.org/Specs/2001_06

1.5.2 TSG SA

A summary of issues of T2 interest from SA#12 was presented by Friedhelm RODERMUND in **T2-010580**. Please find below a summary of the main issues:

TS 23.226 v.2.0.0 (GTT Stage 2) was approved as version 5. SA decided that the reference to T2's TS 27.226 "GTT Terminal Aspects" should be removed from the GTT WID because it seems that this document is not required.

After a long debate the Work Item Description for the new Rel5 Feature on "User Equipment (UE) Management" was approved. It was agreed that a study and report providing the goals and methods to be used, the requirements and interactions with other features, including the responsibility of the different parts of the work and the timescales and phasing is produced. T2 has second responsibility for this work. Please find the WID in T2-010602.

After a long debate the WID on Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E) was approved. Interworking with MMS is one of the objectives. Please find the WID in (T2-010603).

The SA1 work item on "Enhancement of Broadcast and Introduction of Multicast" was approved. Please find it in T2-010604.

TR 22.946 version 1.0.0 on Broadcast and Multicast Services was presented for information (SP-010267). SA agreed that this document becomes a TS at a later stage because the current scope and content was appropriate for a TS, rather than a TR.

The September 2001 Plenary meeting was suggested as a good time to analyse data collected on problems and status of each work item in order to have time to take necessary action to correct the schedule. All Groups were asked to look for dependencies on other work in order to determine the critical path and problems in the completion of the work. All WGs were also asked to provide revised dates (using Calendar dates) for update to the Work Plan and to request their Rapporteurs to provide realistic time scales for the completion of their respective documents, to be collected by MCC by the end of August 2001.

SA3 proposed a revised MExE Security Analysis Activity WID. OAM&P (Operations, Administration, Maintenance & Provisioning) Enhancements – User Equipment Management was proposed to be added under linked work items. SA agreed to forward the WID to TSG-T since the WID is under T2 responsibility. Please find the revised WID in T2-010605. The lack of progress on this work item was reported to TSG-T and TSG-SA.

CN reported poor communications with T2 regarding the retrieval of terminal capabilities. They said that the communication with T2 on Parlay work and transmission of terminal capabilities to third parties needs to be worked on.

The draft meeting report of TSG SA meeting #12 Stockholm, 18 - 21 June 2001 was available in **T2-010582**.

1.5.3 TSG T2 SWG1 MExE

Mark CATALDO reported from the MExE meeting held 24-26 July in Athens, Greece hosted by the University of Athens. The meeting report can be found in **T2-010678** and the MExE T2 Edinburgh opening plenary report can be found in **T2-010663**.

Regarding CCM problems were identified in uniquely generating certificate hash. The proposed fix has to be further considered at this T2#14 MExE meeting. Some work was done on Root Public Keys. Preventing of ARPK/ORPK storage on ME is being considered. Regarding Certificate "States" it was proposed to more clearly define "states" for keys. The CLI (Classmark 4) MExE-internal "rolling CRs" were updated. The proposals to mandate a specified certificate format require further discussion. Presentations were received from Virtual Palmtop and BREW.

1.5.4 TSG T2 SWG3 MMS ad hoc

Josef LAUMEN reported from the MMS ad hoc meeting which was held 27-29 June, Braunschweig. The report can be found in **T2-010782**.

Some CRs to 23.140 were created and working assumptions on Presence, Notification, persistent storage, non-WAP-1.x implementation, MM cancel / MM were agreed.

1.5.5 UE Functionality split – Requirements

A joint SA1/T2 UE Functionality split requirements meeting was held in Dallas, 26th-28th June, 2001. The meeting report can be found in **T2-010703**. Progress on the UE split service requirements was made. A new version of the stage 1 was available in **T2-010715**. **T2-010703** includes several documents informing about the current status of UE functionality split discussions.

1.5.6 UE Functionality split – Security

A joint meeting on UE Functionality split security was held in London with SA1/SA3/T2/T3 on 3rd July. This meeting focussed on the security implications of the UE split. The report is available in **T2-010589**.

1.5.7 User Profiles

A joint T2/SA1/SA2/SA3 meeting on User Profiles was held in Kista 11th / 12th June. A definition of the user profiles was agreed. It is proposed to continue the discussion in T2. The report is available in **T2-010727**.

1.5.8 Push Services

A joint SA1/SA2/T2 meeting on Push Services was held in London 5th / 6th July. T2's involvement in this meeting was primarily to ensure that push works in harmony with MMS. No follow up action for T2 is required.

1.5.9 TSG T1

T1 had an ad hoc meeting on the 1st August on application testing. It was agreed that there was a need to have a new group for application testing but the scope and the ToR are not decided. Discussions will continue this week during the T1 meeting.

1.5.10 GSMA

T2-010583 includes the Mobile Services Initiative (M-services) guideline from GSMA and was presented by Kevin HOLLEY. This initiative is intended to promote growth in the use of mobile data services and GPRS. GSMA wants to introduce additional features into handsets which were not addressed yet according to the existing market requirements. A basic part of the guidelines is the provided Feature Roadmap.

This is for T2 for information. It's up to the terminal vendors to respond if they agree and can cope with the proposed time schedule. GSMA is now developing a further version of the document and if companies have comments they are invited to bring these to the GSMA. It was pointed out that we should ensure that correct requirements are in place before working but it seems that it is not required that we undergo work right now. If people think 3GPP should work on this then the requirements should be brought into SA1. The document was noted.

1.6 Registration and allocation of documents

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

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

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

1.7 Incoming Liaison Statements:

Please find below the list of incoming LSs including the status at the end of the meeting:

TDOC	Subject	Source	SWG	Status
T2-010590	LS from SA5 "re: MMS charging TSs"	SA5 (S5-010326)	SWG3	LS reply in 618
T2-010591	LS from SA2 "User Profiles"	SA2 (S2-011576)	SWG2	Noted
T2-010592	LS from SA2 "Push Service"	SA2 (S2-011571)	OP	Noted
T2-010593	LS from SA3 "Security and UE functionality split"	SA3 (S3-010289)	SWG2	Noted
T2-010594	LS from RAN3 "lu-BC requirements"	RAN3 (R3#21(01)1797)	SWG3	Ian Harris to seek more information
T2-010595	LS from SA5 to WAP Forum "re: Exploratory LS concerning Mobile Device Management"	SA5 (S5-010314)	SWG2	LS reply in 830
T2-010596	LS from SA5 on "User Profile"	SA5 (S5-010312)	SWG2	LS reply in 830
T2-010597	LS from SA5 "re: three related User Equipment Management liaisons"	SA5 (S5-010313)	SWG2	LS reply in 830
T2-010598	LS from SA5 "re: leveraging SyncML for Mobile Device Management"	SA5 (S5-010317)	SWG2	LS reply in 830
T2-010601	LS from TSG-T to SA4 cc T2 "UMTS_AMR2"	T (TP-010148)	SWG3	Noted
T2-010607	LS from SA1 "Clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN"	SA1 (S1 (01) 0786)	SWG3	Noted
T2-010608	LS from WAP Forum "REPLY-CHARGING FUNCTIONALITY IN 3GPP REL 4"	WAP Forum	SWG3	has a confidential attachment, treated during MMS Braunschweig as T2M010063
T2-010609	LS from SA4 "re: Extended Streaming Service"	SA4 (S4 (01)0434)	SWG3	treated during MMS Braunschweig as T2M010064/65
T2-010610	LS from SA4 "re: Extended Streaming Service and User Profile"	SA4 (S4-010431)	SWG2, SWG3	treated during MMS Braunschweig as T2M010066
T2-010611	LS from SA4 "Digital Rights Management"	SA4 (S4- (01)0429)	SWG3	treated during MMS Braunschweig as T2M010067/068
T2-010612	LS from SA3 "re: rejection of 2G authentication and key agreement by 3G ME with USIM in UTRAN"	SA3 (S3-010232)	OP	Noted
T2-010613	LS from SA2 "WI on the End-to-End QoS Architecture for Release 5"	SA2 (S2-011098)	OP	Noted
T2-010614	LS from SA3 "re: extended streaming service and user profiles"	SA3 (S3-010293)	SWG2, SWG3	Noted
T2-010615	LS from SA2 "re: conformance test requirements for application layer test"	SA2 (S2-011455)	OP	Noted
T2-010616	LS from SA3 "IMS access security and the UE split"	SA3 (S3-010400)	SWG2	Noted
T2-010617	LS from SA2 "Cell ID in SIP messages"	SA2 (S2-011697)	SWG2	LS reply in 823
T2-010619	LS from SA1 "IP Based Multimedia Services Framework Report"	SA1 (S1 (010869))	CP	Comments are invited to go into SA1 in the October time frame. Doc was also forwarded to the MMS ad hoc.
T2-010620	LS from CN3 "re: Standard method for information delivery between GPRS and an external PDN using RADIUS"	CN3 (N3-010324)	SWG3	noted, LS to WAP Forum in 811
T2-010621	LS from CN1 "Clarifications of aspects of Multimedia Capabilities [ID 1281]"	CN1 (N1-011051)	OP	Noted
T2-010622	LS from CN4 "3GPP User Profiles"	N4-010917	SWG2	Noted
T2-010623	LS from SA1 "re: New feature for SAT originated SMS"	S1-010773	SWG3	Noted
T2-010624	LS from SA1 "Adding EMS to CBS"	S1-010830	SWG3	noted, interested companies to bring input to SA1

T2-010625	LS from SA1 "re: LS reply on Extended Streaming Service" (T2-010495)	S1-010835	SWG3	Noted
T2-010626	LS from TTY Forum "CTM Bearer Bit Clarification"	TTY Forum	OP	treated via email. Manufactureres sent offline info/comments
T2-010627	LS from SA1 "Distributed Speech Recognition (DSR)" (see presentation on T2-010644)	S1-010847	CP	Noted
T2-010628	LS from SA1 "GERAN Assumption on IMS"	S1-010850	SWG2	Noted
T2-010629	LS from SA1 "Push Service Stage 1"	S1-010856	SWG3	Noted
T2-010630	LS from SA1 "IMS security and UE functionality split"	S1-010863	SWG2	Noted
T2-010631	LS from SA1 "Multimedia Broadcast/Multicast Service (MBMS)"	S1-010876	SWG3	Noted
T2-010632	LS from SA1 "re: Cell ID in SIP messages"	S1-010872	SWG2	Noted
T2-010633	LS from SA1 "Digital Rights Management"	S1-010877	SWG3	noted – Ericsson drafts CR to 22.140 on DRM requirements via SWG3 email
T2-010635	LS from SA1 "stage 1 for Extended Streaming Service"	S1 (01) 837	SWG3	Noted
T2-010636	LS from SA3 "re: LS S5-010114 (S3- 010168) on MExE and User Equipment Management"	S3-010226	SWG2	treated as T2-MExE-010061 in Athens, LS reply in 690
T2-010637	LS from SA5 "re: basic and advanced services examples (S1-010271/ S5-010302)"	S5-010413	OP	Noted
T2-010638	LS from SA5 "re: MMS Charging"	S5-010422	SWG3	LS reply in 812
T2-010639	LS from RAN3 on Alignment of 25.419 SABP with 23.041 (T2-010333 postponed from T2#13)	TSGR3#20(01) 1288	SWG3	=T2-010333 postponed from T2#13: noted
T2-010640	LS from SA1 on IM subsystem tones and announcements (T2-010336 postponed from T2#13)	S1 (01) 533	SWG2	=T2-010336 postponed from T2#13: noted
T2-010641	LS from SA1 on Terminal Capabilities (T2-010337 postponed from T2#13)	S1 (01) 539	SWG2	=T2-010337 postponed from T2#13: noted
T2-010643	LS from SA1 chairman on MMS CR (T2-010340 postponed from T2#13)	SA1 chairman	SWG3	noted, already dealt with via email
T2-010650	LS from GERAN on "UE Split functionality"	GP-011867	SWG2	Noted
T2-010654	LS from GERAN: "requirements on Multimedia Broadcast/Multicast Service"	TSGG#06(01)1913	SWG3	Noted
T2-010655	LS from SA2 Reply to LS: lu-BC requirements	S2-012450	CP	Noted
T2-010656	LS from SA2 Push Service Stage 1	S2-012422	CP	Noted
T2-010657	LS from SERG to IREG and 3GPP regarding E.164 addressing support for MMS	SERG Doc 163rev1/01	CP	postponed to MMS ad hoc
T2-010658	LS from SERG on on IP Based Multimedia Services Framework Report	SERG Doc 154/01	CP	Noted
T2-010659	LS from N1 on rejection of 2G AKA by 3G ME with USIM in UTRAN	N1-011264	CP	Noted
T2-010786	LS from GSMA MSIG on MMS	GSMA MSIG	SWG3	LS reply in 813

1.8 SWG chairmen elections

Since the 3GPP working procedures don't give guidance on SWG chairman elections, the T2 chairman proposed a simple voting procedure in **T2-010645**. There were no objections to follow this procedure. Louis FINKELSTEIN proposed to have co-chairs but Ian HARRIS pointed out that one formal SWG chair is required. A SWG could decide to have a vice-chairman if they wish. It was clarified that the role of the rapporteur has to be seen independently from the SWG chairman.

The candidates presented themselves to the opening plenary:

SWG1: Lars BRENK (TTPCom), Ernest WODDWARD (Intel)

SWG2: Prem SOOD (Sharp)

SWG3: Josef LAUMEN (Siemens)

Result SWG1:

Secret ballot:

Lars BRENK (TTPCom) 21 votes, Ernest WODDWARD (Intel) 17 votes, Invalid: 1 vote

Lars BRENK (TTPCom) was elected as the new SWG1 chairman.

Result SWG2:

Prem SOOD (Sharp) was appointed as the new SWG2 chairman.

Result SWG3:

Josef LAUMEN (Siemens) was appointed as the new SWG3 chairman.

1.8 3GPP Work Plan

The latest version of the 3GPP work plan was presented as in **T2-010584**. All WGs are requested to review and update the work plan at each meeting. The T2 SWGs were asked to do so.

1.9 Other opening plenary issues

T2-010588 on working practices was presented by Ian HARRIS making proposals to make the work in T2 even more efficient. Amongst other things he proposes a preparation period before the closing plenary, a standard format for SWG reports and a SWG output folder which is only used by the SWG chairs.

The status list of T2 specifications/reports was resented by Friedhelm RODERMUND in **T2-010578**. A rapporteur is missing for 07.07, 07.10, 27.007, 27.010.

T2-010587 on impact of T2 work on implementation was presented by Kevin HOLLEY. This paper is intended to start a discussion on the viability of the work over the whole of T2 and understand the value it adds in producing the various specifications or influencing the industry or other standardisation bodies. It was clarified that it's not intended to say that we should deviate significantly from the way we are working today but we have to look at our work and see what impact we are having and see if we can improve our work to have more impact.

It was proposed that the SWG1 group concentrates their efforts on work which has a commercial value and spend less time on other issues. Intel stressed that they would like to hear the commercial requirements regarding MExE. It was clarified that WAP2.0 version is complying with many MExE aspects. A lot of work done by the MExE group does not stay within MExE but is used by other groups. The SWG2 chairman explained that SWG2 is a kind of last resort within 3GPP for any things which impact terminals. The SWG3 chairman stated that we probably don't have to wait for a long time until MMS terminals turn up. In the past one year there seems to be a common understanding between SWG3 and WAP MMS group and the WAP Forum does stick to T2's requirement. **T2-010587** was forwarded to the SWGs for further discussion.

T2-010651 is on the continued work with applications and security framework presented by Gunilla BRATT (Ericsson). The need in 3GPP for a general Application Level Security Framework was identified. **T2-010651** was forwarded to the SWGs for further discussion.

T2-010705 is a presentation on Overview on the support of Multi-modal Browser Architecture in 3GPP. A standard-based flexible, modular and extensible architecture and associated programming model. Several items which could be addressed by 3GPP are identified. DSR is one of the building blocks. The presentation was noted. The related work item in **T2-010652** is proposed to be under SA1's responsibility. It has to be presented to SA1 to get it approved by SA.

2 Subgroup Meetings

Between T2 opening and closing plenary, three sub group sessions (SWG1, 2, 3) and a joint SA1/SWG2 session on UE split were held. The reports can be found in Annexes D-G. The results may have been changed and amended during the closing plenary. The final results of the T2#14 meeting are reported in the following section 3.

3 Closing Plenary

3.1 Joint SA1/T2 SWG2 meeting on UE split

The joint SA1/T2 SWG2 meeting on UE split was chaired by SWG2 chairman Prem SOOD (Sharp). The report was presented in **T2-010826**. It can be found in Annex G.

The Report on Service Requirements for UE Functionality Split was reviewed and various changes were agreed during this joint meeting. These changes are incorporated into **T2-010821**. The addition of **T2-010711** "Functional Distribution Scenarios For UE-Split (Existing Services)" into an annex of this technical report was agreed by the meeting will be done by the rapporteur before the next SA1 meeting.

With regards to the need for another joint meeting it was agreed that T2 SWG2 includes a joint meeting with SA1 on UE functionality split in their agenda for their next meeting in November.

3.2 Results SWG1 Execution Environment

SWG1 chairman Lars BRENK (TTPCom) presented the SWG1 closing plenary in **T2-010661**. The report can be found in Annex D.

The MExE group had a presentation by Gunilla BRATT regarding the continued work with applications and a security framework (**T2-010651**). The main message from the presentation was that the security section in the MExE specification should be based on some kind of security toolbox, which then could be used by other fora and groups. To achieve this, different suggestions were proposed, going from keeping all the work inside the MExE group, to splitting out the generic security part of the MExE specification and creating two specifications, giving S3 the responsibility of the security part. No decisions were made, but the discussions will continue in the MExE meetings to come.

The MExE group had a discussion regarding PKCS#15, and if the MExE certificate section in the (U)SIM specification (31.102) should be replaced by a reference to the WIM specification which uses PKCS#15, to store the certificates. It was agreed to send an LS to T3, asking for their advice. The LS in **T2-010692** on LS to T3 on PKCS#15 support for MExE in the USIM was agreed and sent to the ongoing T3 meeting during the week.

T2-010669 is a CR to 23.057 updating the states in the diagram D4. The term "Domainless" is replaced with the term "Deleted" and text is added to explicitly state that the executable is deleted. The CR was revised to **T2-010855** to add the "consequences if not approved". The CR was agreed.

T2-010672 is a CR to 23.057 clarifying the description of CCM Format. The figure and descriptive text for "Format of a CCM" is moved from a placement after sub-clause 8.7.3 to a placement before sub-clause 8.7.1. Figure labels or descriptive text is modified in order to have more consistent information. The CR was agreed.

T2-010681 is a CR to 23.057 on Clarification of root public keys. Currently the TS is insufficiently clear on how root public keys may be replaced, and their relationship to other root public keys of the same type. TSG-T had approved a previous version of this CR as CR92 at TSG-T#13, however as it was based on an old version of 23.057, it proved difficult for it to be incorporated. The CR was agreed.

T2-010683 is a CR to 23.057 on Trust Hierarchy and Administrator RPK. The presentation of the administrator root public key is currently disjoint. Generalized, descriptive information is added in one place. The CR was agreed.

T2-010684 is a CR to 23.057 on implementations with non-persistent Caching of RPKs. Currently, the description for not storing an operator/administrator root public key from the MExE-(U)SIM on the ME is prohibitive of implementations that can still follow the requirements written in TS 22.057. The CR was agreed.

T2-010689 is a CR to 23.057. The X.509 certificate profile is mandated as the specified MExE certificate format for signed content. The CR was agreed.

T2-010691 is a CR to 23.057 clarifying the status of applications when valid RPK not available. The TS is currently unclear on how to handle MExE executables when their valid root public key is not present. The CR was agreed.

T2-010695 is SWG1's reply to **T2-010587** on impact of T2 work which is a discussion paper addressing the impact of T2 work on implementations. The MExE group believes that the MExE work has had an impact on the terminal implementations. It might not have resulted in 'full blown' MExE terminals, but different parts of the MExE specification have been implemented in existing terminals. The MExE group still believes that there is a good reason to keep the MExE specification as a TS and not change it to a TR. A lot of action points to delegates were created due to this document. It was agreed to attach **T2-010695** to the SWG1 report (Annex G).

T2-010605 is the revised MExE Security Analysis Activity WID as proposed by SA3 to address aspects of User Equipment Management. The modified WID was agreed.

T2-010690 is an LS expressing T2's endorsement on the changes done to the MExE Security Analysis Activity WID. The LS was agreed.

3.3 Results SWG2 Terminal Interfaces

The SWG2 report in **T2-010720** was presented by SWG2 chairman Prem SOOD (Sharp). The report can be found in Annex E.

SWG2 have reviewed the Generic User Profile WID in **T2-010828**. SWG2 realised that this work item description could change during the approvals process, but wished to indicate their agreement with it as presented to the T2 plenary in this document. A work item rapporteur for the SA1 work is still missing. T2 has second responsibility for this work item and Gunilla BRATT and Rob LOCKHART agreed to be the rapporteurs for the T2 related work. The WID was endorsed.

Terminal Local Model WID: It was felt by the delegates that the possibility of a joint meeting on testing aspect of this work item with T1 on this subject should be raised at the T Plenary. T2 agreed that this should be done. A possible joint meeting could be held during T2#15 in Cancun when T1 meets at the same place.

T2-010722 is an LS to SyncML cc SA1, SA2, SA3, SA4, SA5, T3, CN4, CN5 requesting a DevMan Update. The LS was agreed.

T2-010822 is a response on UE Split Testability T1 Chairman's input. The LS was agreed.

T2-010823 is an LS to SA2 cc CN1, CN4, T2, RAN2, GERAN2, SA1, SA3 on the issue of Location Information in the SIP INVITE message. The LS was agreed.

T2-010830 is an LS response to SA5 cc SA1, SA2, SA3, SA4, T3, CN4, CN5 on Multiple Aspects of Device Management. The LS was revised to **T2-010856** and agreed.

T2-010831 is an LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications. The LS was agreed.

The T2 secretary reminded authors of LSs, CRs to take care to use a meaningful title for their docs (e.g. not only "LS response to T2-020334"). This helps very much when working with document lists and searching for a certain document or searching for several documents related to a certain subject.

T2-010706 is a CR to 27.007 on removal of +CGCLOSP and corrections due to IHOSS and OSP removal. It was decided at TSG-SA#8 to remove the IHOSS service from R98 and onwards (SP-000197). This CR aligns the targeted specification accordingly. Concerns were expressed that if in the future somebody would use an obsolete parameter value for something else then there could be some potential conflict. It was proposed that at a future meeting a table could be created of obsolete values. This proposal was welcomed. The CR was agreed. The corresponding CRs to R99 and Rel-4 were agreed as **T2-010707** and **T2-010708**.

T2-010709 is a CR to 27.007 on Removal of +CGCLPAD and corrections due to X.25 removal. Support of X.25 is no longer required for R'99 packet Domain. This CR aligns the targeted specification accordingly. The CR was agreed. The corresponding CR to Rel-4 in **T2-010710** was agreed.

T2-010716 is a CR to 27.010 on conversion of GSM to 3GPP references. The CR was agreed.

T2-010717 is a CR to 27.005 on conversion of GSM to 3GPP references. The CR was agreed.

T2-010724 revised to **T2-010857** because it was not readable. It's a CR to 21.904 correcting the AMR references. The CR was agreed.

T2-010829 is the revised WID Terminal Local Model Rel-5. Testing aspects have been added. The WID was agreed.

3.4 Results SWG3 Messaging

The report of SWG3 was presented in **T2-010732** by Josef LAUMEN. It was later revised to **T2-010858** and can be found in Annex F.

T2-010844 is an LS to T1 cc GERAN4, GERAN5, CN1, T on SMS testing. T2 has identified that the current core spec 23.040 is not correctly reflected in the test spec 34.123. The LS was agreed and sent during the meeting.

T2-010653 is an LS to T3 regarding MMS and USIM. The LS was agreed and sent during the meeting.

Due to lack of time the following documents were postponed to the next SWG3 MMS ad hoc meeting after a brief review: **T2-010744**, **T2-010774**, **T2-010779**, **T2-010780**, **T2-010787**, **T2-010788**, **T2-010745**, **T2-010746**.

T2-010759 is a CR to 23.038 on EMS support over CBS. The CR was postponed for SA1 feedback. Interested companies are invited to make input to SA1 regarding the service requirement.

T2-010755 is a document explaining about the registration of SMS and EMS MIME content types with IANA. The registration is postponed waiting for SWG3 feedback via email. *Note after the meeting: **T2-010804** is the latest revision which should be discussed via email.*

T2-010811 is an LS to the WAP Forum on MMS authentication. The LS was agreed.

T2-010812 is an LS to SA5 cc SA2 on MMS Charging. T2 would like to invite SA5 to the next ad hoc meeting on MMS in order to clarify any open issues in SA5's understanding of the MMS specifications. The LS was agreed.

T2-010814 is an LS to SA4 on the transfer of the responsibility of MMS codecs/formats. In order to streamline the 3GPP discussion and specification work on codes/formats, T2 proposes to transfer the responsibility of the MMS codecs/formats (except Text) to SA4. The LS was agreed.

T2-010851 is an LS to SA4 cc SA1, SA3 on extended streaming service. T2 asks SA4 to send a description of the proposed extended PSS, the proposed specification, and if possible, even send a representative to the next T2 meeting who will present extended PSS and help progress in integrating these features into the MMS specifications. The LS was revised to **T2-010859** and agreed.

T2-010852 is an LS to the WAP Forum cc SA1 on Future Releases of MMS. T2 requests the WAP WAG MMDC to inform about the timetable for future releases of MMS WAP specifications. The LS was agreed.

T2-010736 is a CR to 23.140 on Clarification of REL-4 MMS authentication. The re-use of underlying authentication mechanisms for the MM1 reference point in MMS has always been an implicit assumption which is now clarified. The CR was agreed. Friedhelm RODERMUND asked if further guidance is planned. Yes, as soon a related CN3 CR has been approved.

T2-010737 is a CR to 23.140 on MMS address hiding. It is clarified that allowing address hiding is optional for an MMSE but if a sender has requested anonymity then it is essential that his address is hidden from the recipient. The CR was agreed.

T2-010741 is a CR to 23.140 on New Figure 5: Interworking with different MMSEs. This CR provides a change to align figure 5 with figure 4 which deletes an ambiguity. The CR was agreed.

T2-010748 is a CR to 23.140 introducing a new information element containing the priority of a message to the notification. The CR was agreed.

T2-010803 is a CR to 23.140 on detailed notification. This CR proposes an additional functional element to be included in the MM1_notification.REQ message. The CR was agreed.

T2-010807 is a CR to 23.140 making a correction to the MMS MM4 interface. Clarification for the system address that shall be used in MM4_Forward.REQ and MM4_Forward.RES. The CR was agreed.

T2-010816 is a CR to 23.140 doing some editorial changes. The CR was agreed.

T2-010817 is a CR to 23.040 introducing a Hyperlink Information Element to become able to send an hyperlink inside an SMS message. The CR was agreed.

T2-010818 is a CR to 23.040 making the EMS PID obsolete. The corresponding CRs to Rel-4 and Rel-5 were presented in **T2-010842** and **T2-010819**. The titles were changed to "removal of EMS PID". The CRs were agreed.

T2-010840 is a CR to 23.038 on Support to UCS2 and editorial corrections. Beside other changes additional text has been added to explain the preference to the UCS 2 character set option, especially for languages that are not satisfactory covered by GSM 7 bit default alphabet. The CR was agreed.

T2-010847 is a CR to 23.040 on EMS Delivery Request. A new data format in the Extended Object Information Element is being added that allows an SME to request the type of data formats it desires to be sent. The CR was agreed by T2 with the objection of Nokia recorded. For further details on Nokia's objection see the SWG3 report.

T2-010848 is a CR to 23.140 on the refinement of the reply-charging service behaviour description. The CR is aligning information elements for the reply-charging limitation maximum size of a reply-MM with the current service behaviour description. Nokia expressed their concerns on the proposed changes because Rel-4 is frozen. See SWG3 meeting report for further details. The CR was agreed.

T2-010849 is a CR to 23.140 doing a correction to MMS MM4 interface related to the delivery report. Clarification as which entity sends the MM4_delivery_report.RES abstract message. The CR was agreed.

T2-010850 is a CR to 23.140 doing general clarifications and other editorial changes, leading to improved readability. The CR was agreed.

T2-010813 is an LS to GSMA-MSIG, SA1 on MSIG MMS stage 2 concerns. T2 asks GSMA-MSIG to clarify their concerns about MMS stage 2. In addition T2 asks for feedback regarding GSMA-MSIG's view on a non-WAP-1.x implementation. T2 asks SA1 group to consider any additional requirements concerning the possible co-existence of multiple implementations for MM1 give guidance on generic Push services for REL-5. It was proposed to add an additional statement to the LS related to the problem regarding E.164 addressing support for MMS raised in the LS from SERG (**T2-010657**). It was not agreed to change the LS to include a statement that T2 did not yet have time to consider the problem. Intel was not happy with the LS because they thought the originating LS from GSMA-MSIG was clear enough. However they did not object to send it. The LS was agreed without a change. Josef LAUMEN is mentioned as the contact on the LS and he is available for any questions.

T2-010604 is a proposed Work Item description sheet on "Enhancement of Broadcast and Introduction of Multicast" which was available for information. The work area is linked with some activity in T2 and therefore T2 should keep an eye on this work item. E.g. work on AT commands may arise. The WID was noted.

T2-010607 is an LS from SA1 on clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN. The LS was noted.

T2-010631 is an LS on Multimedia Broadcast/Multicast Service (MBMS). The LS was noted. Comments to the stage 1 TS 22.146 (**T2-010861**) are invited.

4 Future meeting schedule

Meeting	Date	Location	Host
T#13	19- 21 Sep 2001	Beijing, China	Lucent
T2 SWG3 EMS	3-5 Oct 2001	Rome	Ericsson, Magic4
T2 SWG3 MMS	22-26 October	Dortmund, Germany	Materna
T2 SWG1 MExE	23-25 October 2001	Portland, Oregon	Intel
T2#15	26 – 30 Nov 2001	Cancun, Mexico	American friends of 3GPP
T#14	12 - 14 Dec 2001	Kyoto, Japan	
T2#16	11-15 Feb 2002	tbd	Tbd
T#15	6 - 8 March 2002	Korea	
T2#17	13-17 May 2002	tbd	Tbd
T#16	5 - 7 June 2002	Marco Island, Florida	
T2#18	19-23 Aug 2002	tbd	Tbd
T#17	4 - 6 Sep 2002	France	
T2#19	18-22 Nov 2002	tbd	Tbd
T#18	4 - 6 Dec 2002	USA	

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

Companies were invited to consider hosting of future T2 meetings. A host for the February meeting is still missing.

Additionally to the meetins in the table, it was agreed to have an SWG2 ad hoc meeting. Details have still to be discussed. Care has to be taken not to clash with other meetings if possible.

Regarding the next T2 meeting in Cancun, the SK group is asking for 3 volunteers to bring LCD projectors (110V). Reward will be a diner for two! It was reported that the weekend before T2#15 is the busiest travel day of the year. Delegates are advised to avoid US airports at this weekend. Ian HARRIS requested wireline LAN connections for chairman and secretary.

A joint meeting on user profile with SA1 and other groups is under discussion.

5 Any Other Business

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

T2-010655 is an LS reply from SA2 on lu-BC requirements. The LS was noted.

T2-010656 is an LS from SA2 regarding Push Service Stage 1. The LS was noted.

T2-010657 is an LS from SERG to IREG and 3GPP regarding E.164 addressing support for MMS. The LS will be forwarded to the MMS ad hoc. SA2 information should be available by then. Friedhelm RODERMUND will create the output from SA2 into the MMS ad hoc.

T2-010658 is an LS from SERG on IP Based Multimedia Services Framework Report. The LS was noted.

T2-010659 is an LS from N1 on rejection of 2G AKA by 3G ME with USIM in UTRAN. The LS was noted.

T2-010619 is an LS from SA1 on the IP Based Multimedia Services Framework Report which identifies some high-level service requirements. This was re-presented at the closing plenary to see if some comments came up during the week. A major area which is open is messaging and some text on MMS is required. It was agreed to forward the docs to the MMS ad hoc.

T2-010627 is an LS from SA1 "Distributed Speech Recognition (DSR)" (see presentation on **T2-010644**). This was re-presented at the closing plenary to see if some comments came up during the week. If the DSR is split within the UE then this concerns the UE split discussion. Delegates are encouraged to read and provide comments if any. Ericsson does not think that it's possible to rush this issue. The LS was noted.

No outstanding issues from T2#13 in Busan were identified.

Because of time constraints the work plan was not reviewed by SWG3. Friedhelm RODERMUND will review the content of the workplan **T2-010584** together with the SWG3 chair. Result will be reported to the T2 reflector before it goes to TSG-T.

Work organisation: The T2 chairman proposed to have a stricter document deadline on the Wednesday before the meeting. Docs arriving later will be treated with low priority. E.g. if docs are arriving Friday before the meeting, experts cannot be consulted. The preparation gap before the closing plenary will be done again. There is a problem with the high workload with SWG3 and there have been proposals to split the SWG. Nokia expressed their concerns about this idea. No change for the time being.

6 Close of the Meeting

Ian HARRIS thanked all delegates and the subgroup chairmen for their contributions and work at this meeting. He thanked BT Wireless, Vodafone, One2One, Orange, and Hutchison 3G for hosting the meeting in Edinburgh and for the excellent organisation and facilities including the wireless LAN. Thanks also to Nokia and Ericsson for hosting the whisky tasting social event.

Annex A List of all temporary documents

TDOC	Subject	Source	SWG
T2-010575	Draft Meeting Report T2#13, Busan, Korea 14-18 May 2001	T2 secretary	OP
T2-010576	Draft Agenda T2#14	T2 chairman	OP
T2-010577	IPR guidance	MCC	OP
T2-010578	T2 specs status list	MCC	OP
T2-010579	3GPP meeting calendar	MCC	CP
T2-010580	Summary of T#12 and SA#12 issues of T2 interest	T2 secretary	OP
T2-010581	Draft Report of TSG-T meeting #12 Stockholm, 13 - 15 June 2001	T secretary	OP
T2-010582	Draft Report of TSG SA meeting #12 Stockholm, 18 - 21 June 2001	SA secretary	OP
T2-010583	M-Services Guidelines	GSMA	OP
T2-010584	3GPP work plan	MCC	SWG3
T2-010585	Impact of T2 work on implementation (revised to T2-010587)	BT	OP
T2-010586	WID Support of Multi-modal and Multi-device browsers applications	IBM, Sony	OP
T2-010587	Impact of T2 work on implementation (revised T2-010585)	BT	OP
T2-010588	working practices	T2 chairman	OP
T2-010589	Draft report for joint S1/S3/T2/T3 meeting about security implications of UE functional split 3rd July 2001 - version 0.0.3	MCC	SWG2
T2-010590	LS from SA5 "re: MMS charging TSs"	SA5 (S5-010326)	SWG3
T2-010591	LS from SA2 "User Profiles"	SA2 (S2-011576)	SWG2
T2-010592	LS from SA2 "Push Service"	SA2 (S2-011571)	OP
T2-010593	LS from SA3 "Security and UE functionality split"	SA3 (S3-010289)	SWG2
T2-010594	LS from RAN3 " lu-BC requirements"	RAN3 (R3#21(01)1797)	SWG3
T2-010595	LS from SA5 to WAP Forum "re: Exploratory LS concerning Mobile Device Management"	SA5 (S5-010314)	SWG2
T2-010596	LS from SA5 on "User Profile"	SA5 (S5-010312)	SWG2
T2-010597	LS from SA5 "re: three related User Equipment Management liaisons"	SA5 (S5-010313)	SWG2
T2-010598	LS from SA5 "re: leveraging SyncML for Mobile Device Management"	SA5 (S5-010317)	SWG2
T2-010599	T3 work item Definition and Specification of a Transport Protocol for the USIM application	T3 (TP-010112)	SWG2
T2-010600	CR 34.123-1: Update to 16. SMS test specification	T1 (TP-010121)	SWG3
T2-010601	LS from TSG-T to SA4 cc T2 "UMTS_AMR2"	T (TP-010148)	SWG3
T2-010602	approved WID User Equipment (UE) Management (Feature) Feasibility Study	SA (S#12(01)0286)	SWG2
T2-010603	approved WID Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E)	SA (SP-010392)	SWG3
T2-010604	approved WID Enhancement of Broadcast and Introduction of Multicast	SA (SP-010268)	SWG3
T2-010605	WID MExE Security Analysis revised	SA (S#12(01)0327)	SWG1
T2-010606	LS to CN3 cc SA2, SA3 on "Transmission of user identity from a GGSN to MMS Relay/Server"	T2 (T2M010093)	OP
T2-010607	LS from SA1 "Clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN"	SA1 (S1 (01) 0786)	SWG3
T2-010608	LS from WAP Forum "REPLY-CHARGING FUNCTIONALITY IN 3GPP REL 4"	WAP Forum	SWG3
T2-010609	LS from SA4 "re: Extended Streaming Service"	SA4 (S4 (01)0434)	SWG3
T2-010610	LS from SA4 "re: Extended Streaming Service and User Profile"	SA4 (S4-010431)	SWG2, SWG3
T2-010611	LS from SA4 "Digital Rights Management"	SA4 (S4-(01)0429)	SWG3
T2-010612	LS from SA3 "re: rejection of 2G authentication and key agreement by 3G ME with USIM in UTRAN"	SA3 (S3-010232)	OP
T2-010613	LS from SA2 "WI on the End-to-End QoS Architecture for Release 5"	SA2 (S2-011098)	OP
T2-010614	LS from SA3 "re: extended streaming service and user profiles"	SA3 (S3-010293)	SWG2,SW

			G3
T2-010615	LS from SA2 "re: conformance test requirements for application layer test"	SA2 (S2-011455)	OP
T2-010616	LS from SA3 "IMS access security and the UE split"	SA3 (S3-010400)	SWG2
T2-010617	LS from SA2 "Cell ID in SIP messages"	SA2 (S2-011697)	SWG2
T2-010618	LS to SA2, SA5 cc: CN2 "MMS charging"	T2 (T2M010090)	SWG3
T2-010619	LS from SA1 "IP Based Multimedia Services Framework Report"	SA1 (S1 (010869))	CP
T2-010620	LS from CN3 "re: Standard method for information delivery between GPRS and an external PDN using RADIUS"	CN3 (N3-010324)	SWG3
T2-010621	LS from CN1 "Clarifications of aspects of Multimedia Capabilities [ID 1281]"	CN1 (N1-011051)	OP
T2-010622	LS from CN4 "3GPP User Profiles"	N4-010917	SWG2
T2-010623	LS from SA1 "re: New feature for SAT originated SMS"	S1-010773	SWG3
T2-010624	LS from SA1 "Adding EMS to CBS"	S1-010830	SWG3
T2-010625	LS from SA1 "re: LS reply on Extended Streaming Service" (T2-010495)	S1-010835	SWG3
T2-010626	LS from TTY Forum "CTM Bearer Bit Clarification"	TTY Forum	OP
T2-010627	LS from SA1 "Distributed Speech Recognition (DSR)" (see presentation on T2-010644)	S1-010847	CP
T2-010628	LS from SA1 "GERAN Assumption on IMS"	S1-010850	SWG2
T2-010629	LS from SA1 "Push Service Stage 1"	S1-010856	SWG3
T2-010630	LS from SA1 "IMS security and UE functionality split"	S1-010863	SWG2
T2-010631	LS from SA1 "Multimedia Broadcast/Multicast Service (MBMS)"	S1-010876	SWG3
T2-010632	LS from SA1 "re: Cell ID in SIP messages"	S1-010872	SWG2
T2-010633	LS from SA1 "Digital Rights Management"	S1-010877	SWG3
T2-010634	LS to SA4 "MMS digital rights management"	T2 (T2-M010089)	SWG3
T2-010635	LS from SA1 "stage 1 for Extended Streaming Service"	S1 (01) 837	SWG3
T2-010636	LS from SA3 "re: LS S5-010114 (S3- 010168) on MExE and User Equipment Management"	S3-010226	SWG2
T2-010637	LS from SA5 "re: basic and advanced services examples (S1-010271/ S5-010302)"	S5-010413	OP
T2-010638	LS from SA5 "re: MMS Charging"	S5-010422	SWG3
T2-010639	LS from RAN3 on Alignment of 25.419 SABP with 23.041 (T2-010333 postponed from T2#13)	TSGR3#20(01) 1288	SWG3
T2-010640	LS from SA1 on IM subsystem tones and announcements (T2-010336 postponed from T2#13)	S1 (01) 533	SWG2
T2-010641	LS from SA1 on Terminal Capabilities (T2-010337 postponed from T2#13)	S1 (01) 539	SWG2
T2-010642	LS from GSMA MSIG on MMS	GSMA MSIG	SWG3
T2-010643	LS from SA1 chairman on MMS CR (T2-010340 postponed from T2#13)	SA1 chairman	SWG3
T2-010644	DSR in 3GPP (background to T2-010627)	IBM	OP
T2-010645	Voting procedure for SWG chairman	T2 chairman	OP
T2-010646	LS to T3 on PKCS#15	SWG1	SWG1
T2-010647	CR 31.102: MExE certificate storage on the USIM	Vodafone	SWG1
T2-010648	document handling proposal	vice-chair	officials
T2-010649	proposal for drafting SWG reports	vice-chair	officials
T2-010650	Liaison Statement on "UE Split functionality"	GP-011867	SWG2
T2-010651	the continued work with applications and security framework	Ericsson	OP
T2-010652	WID multimodal browser (replaces 586)	Sony, IBM	OP
T2-010653	LS to T3: MMS and USIM (revised 757)	SWG3	OP
T2-010654	LS from GERAN: "requirements on Multimedia Broadcast/Multicast Service"	TSGG#06(01)1913	SWG3
T2-010655	LS from SA2 Reply to LS: lu-BC requirements	S2-012450	CP
T2-010656	LS from SA2 Push Service Stage 1	S2-012422	CP
T2-010657	LS from SERG to IREG and 3GPP regarding E.164 addressing support for MMS	SERG Doc 163rev1/01	CP

T2-010658	LS from SERG on on IP Based Multimedia Services Framework Report	SERG Doc 154/01	CP
T2-010659	LS from N1 on rejection of 2G AKA by 3G ME with USIM in UTRAN	N1-011264	CP
T2-010660	draft agenda SWG1 MExEat T2#14	Chairman	SWG1
T2-010661	report of SWG1 MExE at T2#14	BT	SWG1
T2-010662	Report of MExE Athens meeting (T2-MExE-010049)	BT	SWG1
T2-010663	Opening plenary presentation of the MExE Athens Meeting	Chairman	SWG1
T2-010664	MExE e-mail process report	TTPCom	SWG1
T2-010665	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia	SWG1
T2-010666	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	Intel	SWG1
T2-010667	CR 23.057: Clarification of root public keys (T2-MExE-010082)	Motorola	SWG1
T2-010668	CR 23.057: Certificate fingerprints for CCM CRL (T2-MExE-010051)	Telstra, Motorola	SWG1
T2-010669	CR 23.057: Update to the states in the diagram D4 (T2-MExE-010084)	Vodafone	SWG1
T2-010670	CR 23.057: CLI classmark 4 – non-security	Microsoft	SWG1
T2-010671	CR 23.057: CLI classmark 4 – security	Microsoft	SWG1
T2-010672	CR 23.057: Clarifying Description of CCM Format	Intel	SWG1
T2-010673	Clarification on state of certificates	Ericsson	SWG1
T2-010674	A specified certificate format for MExE	Vodafone	SWG1
T2-010675	Trust Hierarchy and Administrator RPK	Intel	SWG1
T2-010676	Implementations with Non-persistent Caching of RPKs	Intel	SWG1
T2-010677	Requiring a Certificate for Root Public Keys	Intel	SWG1
T2-010678	Report of MExE Athens meeting (T2-MExE-010085)	BT	SWG1
T2-010679	ARPK and CCM	Vodafone	SWG1
T2-010680	CR 23.057: Status of applications when valid RPK not available	SWG1	SWG1
T2-010681	CR 23.057: Clarification of root public keys	Motorola	SWG1
T2-010682	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1	SWG1
T2-010683	CR 23.057: CR 23.057: Trust Hierarchy and Administrator RPK	Intel	SWG1
T2-010684	CR 23.057: Implementations with Non-persistent Caching of RPKs	Intel	SWG1
T2-010685	ARPK and CCM - WITHDRAWN	Vodafone	SWG1
T2-010686	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson	SWG1
T2-010687	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1	SWG1
T2-010688	A specified certificate format for MExE	Vodafone	SWG1
T2-010689	CR 23.057: A specified certificate format for MExE	Vodafone	SWG1
T2-010690	LS to SA3 cc SA5 on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia	SWG1
T2-010691	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	SWG1	SWG1
T2-010692	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1	SWG1
T2-010693	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson	SWG1
T2-010694	Notes from MExE breakout meeting on impact of T2 work	Intel	SWG1
T2-010695	reply to T2 on impact of T2 work (reply to T2-010597)	SWG1	SWG1
T2-010696	not used		SWG1
T2-010697	not used		SWG1
T2-010698	not used		SWG1
T2-010699	not used		SWG1
T2-010700	draft agenda SWG2 at T2#14		SWG2
T2-010701	report of SWG2 at T2#14		SWG2
T2-010702	CR 21.904: correction of AMR references	Sharp	SWG2
T2-010703	Current Status of UE Functionality Split Discussions	Sharp	SWG2

T2-010704	Abstract Service Primitives for the R interface	Sierra Wireless	SWG2
T2-010705	Overview on the support of Multi-modal Browser Architecture in 3GPP	Sony	SWG2
T2-010706	CR to 07.07 R98 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010707	CR to 27.007 R99 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010708	CR to 27.007 R4 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	SWG2
T2-010709	CR to 27.007 R99 Removal +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2
T2-010710	CR to 27.007 R4 Removal +CGCLPAD and corrections due to X.25 removal	Ericsson	SWG2
T2-010711	Functional Distribution Scenarios For UE-Split (Existing Services)	Nortel Networks	SWG2
T2-010712	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	SWG2
T2-010713	CR 27.007 R99: Different compression algorithms in AT command +CGDCONT	Siemens	SWG2
T2-010714	CR 27.007 REL-4: Different compression algorithms in AT command +CGDCONT	Siemens	SWG2
T2-010715	Draft TR: Service requirements for the IP Multimedia; Requirements Report on UE Functionality Split	S1 UE Split Adhoc	SWG2
T2-010716	CR 27.010 REL-4: Conversion of GSM to 3GPP references	MCC	SWG2
T2-010717	CR 27.005 REL-4: Conversion of GSM to 3GPP references	MCC	SWG2
T2-010718	"test" consequences of splitting the functionality of the UE over several physical devices	T1 chairman	SWG2
T2-010719	Addition of Testing capabilities to the BB "Terminal Local Model (TP-010145)	Cetecom/Materna	SWG2
T2-010720	Draft Meeting Report of SWG2 at T2#14, Rev.1	Secretary	SWG2
T2-010721	LS Response to SA 5 on 595, 597, 598, 602	R. Lockhart	SWG2
T2-010722	LS to SyncML cc SA1, SA2, SA3, SA4, SA5, T3, CN4, CN5 requesting DevMan update	R. Lockhart	SWG2
T2-010723	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	R. Lockhart	SWG2
T2-010724	CR 21.904: correction of AMR references	Sharp	SWG2
T2-010725	CR 27.007 R99: Different compression algorithms in AT command +CGDCONT (713 Modified)	Siemens	SWG2
T2-010726	CR 27.007 REL-4: Different compression algorithms in AT command +CGDCONT (714 modified)	Siemens	SWG2
T2-010727	Report and Output of User Profile Ad-Hoc	Siemens	SWG2
T2-010728	Draft Generic S1 WID User Profile	S1-01828	SWG2
T2-010729	Agreed Generic S1 WID User Profile	S1-01865	SWG2
T2-010730	Report of UE Split Joint Meeting SA1/T2	Secretary	SWG2
T2-010731	draft agenda SWG3 at T2#14		SWG3
T2-010732	report of SWG3 at T2#14		SWG3
T2-010733	discussion paper: Support of optional 7 bit Latin alphabet extension tables in 03.38	Cesky Mobil	SWG3
T2-010734	CR 23.040: Line Drawing as Extended Object in EMS	CWTS, ZTE, Eastcom, Xococo, TCL and Bijitec	SWG3
T2-010735	Bijitec Drawing Messaging - White Paper	Bijitec	SWG3
T2-010736	CR 23.140: Clarification of REL-4 MMS authentication	T2-SWG3#7 MMS ad hoc	SWG3
T2-010737	CR 23.140: MMS address hiding	T2-SWG3#7 MMS ad hoc	SWG3
T2-010738	CR 23.140: Detailed Notification	T2-SWG3#7 MMS ad hoc	SWG3
T2-010739	Comments to T2-010733: Additional 7 bit Latin alphabet extension tables in 23.038	Motorola, Nokia, Siemens	SWG3
T2-010740	CR to 23.140 R4 - Refinement of the reply-charging service behaviour description	Logica, Materna, Motorola, Siemens	SWG3
T2-010741	CR to 23.140 R5 - New Figure 5	Siemens	SWG3

T2-010742	CR to 23.140 R4 - Solution to the backwards compatibility problem with new and optional features in MMS	Siemens	SWG3
T2-010743	3GPP MMS MM1 Mappings on IETF Messaging Protocols	Openwave	SWG3
T2-010744	CR 23.140: MMS MM1 Technical Realisation Using Existing IETF Messaging Protocols	Openwave	SWG3
T2-010745	persistent storage functionality	Openwave	SWG3
T2-010746	T2-010746 (3GPP MMS MSISDN Address Resolution v1.0)	Openwave	SWG3
T2-010747	T2-010747 (MMS Protocol Stacks)	Openwave	SWG3
T2-010748	CR 23.140: Priority field in notification message	Siemens	SWG3
T2-010749	withdrawn		SWG3
T2-010750	CR 23.140 Rel-5: Editorial changes	Nokia	SWG3
T2-010751	Agenda Seattle MMS meeting	Openwave	SWG3
T2-010752	Report Seattle MMS meeting	Openwave	SWG3
T2-010753	Transfer of the responsibility of MMS codecs&formats	Nokia	SWG3
T2-010754	CR 23.140 REL-4: Correction to MMS MM4 interface	Nokia	SWG3
T2-010755	Discussion on the registration of SMS and EMS MIME content types with IANA	Alcatel	SWG3
T2-010756	Network based message storage	Nokia	SWG3
T2-010757	LS from T2 to T3 - MMS and USIM	Siemens	OP
T2-010758	Answers to T2-010739 and new proposal to TS 23.038	Cesky Mobil	SWG3
T2-010759	CR 23.038: EMS support over CBS (T2-010502)	Swapcom	SWG3
T2-010760	Hyperlink Information Element in EMS (T2-010491)	Swapcom	SWG3
T2-010761	Subaddressing Scheme for EMS (T2-010492)	Swapcom	SWG3
T2-010762	CR 23.040: EMS PID	Motorola	SWG3
T2-010763	CR 23.040: IE Classification	Motorola	SWG3
T2-010764	CR 23.040: EMS Capability IE	Motorola	SWG3
T2-010765	IP Based MM1 Proposal	Motorola	SWG3
T2-010766	Discussion on EMS	Alcatel, Motorola	SWG3
T2-010767	CR 23.040: IE capability	Alcatel, Motorola	SWG3
T2-010768	MM1 IP Implementation Discussion	Motorola	SWG3
T2-010769	withdrawn		SWG3
T2-010770	withdrawn		SWG3
T2-010771	withdrawn		SWG3
T2-010772	Why EMS over CBS?	Swapcom	SWG3
T2-010773	CR 23.140 Rel-4: Correction to MMS MM4 interface, delivery report	Nokia	SWG3
T2-010774	requirement for a MMS API	BT Wireless	SWG3
T2-010775	withdrawn		SWG3
T2-010776	presentation IP based MMS	Comverse	SWG3
T2-010777	withdrawn		SWG3
T2-010778	withdrawn		SWG3
T2-010779	Delivery reports to VASP	Comverse	SWG3
T2-010780	possilbe protocols discussed for MM7	Materna	SWG3
T2-010781	vector graphics in EMS	ZoomOn	SWG3
T2-010782	SWG3 MMS report 27-29 June, Braunschweig	Openwave	SWG3
T2-010783	Updated T2 SWG3 Agenda	Siemens	SWG3
T2-010784	T2M010095 CR 23.140 Revised T2M010086 - Clarifications and Editorial Changes	Openwave	SWG3
T2-010785	EMS: Line Drawing Object presentation	Bijitec	SWG3
T2-010786	LS in: Revised T2-010642 (MMS concerns)	GSMA-MSIG	SWG3
T2-010787	VASP connectivity principles - revised 775	Comverse	SWG3
T2-010788	VASP MM7 presentation - revised 777	Comverse	SWG3

T2-010789	EMS: Line Drawing demo video	Bijitec	SWG3
T2-010790	not used		SWG3
T2-010791	not used		SWG3
T2-010792	not used		SWG3
T2-010793	not used		SWG3
T2-010794	not used		SWG3
T2-010795	not used		SWG3
T2-010796	not used		SWG3
T2-010797	not used		SWG3
T2-010798	not used		SWG3
T2-010799	not used		SWG3
T2-010800	CR 23.040 REL-5: compression object definition	Magic4	SWG3
T2-010801	Changes to 23.140 on MMS codecs	BT Wireless	SWG3
T2-010802	Revised T2-010760 - Hyperlink in EMS	Swapcom	SWG3
T2-010803	CR 23.140: Detailed Notification (revised 738)	T2-SWG3#7 MMS ad hoc	SWG3
T2-010804	Discussion on the registration of SMS and EMS MIME content types with IANA (revised 755)	Alcatel	SWG3
T2-010805	CR 23.140 REL-4: Correction to MMS MM4 interface (revised 754)	Nokia	SWG3
T2-010806	CR to 23.140 R4 - Refinement of the reply-charging service behaviour description (revised 740)	Logica, Materna, Motorola, Siemens	SWG3
T2-010807	CR 23.140 REL-4: Correction to MMS MM4 interface (revised 805)	Nokia	SWG3
T2-010808	CR to 23.140 R4 - Solution to the backwards compatibility problem with new and optional features in MMS	Siemens	SWG3
T2-010809	LS to SA4 on status of DRM and up-streaming	Converse	SWG3
T2-010810	LS to WAP Forum	Comverse	SWG3
T2-010811	LS to WAP Forum on MMS authentication	Siemens	SWG3
T2-010812	LS to SA5 cc SA2 on MMS charging	Siemens	SWG3
T2-010813	LS to GSMA-MSIG, SA1 on MSIG MMS stage 2 concerns	Siemens	SWG3
T2-010814	LS to SA4 on MMS codecs specification	Nokia	SWG3
T2-010815	Principles of MM3 Implementation	Comverse	SWG3
T2-010816	CR 23.140 Rel-5: Editorial changes (revised 750)	Nokia	SWG3
T2-010817	CR 23.140 Revised Hyperlink Information element (revised 845)	SWAPCOM / ALCATEL / ERICSSON	SWG3
T2-010818	CR 23.040: EMS PID REL99 (revised 841)	Motorola	SWG3
T2-010819	CR 23.040: EMS PID REL-5 (revised 843)	Motorola	SWG3
T2-010820	UE Functionality Split vs Optimised Voice	N. Anderson	SWG2
T2-010821	Draft TR on UE Split with Joint meeting's suggested changes	Meeting	SWG2
T2-010822	LS response to T1 on UE Split testability T1 Chairman's input	SWG2 Chair	SWG2
T2-010823	LS to SA2 cc CN1, CN4, T2, RAN2, GERAN2, SA1, SA3 Response to T2-010617	R. Lockhart	SWG2
T2-010824	WID for UE Functionality Split	K. Holley	SWG2
T2-010825	Updated WID for UE Functionality Split	K. Holley	SWG2
T2-010826	Report of UE Split Joint Meeting SA1/T2 rev 1	Secretary	SWG2
T2-010827	Testability aspects of Terminal Local Model Interactions	Materna/Cetecom	SWG2
T2-010828	WID User Profile	SA-1 Chairman	SWG2
T2-010829	WID Testability aspects of Terminal Local Model Interactions	Materna/Cetecom	SWG2
T2-010830	LS Response to SA 5 on 595, 597, 598, 602	R. Lockhart	SWG2
T2-010831	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	R. Lockhart	SWG2
T2-010832	not used		SWG2
T2-010833	not used		SWG2

T2-010834	not used		SWG2
T2-010835	not used		SWG2
T2-010836	not used		SWG2
T2-010837	not used		SWG2
T2-010838	not used		SWG2
T2-010839	not used		SWG2
T2-010840	CR 23.038 Editorial and UCS2 preference	Cesky Mobil	SWG3
T2-010841	EMS PID REL99	Motorola	SWG3
T2-010842	CR 23.040: EMS PID REL-4	Motorola	SWG3
T2-010843	EMS PID REL-5	Motorola	SWG3
T2-010844	LS to T1 cc GERAN4, GERAN5, CN1, T on SMS testing	Siemens	SWG3
T2-010845	Revised Hyperlink Information element	SWAPCOM / ALCATEL / ERICSSON	SWG3
T2-010846	EMS Delivery Request Indicator - revised 764	Motorola	SWG3
T2-010847	CR 23.040: EMS Delivery Request Indicator (revised 846)	Motorola	SWG3
T2-010848	CR to 23.140 R4 - Refinement of the reply-charging service behaviour description (revised 806)	Logica, Materna, Motorola, Siemens	SWG3
T2-010849	CR 23.140 Rel-4: Correction to MMS MM4 interface, delivery report (revised 773)	Nokia	SWG3
T2-010850	CR 23.140 - Clarifications and Editorial Changes (revised 784)	Openwave	SWG3
T2-010851	LS to SA4 cc SA1, SA3 on status of DRM and up-streaming (revised 809)	Comverse	SWG3
T2-010852	LS to WAP Forum cc SA1 on Future Releases of MMS (revised 810)	Comverse	SWG3
T2-010853	Not used		SWG3
T2-010854	Not used		SWG3
T2-010855	CR 23.057: Update to the states in the diagram D4 (revised 669)	Vodafone	SWG1
T2-010856	LS to SA5 cc SA1, SA2, SA3, SA4, T3, CN4, CN5 response on Multiple Aspects of Device Management (revised 830)	R. Lockhart	SWG2
T2-010857	CR 21.904: correction of AMR references (revised 724)	Sharp	SWG2
T2-010858	SWG3 report at T2#14 (revised 732)		SWG3
T2-010859	LS to SA4 cc SA1, SA3 on status of DRM and up-streaming (revised 851)	Comverse	SWG3
T2-010860	WID multimodal browser (revised 652, renamed because not readable)	Sony, IBM	
T2-010861	stage 1 Multimedia Broadcast/Multicast Service	SA1	CP

Annex B Outgoing Documents

B.1 Change Requests submitted to TSG-T#13

The following CRs will be submitted to TSG-T#13 for approval:

"MExE" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.057	086	1	Rel-4	Status of applications when valid RPK not available	F	4.2.0	4.3.0	T2-010691	MEXE-ENHANC
23.057	092	1	Rel-4	Clarification of root public keys	F	4.2.0	4.3.0	T2-010681	MEXE-ENHANC
23.057	093		Rel-4	Update to the states in the diagram D4	F	4.2.0	4.3.0	T2-010855	MEXE-ENHANC
23.057	094		Rel-4	Clarifying Description of CCM Format	F	4.2.0	4.3.0	T2-010672	MEXE-ENHANC
23.057	095		Rel-4	Trust Hierarchy and Administrator RPK	F	4.2.0	4.3.0	T2-010683	MEXE-ENHANC
23.057	096		Rel-4	Implementations with Non-persistent Caching of RPKs	F	4.2.0	4.3.0	T2-010684	MEXE-ENHANC
23.057	097		Rel-4	A specified certificate format for MExE	F	4.2.0	4.3.0	T2-010689	MEXE-ENHANC

"Terminal Interfaces and Capabilities" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
07.07	A090		R98	Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	F	7.6.0	7.7.0	T2-010706	TEI
21.904	009		R99	Corrections to References List, AMR Specifications	F	3.3.0	3.4.0	T2-010857	TEI
27.005	002		Rel-4	Conversion of GSM to 3GPP references	F	4.0.0	4.1.0	T2-010717	TEI4
27.007	069		R99	Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	A	3.9.0	3.10.0	T2-010707	TEI
27.007	070		Rel-4	Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	A	4.2.0	4.3.0	T2-010708	TI-ATC
27.007	071		R99	Removal of +CGCLPAD and corrections due to X.25 removal	F	3.9.0	3.10.0	T2-010709	TEI
27.007	072		Rel-4	Removal of +CGCLPAD and corrections due to X.25 removal	A	4.2.0	4.3.0	T2-010710	TI-ATC
27.010	006		Rel-4	Conversion of GSM to 3GPP references	F	4.0.0	4.1.0	T2-010716	TEI4

"Messaging" Change Requests

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.038	007		Rel-4	Support to UCS2 and editorial corrections	F	4.2.0	4.3.0	T2-010840	TEI4
23.040	029		Rel-5	Hyperlink Information Element	B	5.0.0	5.1.0	T2-010817	TEI5
23.040	030		R99	Removal of EMS PID	F	3.5.0	3.6.0	T2-010818	TEI
23.040	031		Rel-5	Removal of EMS PID	A	5.0.0	5.1.0	T2-010819	MESS5-EMS
23.040	032		Rel-4	Removal of EMS PID	A	4.3.0	4.4.0	T2-010842	TEI4
23.040	033		Rel-5	EMS Delivery Request	B	5.0.0	5.1.0	T2-010847	MESS5-EMS
23.140	008		Rel-4	Clarification of REL-4 MMS authentication	F	4.3.0	4.4.0	T2-010736	MMS
23.140	009		Rel-4	MMS address hiding	F	4.3.0	4.4.0	T2-010737	MMS
23.140	010		Rel-5	New Figure 5: Interworking with different MMSEs	D	4.3.0	5.0.0	T2-010741	MESS5-MMS
23.140	011		Rel-5	Priority field in notification message	B	4.3.0	5.0.0	T2-010748	MESS5-MMS
23.140	012		Rel-5	Detailed Notification	B	4.3.0	5.0.0	T2-010803	MESS5-MMS

23.140	013		Rel-4	Correction to MMS MM4 interface	F	4.3.0	4.4.0	T2-010807	MMS
23.140	014		Rel-5	Editorial changes	D	4.3.0	5.0.0	T2-010816	MESS5-MMS
23.140	015		Rel-4	Refinement of the reply-charging service behaviour description.	F	4.3.0	4.4.0	T2-010848	MMS
23.140	016		Rel-4	Correction to MMS MM4 interface, delivery report	F	4.3.0	4.4.0	T2-010849	MMS
23.140	017		Rel-5	Clarifications and Editorial Changes	F	4.3.0	5.0.0	T2-010850	MESS5-MMS

B.2 Liaison Statements

The following LSs have been sent from T2#14:

TDOC	Subject	Comments
T2-010653	LS to T3: MMS and USIM	sent 03/09/01 (during the meeting)
T2-010690	LS to SA3 cc SA5 on MExE Security Analysis Activity	sent 10/09/01
T2-010692	LS to T3 on PKCS#15 support for MExE in the USIM	sent 04/09/01 (during the meeting)
T2-010722	LS to SyncML cc SA1, SA2, SA3, SA4, SA5, T3, CN4, CN5 requesting DevMan update	sent 10/09/01
T2-010811	LS to WAP Forum on MMS authentication	sent 10/09/01
T2-010812	LS to SA5 cc SA2 on MMS charging	sent 10/09/01
T2-010813	LS to GSMA-MSIG, SA1 on MSIG MMS stage 2 concerns	sent 10/09/01
T2-010814	LS to SA4 on MMS codecs specification	sent 10/09/01
T2-010822	LS response to T1 on UE Split testability T1 Chairman's input	sent 10/09/01
T2-010823	LS to SA2 cc CN1, CN4, T2, RAN2, GERAN2, SA1, SA3 Response to T2-010617	sent 10/09/01
T2-010831	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	sent 10/09/01
T2-010844	LS to T1 cc GERAN4, GERAN5, CN1, T on SMS testing	sent 06/09/01 (during the meeting)
T2-010852	LS to WAP Forum cc SA1 on Future Releases of MMS	sent 10/09/01
T2-010856	LS to SA5 cc SA1, SA2, SA3, SA4, T3, CN4, CN5 response on Multiple Aspects of Device Management	sent 10/09/01
T2-010859	LS to SA4 cc SA1, SA3 on status of DRM and up-streaming	sent 10/09/01

B.3 Reports/Specifications submitted to TSG-T#13

No specifications/reports to be forwarded to TSG-T#13.

B.4 Other documents submitted to TSG-T#13

The following other documents were agreed to be submitted to TSG-T#13:

TDOC	Subject
T2-010605	Revised WID MExE security analysis Rel-5 for approval
T2-010828	WID The 3GPP Generic User Profile for information
T2-010829	Revised WID Terminal Local Model Rel-5 for approval

Annex C: List of Participants

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Total number of delegates: 107

Annex D: Report from SWG1 Execution Environment

T2-010661

Chairman: Mark Cataldo (Openwave) / Lars Brenk (TTPCom)

Secretary: Tim Costello (BT)

Executive Summary:

2 LS's and 7 CR's were the outputs of this MExE session.

The MExE group had a discussion regarding PKCS#15, and if the MExE certificate section in the (U)SIM specification (31.102) should be replaced by a reference to the WIM specification which uses PKCS#15, to store the certificates. It was agreed to send an LS to T3, asking for their advice (tdoc 692, 693).

Different clarification CR's regarding the security section (tdoc 691).

After some discussion, the MExE group decided that the X.509 certificate format was to be the mandated certificate format, which a MExE device shall support (tdoc 689).

Clarification regarding the caching mechanism in a MExE device for certificates read from a (U)SIM (tdoc 684).

There were no big changes to the two rolling CR's, dealing with CLI as a 4th classmark (tdoc 670, 671)

The MExE group also had a presentation regarding the continued work with applications and a security framework. (tdoc 651). Gunilla made the presentation and a quite lengthy debate took place afterwards. The main message from the presentation was that the security section in the MExE specification should be based on some kind of security toolbox, which then could be used by other fora and groups.

To achieve this, different suggestions were proposed, going from keeping all the work inside the MExE group, to splitting out the generic security part of the MExE specification and creating two specifications, giving S3 the responsibility of the security part.

No decisions were made, but the discussions will continue in the MExE meetings to come.

Another lengthy discussion was created by tdoc 587 from the open plenary. It was a discussion paper, which addressed the impact of T2 work on implementations. A lot of action points to delegates were created due to this document, and the official response to the closing plenary from the MExE group can be found in tdoc 695.

Opening of the meeting

The Chairman (Mark Cataldo, Openwave) opened the meeting, with the secretary (Tim Costello, BT) welcomed delegates and thanked the hosts for their kind invitation. Mark agreed to chair the first day of the meeting and then hand over to the new chairman (Lars Brenk).

Approval of the draft agenda

Tdoc	Subject	SOURCE
T2-010660	Draft SWG1 MExE agenda (draft C)	Chairman

note - modify the title of for future meetings to include 'SWG1'

Conclusion:

The agenda was agreed.

Introductions

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

Call for IPR

The Chairman re-iterated the call for IPR made during the opening plenary.

Registration of Input Documents

Meeting documents may be found at http://www.3gpp.org/ftp/tsg_t/WG2_Capability/TSMT2_14/Docs/

Tdoc	Subject	SOURCE
T2-010587	Impact of T2 work on implementation	BT
T2-010605	revised WID MExE Security Analysis	SA
T2-010646	LS to T3 on PKCS#15	Vodafone
T2-010647	CR 31.102 MExE certificate storage on the USIM	Vodafone
T2-010651	The continued work with applications and a security framework	Ericsson
T2-010660	Draft SWG1 MExE agenda	Chairman
T2-010661	Report of SWG1 MExE at T2#14	BT
T2-010662	Report of MExE Athens meeting (T2-MExE-010049)	BT

T2-010663	Opening plenary presentation of the MExE Athens Meeting	Chairman
T2-010664	MExE e-mail process report	TTPCom
T2-010665	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia
T2-010666	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	Intel
T2-010667	CR 23.057: Clarification of root public keys (T2-MExE-010082)	Motorola
T2-010668	CR 23.057: Certificate fingerprints for CCM CRL (T2-MExE-010051)	Telstra, Motorola
T2-010669	CR 23.057: Update to the states in the diagram D4 (T2-MExE-010084)	Vodafone
T2-010670	CR 23.057: CLI classmark 4 – non-security	Microsoft
T2-010671	CR 23.057: CLI classmark 4 – security	Microsoft
T2-010672	CR 23.057: Clarifying Description of CCM Format	Intel
T2-010673	Clarification on state of certificates	Ericsson
T2-010674	A specified certificate format for MExE	Vodafone
T2-010675	Trust Hierarchy and Administrator RPK	Intel
T2-010676	Implementations with Non-persistent Caching of RPKs	Intel
T2-010677	Requiring a Certificate for Root Public Keys	Intel
T2-010678	Report of MExE Athens meeting (T2-MExE-010085)	BT
T2-010679	ARPK and CCM	Vodafone
T2-010680	CR 23.057: Status of applications when valid RPK not available	SWG1
T2-010681	CR 23.057: Clarification of root public keys	Motorola
T2-010682	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1
T2-010683	CR 23.057: Trust Hierarchy and Administrator RPK	Intel
T2-010684	CR 23.057: Implementations with Non-persistent Caching of RPKs	Intel
T2-010685	ARPK and CCM - WITHDRAWN	Vodafone
T2-010686	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson
T2-010687	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1
T2-010688	A specified certificate format for MExE	Vodafone
T2-010689	CR 23.057: A specified certificate format for MExE	Vodafone
T2-010690	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia
T2-010691	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	SWG1
T2-010692	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1
T2-010693	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson
T2-010694	Notes from MExE breakout meeting on impact of T2 work	Intel

T2-010695	reply to T2 on impact of T2 work (reply to T2-010597)	SWG1
T2-010696		
T2-010697		
T2-010698		
T2-010699		

Results of the previous meeting

Meeting report

Tdoc	Subject	SOURCE
T2-010662	Report of MExE Athens meeting (T2-MExE-010049)	BT
T2-010663	Opening plenary presentation of the MExE Athens Meeting	Chairman
T2-010678	Report of MExE Athens meeting (T2-MExE-010085)	BT

The meeting report from the previous meeting was agreed in the opening plenary.

Conclusion:

Tdoc T2-010662 was noted

Tdoc T2-010678 was noted

Tdoc T2-010663 was noted

E-mail activity

Tdoc	Subject	SOURCE
T2-010664	MExE e-mail process report	TTPCom

Document not available. No documents were required for email approval from the Athens adhoc meeting.

Liaison statements

LS's to be issued during this meeting.

Tdoc	Subject	SOURCE
T2-010646	LS to T3 on PKCS#15	Vodafone
T2-010682	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1
T2-010687	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1
T2-010692	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1

Tdoc 646, presented by PC, Vodafone.

An LS to T3, informing them that MExE uses a PKCS#15 file structure and noting that the current USIM file structure specification does not. See also CR Tdoc T2-010693 to be attached to this LS.

Comments

remove paragraph 3

make changes in new Tdoc 682.

Tdoc 682, presented by TW, Vodafone

updated LS asking for feedback from T3

Comments:

Recommend reading the smartcard provisioning spec. (TS 31.102)

Discussion on whether MExE has already agreed on adopting pkcs#15. Change LS from 'MExE assumes use of PKCS#15', to a weaker statement.

Online changes made, updated in Tdoc 687.

Tdoc 687 was agreed and taken to the other SWG's currently meeting for fast T2 approval. Minor changes made by other SWG's, updated in Tdoc 692

Tdoc 692 was agreed by SWG1.

Conclusion:

Tdoc T2-010646 was noted, updated in Tdoc T2-010682

Tdoc T2-010682 was noted, updated in Tdoc T2-010687

Tdoc T2-010687 was noted, updated in Tdoc T2-010692

Tdoc T2-010692 was agreed, by SWG1, SWG2, SWG3. Will be sent to T3 with the associated CR (T2-010693) by T2 secretary.

Tdoc	Subject	SOURCE
T2-010665	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia
T2-010690	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia

Tdoc 665, presented by AZ, Nokia

An LS in response to a previous LS from SA3. Already dealt with in Athens MExE meeting. Re-presented here for approval by T2.

Comments:

Editorial changes to dates etc.

Updated in new Tdoc 690.

Conclusion:

Tdoc T2-010665 was noted, updated in Tdoc T2-010690

Tdoc T2-010690 was agreed. To be presented for approval to T2 closing plenary

CRs

Tdoc	Subject	SOURCE
T2-010666	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	Intel
T2-010680	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	SWG1
T2-010691	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	SWG1

Tdoc 666, presented by EW, Intel

A CR to clarify how to handle MExE executables when their valid root public key is not present. Reviewed and updated during the Athens MExE meeting. Updated (in Tdoc 680) to modify section 8.5.2 to say that the device invalidates an application when a different RPK is inserted.

Tdoc 680, presented by LB, TTPCom

Comments:

Much discussion plus concerns on the overhead required in doing a full certificate check while the executable has tasks running. Want to give a good user experience, where the terminal does not freeze an application.

MS / Romek - want to defer this CR, because of possible implications to implementors (reference section 8.11).

Change text to explicitly allow an executable to continue running, on insertion of a new USIM, if the same RPK is validated. Updated online in new Tdoc 691

Conclusion:

Tdoc T2-010666 was noted, updated in Tdoc T2-010680

Tdoc T2-010680 was noted, updated in Tdoc T2-010691

Tdoc T2-010691 was agreed

Tdoc	Subject	SOURCE
T2-010667	CR 23.057: Clarification of root public keys (T2-MExE-010082)	Motorola
T2-010681	CR 23.057: Clarification of root public keys	Motorola

Tdoc 667, presented by MC, Openwave

The original CR was not based on latest version of MExE (Tdoc 082 from Athens)

Requires a little more updating. New Tdoc 681 created by AZ, Nokia.

Tdoc 681, AZ, Nokia

Make additional change to ORPK (change supported by Vodafone).

Conclusion:

Tdoc T2-010667 was noted, updated in Tdoc T2-010681

Tdoc T2-010681 was agreed

Tdoc	Subject	SOURCE
T2-010669	CR 23.057: Update to the states in the diagram D4 (T2-MExE-010084)	Vodafone

Tdoc 669

CR that takes Tdoc T2-MExE-010084, agreed in Athens MExE meeting, and gives it a T2 Tdoc number. For approval.

No comments made.

Conclusion:

Tdoc T2-010669 was agreed.

Action Items and other issues

Action Items

None

Other Issues

None

Others

Incoming LS

Tdoc	Subject	SOURCE
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MExE Security Analysis Activity *(Tuesday 4th September, 2001)*

Tdoc	Subject	SOURCE
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No work to report on.

MExE 23.057 contributions and change requests

Security

CCM

Tdoc	Subject	SOURCE
T2-010668	CR 23.057: Certificate fingerprints for CCM CRL (T2-MExE-010051)	Telstra, Motorola

Tdoc 668

CR already presented in Athens MExE adhoc, was rejected then - waiting for more information. PC not yet able to get a response from Telstra - will try again for the next MExE meeting.

Comments:

TW - suggested that MExE make a CCM look like a CRL (use:- serial number /issue number / hash)

Conclusion:

Tdoc T2-010668 was withdrawn. Postpone any discussion till the next MExE meeting.

Action - PC to continue trying to contact Telsta on this issue.

Tdoc	Subject	SOURCE
T2-010672	Clarifying Description of CCM Format	Intel

Tdoc 672, presented by EW, Intel

CR from MExE Athens meeting - editorial clarification to description of CCM format. This becomes an essential change for R4.

Conclusion:

Tdoc T2-010672 was agreed

Root Public Keys

Tdoc	Subject	SOURCE
T2-010674	A specified certificate format for MExE	Vodafone
T2-010688	A specified certificate format for MExE	Vodafone
T2-010689	CR 23.057: A specified certificate format for MExE	Vodafone

Tdoc 674, TW, Vodafone.

CR to mandate the support of X.509 (as profiled by WAP Forum) as the MExE certificate format.

Suggest using because X.509 version 3 is becoming the industry standard. RFC 2459 profiles the options for X.509. WAP modifications are interoperable with RFC2459 but reduce the certificate size. TW believes this is an essential correction to R4.

Comments:

JW - there are better alternatives to X.509. eg SPKI has a smaller parser and certificate size. Would like more discussion on the criteria for selecting the certificate format. Suggest that need a more rigorous comparison of the alternatives.

TW - note that SPKI is not currently widely adopted. Suggested keeping to X.509 for wider acceptance.

Symbian - support the adoption of X.509.

EW - in favour of X.509 but should recognise that there are security limitations (eg access control & authorisation). Highlighted a research paper on certificate formats: (Carl M Ellison, "The nature of a useable PKI", Computer Networks, Volume 31, Number 8, April 23, 1999, pp 823-830. - see also RFC 2693)

Parallel work in MIDP and SyncML, on certificate extensions, was noted.

The CR as it stood was not agreed, TW proposed other changes to CR. Offline discussion took place and a new CR (Tdoc 688) was proposed.

Tdoc 688, presented by Vodafone.

Editorial change to Tdoc 674.

More changes made online, updated in new Tdoc 689.

Conclusion:

Tdoc T2-010674 was not agreed, updated in Tdoc T2-010688.

Tdoc T2-010688 was noted, updated in Tdoc T2-010689

Tdoc T2-010689 was agreed

Tdoc	Subject	SOURCE
T2-010675	Trust Hierarchy and Administrator RPK	Intel
T2-010683	CR 23.057: Trust Hierarchy and Administrator RPK	Intel

Tdoc 675, presented by EW, Intel

Update to CR already presented in Athens MExE meeting. New subclause 8.4.2 created - contains descriptive text.

No comments made. Minor editorial change made and new Tdoc 683 created.

Conclusion:

Tdoc T2-010675 was noted, updated in Tdoc T2-010683

Tdoc T2-010683 was agreed

Tdoc	Subject	SOURCE
T2-010676	Implementations with Non-persistent Caching of RPKs	Intel
T2-010684	CR 23.057: Implementations with Non-persistent Caching of RPKs	Intel

Tdoc 676, presented by EW, Intel

This CR merges two CRs from the Athens MExE meeting. Allows caching of RPK's in the ME.

Comments:

TW - the terminology for 'secure area' needs to be defined more rigidly.

Update in new Tdoc 684, with a new section - making it more explicit that 'expiration' means the removal of the USIM and that the certificate is made invalid.

Tdoc 684, EW, Intel.

Minor comments only.

Conclusion

Tdoc T2-010676 was noted, updated in Tdoc T2-010684

Tdoc T2-010684 was agreed

Tdoc	Subject	SOURCE
T2-010677	Requiring a Certificate for Root Public Keys	Intel

Tdoc 677, EW, Intel

CR generated from a discussion paper input into Athens MExE meeting. Allows self signed certificates and retains them in parallel with the RPK.

Comments:

Objections to the manufacturer RPK section.

LF - would like to see this CR split into 2 parts, with the manufacturer part separate.

Some wanted time to check this CR and consider at next meeting

Chairman encouraged delegates to take this CR back and consider it - discuss on MExE email reflector.

Conclusion:

Tdoc T2-010677 was postponed till the next meeting (it will be re-presented with no changes).

Tdoc	Subject	SOURCE
T2-010679	ARPK and CCM	Vodafone

T2-010685	ARPK and CCM - withdrawn	Vodafone
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Tdoc 679, presented by PC, Vodafone.

Comments:

concerns that a malicious owner of the ARPK could harm the device.

EW - question on 'chaining' and USIM cross certification when certificates don't match.

Some did not like the operator being the administrator also. Reply that the operator can shut down third party certificates if a CA is irresponsibly signing apps.

Concerns on the wording in this CR. New CR to be generated, Tdoc 685.

Tdoc 685 Was not available

Conclusion:

Tdoc T2-010679 was noted, to be updated in Tdoc T2-010685

Tdoc T2-010685 was not available

CLI

Tdoc	Subject	SOURCE
T2-010670	CR 23.057: CLI classmark 4 – non-security	Microsoft
T2-010671	CR 23.057: CLI classmark 4 – security	Microsoft

Tdoc 670, MS, Microsoft

CR already presented and agreed in Athens MExE meeting. Re-presented here. No changes made since Athens.

Tdoc 671, MS, Microsoft

CR already presented and agreed in Athens MExE meeting, re-presented here. Minor change only since Athens.

Comments:

On the signing of JAR files and how CLI files are signed. More information on how CLI files are signed, to be provided by MS, who noted that the security model is as defined in the ECMA spec - MExE does not add anything to the ECMA security model.

Action - MS to give explanation of CLI security model, for next meeting

These R5 rolling CR's will be presented for T2 approval at the last T2 plenary of R4 - to delay creating MExE R5 until all R4 essential changes are made.

Conclusion:

Tdoc T2-010670 was agreed as internal rolling CR for R5 non-security.

Tdoc T2-010671 was agreed as internal rolling CR for R5 security.

Others

Tdoc	Subject	SOURCE
T2-010647	CR 31.102 MExE certificate storage on the USIM	Vodafone
T2-010686	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson
T2-010693	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson

Tdoc 647 presented by PC, Vodafone

Draft CR to the USIM specification, to align the USIM certificate storage format with PKCS#15. This draft CR to accompany an LS to be sent to T3 this week (Tdoc 692).

Comments:

Some felt that there should be more discussion within MExE on which certificate formats to choose, before MExE specifies changes to other specifications. Question on why 3GPP-T3 have not already specified PKCS#15. Some consider that certificate formats are best handled by MExE and recommended to T3 etc.

LB - not think this CR is necessary, as it is the same as the WIM specification.

Nokia - generally support this CR. Ericsson strongly support this CR.

MC - note that Annex A on PKCS#15 is for information only and is not referenced from anywhere in the MExE spec.

Chairman - noted that 3GPP-T3 are ultimately responsible for USIM storage format and structure and that MExE should not mandate PKCS#15 without appropriate changes being implemented in the USIM directory structure specified by T3.

More information was requested on PKCS#15 - Vodafone to provide this.

Much debate on this CR. Chairman encouraged interested delegates to resolve issues offline. New Tdoc (686) created.

Tim Wright spoke about PKCS#15 and why MExE should adopt it -> it is already adopted for the WAP WIM; proposed that MExE references WAP WIM for storing certificates; considers PKCS#15 to be a good way of storing certificates; believes it has a good range of attributes (MExE will need to mandate the required attributes). MExE should ask T3 to consider PKCS#15.

comments:

note that PKCS#15 can deal with formats other than X.509 - eg WTLS, SPKI and others.

LB - concerned that with this CR, MExE loses which certificate belongs to which domain.

Tdoc 686, presented by Vodafone.

Comments:

note that manufacturer root certificates are not stored in the USIM.

Tdoc 686 was agreed in SWG1 but required all T2 approval before sending to T3. Comments made by other SWG's and updated in Tdoc 693.

Conclusion

Tdoc T2-010647 was noted, updated in Tdoc T2-010686

Tdoc T2-010686 was noted, updated in Tdoc T2-010693

Tdoc T2-010693 was agreed

Tdoc	Subject	SOURCE
T2-010673	Clarification on state of certificates	Ericsson

Tdoc 673, presented by BoJ, Ericsson.

CR to clarify the terminology related to states of certificates and public keys. This document was available for discussion on the MExE email reflector, but few comments were received.

Comments:

Generally considered a good document. Some comments on the terminology and the use of 'passive state'. Must be careful when defining the terms used - these can be refined later, once consistency is achieved.

Action - EW agreed to analyse and perform a matrix breakdown by 17th October.

Use this CR as the base, but agree on the terminology before make changes. Continue discussion on MExE email reflector.

Conclusion

Tdoc T2-010673 was not agreed

Non security

CLI

Rolling CR from Athens MExE meeting in CLI agenda item.

MExE server support in the network

No work on this.

Others

Tdoc	Subject	SOURCE
T2-010605	revised WID MExE Security Analysis	SA

Tdoc 605 was presented in Athens MExE meeting and changes agreed there. It will be presented at the closing plenary.

Conclusion:

Tdoc T2-010605 was noted.

Presentations

No formal presentations.

Review of agreed output documents and action items

Output documents

Review of agreed output documents - see Annex.

Action items

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

Any other business

Results of the vote for new MExE Chairman:

Lars Brenk: 21

Ernie Woodward: 17

Lars Brenk becomes the new MExE Chairman.

Issues raised:-

Louis Finkelstein asked the groups feeling on whether MExE should have a Vice-Chair position.

Mike Smith asked for clarification on the situation concerning MExE rapporteur - Seek advice from T2 chair/secretary.

Ernie Woodward asked about the progress of the MExE/J2ME interoperability event.

Also about the official MExEforum WWW site.

Tdoc	Subject	SOURCE
T2-010651	The continued work with applications and a security framework	Ericsson

Presentations made in the opening plenary, were further discussed in SWG1.

Tdoc 651, presented by Gunilla Bratt, Ericsson

Presented in more detail to SWG1.

3GPP needs a consistent security framework (access control and PKI format). Need to specify this in order to make products and applications a success. Suggests a review of the focus of 3GPP-T2. Suggests creating new TS solely for terminal capabilities and access control. Need to align this with other work outside of MExE.

This caused much discussion and debate.

Comments:

Some wanted more usage examples so that can determine what functionality is required for authorisation. - get the view of SA3 on this. Need this for user profile/preference management. Possibly should define own mechanism for now.

Some said that SA3 doesn't have time to do MExE related work items, therefore applications security work should still be done in T2 and taken to SA3 for approval.. Note that earlier requests for security work in SA3 were unfulfilled. Feeling that T2 has expertise on applications and handsets and should therefore work in co-operation with SA3 - but not rely solely on SA3 to do the work. Feeling that T2 should strengthen the request for SA3 to get involved with MExE. Concern that T2 should not agree to partition the work until a mandate is agreed.

Some concern that this work is already happening elsewhere (eg MIDP) and that T2 should move fast in order to influence it.

TW - supports this proposal. Suggest that need a new SWG within SA3 to deal with application layer security. Does not think that MExE should be specifying detailed security mechanisms for all devices.

Some thought this area requires a system level approach, other felt it requires detailed PKI knowledge.

Some feeling that MExE should first investigate how to move forward - whether to split the work and if so where the work should be handled. Some concern on previous lack of feedback, discussion and involvement from SA3. No agreement that a new TS should be the responsibility of SA3.

AZ - this is too early to give response for closing plenary (as the first sight was in the opening plenary). Need to take home and discuss. But can at indicate current thinking to the T2 closing plenary.

Need joint meetings with SA3

Action: TW to scope out a new TS and raise in SA3 at their next meeting (October) and get a response sent from SA3 to MExE October meeting

Need to scope the proposed work in more detail - do on the MExE email reflector.

Conclusion:

Tdoc T2-010651 was noted.

Tdoc	Subject	SOURCE
T2-010587	Impact of T2 work on implementation	BT
T2-010694	Notes from MExE breakout meeting on impact of T2 work	Intel
T2-010695	reply to T2 on impact of T2 work (reply to T2-010597)	SWG1

Tdoc 587, was already presented in opening plenary.

Time was set aside outside of the main MExE meeting to discuss this in more detail. Ernie Woodward chaired. Comments were brought back to the main group for consideration. Summary of points in Tdoc T2-010694.

Tdoc 694, presented by Ernie Woodward, Intel.

Comments:

Pascal disagreed with some of definitions of user experience and interoperability used. Note that these definitions are only a starting point for discussion will undergo change and refinement before adoption.

Louis Finkelstein - MExE is the place to do this work - a TS rather than a TR should be the output of MExE. Should convey thoughts to T.

Bo Johannson - MExE should produce an action plan on the way forward.

A 'MExE-Lite' capability already exists by leaving out the optional parts of the security requirements.

Notes for a response to closing plenary:-

Feeling that MExE work already done, has influenced handset implementations to date and has prompted security work in other standardisation fora - therefore should continue with 23.057 specification.

Do not think that MExE-lite would add much more than a standard WAP or Java device. But a MExE-lite trusted implementation with limited security and certificate handling could have a place.

Devise an action plan.

Want guidance from network operators on the level of security that is required for download capabilities - note that security is costly to implement and requires real requirements before OEM's will implement.

Formulate a response for the closing plenary in Tdoc 695

Several Action items - see 'Action items'.

Conclusion:

Tdoc T2-010587, was noted.

Tdoc T2-010694, was noted.

Tdoc T2-010695, was agreed, this will be presented at the closing plenary.

Future meetings

Meeting	Date	Location	Host
MExE T2#15	23 - 25 October 2001	Portland Oregon, USA	Intel Corporation
	26-30 Nov 2001	Cancun, Mexico	American friends of 3GPP
T2#16 MExE T2#17	11-15 Feb 2002	No Host Identified	
	March/April	no meeting identified	
	31-17 May 2002	No Host Identified	

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

Thanking the hosts

The Chairman thanked the hosts for their hospitality and excellent facilities.

Close of meeting

Annex

1 Output Liaison Statements

Agreed

TDOC	Subject	SOURCE
T2-010690	LS on MExE Security Analysis Activity WID (T2-MExE-010083)	Nokia
T2-010692	LS to T3 on PKCS#15 support for MExE in the USIM	SWG1

To be agreed by e-mail process

TDOC	Subject	SOURCE
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MExE Stage 1 changes

Agreed

TDOC	Subject	SOURCE
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To be agreed by e-mail process

TDOC	Subject	SOURCE
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MExE Stage 2 Changes

Agreed

TDOC	Subject	SOURCE
T2-010669	CR 23.057: Update to the states in the diagram D4 (T2-MExE-010084)	Vodafone
T2-010672	CR 23.057: Clarifying Description of CCM Format	Intel
T2-010681	CR 23.057: Clarification of root public keys	Motorola
T2-010683	CR 23.057: Trust Hierarchy and Administrator RPK	Intel
T2-010684	CR 23.057: Implementations with Non-persistent Caching of RPKs	Intel
T2-010689	CR 23.057: A specified certificate format for MExE	Vodafone

T2-010691	CR 23.057: Status of applications when valid RPK not available (T2-MExE-010081)	SWG1
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MExE interally agreed rolling CRs (**not** submitted for approval to T2 plenary)

TDOC	Subject	Source
T2-010670	CR 23.057: CLI classmark 4 – non-security	Microsoft
T2-010671	CR 23.057: CLI classmark 4 – security	Microsoft

To be agreed by e-mail process

TDOC	Subject	Source
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Other Output Documents

TDOC	Subject	Source
T2-010661	Report of SWG1 MExE at T2#14	BT

Agreed

TDOC	Subject	Source
T2-010693	CR 31.102: MExE root certificate storage on the USIM	Vodafone & Ericsson
T2-010695	reply to T2 on impact of T2 work (reply to T2-010597)	SWG1

Noted

TDOC	Subject	Source
T2-010605	revised WID MExE Security Analysis	SA
T2-010694	Notes from MExE breakout meeting on impact of T2 work	Intel

To be agreed by e-mail process

TDOC	Subject	Source
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3GPP TSG-T2 #14
Edinburgh, Scotland
3-7 September 2001

T2-010695

Agenda Item: 12. Any Other Business

Source: MExE group

Title: Response to 'T2-010587 (Impact of T2 Work)'

Document for: Information

As a response to the 'T2-010587 (Impact of T2 Work)' document presented in the open plenary, the MExE group has the following response.

The MExE group believes that the MExE work has had an impact on the terminal implementations. It might not have resulted in 'full blown' MExE terminals, but different parts of the MExE specification have been implemented in existing terminals.

The MExE group also believes that the MExE work has had some impact on other specifications, including the WAP specifications, the SDR Forum and new initiatives such as the M-Services.

The MExE group recognises the need for addressing the placement of MExE products into the market. It is the MExE group's opinion that operators do want MExE terminals.

In order to get manufacturers to implement MExE terminals, the MExE group has discussed some actions that require some investigation:

- Identify reduced implementation ('lite') requirements for MExE
- Restructure the MExE specification to make it more readable
- Remove redundancy and non-implementation issues from the specification
- Focus on what interoperability means in the context of the MExE specification

- Continue co-operation with S3 regarding application security issues

The MExE group still believes that there is a good reason to keep the MExE specification as a TS and not change it to a TR.

Annex E: Report from SWG2 UE Interfaces and Capabilities

T2-010720

Source: SWG2 Chairman

ES Executive Summary

A Joint meeting with SA1 was held covering the UE Functionality Split work item and the report is in T2-010826.

T2-010828. SWG2 have reviewed the Generic User Profile WID. SWG2 realise that this work item description could change during the approvals process, but wished to indicate their agreement with it as presented to the T2 plenary in this document.

Terminal Local Model WID. It was felt by the delegates that the possibility of a joint meeting on testing aspect of this work item with T1 on this subject should be raised at the T Plenary.

1. Opening of the meeting

Mr Peter Neumann welcomed the new Chairman and handed the meeting over to Mr Prem Sood.

The new Chairman presented his thoughts on SWG2's role in T2.

1.2. Review of previous Action Points

There were no outstanding action points.

AP Description	Assigned to	Status	Comments

1.3 Appointment of SWG2 Vice Chairperson, Secretary, Rapporteurs.

A request for a secretary was filled by Mr Richard Brook.

A requirement for a Vice Chair for SWG2 was felt not to be necessary at this time by the delegates, but would be reviewed on an on-going basis by the group.

Document – T2-010700

TDoc No.	Title	Source	Status
T2-010700	SWG2 draft meeting agenda	SWG2 Chair	Approved

Presented by – Chairman

Discussion –

The draft SWG2 agenda was reviewed. The UE functionality split documents are to be reviewed in the joint meeting on Wednesday with SA1. Delegates to identify any of the UE split documents need to be treated before the Joint meeting on Tuesday morning.

Document – T2-010701

TDoc No.	Title	Source	Status
T2-010701	SWG proposed meeting report form	SWG2 Chair	Revised to 720

Presented by – Chairman

Discussion –

This is a proposed meeting report format and is to be considered a draft doc and the final SWG2 report will be given another number.

A call for Rapporteurs for the vacant positions was made.

Mr Rob Lockhart volunteered for the position of User Profile Rapporteur.

The secretary agreed in the absence of any other volunteer for the position of 27.010 Rapporteur.

2 Items for immediate discussion.

Document – T2-010587

TDoc No.	Title	Source	Status
T2-010587	Impact of T2 work on implementation	BT	Noted

Presented by –.

Mr Kevin Holley.

Discussion –

Impact of T2 work on implementation. Question was asked as to whether SWG2 should reply or should individual delegates respond. The document's author was asked to explain his intention in this document.

Document – T2-010651

TDoc No.	Title	Source	Status
T2-010651	THE CONTINUED WORK WITH APPLICATIONS AND A SECURITY FRAMEWORK	Ericsson	Noted

Presented by –.

Dr Gunilla Bratt

Discussion –

It was agreed that security would be required for applications such as Synchronization. Delegates requested some further explanation. Such as in the form of an architectural diagram **AP14.1**. Dr Bratt will produce such a diagram.

This proposal will also be presented to SWG1 for their input.

3.1 UE Functionality Split**Document – T2-010617**

TDoc No.	Title	Source	Status
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T2-010617	LS on Cell ID in SIP messages	SA2	Noted. LS response in T2-010823
T2-010823	LS reply to T2-010617	T2	Approved

Presented by – Chairman.

Discussion –

Document – T2-010632

TDoc No.	Title	Source	Status
T2-010632	Reply to SA2 LS on Cell ID in SIP messages	SA1	Noted

Presented by – Chairman.

Discussion –

AP14.4 It was proposed that this could be included in the follow on to Tdoc T2-010704.

AP14.5 Investigate the AT commands for the capability to perform this function.

AP 14.6 Rob Lockhart to produce outgoing LS to SA2.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010824

TDoc No.	Title	Source	Status
T2-010824	WID on UE functionality split		Revised to T2-010825
T2-010825	WID on UE functionality split		Noted

Presented by –Mr Kevin Holley.

Discussion –

T2-010824 Presented for information and comment.

Document – T2-010730

TDoc No.	Title	Source	Status
T2-010730	UE split joint meeting report	T2 SWG2/ SA1 joint meeting	To be revised T2 010826
T2-010826	UE split joint meeting report rev1	T2 SWG2/ SA1 joint meeting	Noted

Presented by –.**Discussion –****Document – T2-010822**

TDoc No.	Title	Source	Status
T2-010822	LS Response on UE Split Testability T1 Chairman's input	SWG2 Chairman	Approved

Presented by – Chairman.**Discussion –****3.2 Application and User Interaction (Terminal Local Model).****Document – T2-010586**

TDoc No.	Title	Source	Status
T2-010586	Support of Multi-modal and Multi-device browsers applications by 3GPP	Sony, IBM	Not Reviewed

Presented by – .

Discussion –Document – T2-010599

TDoc No.	Title	Source	Status
T2-010599	Work Item: "Definition and Specification of a Transport Protocol for the USIM application.	T - Plenary	Noted

Presented by – ChairmanDiscussion –

SWG2 need to look at the first draft of the specification being produced by T3 for compliance to 23.227.
AP14.2 23.227 rapporteur to check.

Document – T2-010719

TDoc No.	Title	Source	Status
T2-010719	Addition of Testing capabilities to the BB "Terminal Local Model"	CETECOM, MATERNA	To be revised to T2-010827
T2-010827	Testability aspects of Terminal Local Model interactions.	CETECOM, MATERNA	To be revised to T2-010829
T2-010829	Testability aspects of Terminal Local Model interactions.	CETECOM, MATERNA	Approved

Presented by – Mr Ramin Afchar.Discussion –

Concerns were raised regarding the security implications as well as the size of the agent to be located within the terminal.

The delegates agreed that some form of testing is required, but that the proposal of the use of an agent was premature. T1's input was felt to be also required.

It was also felt by the delegates that the possibility of a joint meeting with T1 should be raised at the T Plenary.

3.3 Data Synchronization, SyncML

Document –

TDoc No.	Title	Source	Status

Presented by – Mxxx.

Discussion –

No documents were input to this meeting, but it was indicated that there would be documents available at the next T2 meeting.

3.4 UE Terminal/Device Management

Document – T2-010595

TDoc No.	Title	Source	Status
T2-010595	LS in reply to WAP Forum message titled “Exploratory LS concerning Mobile Device Management”	SA5	Noted

Presented by – Chairman.

Discussion –

It was commented that SWG2 needs to have SA5’s requirements in the near future in order to progress their work.

Document – T2-010597

TDoc No.	Title	Source	Status
T2-010597	LS in reply to three related User Equipment Management liaisons.	SA5	Noted

Presented by – Mr Rob Lockhart.

Discussion –

AP14.3 LS T2-010721 to be produced by R. Lockhart to indicate SWG2's proposed use of DevMan and asking for the proposed dates of joint meetings. This joint meeting should be before T2's next meeting.

Document – T2-010721

TDoc No.	Title	Source	Status
T2-010721	LS Response to SA5 on 595, 596, 597, 598, 602	T2	To be revised in T2-010830
T2-010830	LS Response to SA5 on 595, 596, 597, 598, 602	T2	Approved

Presented by – Mr Rob Lockhart.

Discussion –

Document – T2-010722

TDoc No.	Title	Source	Status
T2-010722	LS to SyncML Requesting DevMan Update	T2	Agreed

Presented by – Mr Rob Lockhart

Discussion –

Document – T2-010598

TDoc No.	Title	Source	Status
T2-010598	Reply to T2 message titled "LS Reply to SyncML initiative Concerning Leveraging SyncML for Mobile Device Management"	SA5	Noted

	Concerning Leveraging SyncML for Mobile Device Management"		
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Presented by – Mr Rob Lockhart.

Discussion –

AP14.4 LS T2-010722 to be produced by R. Lockhart asking for a status update from SyncML.

Document – T2-010602

TDoc No.	Title	Source	Status
T2-010602	Proposed WID for "User Equipment (UE) Management (Feature) Feasibility Study" (revision of SP-010234)	SA5	Noted

Presented by – Mr Rob Lockhart.

Discussion –

Document – T2-010636

TDoc No.	Title	Source	Status
T2-010636	Response to LS S5-010114 (S3- 010168) on MExE and User Equipment Management.	SA3	Noted, LS reply to be produced in T2-010723
T2-010723	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	T2	Revised to T2-010831
T2-010831	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	T2	Agreed

Presented by – Chairman.

Discussion –

It was felt that this was an issue that SWG2 should address and an LS should be produced expanding on the other work items requiring security, such as synchronizing.

AP14.4 T2-010723 LS to be provided by R. Lockhart.

3.5 AT Commands

Document –

TDoc No.	Title	Source	Status
T2-010419	CR to 27.007	Alcatel	Not treated

Presented by – An Alcatel delegate was not present.

Discussion –

Deferred until next T2 meeting.

Document –

TDoc No.	Title	Source	Status
T2-010706	CR to R98 07.07 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	Ericsson	Approved
T2-010707	CR to R99 27.007 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	Ericsson	Approved
T2-010708	CR to R4 27.07 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal	Ericsson	Approved
T2-010709	CR to R99 27.007 Removal of +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved
T2-010710	CR to R4 27.007 Removal of +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved

Presented by –Olga Tomé.

Discussion –

Document – T2-010713

TDoc No.	Title	Source	Status
T2-010713	CR to 27.007 Different compression algorithms in AT command +CGDCONT	Siemens	To be revised to T2-010725
T2-010714	CR to 27.007 Different compression algorithms in AT command +CGDCONT	Siemens	To be revised to T2-010726
T2-010725	CR to 27.007 Different compression algorithms in AT command +CGDCONT	Siemens	Withdrawn
T2-010726	CR to 27.007 Different compression algorithms in AT command +CGDCONT	Siemens	Withdrawn

Presented by – Siemens**Discussion –**

Further work was identified. The CR's were withdrawn.

4.1 UE Capabilities Requirements.

Document –

TDoc No.	Title	Source	Status
T2-010702	CR to 21.904 Corrections to References List, AMR Specifications	Rapporteur	Replaced with T2-010724
T2-010724	CR to 21.904 Corrections to References List, AMR Specifications	Rapporteur	Approved

Presented by – Chairman.

Specification references needed correction.

Discussion –

Minor editorial change required.

4.2 AMR Codec, Tones

Document – T2-010092

TDoc No.	Title	Source	Status
T2-010092	Codec type UMTS AMR	SA4	Noted

Presented by – Chairman.

Discussion –

Document – T2-010601

TDoc No.	Title	Source	Status
T2-010601	Liaison on UMTS_AMR2	T plenary #12	Noted

Presented by –Chairman.

Discussion –

Document – T2-010640

TDoc No.	Title	Source	Status
T2-010640	IM subsystem tones and announcements	SA1	Noted

Presented by –Chairman.

Discussion –

4.3 User Profiles, Terminal Capability Reporting

A request was made by the Chairman for the meeting report and output documents of the User Profile ad-hoc meeting to be made available to the meeting by Siemens and Ericsson Tdoc number T2-010727 was allocated.

Document – T2-010641

TDoc No.	Title	Source	Status
T2-010641	Proposed Reply to LS on Terminal Capabilities.	SA1	Noted

Presented by –

Discussion –

Document – T2-010341

TDoc No.	Title	Source	Status
T2-010341	LS regarding User Profile	SA1	Noted

Presented by –.

Discussion –

Document – T2-010591

TDoc No.	Title	Source	Status
T2-010591	Response LS to S1 LS Regarding User Profiles	SA2	Noted

Presented by –.

Discussion –

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010596

TDoc No.	Title	Source	Status
T2-010596	LS reply to SA1 LS "regarding User Profile"	SA5	Noted

Presented by –.

Discussion –

Concern was expressed that SA5 may be defining objects, which are the responsibility of T2.

Document – T2-010614

TDoc No.	Title	Source	Status
T2-010614	Reply LS on extended streaming service and user profiles	SA3	Noted

Presented by –.

Discussion –

Document – T2-010610

TDoc No.	Title	Source	Status
T2-010610	Reply to "LS on Extended Streaming Service" and "LS regarding User Profile"	SA4	Noted

Presented by –.

Discussion –

Document – T2-010622

TDoc No.	Title	Source	Status
T2-010622	Liaison Statement on 3GPP User Profiles	CN4	Noted

Presented by –.

Discussion –

A question asked as to whether the proposed meeting has taken place. No delegate present could answer this question.

Document – T2-010727

TDoc No.	Title	Source	Status
T2-010727	Draft report of User Profile meeting held in Stockholm	Siemens/ Ericsson	Noted

Presented by –.

Discussion –

Document – T2-010728

TDoc No.	Title	Source	Status
T2-010728	Generic User profile WID	S1-01828	Revised to T2-010729
T2-010729	SA1 agreed version of Generic User Profile WID	S1-01865	Noted Renumbered to T2-010828
T2-010828	Generic User profile WID	SA1 Chairman	Agreed

Presented by –.

Discussion –

SWG2 have reviewed this WID SWG2 realise that this work item description could change during the approvals process, but wished to indicate their agreement with the version in T2-010729 which is to be presented to the T2 plenary. Rapportours were requested for the 2 documents outlined for T2 responsibility in the work item description. Mr Rob Lockhart volunteered for the rapportourship of this work item.

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

Document –T2-010 584

TDoc No.	Title	Source	Status
T2-010584	3GPP work plan.	MCC	Noted

Presented by – MCC.

Discussion –

Conclusion – ,

Work item 1806: deleted.

Work item 1831 to be linked to User Profile WID when approved.

Work item 2574 **AP 14.7** P.Neumann was asked to investigate the status of this work item, Terminal local model enhancements. 23.227.

AP14.8 SWG2 Chairman and Olga Tomé Consider on impact of UE Functional Split on this Work Item.

Completion date of work item 2574 Terminal Local Model is moved to March 2002.

AP 14.9 The rapportour, Olga Tomé to propose final changes to this work item.

Work item 2513: **AP14.10** MCC to check whether T2 involvement is required.

Document – T2-010578

TDoc No.	Title	Source	Status
T2-010578	T2 spec list (status after T#11)	MCC	Noted

Presented by – Chairman.**Discussion –**

6 Any Other Business

6.2

Document –

TDoc No.	Title	Source	Status
T2-010716	CR to 27.010 Conversion of GSM to 3GPP references	MCC	Approved
T2-010717	CR to 27.005 Conversion of GSM to 3GPP references	MCC	Approved

Presented by – MCC.

Specification references needed correction.

Discussion –

Minor editorial change required.

Document –

TDoc No.	Title	Source	Status
T2-010686	CR to 31.102 MExE root certificate storage on the USIM	SWG1	Approved
T2-010687	LS to T3 PKCS#15 support for MExE in the USIM	SWG1	Agreed

Presented by – MCC.

Discussion –

Delegates in SWG2 had issues with the fact that this draft CR was not agreed

7 Close of the Meeting

The meeting was closed at

7.1. List of New Action Points added at this meeting

AP Description	Assigned to	Status	Comments
14.1 production of architectural diagram to explain the proposal on applications and security.	Dr G. Bratt		
14.2 Rapportour to check 23.227 for compliance of the new T3 specification on	O. Tome		
14.3 LS T2-010721 to SA5 on Device management	Mr R. Lockhart		
14.4 Develop T2-010704 to include transfer of cell id	Nr N. Alfano		
14.5 Investigate AT commands for the ability to transfer cell id between MT and TE.	Dr G. Bratt		
14.6 LS T2-0108XX to SA2 on transfer of cell id between MT and TE	Mr R. Lockhart		
14.7 What is current status of Terminal Local Model (23.227)	Mr P Neumann		
14.8 Consider on impact of UE Functional Split on this Work Item.	SWG2 Chairman and Olga Tomé		
14.9 To propose final changes to this work item	Olga Tomé		
14.10 MCC to check whether T2 involvement is required.	MCC		

Annex A List of all temporary documents

TDOC	Subject	Source	Status
T2-010578	T2 specs status list	MCC	Noted
T2-010584	3GPP work plan	MCC	Noted
T2-010586	WID Support of Multi-modal and Multi-device browsers applications	IBM, Sony	Not Reviewed pending SA1 discussions
T2-010587	Impact of T2 work on implementation (revised T2-010585)	BT	Noted
T2-010589	Draft report for joint S1/S3/T2/T3 meeting about security implications of UE functional split 3rd July 2001 - version 0.0.3	MCC	Noted
T2-010591	LS from SA2 "User Profiles"	SA2 (S2-011576)	Noted

		011576)	
T2-010593	LS from SA3 "Security and UE functionality split"	SA3 (S3-010289)	Noted
T2-010595	LS from SA5 to WAP Forum "re: Exploratory LS concerning Mobile Device Management"	SA5 (S5-010314)	Noted
T2-010596	LS from SA5 on "User Profile"	SA5 (S5-010312)	Noted
T2-010597	LS from SA5 "re: three related User Equipment Management liaisons"	SA5 (S5-010313)	Noted
T2-010598	LS from SA5 "re: leveraging SyncML for Mobile Device Management"	SA5 (S5-010317)	Noted
T2-010599	T3 work item Definition and Specification of a Transport Protocol for the USIM application	T3 (TP-010112)	Noted. AP 14-2 O. Tome'
T2-010601	LS from TSG-T to SA4 cc T2 "UMTS_AMR2"	T (TP-010148)	Noted
T2-010602	approved WID User Equipment (UE) Management (Feature) Feasibility Study	SA (S#12(01)0286)	Noted
T2-010610	LS from SA4 "re: Extended Streaming Service and User Profile"	SA4 (S4-010431)	Noted
T2-010614	LS from SA3 "re: extended streaming service and user profiles"	SA3 (S3-010293)	Noted
T2-010616	LS from SA3 "IMS access security and the UE split"	SA3 (S3-010400)	Noted
T2-010617	LS from SA2 "Cell ID in SIP messages"	SA2 (S2-011697)	Noted with actions - 823
T2-010622	LS from CN4 "3GPP User Profiles"	N4-010917	Noted
T2-010628	LS from SA1 "GERAN Assumption on IMS"	S1-010850	Noted
T2-010630	LS from SA1 "IMS security and UE functionality split"	S1-010863	Noted
T2-010632	LS from SA1 "re: Cell ID in SIP messages"	S1-010872	Noted
T2-010636	LS from SA3 "re: LS S5-010114 (S3-010168) on MExE and User Equipment Management"	S3-010226	Noted
T2-010640	LS from SA1 on IM subsystem tones and announcements (T2-010336 postponed from T2#13)	S1 (01) 533	Noted
T2-010641	LS from SA1 on Terminal Capabilities (T2-010337 postponed from T2#13)	S1 (01) 539	Noted
T2-010650	LS from GERAN on UE Split		Noted. Next step S1
T2-010651	Applications and security framework	Ericsson	Noted. AP 14-1-Ericsson

T2-010700	draft agenda SWG2 at T2#14		Approved
T2-010701	Draft template of Meeting Report of SWG2 at T2#14		Report is 720
T2-010702	CR 21.904: correction of AMR references	Sharp	New 724
T2-010703	Current Status of UE Functionality Split Discussions	Sharp	Noted
T2-010704	Abstract Service Primitives for the R interface	Sierra Wireless	Noted. SrWI will update
T2-010705	Overview on the support of Multi-modal Browser Architecture in 3GPP	Sony	Not Reviewed. See 586
T2-010706	CR to 07.07 R98 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved – Output to T2
T2-010707	CR to 27.007 R99 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved – Output to T2
T2-010708	CR to 27.007 R4 Removal +CGCLOSP and corrections due to IHOSS removal	Ericsson	Approved – Output to T2
T2-010709	CR to 27.007 R99 Removal +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved – Output to T2
T2-010710	CR to 27.007 R4 Removal +CGCLPAD and corrections due to X.25 removal	Ericsson	Approved – Output to T2
T2-010711	Functional Distribution Scenarios For UE-Split (Existing Services)	Nortel Networks	Noted with action
T2-010712	Functional Distribution Scenarios for UE-Split (IMS)	Nortel Networks	Noted
T2-010713	CR 27.007 R99: Different compression algorithms in AT command +CGDCONT	Siemens	New 725
T2-010714	CR 27.007 REL-4: Different compression algorithms in AT command +CGDCONT	Siemens	New 726
T2-010715	Draft TR: Service requirements for the IP Multimedia; Requirements Report on UE Functionality Split	S1 UE Split Adhoc	Revised to 821, TR to SA1
T2-010716	CR 27.010 REL-4: Conversion of GSM to 3GPP references	MCC	Approved. Output to T2
T2-010717	CR 27.005 REL-4: Conversion of GSM to 3GPP references	MCC	Approved. Output to T2
T2-010718	“test” consequences of splitting the functionality of the UE over several physical devices	T1 chairman	LS Response in 822
T2-010719	Addition of Testing capabilities to the BB “Terminal Local Model (TP-010145)	Cetecom/ Materna	Noted. Modified to 827
T2-010720	Draft Meeting Report of SWG2 at T2#14, Rev.1	Secretary	Draft to T2

T2-010721	LS Response to SA 5 on 595, 597, 598, 602	R. Lockhart	Noted. Modified to 830
T2-010722	LS to SyncML requesting DevMan update	R. Lockhart	Output to T2
T2-010723	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	R. Lockhart	Noted. Modified to 831
T2-010724	CR 21.904: correction of AMR references	Sharp	Approved. Output to T2
T2-010725	CR 27.007 R99: Different compression algorithms in AT command +CGDCONT (713 Modified)	Siemens	Re-work for next SWG2
T2-010726	CR 27.007 REL-4: Different compression algorithms in AT command +CGDCONT (714 modified)	Siemens	Re-work for next SWG2
T2-010727	Report and Output of User Profile Ad-Hoc	Siemens	Noted
T2-010728	Draft Generic S1 WID User Profile	S1-01828	Replaced by 729
T2-010729	Agreed Generic S1 WID User Profile	S1-01865	Noted. Modified in 828
T2-010730	Report of UE Split Joint Meeting SA1/T2	Secretary	Modified to 826
T2-010820	UE Functionality Split vs Optimised Voice	N. Anderson	Noted
T2-010821	Draft TR on UE Split with Joint meeting's suggested changes	Meeting	Noted
T2-010822	LS Response to T1 UE Split testability T1 Chairman's input	SWG2 Chair	Agreed. Output to T2
T2-010823	LS Response to T2-010617	R. Lockhart	Agreed. Output to T2
T2-010824	WID for UE Functionality Split	K. Holley	Noted. Updated in 825
T2-010825	Updated WID for UE Functionality Split	K. Holley	Noted
T2-010826	Report of UE Split Joint Meeting SA1/T2 rev 1	Secretary	Draft for T2
T2-010827	Testability aspects of Terminal Local Model Interactions	Materna/Cetecom	Noted. Revised 829
T2-010828	Agreed Generic S1 WID User Profile	SA-1 Chairman	SWG2 agreement in minutes
T2-010829	Testability aspects of Terminal Local Model Interactions	Materna/Cetecom	Agreed. Output to T2
T2-010830	LS Response to SA 5 on 595, 597, 598, 602	R. Lockhart	Agreed. Output to T2
T2-010831	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications	R. Lockhart	Agreed. Output to T2

Annex B Outgoing Documents

Annex B1 Change Requests submitted to TSG-T2

The following CRs will be submitted to TSG-T2 for Approval:

TDOC	Subject
T2-010686	CR to 31.102 MExE root certificate storage on the USIM
T2-010706	CR to R98 07.07 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal
T2-010707	CR to R99 27.007 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal
T2-010708	CR to R4 27.07 Removal of +CGCLOSP and corrections due to IHOSS and OSP removal
T2-010709	CR to R99 27.007 Removal of +CGCLPAD and corrections due to X.25 removal
T2-010710	CR to R4 27.007 Removal of +CGCLPAD and corrections due to X.25 removal
T2-010716	CR to 27.010 Conversion of GSM to 3GPP references
T2-010717	CR to 27.005 Conversion of GSM to 3GPP references
T2-010724	CR to 21.904 Corrections to References List, AMR Specifications
T2-010	

Annex B2 TS's and TR's submitted to TSG-T2

The following TSs/TRs will be submitted to TSG-T2 for Approval or Information:

TDOC	Subject
T2-010	
T2-010	
T2-010	
T2-010	

T2-010	
T2-010	

Annex B3 Drafts of Liaison Statements submitted to TSG-T2

The following will be submitted to T2 for Approval:

TDOC	Subject
T2-010687	LS to T3 PKCS#15 support for MExE in the USIM
T2-010722	LS to SyncML Requesting DevMan Update
T2-010822	LS Response on UE Split Testability T1 Chairman's input
T2-010823	LS reply to T2-010617
T2-010830	LS Response to SA5 on 595, 596, 597, 598, 602
T2-010831	LS to S3 cc S5, S1, T3 on Security Needs for Terminal Applications
T2-010	

Annex B4 Other documents submitted to TSG-T2

The following other documents were agreed to be submitted for approval to TSG-T#12:

TDOC	Subject
T2-010828	Generic User profile WID
T2-010829	Testability aspects of Terminal Local Model interactions.
T2-010	

Annex C List of Participants

DELEGATE	ORGANIZATION	E-MAIL
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Annex F: Report from SWG3 Messaging

T2-010858

Source: SWG3 chairman

Executive Summary:

General:

Due to the tight time schedule – more than 100 documents - SWG3 split into sub-subgroups. On Wednesday SMS/CBS/EMS and MMS meetings took place in parallel.

MBMS is understood not to be immediately related to CBS. **It should rather be reviewed on a broader basis in T2:**

- T2-010604 approved WID Enhancement of Broadcast and Introduction of Multicast
- T2-010607 LS from SA1 "Clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN"
- T2-010631 LS from SA1 "Multimedia Broadcast/Multicast Service (MBMS)"

CBS:

A LS from RAN3, T2-010594 (LS from RAN3 "Iu-BC requirements"), was noted. Further information will be sought by Ian Harris.

SMS:

Character sets – a CR to 23.038 (T2M010840) was agreed, placing more emphasis on UCS2, and indicating that 7-bit character sets for national use are not intended to be added.

A LS concerning SMS test specifications, T2-010844, was drafted, for sending to T1. There may be an error to correct.

EMS:

5 CRs to 23.040 were agreed:

- Adding support for a hyperlink IE (T2-010817)
- Making the PID codepoint for EMS obsolete in R'99 (T2-010818), REL-4 (T2-010842) and REL-5 (T2-010819)
- Adding a EMS delivery request (T2-010847)

Note that Nokia objected against T2-010847. A show of hands depicted support from various companies and showed that no other company than Nokia objected.

"Nokia objects to the latest new EMS features on the grounds that: -

- *There are no service description requirements to Rel 5 of EMS, even though the work plan of 3GPP Rel-5 says that SA1 defines all the service requirements for EMS enhancements in Rel 5.*
- *The work on EMS appears to be expanding at each T2 meeting and occupies more and more time out of the SWG3 time schedule.*
- *The danger here is that by making EMS more and more feature rich you dilute the value of MMS."*

There were two interesting presentations on line drawing or vector graphics. No technical details are available yet.

Postponed for SA1 Feedback was T2-010759 (CR 23.038: EMS support over CBS)

MMS:

5 CRs to 23.140 REL-4 and 5 CRs to 23.140 REL-5 were agreed.

REL-4:

- T2-010736 CR 23.140 Clarification of REL-4 MMS authentication
- T2-010737 CR 23.140 MMS address hiding
- T2-010807 CR 23.140 REL-4: Correction to MMS MM4 interface
- T2-010848 CR 23.140 R4 Refinement of the reply-charging service behaviour description
- T2-010849 CR 23.140 Correction to MMS MM4 interface, delivery report

REL-5:

- T2-010741 CR 23.140 R5 – New Figure 5
- T2-010748 CR 23.140 Priority field in notification message
- T2-010803 CR 23.140 Detailed Notification
- T2-010816 CR 23.140 editorial changes
- T2-010850 CR 23.140 Revised T2M010086 - Clarifications and Editorial Changes

7 Outgoing LSs were agreed:

- T2-010811 LS to WAP Forum on MMS authentication
- T2-010812 LS to SA5 on MMS charging

- T2-010814 LS to SA4 on MMS codecs specification
- T2-010851 LS to SA4 on status of DRM and up-streaming
- T2-010852 LS to WAP Forum
- T2-010813 reply to GSMA-MSIG MMS concerns

With the LS to SA4 in T2-010814 we're trying to "source out" the responsibility for codecs in MMS (except text) to SA4.

On MM7, an I/F to a VASP, it was decided to focus on working out the requirements until to the next ad hoc. Once the requirements for MM7 are defined, an LS should be send to the OSA group to inform them about these.

T2-010587, Impact of T2 work on implementation, together with an LS from the GSMA-MSIG, T2-010786, where concerns regarding the MMS implementation where expressed resulted in lengthy discussions on which way to go for a future IP-based MMS implementation. No conclusion could be reached but it was decided to respond with an LS. The LS should illustrate the current status, including information on the interoperability issue, and ask for clarification and guidance/requirements (T2-010813) from GSMA-MSIG and SA1.

On T2-010848, Nokia wanted the minutes to note that REL-4 of MMS is frozen, and only essential corrections should be created for it. Document T2-010848 is in the grey area as it extends to the area of addition of a feature as well. Approval of Change Requests like this for frozen Releases has to be agreed case by case.

Due to lack of time the following documents were **postponed to the next SWG3 MMS ad hoc meeting** after a brief review: **T2-010744, T2-010774, T2-010779, T2-010780, T2-010787, T2-010788, T2-010745, T2-010746.**

Action Items:

- Ville, Nokia, to add a reference to the CN3 specification to 23.140 once RADIUS authentication is approved there (cf. T2-010620)
- Magnus, Ericsson, to draft a stage 1 CR to 22.140 on DRM and circulate it on the email reflector
- Chen, Bijitec, to inform SWG3 when their vector graphics format is opened
- Vasilis, Openwave, to kick off an email debate on REL-5 authentication
- Vasilis and Josef to work on the backwards compatibility problem with new features in MMS
- Rami, Comverse, to kick off an email debate on MM7 requirements (starting point: T2-010787)
- Ileana, AT&T WS, to kick off an email debate on the scope of inbox management in REL-5
- Rami, Comverse, to kick off an email debate on MM3
- Gwenael, Alcatel, to drive registration of SMS MIME type
- Gwenael, Alcatel, to kick off an email debate on MIME registration of EMS codecs
- Josef, to draft a LS back to GSMA-MSIG and SA1

- All interested companies: go to SA1 on CR 23.038: EMS support over CBS - T2-010759

Future Meetings:

T2 SWG3 MMS	22-26 October 2001	Dortmund/Germany
T2 SWG3 EMS	Tbd*	Tbd*
T2#15	26-30 Nov 2001	Cancun, Mexico
T2#16	11-15 Feb 2002	no host

* date and venue for the SWG3 EMS adhoc are to be decided in T2#14 closing plenary

Outgoing documents:

Outgoing CRs:

- T2-010736 CR 23.140 Clarification of REL-4 MMS authentication
- T2-010737 CR 23.140 MMS address hiding
- T2-010741 CR 23.140 R5 – New Figure 5
- T2-010748 CR 23.140 Priority field in notification message
- T2-010803 CR 23.140 Detailed Notification
- T2-010807 CR 23.140 REL-4: Correction to MMS MM4 interface
- T2-010816 CR 23.140 editorial changes
- T2-010817 CR 23.040 Hyperlink Information element
- T2-010818 CR 23.040 EMS PID Rel99
- T2-010819 CR 23.040 EMS PID REL-5
- T2-010840 CR 23.038 Editorial and UCS2 preferences
- T2-010842 CR 23.040 EMS PID REL-4
- T2-010847 CR 23.040 EMS Delivery Request
(Note: Nokia objects on the grounds mentioned above under “EMS”)
- T2-010848 CR to 23.140 R4 Refinement of the reply-charging service behaviour description
(Note: Nokia wanted the minutes to note that REL-4 of MMS is frozen, ... (see above))
- T2-010849 CR 23.140 Correction to MMS MM4 interface, delivery report

- T2-010850 CR 23.140 Revised T2M010086 - Clarifications and Editorial Changes

Outgoing LSs:

- T2-010811 LS to WAP Forum on MMS authentication
- T2-010812 LS to SA5 on MMS charging
- T2-010814 LS to SA4 on MMS codecs specification
- T2-010844 Liaison Statement on SMS testing
- T2-010851 LS to SA4 on status of DRM and up-streaming
- T2-010852 LS to WAP Forum

Detailed Report of the SWG3 Meeting at T2#14

The meeting was chaired by Josef Laumen, Siemens.

Alan Stebbens, Openwave, volunteered as secretary for the SWG3 sessions and MMS-only session on Wednesday.

Barry Jones, Magic4, volunteered as secretary for the parallel EMS session on Wednesday.

Monday, September 03, 2001 – **SWG3** (SMS/CBS/EMS & MMS people)

Incoming LS's

T2-010594 (LS from RAN3 on Iu-BC requirements)

Postponed until this issue can be checked with an expert.

T2-010601 Liaison on UMTS_AMR2

Postponed until the relevant Nokia contribution CR has been reviewed.

T2-010603 approved WID Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E)

Noted; Rami (Comverse) "volunteered" to write an LS to SA4 on related issues.

T2-010604 approved WID Enhancement of Broadcast and Introduction of Multicast

Noted Bring back to T2.

T2-010607 LS from SA1 "Clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN"

Noted Bring back to T2.

T2-010608 LS from WAP Forum "REPLY-CHARGING FUNCTIONALITY IN 3GPP REL 4"

Noted. Already dealt with during the Braunschweig adhoc. SWG3 is still working on a solution.

T2-010609 LS from SA4 "re: Extended Streaming Service"

Noted.

T2-010610 LS from SA4 "re: Extended Streaming Service and User Profile"

Noted.

T2-010611 LS from SA4 "Digital Rights Management"

Noted. Rami (Comverse) will be writing an LS (see above).

T2-010614 LS from SA3 "re: extended streaming service and user profiles"

Noted.

Tuesday, September 04, 2001 – **SWG3** (SMS/CBS/EMS & MMS people)

T2-010618 LS to SA2, SA5 cc: CN2 "MMS charging"

Noted. output from BS – noted

T2-010620 LS from CN3 "re: Standard method for information delivery between GPRS and an external PDN using RADIUS"

620 – noted – LS to WAP Forum by Josef

T2-010623 LS from SA1 "re: New feature for SAT originated SMS"

623 - noted

- T2-010624 LS from SA1 "Adding EMS to CBS"
624 - noted
- T2-010625 LS from SA1 "re: LS reply on Extended Streaming Service" (T2-010495)
625 - noted
- T2-010629 LS from SA1 "Push Service Stage 1"
629 - noted
- T2-010631 LS from SA1 "Multimedia Broadcast/Multicast Service (MBMS)"
631 – noted & back to T2
- T2-010633 LS from SA1 "Digital Rights Management"
633 – noted – Ericsson drafts CR to 22.140 on DRM requirements via SWG3 email
- T2-010634 LS to SA4 "MMS digital rights management"
Noted already dealt with in Braunschweig
- T2-010635 LS from SA1 "stage 1 for Extended Streaming Service"
635 - noted
- T2-010638 LS from SA5 "re: MMS Charging"
638 – noted – LS back to SA5 invitaion to our next ad hoc
- T2-010642 LS from GSMA MSIG on MMS
Noted, revision in 786
- T2-010643 LS from SA1 chairman on MMS CR (T2-010340 postponed from T2#13)
noted – already dealt with in BS and via email
- T2-010654 Liaison statement on requirements on Multimedia Broadcast/Multicast Service
654 - noted
- T2-010786 (MSIG0XX_01 LS to T2 on MMS)
Postponed

EMS

- T2-010785 Vector graphics in EMS
Bijitec announced IPRs (declaration is available); Comverse announced IPRs (Comverse about to make declaration)
Postponed until format opened – Bijitec to come back with a formal declaration
- T2-010734 CR 23.040: Line Drawing as Extended Object in EMS
Postponed – see 785
- T2-010735 Biji Line Drawing Messaging – White Paper
Postponed – see 785
- T2-010755 Discussion on the registration of SMS and EMS MIME content types with IANA
Noted. Alcatel to revise the document.
- T2-010760 Hyperlink Information Element in EMS (T2-010491)
Proposes a hyperlink extended object.

Vasilis (Openwave) does not support this. Says that WAP Push already supports this. Why a duplicate protocol?

Rami (Comverse) thinks that this is a good feature, supporting end-user to end-user link passing.

Vasilis (Openwave) said that the example of using SMS-based links for VASPs is not a good one; WAP Push 2.0 is already providing this functionality for VASP.

Rami agreed with Vasilis. This feature is good ONLY for subscriber-to-subscriber link passing; this feature should NOT be used by VASPs to send links.

Randy (Motorola) thinks that it may not be sufficient to add links to extended objects only; it may also be necessary to add links as a single object.

Josef suggested that the document be redrafted because it is based on the wrong version of the spec, and because there is insufficient explanation as to why the change is being inserted.

Deferred: The document will be redrafted, and reviewed again on Wed.

T2-010762 CR 23.040: EMS PID

Inserts clarifying text as to the proper use of EMS PIDs.

Kevin H. doesn't understand the reason for the change.

Randy says that although he would prefer that the PID be removed, talks with others have convinced him that backward compatibility is important. Thus, they are proposing to clarify and restrict its usage.

Kevin: It seems that trying to fix the spec as a remedy for incorrectly implemented handset may not be the right approach.

Gwenael (Alcatel): If PIDs are not passed correctly through certain SMSCs then inserting a restriction in the spec will not fix the problem of their misuse.

Vasilis: The PID has a proper use, and if certain handset vendors do not implement it correctly, then this is another issue.

Josef: we need some basic clarification of the PID value, but it's not clear if the current text is acceptable.

Vasilis: the SMSC can use the PID to determine if the message is an EMS or not.

Ian: This is correct; without using the PID, the SMSC must bury itself in the message content.

?: This issue would not be occurring if the SMSC vendors passed through the PID untouched, instead of masking them and/or changing them willy-nilly. Handset vendors have protected themselves against this misuse of PID masking by doing other things, including not using the PID correctly. This is a responsible CR: it still allows PIDs, but it clarifies current handset behavior.

Ian: he finds it strange that SMSCs are modifying PIDs which are end-to-end values. If we accept this CR, then we are condoning the current behavior of SMSCs masking the PIDs which will cause problems with billing and statistical analysis.

Paul Richardson (Ericsson): the handset vendors have had to "pull the rabbit from the hat" in making EMS work because the SMSCs have been messing with the PIDs. We support this CR.

Ian: I'd like to understand why SMSCs are overwriting these PID values.

?: are SMSC vendors constrained by these specs?

Kevin: operators are allowed to override certain kinds of messages, but this doesn't mean that SMSC vendors are free to change SMS content freely.

Deferred to the EMS session on Wednesday

T2-010766 Discussion on EMS Compatibility

Proposes an "EMS Capability" function message type.

General consensus is that this won't work – inter-operator issues, etc.

Noted.

T2-010767 CR 23.040: IE capability

Proposes a new "profile update" command, with detailed assignments for specific capabilities.

Wille Warsta: Nokia has serious reservations about this proposal.

Arthur Gidlow (One2One): thinks that this proposal has some merits and deserves further study.

Wille: SWG3 should use the work of the User Profile group to help solve the issue of EMS capabilities.

Jens (Nokia) says that there are a lot of issues that haven't been considered yet, and this CR is incomplete.

Randy (Motorola): thinks that there are some good ideas in this CR, but as it stands is incorrect.

Josef suggests that these issues about EMS capabilities needs to be brought up to SA1, to determine basic requirements.

Rejected. Gwenael will provide company input to SA1.

Vasilis (Openwave) says that this issue needs to be addressed in the SS7 signaling, and a CR against 29.001(?) is more correct.

Rejected.

T2-010764 CR 23.040: EMS Capability IE

Proposes a new, mandatory info element for peer-to-peer EMS that addresses compatibility indications. It is mandatory for MO EMS elements, and must be the first one.

Jens (Nokia): is not sure how it should work. Does the receiving end also send back its capabilities?

Randy (Motorola): each MO EMS message must have a capabilities element as the first item.

Vasilis (Openwave): this needs to be investigated at the signaling level. The current CR addresses only a small problem and is therefore a piece-meal approach.

Randy: solving part of the problem is better than not solving any of it.

Jens: this solution is a "hack", and one that Nokia cannot support.

Randy: there are some more specifics that need to be addressed, and will be.

Ian Harris: this seems to be an important issue, and appears to be needed in a timely manner. Shouldn't we have a meeting on this specific issue?

Jens: we should work to solve this issue in a backward-compatible manner.

Josef: there was a rumor (at lunch) to have an EMS ad-hoc. Perhaps we ought to wait for the ad-hoc

Alan (Openwave): once EMS started allowing presentation items, it became necessary to send information **about** the presentation items so that the other ends, or even the network, could do the right thing. This issue is already well-known in MMS, both in 3GPP and WAP, and there is work in place to address it. EMS can either do something in alignment with this existing work, or it can try to solve it in a completely separate way. I suggest that the EMS compatibility issue be researched a little bit more, considering the MMS work, in order to address it in a more general way.

Rami: agree with Alan

Jens: agree with Alan, and think that this research can be accomplished by the freeze of Release 5.

Barry Jones: what is the timeframe for this study of the problem? If we don't solve it this year, then it will get worse.

Ian: if we try to rely on signaling, then it will take at least two years to solve it. The compatibility approach for EMS must be simple.

<lots of discussion – no conclusion>

Mark Cataldo (Openwave): SA1 discussed this issue in the past and reached no conclusion. Perhaps this issue should be sent as an LS to SA4 to help resolve it?

Vasilis: when

Mark Cataldo: where are the requirements for these new EMS features? Is there some input from SA1?

Jens: this is the real problem: T2 is cooking up new features for EMS without having real service requirements for EMS from SA1.

Rami: sending an LS to SA1 will not be productive.

Kevin H.: lets' stop thinking of ourselves as working in one group or another; let's think of ourselves as part of the 3GPP community. Instead of an LS to SA1, let's take the issue back to our companies and produce contributions on the issue.

Josef: there is no Stage 1 for EMS/SMS.

Jens: SA1 has the work plan item for Stage 1 work for EMS; T2 will fulfill Stage2 needs.

Rejected. Interested parties should get together and sort out the EMS issues, produce Stage 1 input, and then produce Stage 2 specs based on the Stage 1 consensus.

T2-010759 CR 23.038: EMS support over CBS (T2-010502)

Postponed to SA1 feedback

T2-010755 Discussion on the registration of SMS and EMS MIME content types with IANA

Some general comments about registrations.

Alan (Openwave) says that security considerations apply not only to whether or not there are executable elements, but also if there may be personal information content which could be revealed. Given that SMS content will surely contain MSISDNs or some kind of address, this should be mentioned, if not discussed, within the security considerations.

Further, it seems inappropriate to have special EMS types. EMS is being designed as a transport and a kind of service offering. While the devices that support EMS may have limitations that require special codes and formats, it is better to use existing formats and codecs as possible, and, where necessary create new formats and codes, but not name them specifically for EMS. For instance, if a 4-bit b&w picture is needed for most EMS devices, then use or create a special image subtype of 4-bit-bw, but don't call it "EMS-4-bit-bw". This will allow these special codes to have wider applicability than just within the EMS service.

Gwenael will rework the CR, as discussed and resubmit.

Postponed for SWG3 feedback via email.

T2-010772 Why EMS for Cell broadcast

Noted.

MMS

T2-010786 Concerns about MMS Development

MSIG has concerns about the lack of common solutions in MMS Stage 2 and its effect on M-Services

Josef: it's unclear whether MSIG is asking about MM1 or MM4.

Ian: 23.140 is a Stage 2 only doc, and it's unclear what MSIG is asking about.

Vasilis: I agree with Ian that it is unclear whether MM1 or MM4 is the issue, but I disagree completely with Ian about 23.140 being a Stage 3 document. MM4 in 23.140 is entirely a Stage 3 spec. Dominic Badger, of BTCellnet, was expressing a worry about interoperability between operators.

Rami: he (or his colleagues) were at the GSMA meeting and they were definitely worried about the MM1 interoperability.

Petri: he has been part of GSMA for three years, and this was the first time he's heard about IP implementation.

Josef: There is concern about interoperability. There is a working technical implementation in the WAP specs; perhaps we ought to normatively refer to the WAP specs?

Kevin H.: we have to be cautious about making changes like this. While we need to carefully consider the MSIG issues, we shouldn't mandate a single implementation without very careful consideration.

Ian: since we're guessing, we need to find out exactly what are MSIG's concerns.

Kevin: what's not to understand – they are worried about interoperability issues. There is a single implementation now. If we were working on five different implementation, then perhaps it would be appropriate to be concerned about interoperability between them.

Lots of discussion ranging from “business decisions” to “X is not relevant” to “WAP is even needed for the ‘WAP-free’ implementation”.

Josef: operators are very concerned about their potential MMS investments, and want to be reassured that the MMS infrastructure **will** interoperate.

Rami: no one has talked about interoperability testing in 3GPP, and this concerns operators. We can make lots of guess, but we should call the guy who wrote this document.

Kevin H.: if you want to specify a service, you need to refer to the specs that allow them to be built. Currently, you cannot refer to the Release 4 specs. I don't agree with Rami.

Josef: there doesn't seem to be any resolution. Will return to it later.

T2-010587 Impact of T2 work on implementation (revised T2-010585)

Vasilis: what is the purpose of this document at this time. It seems like it would have been better at the beginning of Release 6.

Kevin H: there's never been a good time for a document like this. To avoid T2 spending a lot of time asking other groups what is happening, and to make T2 a group of excellence; we need to focus on our “core competencies”. What are these?

We've never reviewed the output of the WAP forum in 3GPP T2, and would this be an appropriate activity, to see how well the output of WAPF meets.

Rami: I agree with Kevin. There is a serious problem between 3GPP and the WAPF, in fact disharmony. The WAPF specs lag by a long time from the 3GPP specs. They've always had their own ideas on what's the right thing to do, etc. For example, streaming, reply-charging, etc. Something is rotten in the kingdom of MMS.

Kevin J.: we are concerned about the gap between WAPF and 3GPP specs.

Vasilis: there is a lot of good work going on within 3GPP MMS. MM4 is absolutely critical – it guarantees interoperability. There is good work in WAPF on MM1 – there are handsets and MMSCs that are working today. The single issue is the fact that some operators want an IP-only implementation, and this makes other operators concerned about interoperability.

Josef: some operators seems to express an opinion that it is a problem that 3GPP has delegated the Stage3 technical work to another organization.

Mark C.: the reason it went to WAP was because operators wanted a solution as urgently as possible. But, at the same time, it was made clear that there would always be another possible implementation.

Rami: 3GPP does Stage 3 all the time; we went to the WAPF because they applied to do the Stage 3 and the 3GPP T2 group didn't have the expertise at the time.

Right now, we should encourage the WAPF to catch up to Release 5 as quick as possible.

Miraj: Release 4 work is going on right now within WAPF. In general, it's not possible to quickly implement technical work within a few months of receiving the functional specification.

Stop for the day.

Wednesday, September 05, 2001 – (MMS people only)

Continuation of T2-010587

More discussion on what exactly the M-Services document was asking.

Alan (Openwave) suggested that we do not perform an “audit” on the Stage 2 docs, but instead reply to the M-
Services document with some kind of status and reassurance about interoperability issues.

Lots more general discussion.

Josef said that the operators are worried about their investments, when there appear to be multiple
implementations of MMS.

Alan said that there is actually only a single implementation, and that the “IP-based MMS” is still not achieved,
without consensus. Therefore it is illogical to expect any statement about interoperability issues on an as yet
non-existent specification and implementation.

Noted. SWG3 will issue an LS to M-Services providing a current status, including information on the
interoperability issue.

T2-010651 Continued work with applications...

Deferred (presenter not available)

T2-010752 Report Seattle MMS meeting

noted

T2-010782 Draft Minutes-v2 SWG3#7 MMS adhoc

Josef read the report.

Vasilis reports that the authentication discussion was not kicked off because CN4 has been doing work in this
area.

Josef says that an LS will be issued to the WAPF asking for clarification

Vasilis will kick-off a discussion on Rel-5 authentication.

The five previous revised LS'es will be passed to T2 for approval.

T2-010651 Continued work with applications...

Presented some issues with app development that are not met with the current MMS specs. Mostly
infrastructure issues, including APIs, authentication, etc.

Vasilis disagreed with the scope of proposed work, saying that it would delay current progress. Rami also had
some comments.

Noted.

T2-010751 Agenda Seattle MMS meeting

Vasilis presented the Seattle results

T2-010752 Report Seattle MMS meeting

Vasilis presented the Seattle results

T2-01803 (CR 23.140 - Detailed Notification) (formerly T2-01738)

Some small editorial changes suggested by Miraj.

Rami disagrees with this CR, but does not object (it will cost the operators more money, and Comverse will be
glad to take it).

Lots of discussion on this document, both plus and minus.

CR accepted.

T2-010736 CR 23.140: Clarification of REL-4 MMS authentication

Agreed

T2-010737 CR 23.140: MMS address hiding

Agreed

T2-010738 CR 23.140: Detailed Notification

Revised in T2-010803 which was agreed

T2-010748 CR 23.140: Priority field in notification message

Agreed

T2-010784 T2M010095 CR 23.140 Revised T2M010086 - Clarifications and Editorial Changes

Accepted.

T2-010773 CR 23.140: Correction to MMS MM4 interface, delivery report

Accepted.

T2-010754 CR 23.140 REL-4: Correction to MMS MM4 interface

The system address should be fixed and not configurable, otherwise it is not possible to address it by other MMSEs. The problem and solution seems to be larger than the suggested CR.

Rejected. Will be revised and resubmitted as T2-010805.

T2-010742 CR to 23.140 R4 - Solution to the backwards compatibility problem with new and optional features in MMS

Ville wonders if it is appropriate for a new feature to appear within a Rel-4 CR.

Sophie says that originally the free replies were restricted to text-only.

Alan says that size may not be a factor in charging.

Josef say that, realistically speaking, size does matter. <General laughter>

Soren says that some operators will charge by the MB.

Arum: what do the operators want?

Miraj: suggests breaking this CR into two: one for fixing Rel-4, and one for improving Rel-5.

Rami: agrees with Arum: what do the operators want?

Sophie: this issue was discussed at length in the former Charging ad-hoc group; the minimum information needed was the size of the message.

Soren: the WAP Forum was asking for clarification on the charging issues.

Ville: wants to note that Rel-4 should not have new features; he will not object wants to note that this is a new feature.

Josef: thinks that this is not a new feature, and is just a correction.

Mark: agrees with Josef, from his reading, but also agrees with Ville – and we should not put new features in.

Noted. Updated version in T2-010808.

T2-010740 CR to 23.140 R4 - Refinement of the reply-charging service behaviour description

Lots of discussion on “optional” vs “conditional” element.

Changes made as part of online redrafting.

Noted. Updated version in T2-010806.

T2-010805 CR 23.140 REL-4: Correction to MMS MM4 interface

Now uses a new header. Some small changes.

Accepted as T2-010807.

T2-010808 CR to 23.140 R4 - Solution to the backwards compatibility problem with new and optional features in MMS

Vasilis (Openwave) agrees that there is a problem, but does not agree with this solution, of using end-to-end capability information. In particular, there does not seem to be any value in sending capability information in a notification. He stated other examples. Capabilities negotiation should be kept localized.

Ville: these kinds of changes are quite extensive and represent new features and should not be placed within a Release 4 CR.

Rami: this is a serious problem. One problem with this suggestion is that it is not backward compatible.

Vasilis: there is a clear need for capabilities negotiation between MMSE elements. From UA to Relay/Server, from Relay/Server to another Relay/Server, and from Relay/Server to UA.

Reject. Kick-off a discussion on capabilities discovery.

Vasilis will work with Siemens to bring a CR to the next T2.

Release 5 work:

- MM1 technical realization based on existing IETF messaging protocols
 - 743 – noted, 765 – noted, 776 – noted, 768 – noted, 747 – noted, 744 - postponed
- MM7 definition, scope and technical realization
 - 774 – postponed, 777 – withdrawn, 779 – postponed, 780 – postponed, 787 – postponed, 788 – postponed
- MMS Relay/Server based persistent storage
 - 745 - postponed, 756 – noted
- Address resolution on MM4 & Mobile Number Portability for 3GPP MMS
 - 746 – postponed
- MM3
 - 778 – POSTPONED TO THURSDAY – EMS-relevant also !
- Editorials
 - 741 – accepted, 750 – POSTPONED to offline discussion Nokia/Openwave
- Codecs
 - 753 – agreed in principle – wording to be revised in 814, 801 – principle accepted - noted

T2-010743 3GPP MMS MM1 Mappings on IETF Messaging Protocols

Vasilis presented the ppt on IP mappings.

Ville: MMS Release 5 WID does not mention IP based MM1 implementation

Mark C.: Stage 1 requirements clearly call for “use of existing Internet protocols”

Josef: why make a distinction between immediate and deferred retrieval.

Vasilis: the WAP implementation treats read reports and delivery reports differently. We don't understand this, but in our approach, both can be treated as either a push message or as a special MM.

Josef: pipelining isn't demonstrated in the ppt.

Vasilis: the CR clearly shows how pipelining can be used, and where.

Josef: is there any size limitation in the pipeline?

Vasilis: not that I'm aware of. I'll research this.

Ville: what kind of capability negotiation is being used?

Vasilis: UAPROF is being used on the RCAPABILITY command.

Eskil: what happens if you use a “normal” or plain IMAP client on the MMS imap server.

Vasilis: good question. If you implement only what has been presented to fulfill the minimum MMS functions, then “normal” IMAP clients will either not work, or work badly.

Rami: the whole universal access issue is not solved by this proposal, not by ours, not by any proposal. We think the correct way to provide universal access is to have an email server behind the MMS Relay/Server. Is this what you are proposing?

Vasilis:

Alan B.: how does SMTP support streaming?

Vasilis: actually, URLs are sent in the push notifications, and the User Agent can initiate the streaming session independently of any other MM1 transactions.

We will bring a call flow diagram on how we can do streaming

Paul Reddy: we think this is a good approach, which from Intel’s perspective, seems to meet the time-to-market requirements that carriers have been expressing. Email is a killer-app. A lot of business users have their own email right now. How would existing email systems be made available via MMS.

Miraj: did Openwave consider interoperability issue with the WAP specs?

Vasilis: yes, we have considered this. The use case for the most serious case seems to be a business problem: should operators require that handset vendors support multiple MM1 implementations?

Our MMS Relay/Server will support both implementations of MM1.

Marcos (?): there seems to be a serious amount of overhead in implementing both WAP and SMTP/IMAP protocols.

Ville: it appears that WAP Push is in this picture, yet this is supposed to be IETF protocols.

Vasilis: we used “existing IETF-based **messaging** protocols”, not **only** IETF protocols. The WAPForum did a good job on push notification, so we used it – in fact, it’s the **only** notification protocol that exists as any kind of standard.

Noted.

T2-010765 IP Based MM1 Proposal

A proposal for HTTP-based proxy of SMTP and POP protocols.

T2-010776 presentation IP based MMS

Converse proposal which is almost identical to that of Motorola’s, except that HTTP is transported all the way to the client.

Vasilis: 1st question: how do you achieve extensibility that IMAP STORE supports?

Rami: this needs to be elaborated further, if we decide that we need it.

Vasilis: 2nd question: are you going to implement “standard” IMAP over HTTP, or some new IMAP-like protocol? 3rd issues: what is the value of tunneling IMAP and SMTP over HTTP? Is it fair to compare a complete specification with a Powerpoint proposal?

Rami: yes, it is fair. We complimented Openwave on this mapping, but we don’t

Marina: we agree with Rami that the issue now is not about the precise details, but about high-level descriptions.

Vasilis: are your and Motorola’s proposals the same or different?

Rami: we interpreted and extended the Motorola proposal. It was not coordinated with Motorola, however.

Tim A: looking at the diagram, it is difficult to understand why HTTP is valuable?

Rami: first, with HTTP there are only two commands; and second, it is not a “chatty” protocol.

Soren: HTTP is useful for other features. It avoids the “chattiness” of IMAP and SMTP.

Vasilis: since we cannot reply to the comparison by Comverse, we would like to note our disagreement with the comparisons. Also, it is not fair to ask for a comparison between a detailed, complete CR with a powerpoint presentation.

Openwave does not agree with the presentation of a comparison against our proposal, when there is no basis for comparison. We have produced a technically complete CR that we feel provides a full technical realization, and Motorola/Comverse have produced power point presentations. Comparing them would be like comparing a finished building with a paper-napkin drawing of a building.

Noted.

T2-010768 MM1 IP implementation discussion

A presentation on the differences between the protocol stacks in the different IP architectures.

Vasilis: what is meant by Non-IP in the pictures? If it is SMS, then this drawing is inappropriately referring to the SMS.

Soren: this drawing is just taken from the

Vasilis: what is the problem with interoperability? What do you mean?

Soren: Motorola thinks there are roaming issues between different versions of handsets.

Vasilis: Openwave is certain that there are no roaming issues, as I stated earlier.

Rami: says that this is strictly an MM1 issue, so why describe all these non MM1 functions?

Noted.

T2-010747 (MMS Protocol Stacks)

Vasilis explained the simplicity of the protocol stack.

Marina: HTTP is very simple.

Vasilis: why can there be an interoperability problem with our proposal but not with the HTTP proxy? In both cases, the "legacy" handsets will not recognize the protocols.

Vasilis: how does the HTTP proxy demonstrate interoperability?

Noted.

Arum: the first IP implementation was proposed by DoCoMo, and it hasn't spoken up lately. We'd like to know their view. 2nd: why do we need to spend time on a second implementation?

Tim: as a 3G operator, we do not wish to offer services on WAP 1.x services.

Ileana: the message is clear. M-Services made it clear. We need a single solution, and we need it by the end of the year. Further, it needs to be an end-to-end system protocol that satisfies the 3G services.

Mark C.: we had a meeting over a year ago, in Puerto Vallarta, where we discussed the solution approach. The group felt it should go down the IP route, but given that there are very short term market requirements, and given that certain companies volunteered to develop an interim solution quickly, they chose to follow the WAP solution as an interim. It is now becoming clear that these companies that were happy to work on an interim solution and offered to return to the IP solution, are now failing to keep their original commitments.

Ville: MMS Release 5 WID does not mention IP based MM1 implementation and we are spending a lot of time on it

Josef: T2 chair says that the IP implementation should be treated equally to the WAP implementation.

Rami: maybe we should send an LS to GSMA?

Josef: perhaps we should stop our discussion now, and

Paul: I was at MSIG, and they wanted a single solution, and they wanted an IP-based solution.

Mark C: there are two people present who were at the meeting, and who reported what was meant by the MSIG request, but there is an apparent reluctance by some to accept their verbal statements. So, perhaps we should send an LS statement to GSMA to clarify their request. However, by doing this we will be delaying progress.

Rami: the GSMA is worried that the Stage 3 is being done by the WAPForum.

Markus: we support the proposal to send an LS to GSMA and SA1.

Mark C: the GSMA wants 3GPP to control the Stage 3 docs, and not the WAP Forum.

Vasilis: the 3GPP T2 specs for the phone describe an IP stack, and do not even mention the WAP stack. Why can SWG3 specify WAP-based MMS protocols when the WAP stack is not specified for the phone? It seems more appropriate to define an MMS on WAP, then let's get the WAP stack specified in T2 for the phone protocol stack.

Henrik: short term, we absolutely prefer WAP – it's the only solution that will deploy in the short term. Long term: we believe that the IP solution must be the one.

Rami and Vasilis will work together to work out the LS for the WAP Forum.

Josef will work on the LS to GSMA and SA1.

T2-010768 MM1 IP implementation discussion

T2-010753 Transfer of the responsibility of MMS codecs&formats

Vasilis: Openwave supports this.

T2-010801 Changes to 23.140 on MMS codecs

Agreed, in principle, once SA4 accepts our proposal.

MMS Ad-Hoc for Oct 20-22 proposed. Paul Reddy, Intel, also proposed an MMS adhoc in Portland, Oregon

T2-010774 API for MMS

Postponed

T2-010756 Network based message storage

noted

T2-010741 CR to 23.140 R5 - New Figure 5

Approved.

T2-010750 CR 23.140 Rel-5: Editorial changes

Vasilis objected to the moving of WAP & MExE to the MM1 section.

T2-010779 (Delivery Report to VASP)

Vasilis: supports this, especially since XML/SOAP, in particular, is required by OSA.

Rami: while we will support SOAP if it is required by OSA, we propose using PAP.

Ville: Nokia does not support using PAP either.

T2-010787 VASP connectivity principles

Rami will kick-off and collect MM7 requirements

Noted

T2-010788 (MMPP PAP+ Ideas)

T2-010745 Persistent Storage

Describes some possible implementations on persistent storage.

Rami supports the ideas but thinks there are too many details and options for an initial specification. All of these functions, whatever we agree up, must be in MM1. Therefore it must be simple.

Tim A: supports persistent storage, and really thinks that partial retrieval is important.

Rami asks if an operator, maybe Ileana, could drive the resolution process.

Ileana volunteered to lead the email discussion on persistent storage functionality.

Postponed

T2-010746 3GPP MMS MSISDN Address Resolution

Vasilis described how to use ENUM and a mapping table.

Rami: we support this proposal, and suggest that we send an LS to GSMA indicating that the ENUM db maintenance issue must be resolved.

Petri: SS7/SMS based solution is difficult and expensive solution and might be only a short time solution if ENUM based solution will be included for MMS

Ileana: because of LNP, the mapping between the MSISDN requires one entry per subscriber. This requires a very technical solution, and which should probably come from SA2, since this is a generic problem and not specific to MMS.

Josef: if we find a solution, SA2 asked us to inform them.

Eskil: there may be an issue with where we can store the IMSI.

We will continue this discussion via email.

Thursday, September 06, 2001 – SWG3 (SMS/CBS/EMS & MMS people)

T2-010815 Basic principles MM3

Vasilis: does your proposal suggest that SMS is required in every handset, even though SMS clients are not present?

Rami: if the SMS “stack” is not required in every phone, then we will reconsider the SMS usage.

Ileana: not all phones are required to have SMS; it is not a mandatory feature.

Josef: even if SMS is on the phone, the operator or user profile may prefer the MMS “look”. In which, there doesn't seem to be a need to standardize in this area.

Noted

T2-010750/816 CR to 23.140 – editorial changes

Accepted, with some concerns by Vasilis (Openwave) that references to MExE seem to be disappearing.

T2-010840 Support to UCS2 and editorial corrections

Provides changes to 23.038 to make support for UCS2 clear.

Accepted in principle with modifications

T2-010845 Hyperlink Information element

Kevin: what's the difference between a hyperlink and a URL?

redrafted as T2-010817 and approved.

T2-010841 CR23.040 EMS PID Rel99

Vasilis: Removing the PID breaks layering of protocols.

Several companies supported this change. Josef said that the market seems to have already decided that the PID is not needed, and this change is just making the spec congruent with current market practise.

Approved, in principle, as T2-010818.

T2-010840 CR 23.038 Editorial and UCS2 preferences

Approved.

T2-010846 CR 23.040 EMS Delivery Request

Long discussion on this one. Basic issue is that this is a new feature without a clear requirement from SA1. Lack of general consensus on the best way to achieve the intended goal. Nokia and Ericsson generally do not support this.

Alan B. says that this feature is forward compatible, and capable of dealing with new formats not yet specified without having to change this spec.

Nokia objects this CR. Normally, SA1 gets involved and approves new service requirements, and there has been no such LS from SA1.

Kevin: not sure there is a Stage 1 for EMS, and in general, SA1 might have issues with capability negotiation being done in an ad-hoc manner.

Ville: we object primarily against the last sentence, beginning "However,...".

The sponsors agreed to remove that sentence.

Paul V. asked to see the EMS work plan; he doesn't think that this is work that had been agreed upon.

A vote was taken; 21 companies supported; 3 abstained; and 1 objected (Nokia).

Revised in T2-010847 - Approved by majority, with Nokia objecting on the grounds mentioned in the "Executive Summary" above.

T2-010806 (CR to 23.140 R4 – Refinement of the reply-charging service behavior)

Ville: In general, Release 4 is frozen, and new features cannot be added.

Accepted as T2-010848.

T2-010807 CR 23.140 to MM4 reference point

Accepted.

T2-010773 CR 23.140 to MM4 delivery report

Accepted as T2-010849

T2-010741 (CR to 23.140 – New Figure 5)

Accepted

T2-010736 (CR to 23.140 R4 – Authentication)

Accepted

T2-010784 (CR 23.140-430 Clarification & Editorial Changes)

Accepted as T2-010xxx

T2-010737 (CR to 23.140 R4 – MMS Address Hiding)

accepted

T2-010803 (CR to 23.140 – Detailed Notification)

accepted

T2-010748 CR to 23.140 – Priority field in notification message

accepted

T2-010809 LS to SA4 on DRM

Accepted as T2-010859

T2-010810 LS to WAPF

Lots of discussion, but mostly Vasilis disagreeing with Rami about some specific text. The group decided to remove explanatory text that came from the 22.140. The text that said to “meet Stage 1 and Stage 2 Requirements” was left in.

Nokia also raised the question how 3GPP works: first stage 1 => stage 2 => stage 3 not stage 1 => stage 3

Approved. Revised in T2-010852.

T2-010811 LS to WAPF MMDC on MMS Authentication

Approved

T2-010812

Revised & approved

T2-010804 Registration of SMS related MIME types with IANA

Noted.

Annex A - SWG3 SMS/EMS Sub-Group Meeting Notes

5 September 2001

Detailed Report

The meeting was chaired by Arthur Gidlow (One 2 One).

Notes were prepared by Barry Jones (Magic4)

Doc No	Title	Results	Actions
T2-010594	LS from RAN3 lu-BC requirements	Noted. More information needed on the requirement for multiple CBCs	Ian Harris to seek more information.
T2-010600	Update to T0-19 SMS Test Specification	IH suggested that we redirect this doc to the T1 meeting in Beijing.	Peter Freitag to create a LS to T1 to explain the issues. IH to take comments to T1 chairman by email. LS in T2-010844.
T2-010733	Support of optional 7 bit Latin alphabet extension tables in 03.38	Z Osman presented outline document. IH Outlined previous thinking reference pointers to Character tables. AB and Jens reminded meeting that we should not replicate the work of UCS2. Zehnec accepted that UCS2 is the way	Document noted.

		forward	
T2-010739	Comments to T2-010733: Additional 7 bit Latin alphabet extension tables in 23.038	In the document Motorola, Nokia and Siemens recommend not to accept this proposal. 3GPP should endorse early decisions made by SMG4 to use UCS2 for languages which uses characters not on the 7-bit character table. This statement should be captured by the 3GPP T2#14 meeting report for future reference.	Document noted
T2-010758	Answers to T2-010739 and new proposal to TS 23.038	Answers response document 739 and requests support from 3GPP for adoption of UCS2 and outlines a CR to 23.038 changing paragraph 6.2	Recommendation: SMS will use UCS2 for all languages that are not currently on the 7 bit character table. Z Osman to provide change request to CR 23.038 by end of day ref T2-010840
T2-010760			Replaced by document T2-010802
T2-010761	Sub addressing scheme for EMS	Good support and recognised as an important feature.	Withdrawn. To be studied and returned to next meeting.
T2-010762	EMS PID	A change has been made to CR to be reflected in 3 new CR's one for rel-99, rel-4 and rel-5. The reflected change will be to mark obsolescence of EMS PID and modify behaviour . Consistent wording from the appropriate specifications are to be used	Randall G to create new CR's for submission for SW3 Plenary. Chairman to supply new CR numbers. Doc Nos T2-010841,T2-010842,T2-010843
T2-010763	Information Element Classification	RG presented a CR which added a descriptive column to the IEI coding table identifying IEI types ie Control and EMS Content. Suggestion that we readdress more in the change than the adding the table column. RG GIB suggested that additional columns be added and changes to the text which reflect relative behaviour of IEI types. Ian Harris suggested that the work is taken on out of this meeting	General support for clarifying the document. GIB and RG plus interested others to return a CR which will be delivered to next T2 meeting. Rejected

T2-010764	EMS Capability Indicator	Rewrite with no need for storage. Change approach to send EMS delivery request.	RG to represent as doc T2-010846
T2-010781	ZOOMON	SVG Graphics – Declaration of no IPR made. SVG 2.0 specification not a frozen standard. Unable to review without documentation availability.	Document noted and agreed that SVG is a topic under consideration through EMS WID
T2-010800		Jens Peter objected to not having access to the Change Request. Magic4 to provide Informative reference plus set of test vectors as in 23.042 Corrections to typo's	Resubmit for next T2 meeting.
T2-010802	Hyperlink Information Element	Fabrice Segura presented CR. PR is the Hyperlink object a text string or can it be an object? Jens Peter handset manufacturer to deal with the MMI.	To be reworked over the lunch hour and resubmitted with doc No T2-010845
T2-010845	Hyperlink Information Element	CR re-submitted with changes counter signed by Alcatel and Ericsson	Document accepted
T2-010846	EMS Delivery Request Indicator	This document is a rewrite of submission 764	To be presented for agreement in SWG3

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Annex C - SWG3 Document List

TDOC	Subject	Source	SWG
T2-010731	draft agenda SWG3 at T2#14	SWG3 chair	SWG3
T2-010587	Impact of T2 work on implementation (revised T2-010585)	BT	SWG3
T2-010590	LS from SA5 "re: MMS charging TSs"	SA5 (S5-010326)	MMS
T2-010594	LS from RAN3 "lu-BC requirements"	RAN3 (R3#21(01)1797)	CBS
T2-010600	CR 34.123-1: Update to 16. SMS test specification	T1 (TP-010121)	SMS
T2-010601	LS from TSG-T to SA4 cc T2 "UMTS_AMR2"	T (TP-010148)	MMS
T2-010603	approved WID Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E)	SA (SP-010392)	MMS
T2-010604	approved WID Enhancement of Broadcast and Introduction of Multicast	SA (SP-010268)	CBS
T2-010606	LS to CN3 cc SA2, SA3 on "Transmission of user identity from a GGSN to MMS Relay/Server"	T2 (T2M010093)	MMS
T2-010607	LS from SA1 "Clarification regarding the WI 010460 Enhancement of Broadcast and Introduction for Multicast capabilities in RAN"	SA1 (S1 (01) 0786)	CBS

T2-010608	LS from WAP Forum "REPLY-CHARGING FUNCTIONALITY IN 3GPP REL 4"	WAP Forum	MMS
T2-010609	LS from SA4 "re: Extended Streaming Service"	SA4 (S4-01)0434)	MMS
T2-010610	LS from SA4 "re: Extended Streaming Service and User Profile"	SA4 (S4-01)0431)	MMS
T2-010611	LS from SA4 "Digital Rights Management"	SA4 (S4-01)0429)	MMS
T2-010614	LS from SA3 "re: extended streaming service and user profiles"	SA3 (S3-01)0293)	MMS
T2-010618	LS to SA2, SA5 cc: CN2 "MMS charging"	T2 (T2M010090)	MMS
T2-010620	LS from CN3 "re: Standard method for information delivery between GPRS and an external PDN using RADIUS"	CN3 (N3-01)0324)	MMS
T2-010623	LS from SA1 "re: New feature for SAT originated SMS"	S1-010773	EMS
T2-010624	LS from SA1 "Adding EMS to CBS"	S1-010830	EMS
T2-010625	LS from SA1 "re: LS reply on Extended Streaming Service" (T2-010495)	S1-010835	MMS
T2-010629	LS from SA1 "Push Service Stage 1"	S1-010856	MMS
T2-010631	LS from SA1 "Multimedia Broadcast/Multicast Service (MBMS)"	S1-010876	CBS
T2-010633	LS from SA1 "Digital Rights Management"	S1-010877	MMS
T2-010634	LS to SA4 "MMS digital rights management"	T2 (T2-M010089)	MMS
T2-010635	LS from SA1 "stage 1 for Extended Streaming Service"	S1 (01) 837	MMS
T2-010638	LS from SA5 "re: MMS Charging"	S5-010422	MMS
T2-010642	LS from GSMA MSIG on MMS	GSMA MSIG	MMS
T2-010643	LS from SA1 chairman on MMS CR (T2-010340 postponed from T2#13)	SA1 chairman	MMS
T2-010651	Application and security framework	Ericsson	SWG3
T2-010653	Revised 757	Siemens	MMS
T2-010654	Liaison statement on requirements on Multimedia Broadcast/Multicast Service	GERAN	CBS
T2-010732	report of SWG3 at T2#14		SWG3
T2-010733	discussion paper: Support of optional 7 bit Latin alphabet extension tables in 03.38	Cesky Mobil	SMS
T2-010734	CR 23.040: Line Drawing as Extended Object in EMS	CWTS, ZTE, Eastcom, Xococo, TCL and Bijitec	EMS
T2-010735	Biji Line Drawing Messaging - White Paper	Bijitec	EMS

T2-010736	CR 23.140: Clarification of REL-4 MMS authentication	T2-SWG3#7 MMS ad hoc	MMS
T2-010737	CR 23.140: MMS address hiding	T2-SWG3#7 MMS ad hoc	MMS
T2-010738	CR 23.140: Detailed Notification	T2-SWG3#7 MMS ad hoc	MMS
T2-010739	Comments to T2-010733: Additional 7 bit Latin alphabet extension tables in 23.038	Motorola, Nokia, Siemens	SMS
T2-010740	CR to 23.140 R4 - Refinement of the reply-charging service behaviour description	Logica, Materna, Motorola, Siemens	MMS
T2-010741	CR to 23.140 R5 - New Figure 5	Siemens	MMS
T2-010742	withdrawn	withdrawn	withdrawn
T2-010743	3GPP MMS MM1 Mappings on IETF Messaging Protocols	Openwave	MMS
T2-010744	CR 23.140: MMS MM1 Technical Realisation Using Existing IETF Messaging Protocols	Openwave	MMS
T2-010745	persistent storage functionality	openwave	MMS
T2-010746	T2-010746 (3GPP MMS MSISDN Address Resolution v1.0)	Openwave	MMS
T2-010747	T2-010747 (MMS Protocol Stacks)	Openwave	MMS
T2-010748	CR 23.140: Priority field in notification message	Siemens	SWG3
T2-010749	withdrawn		withdrawn
T2-010750	CR 23.140 Rel-5: Editorial changes	Nokia	MMS
T2-010751	Agenda Seattle MMS meeting	Openwave	MMS
T2-010752	Report Seattle MMS meeting	Openwave	MMS
T2-010753	Transfer of the responsibility of MMS codecs&formats	Nokia	MMS
T2-010754	CR 23.140 REL-4: Correction to MMS MM4 interface	Nokia	MMS
T2-010755	Discussion on the registration of SMS and EMS MIME content types with IANA	Alcatel	EMS & MMS
T2-010756	Network based message storage	Nokia	MMS
T2-010758	Answers to T2-010739 and new proposal to TS 23.038	Cesky Mobil	SMS
T2-010759	CR 23.038: EMS support over CBS (T2-010502)	Swapcom	EMS
T2-010760	Hyperlink Information Element in EMS (T2-010491)	Swapcom	EMS
T2-010761	CR 23.040: Subaddressing Scheme for EMS (T2-010492)	Swapcom	EMS
T2-010762	CR 23.040: EMS PID	Motorola	EMS
T2-010763	CR 23.040: IE Classification	Motorola	EMS

T2-010764	CR 23.040: EMS Capability IE	Motorola	EMS
T2-010765	IP Based MM1 Proposal	Motorola	MMS
T2-010766	Discussion on EMS	Alcatel, Motorola	EMS
T2-010767	CR 23.040: IE capability	Alcatel, Motorola	EMS
T2-010768	MM1 IP Implementation Discussion	Motorola	MMS
T2-010769	withdrawn	withdrawn	Withdrawn
T2-010770	withdrawn	withdrawn	Withdrawn
T2-010771	withdrawn	withdrawn	withdrawn
T2-010772	Why EMS over CBS?	Swapcom	EMS
T2-010773	CR 23.140 Rel-4: Correction to MMS MM4 interface, delivery report	Nokia	MMS
T2-010774	requirement for a MMS API	BT Wireless	MMS
T2-010775	MMS Relay/Server VASP Connectivity Principles – Using PAP	Comverse	MMS
T2-010776	presentation IP based MMS	Comverse	MMS
T2-010777	withdrawn	withdrawn	withdrawn
T2-010778	withdrawn	withdrawn	withdrawn
T2-010779	Delivery reports to VASP	Comverse	MMS
T2-010780	possilbe protocols discussed for MM7	Materna	MMS
T2-010781	Vector graphics in EMS	Zoomon	EMS
T2-010782	Report Braunschweig	Openwave	MMS
T2-010783	Updated T2 SWG3 Agenda	Siemens	SWG3
T2-010784	T2M010095 CR 23.140 Revised T2M010086 - Clarifications and Editorial Changes	Openwave	MMS
T2-010785	EMS: Line Drawing Object presentation	Bijitec	EMS
T2-010786	LS in: Revised T2-010642 (MMS concerns)	GSMA-MSIG	MMS
T2-010787	VASP connectivity principles – revised 775	Comverse	MMS
T2-010788	VASP MM7 presentation – revised 777	Comverse	MMS
T2-010789	EMS: Line Drawing demo video	Bijitec	EMS
T2-010800	CR 23.040 REL-5: compression object definition	Magic4	EMS
T2-010801	Changes to 23.140 on MMS codecs	BT Wireless	MMS
T2-010802	Revised T2-010760 – Hyperlink in EMS	Swapcom	EMS
T2-010803	Revised 738	T2-SWG3#7 MMS ad hoc	MMS

T2-010804	Revised 755 – MIME type registration	Alcatel	EMS & MMS
T2-010805	Revised 754	Nokia	MMS
T2-010806	Revised 740	Logica, Materna, Motorola, Siemens	MMS
T2-010807	Revised 805	Nokia	MMS
T2-010808	CR to 23.140 R4 - Solution to the backwards compatibility problem with new and optional features in MMS	Siemens	MMS
T2-010809	LS to SA4 on status of DRM and up-streaming	Converse	MMS
T2-010810	LS to WAP Forum	Comverse	MMS
T2-010811	LS to WAP Forum on MMS authentication	Siemens	MMS
T2-010812	LS to SA5 on MMS charging	Siemens	MMS
T2-010813	LS to GSMA-MSIG and SA1	Siemens	MMS
T2-010814	LS to SA4 on MMS codecs specification	Nokia	MMS
T2-010815	Principles of MM3 Implementation	Comverse	MMS
T2-010816	Revised 750	Nokia	MMS
T2-010817	Revised 845	SWAPCOM / ALCATEL / ERICSSON	EMS
T2-010818	Revised 841	Motorola	EMS
T2-010819	Revised 843	Motorola	EMS
T2-010840	CR 23.038 Editorial and UCS2 preference	Cesky Mobil	EMS
T2-010841	EMS PID REL99	Motorola	EMS
T2-010842	EMS PID REL-4	Motorola	EMS
T2-010843	EMS PID REL-5	Motorola	EMS
T2-010844	Liaison Statement on SMS testing	Siemens	SMS
T2-010845	Revised Hyperlink Information element	SWAPCOM / ALCATEL / ERICSSON	EMS
T2-010846	EMS Delivery Request Indicator – revised 764	Motorola	EMS
T2-010847	Revised 846	Motorola	EMS
T2-010848	Revised 806	Logica, Materna, Motorola, Siemens	MMS
T2-010849	Revised 773	Nokia	MMS
T2-010850	Revised 784	Openwave	MMS

T2-010851	Revised 809	Comverse	MMS
T2-010852	Revised 810	Comverse	MMS
T2-010853	Not used	Not used	Not used
T2-010854	Not used	Not used	Not used

Annex G: Report from SA1/T2 SWG2 UE split meeting

T2-010826

Source: T2 SWG2 Chairman

ES Executive Summary

The Technical Report version1 was reviewed and various changes were agreed during this joint meeting. These changes are incorporated into T2-010821.

The addition of T2-010711 into an annex of this technical report was agreed by the meeting will be done by the rapportour before the next SA1 meeting.

1. Opening of the meeting

The Chairman opened the SWG2 part of the meeting at 08:00 in order for SWG2 delegates to have the chance to review some of the older documents for procedural reasons prior to the joint meeting with SA1.

2 UE Functionality Split SWG2.

Document – T2-010703

TDoc No.	Title	Source	Status
T2-010703	Current Status of UE Functionality Split Discussions	T2-SWG2 - T1 Liaison Coordinator (Sharp)	Noted

Presented by – Chairman.

This document presents a status update to T1 and is presented for information to SWG2.

Discussion –

Conclusion – (Noted, Approved, Action – new document number).

Document – T2-010589

TDoc No.	Title	Source	Status
T2-010589	Draft report for joint S1/S3/T2/T3 meeting about security implications of UE functional split 3 rd July 2001 - version 0.0.3	SA3 & MCC	Noted

Presented by – Chairman

Discussion –

Conclusion – (Noted, Approved, Action – new document number).

3. UE Functionality Split Joint Meeting.

The joint meeting with SA1 delegates started at 08:30.

Document – T2-010593

TDoc No.	Title	Source	Status
T2-010593	Security and UE functionality split.	SA3	Noted

Presented by – Chairman

Discussion –

Conclusion – (Noted, Approved, Action – new document number).

Document – T2-010616

TDoc No.	Title	Source	Status
T2-010616	LS about IMS access security and the UE split	SA3	Noted

Presented by – Chairman.

Discussion –

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010628

TDoc No.	Title	Source	Status
T2-010628	Liaison Statement on "GERAN Assumption on IMS"	SA1	Noted

Presented by – SA1 Chairman.

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Discussion –

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010650

TDoc No.	Title	Source	Status
T2-010650	Liaison Statement on "UE Split functionality"	GERAN	Noted

Presented by – Mr B Marchent.

Discussion –

This LS raised issues with header removal and it's impact on UE functionality split work. It also raised a possible issue with the delivery of speech to the codec.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010630

TDoc No.	Title	Source	Status
T2-010630	Liaison Statement on "IMS security and UE functionality split"	SA1	Noted

Presented by – SA1 Chairman.

Discussion –

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-10718

TDoc No.	Title	Source	Status
T2-010718	test" consequences of splitting the functionality of the UE over several physical devices.	T1	LS response from Chair in T2-010822

Presented by – Chairman.

Discussion –

The meeting Chairman will generate an LS in T2-010822.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010715

TDoc No.	Title	Source	Status
T2-010715	Requirements Report on UE Functionality Split;	SA1	Revised to T2-010821
T2-010821	Requirements Report on UE Functionality Split;		Agreed

Presented by – Mr Sanjay Gupta.

The changes to this report which were made after the joint meeting with SA3 were presented.

Discussion –

There was discussion on the security of the TE – MT link or lack of it.

It was proposed to move scenario 2 to appendix A.

It was proposed that this report is edited during the meeting and then presented to SA1 for they're comment and agreement.

The assumption b. on user control over the MT and the TE was moved to the requirements section.

The UICC must be part of the MT.

The use of the phrase UICC/USIM was questioned and will be amended by the Rappotour.

The technical report title was clarified to "Technical Report on UE Functionality Split".

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010711

TDoc No.	Title	Source	Status
T2-010711	Functional Distribution Scenarios For UE-Split (Existing Services)	Nortel & Sierra Wireless.	Noted

Presented by – Mr Iain Sharp.

It was proposed that the enclosed scenarios be added to the Technical Report as an annex.

Discussion –

This was agreed by the joint meeting, this incorporation will be done by the rapportour after the meeting.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010712

TDoc No.	Title	Source	Status
T2-010712	Functional Distribution Scenarios For UE-Split (IMS)	Nortel Networks	Noted.

Presented by – Mr Iain Sharp.

It was proposed that this document be included into the technical report.

Discussion –

The meeting agreed that this needed further work, but that it was useful input and should be progressed further. Interested parties should contact the document presenter if they wish to participate.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010704

TDoc No.	Title	Source	Status
T2-010704	Abstract Service Primitives for the R interface	Sierra Wireless & Nortel Networks	Noted

Presented by – Mr Nick Alfano.

This document is presented for inclusion into the technical report.

Discussion –

It was agreed that this document should not be added to the technical report. Delegates were asked to review this document with the intention on progressing this further at the next T2 meeting.

Conclusion – (Noted, Approved, Action – new document number),

Document – T2-010820

TDoc No.	Title	Source	Status
T2-010820	UE Functionality Split and Optimised Voice	NPS Andersen	Noted

Presented by – Mr Kevin Holley.

Discussion –

Conclusion – (Noted, Approved, Action – new document number),

6 Any Other Business

7 Close of the Meeting

With regards to the need for another joint meeting it was agreed that T2 SWG2 include a joint meeting on UE functionality split in their agenda for their next meeting in November.

The meeting was closed at 15:25

Annex A List of all temporary documents

TDOC	Subject	Source	Status
T2-010703	Current Status of UE Functionality Split Discussions	T2-SWG2 - T1 Liaison Coordinator (Sharp)	Noted
T2-010589	Draft report for joint S1/S3/T2/T3 meeting about security implications of UE functional split 3 rd July 2001 - version 0.0.3	SA3 & MCC	Noted
T2-010593	Security and UE functionality split.	SA3	Noted
T2-010616	LS about IMS access security and the UE split	SA3	Noted
T2-010628	Liaison Statement on "GERAN Assumption on IMS"	SA1	Noted
T2-010650	Liaison Statement on "UE Split functionality"	GERAN	Noted
T2-010630	Liaison Statement on "IMS security and UE functionality split"	SA1	Noted
T2-010718	test" consequences of splitting the functionality of the UE over several physical devices.	T1	LS response from Chair in T2-010822
T2-010715	Requirements Report on UE Functionality Split;	SA1	Revised to T2-010821
T2-010821	Requirements Report on UE Functionality Split;		Agreed
T2-010711	Functional Distribution Scenarios For UE-Split (Existing Services)	Nortel & Sierra Wireless.	Noted
T2-010712	Functional Distribution Scenarios For UE-Split (IMS)	Nortel Networks	Noted.
T2-010704	Abstract Service Primitives for the R interface	Sierra Wireless & Nortel Networks	Noted

T2-010821	Requirements Report on UE Functionality Split;		Agreed
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Annex B Outgoing Documents

Annex B1 Change Requests submitted to TSG-T2

The following CRs will be submitted to TSG-T2 for Approval:

TDOC	Subject
T2-010	

Annex B2 TS's and TR's submitted to TSG-T2

The following TSs/TRs will be submitted to TSG-T2 for Approval or Information:

TDOC	Subject
T2-010821	Requirements Report on UE Functionality Split;
T2-010	

Annex B3 Drafts of Liaison Statements submitted to TSG-T2

The following will be submitted to T2 for Approval:

TDOC	Subject
T2-010822	LS reply to GERAN

Annex B4 Other documents submitted to TSG-T2

The following other documents were agreed to be submitted for approval to TSG-T#12:

TDOC	Subject

Annex C List of Participants

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