

Source: T2 Secretary
Title: TSG-T2 Progress Report
Agenda item: 5.2.1
Document for: Information

Progress Report

TSG-T2 "Mobile Terminal Services and Capabilities"

1 Meetings held

T2 had one plenary meeting since TSG-T#10. The T2#12 meeting was held 12-16 February 2001 in Los Angeles, CA, USA kindly hosted by The American Friends of 3GPP. More than 100 delegates attended the meeting.

SWG3 (Messaging) had their MMS ad hoc #6 meeting on 8-12 January 2001 in Düsseldorf, Germany hosted by Mannesmann Mobilfunk.

2 T2 Organisation

T2 chairman:	Kevin HOLLEY (BT)
T2 vice-chairmen:	Peter NEUMANN (Siemens) Toshihiro SHIMIZU (Matsushita)
T2 secretary:	Friedhelm RODERMUND (ETSI MCC)
T2 SWG chairmen:	
SWG1 Mobile Execution Environment (MExE):	Mark CATALDO (Motorola)
SWG2 UE Capabilities and Interfaces:	Kazuya HASHIMOTO (NEC)
SWG3 Messaging:	Ian HARRIS (Vodafone)

The terms of office of the T2 chairman and the T2 vice-chairmen expire in March 2001. At the recent T2 meeting, a call for candidates for chairmen and vice-chairmen of T2 and SWG1, SWG2, SWG3 has been made. Elections will be held at the T2#13 meeting in May 2001.

3 Results and Issues

At the last meeting T2 has completed most of the work on Rel-4. Some more work is necessary on the work item "Continues evolution of Synchronization protocol" and a work item submission form is provided explaining why it is important to have this still in Rel-4. Work on Rel-5 has started. Two Rel-5 work item description sheets (WID) related to MExE are presented for approval to TSG-T.

2 R97, 2 R98, 4 R99 and 51 Rel-4 change requests are presented for approval. A proposal for revised Terms of Reference for T2 is presented for approval. TS 23.227 "Application and user interaction in the UE - principles and specific requirements" Version 1.0.0 is presented for approval. One LSs on ITU-T V.80 support for 3G terminals is copied to TSG-T.

T2 decided that none of their reports has to be part of the Rel-4 document set. Only TR 27.903 "Discussion of Synchronization Standards" will exist as a Rel-4 report because a Rel-4 CR is presented for approval.

Please find below a summary of the results of each sub working group (SWG) and a summary of other issues.

3.1 SWG1 Mobile Execution Environment

SWG1 Mobile Execution Environment has the responsibility for developing, approving and maintaining specifications for a terminal execution environment using wireless, fixed, and cordless access.

Work Item: MExE

The work on MExE Rel-4 has been completed. At this T meeting, one R99 and 37 Rel-4 change requests for MExE are presented for approval. Most of them are editorial. MExE Rel-4 includes the introduction of a third MExE classmark for a new small-footprint Java platform. Another enhancement are extensions of the existing MExE specifications to include SDR Forum proposal to support the downloading of core software. Support of the WAP UAProf user profile is included and further enhancements regarding MExE security have been achieved.

The MExE Rel-5 Improvements and Investigations WID is presented for approval. Major work is planned on the creation of a fourth MExE classmark for the ECMA "Common Language Infrastructure (CLI)" as proposed by Microsoft. Work is also planned on the VHE User Profile support. A second Rel-5 WID on MExE is presented for approval dealing with the Security Analysis.

Two additional SWG1 ad hoc meetings have been scheduled so far in 2001 (see meeting calendar for details) in addition to T2 meetings.

3.2 SWG2 UE Interfaces and Capabilities

SWG2 Terminal Interfaces is responsible for the development of specifications relating to terminal interfaces, terminal system aspects, terminal functionality allocation within subsystems, synchronisation of devices with internal and external datastores, development of AT commands for control of devices, terminal capability requirements, terminal regulatory aspects (except EMC and RF) and for multi-mode terminal aspects.

Work Item: Continues evolution of Synchronization protocol

T2 proposes to use SyncML as the 3GPP synchronisation mechanism from Rel-4 onwards. Appropriate CRs to TR 27.903 and TS 27.103 are presented for approval. Some work on this issue for TS 27.103 Rel-4 is still necessary until June 2001. A work item submission form is provided explaining why this work is asked for late inclusion into Rel-4.

Work Item: vObjects and other constructs for use in data synchronization

At TSG#10 T2 asked for comments on TS 27.104 "vObjects and Other Constructs for Use in Data Synchronisation". The specification is highlighting the types of data which need to be synchronised either locally or between UE and network application. T2 needs information from all groups on any data types required to be synchronised within the UE or between UE and Network. So far, no comments were received. The specification cannot be completed within the Rel-4 timeframe and therefore it is proposed to move the work item to Rel-5.

Work Item: AT commands

The current definitions for the return values of the +CGREG AT command are ambiguous and a unequivocal mapping to the corresponding GMM status is not possible. Since there is the risk of different MS implementations, corrective CRs to TS 27.007 are proposed for R97 onwards (CRs A86, A88, 51,59).

According to 02.60 there are four different GPRS MS Modes of Operation defined. The fifth mode "class C in GPRS and circuit switched alternate mode" given in the definition of the +CGCLASS AT command is not defined in the GPRS core specifications. As there is no GPRS MS Mode which corresponds to the class 'C' mentioned in the command +CGCLASS there is the risk of different implementations by the manufacturer. For this reason corrective CRs are proposed for R97 onwards (CRs A87, A89, 52, 60).

CRs 50 and 58 to TS 27.007 are adding the explicit subscribed value to the QoS AT command.

CR 54 to TS 27.007 updates the command +CPBS, that selects the memory storage used by other phonebook commands to be able to select the new phonebooks defined in the UICC/USIM.

CR 57 to TS 27.007 updates the phonebook AT commands, +CBBS,+CPBR, +CPBF and +CPBW, to access the hidden phonebook entries.

CR 56 to TS 27.007 updates the commands that access the Operator preferred list (+COPS and +CPOL) in order to access the 3 existing lists in the USIM and 4 in the SIM, and also to be able to access the Access Technology Identifiers. A new command has been defined, +CPLS, to select the list where the information is going to be written/read by the +COLP command.

Further CRs to TS 27.007 are on UICC/USIM and GSM references (CR 53 and 55).

No input has been received on a possible AT command for Bearer Modification without pre-notification.

Regarding AT commands for new services several outstanding issues have been identified but not much input was received. Companies are invited to provide further input to T2.

Work item: Alternatives to AT Commands

There were discussions at Oxford Workshop and follow-on but so far no substantial work in T2 has been done and no further input has been received since a while. The work item is proposed for deletion.

Work Item: Application and user interaction in the UE

TS 23.227 was renamed from "Terminal Local Model" to "Application and user interaction in the UE - Principles and specific requirements". This TS defines a reference model for the ME, and explains the interactions between the different peripherals (e.g. infrared, bluetooth, USIM, radio interface, MMI etc.). Revising of the document took place and it is proposed as version 1.0.0 for approval. Concerns from T3 have been noted regarding T3 related issues which need further elaboration before the document can be approved.

3.3 SWG3 Messaging

SWG3 Messaging has the responsibility for defining UMTS-specific messaging applications to allow non-real time multimedia messaging, a Short Message Service, and Cell Broadcast Services.

T2 had some discussion on a proposed IE to identify that a short message was copyrighted. T2 agreed not to present the proposed CR for approval because of potential legal implications. The document is placed on hold and will come up to the next T2 meeting for further discussion.

Work Item: Multimedia Messaging Service (MMS)

A huge baseline CR for Rel-4 is presented to this meeting for approval which completes the MMS work on Rel-4. Enhancements compared to R99 are that the interworking between MMSEs is described in detail, the addressing scheme is further elaborated, the functional description is enhanced with detailed service behavior description, support for streaming in MMS is added, forwarding of a Multimedia Message without prior retrieval is added, support for prepaid service in MMS is added, address hiding in MMS is supported, reply-charging for MMS is added.

Further refinements are likely to be needed in Rel-5.

Work Item: Global Text Telephony (GTT)

No input on the terminal aspects of GTT was received. This work item is for Rel-5.

Work Item: Technical Enhancements and Improvements (TEI)

CR 20 to TS 23.040 adds some predefined animations for EMS.

Work Item: Feature UICC/(U)SIM enhancements and interworking, Building Block Common PCN Handset Specification (CPHS)

CR 6 to TS 23.038 and CR 21 to 23.040 are on Message Waiting Indication Status storage on the USIM. The present definition of the receipt, storage and indication of the Message Waiting Indicator is unclear. This change request clarifies the definition and details that the message waiting indicator status shall be stored in EF Message Waiting Indication Status, when this file is present on the USIM.

3.4 Other Issues

3.4.1 Possible SMS/EMS enhancements

During the T2#11 meeting, T2 had been approached by a UK-based company called Magic4, who would like to have some codepoints assigned to them in the standard for SMS to enable a world-wide standard for "thin client" based content delivery to mobiles. The work on this has been postponed to a special Ad hoc which will be arranged by Magic4.

3.4.2 Wireless Communications Transfer Protocol (WCTP)

A presentation of the XML based Wireless Communications Transfer Protocol (WCTP) protocol being developed by the WCTP forum was given to T2. Synergy was identified between the work currently being undertaken in OSA and the already developed fully open, non-proprietary WCTP. An LS on this topic was sent to the appropriate groups.

3.4.3 ARIB MT-TA interface

T2 received a presentation on the ARIB MT-TA interface. The ARIB MT-TA interface defines the logical interface of the mobile station. The presentation highlights the interface between the Mobile Termination (MT) Function and the external Terminal Adaptation (TA) Function. An external TAF is presented as one way to support many services efficiently. IMT customer can use new services by just changing the external TAF. Third-party manufacturers can develop TAFs which provide several functions which will result in lower TAF cost due to competition between/among third parties.

3.4.4 External Fora

The MExE Forum is providing information about MExE on their web site (<http://www.mexeforum.org>). Information put on this web site is currently informally reviewed by T2 SWG1 before it is published. Some discussion took place within T2 if a formal relationship is necessary and possible. Since the t2 MEETING, the MExE Forum has asked the PCG how to handle this issue.

4 Status of deliverables under T2 responsibility

Spec	Title	Current Version
03.38	Alphabets and Language Specific Information for GSM	4.0.1
03.38	Alphabets and Language Specific Information for GSM	5.6.1
03.38	Alphabets and Language Specific Information for GSM	6.0.1
03.38	Alphabets and Language Specific Information for GSM	7.2.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	3.7.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	4.d.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	5.8.1
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	6.1.0
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	7.4.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	3.4.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	4.b.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	5.9.1
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	6.1.0
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	7.4.0
03.42	SMS Compression	5.2.0
03.42	SMS Compression	6.0.0
03.42	SMS Compression	7.1.1
03.43	Support of Videotex	3.0.1
03.43	Support of Videotex	4.1.2
03.43	Support of Videotex	5.0.0
03.43	Support of Videotex	6.0.0
03.43	Support of Videotex	7.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	3.0.1
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	4.0.1
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	5.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	6.0.0
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	7.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	4.4.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	5.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	6.0.0
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	7.0.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)	4.6.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)	5.7.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)	6.1.0
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)	7.0.0
03.57	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	7.2.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	4.8.1
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	5.5.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	6.0.0
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	7.0.1
07.07	AT Command set for GSM Mobile Equipment (ME)	4.4.1
07.07	AT Command set for GSM Mobile Equipment (ME)	5.9.1
07.07	AT Command set for GSM Mobile Equipment (ME)	6.4.0
07.07	AT Command set for GSM Mobile Equipment (ME)	7.5.0
07.08	GSM Application Programming Interface	5.2.1

07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	6.4.0
07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	7.1.0
21.810	Report on multi-mode UE issues; ongoing work and identified additional work	3.0.0
21.904	UE Capability Requirements (UCR)	3.3.0
21.910	Multi-mode UE issues; categories, principles and procedures	3.0.0
22.945	Study of provision of fax service in GSM and UMTS	3.0.0
23.038	Alphabets & Language	3.3.0
23.038	Alphabets & Language	4.1.0
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.2.0
23.040	Technical realisation of Short Message Service	3.5.0
23.040	Technical realisation of Short Message Service	4.1.0
23.041	Technical Realization of Cell Broadcast Service	3.3.0
23.042	Compression algorithm for SMS	3.1.0
23.057	Mobile Station Application Execution Environment (MExE)	3.3.0
23.057	Mobile Station Application Execution Environment (MExE)	4.0.0
23.140	Multimedia Messaging Service (MMS)	3.0.1
23.140	Multimedia Messaging Service (MMS)	4.1.0
23.227	Application and user interaction in the UE - principles and specific requirements	1.0.0
27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	3.1.0
27.007	AT command set for 3G User Equipment (UE)	3.7.0
27.007	AT command set for 3G User Equipment (UE)	4.0.0
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0
27.103	Wide Area Network Synchronisation	3.1.0
27.104	vObjects and other constructs for data synchronization	0.1.1
27.226	Global Text telephony; Terminal aspects	none
27.901	Report on Terminal Interfaces - An Overview	3.0.0
27.903	Discussion of Synchronisation Standards	3.0.0
34.907	Report on electrical safety requirements and regulations	3.0.0
34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0

5 TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2 SWG1 MExE	27-29 Mar 2001	Whistler, Canada	Microsoft
T2#13	14-8 May 2001	Pusan, Korea	Samsung
T2 SWG1 MExE	24-26 July 2001	Greece ?	identified ?
T2#14	3-7 Sep 2001	Edinburgh, UK	BT + ?
T2 SWG1 MExE	9-11 October 2001	no host	no host
T2#15	12-16 Nov 2001	no host	no host
T2#16	11-15 Feb 2002	no host	no host
T2#17	13-17 May 2002	no host	no host
T2#18	19-23 Aug 2002	no host	no host
T2#19	18-22 Nov 2002	no host	no host

Companies are invited to consider hosting future T2 meetings.

6 List of Tdocs submitted to TSG-T#11

Tdoc	Agenda item	Title	Source
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TP-010014	5.2.1	LS to SA4 cc T on ITU-T V.80 support for 3G terminals	T2 (T2-010280)
TP-010025	5.2.1	T2 progress report	T2 secretary
TP-010026	5.2.1	T2 progress report (presentation slides)	T2 chairman
TP-010027	5.2.3	MExE Change Requests for approval	T2
TP-010028	5.2.3	Terminal Interfaces and Capabilities Change Requests for approval	T2
TP-010029	5.2.3	Messaging Change Requests for approval	T2
TP-010030	5.2.3	TS 23.227 "Application and user interaction in the UE - principles and specific requirements" Version 1.0.0 for approval	T2
TP-010031	5.2.3	WID MExE Rel-5 Improvements and Investigations for approval	T2 (T2-010221)
TP-010032	5.2.3	WID MExE Security Analysis Rel-5 for approval	T2 (T2-010296)
TP-010033	5.2.3	Proposed revised Terms of Reference for T2 for approval	T2 (T2-010293)
TP-010034	5.2.3	Work Item Submission Form: Continuous Evolution of Synchronisation Protocol for approval	T2 (T2-010288)

7 Change Requests submitted to TSG-T#11

7.1 MExE Change Requests

Change requests related to MExE can be found in **TP-010027**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.057	041		R99	CCM update with new administrator signed package	F	3.3.0	3.4.0	T2-010230	MEXE-ENHANC
23.057	042		rel-4	TS11.11 reference updates	D	4.0.0	4.1.0	T2-010044	MEXE-ENHANC
23.057	043		rel-4	Abbreviations	D	4.0.0	4.1.0	T2-010050	MEXE-ENHANC
23.057	044		rel-4	CCPP web site in reference	D	4.0.0	4.1.0	T2-010051	MEXE-ENHANC
23.057	045		rel-4	Capability and Content editorials	D	4.0.0	4.1.0	T2-010053	MEXE-ENHANC
23.057	046		rel-4	High level architecture editorial	D	4.0.0	4.1.0	T2-010056	MEXE-ENHANC
23.057	047		rel-4	Java application signature verification editorials	D	4.0.0	4.1.0	T2-010057	MEXE-ENHANC
23.057	048		rel-4	QoS editorials	D	4.0.0	4.1.0	T2-010059	MEXE-ENHANC
23.057	049		rel-4	RFC references correction	D	4.0.0	4.1.0	T2-010060	MEXE-ENHANC
23.057	050		rel-4	Root public keys correction	D	4.0.0	4.1.0	T2-010061	MEXE-ENHANC
23.057	051		rel-4	Support of user profile editorials	D	4.0.0	4.1.0	T2-010062	MEXE-ENHANC
23.057	052		rel-4	Transfer of capability negotiation editorials	D	4.0.0	4.1.0	T2-010063	MEXE-ENHANC
23.057	053		rel-4	User control of application connection editorials	D	4.0.0	4.1.0	T2-010065	MEXE-ENHANC
23.057	054		rel-4	User profile editorials	D	4.0.0	4.1.0	T2-010066	MEXE-ENHANC
23.057	055		rel-4	X.509 version 3 editorials	D	4.0.0	4.1.0	T2-010067	MEXE-ENHANC
23.057	056		rel-4	WAP reference correction	D	4.0.0	4.1.0	T2-010075	MEXE-ENHANC
23.057	057		rel-4	WAP compliance	C	4.0.0	4.1.0	T2-010076	MEXE-ENHANC
23.057	058		rel-4	Conformance requirements table update	D	4.0.0	4.1.0	T2-010083	MEXE-ENHANC
23.057	059		rel-4	Correction to the definition of MIDP application	D	4.0.0	4.1.0	T2-010084	MEXE-ENHANC
23.057	060		rel-4	Abbreviations	D	4.0.0	4.1.0	T2-010088	MEXE-ENHANC
23.057	061		rel-4	Trust hierarchy figure correction	D	4.0.0	4.1.0	T2-010172	MEXE-ENHANC

23.057	062		rel-4	Definition of the Untrusted Area	D	4.0.0	4.1.0	T2-010176	MEXE-ENHANC
23.057	063		rel-4	Generic security editorials	D	4.0.0	4.1.0	T2-010203	MEXE-ENHANC
23.057	064		rel-4	CCM update with new administrator signed package	F	4.0.0	4.1.0	T2-010204	MEXE-ENHANC
23.057	065		rel-4	Executable pre-launch signature verification	F	4.0.0	4.1.0	T2-010206	MEXE-SEC
23.057	066	1	rel-4	Clarification of ORPK and ARPK support on MEXE MT	F	4.0.0	4.1.0	T2-010231	MEXE-ENHANC
23.057	067		rel-4	Untrusted executable permission to access the network	D	4.0.0	4.1.0	T2-010209	MEXE-ENHANC
23.057	068		rel-4	Capability negotiation updates	C	4.0.0	4.1.0	T2-010210	MEXE-ENHANC
23.057	069		rel-4	Correction to capability negotiation methods	C	4.0.0	4.1.0	T2-010211	MEXE-ENHANC
23.057	070		rel-4	WAP WTA	C	4.0.0	4.1.0	T2-010212	MEXE-ENHANC
23.057	071		rel-4	3GPP Document References update	D	4.0.0	4.1.0	T2-010213	MEXE-ENHANC
23.057	072		rel-4	Annex A corrections	D	4.0.0	4.1.0	T2-010214	MEXE-ENHANC
23.057	073		rel-4	Miscellaneous editorial corrections	D	4.0.0	4.1.0	T2-010215	MEXE-ENHANC
23.057	074		rel-4	Definition of an Operator	D	4.0.0	4.1.0	T2-010216	MEXE-ENHANC
23.057	075		rel-4	Mobile Execution Environment	F	4.0.0	4.1.0	T2-010217	MEXE-ENHANC
23.057	076		rel-4	Capability negotiation editorials	D	4.0.0	4.1.0	T2-010218	MEXE-ENHANC
23.057	077		rel-4	Sharing of Transmissions between untrusted executables	F	4.0.0	4.1.0	T2-010225	MEXE-ENHANC
23.057	078		rel-4	Core software download	D	4.0.0	4.1.0	T2-010226	MEXE-ENHANC

7.2 Terminal Interfaces Change Requests

Change requests related to Terminal Interfaces can be found in **TP-010028**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
07.07	A086		R97	Corresponding GMM states for +CGREG command	F	6.4.0	6.5.0	T2-010101	TEI
07.07	A087		R97	Definition of "class C in GPRS and circuit switched alternate mode"	F	6.4.0	6.5.0	T2-010107	TEI
07.07	A088		R98	Corresponding GMM states for +CGREG command	A	7.5.0	7.6.0	T2-010114	TEI
07.07	A089		R98	Definition of "class C in GPRS and circuit switched alternate mode"	A	7.5.0	7.6.0	T2-010117	TEI
27.903	001		rel-4	Addition of SyncML	B	3.0.0	4.0.0	T2-010104	TI-SYNC-EVOL
27.103	002		rel-4	Addition of SyncML	B	3.1.0	4.0.0	T2-010300	TI-SYNC-EVOL
27.007	050		R99	Addition of explicit subscribed value to QoS command	F	3.7.0	3.8.0	T2-010108	TEI
27.007	051		R99	Corresponding GMM states for +CGREG command	A	3.7.0	3.8.0	T2-010115	TEI
27.007	052		R99	Definition of "class C in GPRS and circuit switched alternate mode"	A	3.7.0	3.8.0	T2-010118	TEI
27.007	053		rel-4	Clarification of the specification to incorporate UICC/USIM references	A	4.0.0	4.1.0	T2-010095	TI-ATC
27.007	054		rel-4	Update the AT command, +CPBS, that select the phonebooks in the SIM/UICC	F	4.0.0	4.1.0	T2-010097	TI-ATC
27.007	055		rel-4	Correction of GSM references	F	4.0.0	4.1.0	T2-010099	TI-ATC
27.007	056		rel-4	Update the AT commands that access the PLMN preferred list in the SIM/UICC	F	4.0.0	4.1.0	T2-010105	TI-ATC
27.007	057		rel-4	Update of phonebook AT commands, +CBBS,+CPBR, +CPBF and +CPBW, to access the hidden phonebook entries	F	4.0.0	4.1.0	T2-010106	TI-ATC
27.007	058		rel-4	Addition of explicit subscribed value to QoS command	A	4.0.0	4.1.0	T2-010109	TI-ATC

27.007	059		rel-4	Corresponding GMM states for +CGREG command	A	4.0.0	4.1.0	T2-010116	TI-ATC
27.007	060		rel-4	Definition of "class C in GPRS and circuit switched alternate mode"	A	4.0.0	4.1.0	T2-010119	TI-ATC

7.3 Messaging Change Requests

Change requests related to Messaging can be found in **TP-010029**.

Spec	CR	Rev	Rel	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.038	006		rel-4	Message Waiting Indication Status storage on the USIM	C	4.1.0	4.2.0	T2-010277	UICC1-CPHS
23.040	020		rel-4	Predefined animations for EMS	C	4.1.0	4.2.0	T2-010273	TEI4
23.040	021		rel-4	Message Waiting Indication Status storage on the USIM	C	4.1.0	4.2.0	T2-010279	UICC1-CPHS
23.140	003		rel-4	High-level description of MMS - part II	B	4.1.0	4.2.0	T2-010264	MMS

8 Liaison Statements sent from T2#12

The following LSs have been sent from T2#12:

TDOC	Subject
T2-010110	LS reply to S2 cc T1, R2, R3, S4 on Definition of bearer service end-point to budget transfer delay within UE
T2-010113	LS to SA2 cc SA1 on IM subsystem tones and announcements
T2-010276	LS to T3 on short message for SIM data download
T2-010280	LS to S4 cc T on ITU-T V.80 support for 3G terminals
T2-010283	LS reply to IrDA concerning an extension to IrOBEX
T2-010284	LS reply to the WAP Forum cc T3 Concerning Standardised Methods of Identifying 'Bookmarks'
T2-010295	LS to SA1,SA2, CN5 cc SA3 on WTCP Protocol (revised T2-010294)
T2-010297	LS to S3 on MExE Security Analysis Activity (revised T2-010223)

Additionally, LSs have been sent from the SWG3 ad hoc after T2 e-approval.

9 Decisions requested from TSG-T#11

T2 kindly requests the following decisions from TSG-T#10:

- Approval of "MExE" CRs in **TP-010027**
- Approval of "Terminal Interfaces and Capabilities" CRs in **TP-010028**
- Approval of "Messaging" CRs in **TP-010029**
- Approval of proposed revised Terms of Reference for T2 in **TP-010033**
- Approval of TS 23.227 "Application and user interaction in the UE - principles and specific requirements" Version 1.0.0 in **TP-010030**
- Approval of WID MExE Rel-5 Improvements and Investigations in **TP-010031**
- Approval of WID MExE Security Analysis Rel-5 in **TP-010032**
- Approval of Rel-4 extension request for Continuous Evolution of Synchronisation Protocol in **TP-010034**

