3GPP TSG-T#8
Düsseldorf, Germany, 21-23 June 2000

Tdoc TP-000071

Source: **T2 Secretary**

Title: **TSG-T2 Progress Report**

Agenda item: **6.2.1**

Document for: **Information**

Progress Report

TSG-T2 "Mobile Terminal Services and Capabilities"

---

1 Summary

1.1 Meetings held

T2 has held one plenary meeting since TSG-T#7, jointly with SMG4. The meeting was held 15-19 May 2000 in Utrecht, Netherlands hosted by CMG.

SWG1 (MExE) has held a meeting 28-29 March 2000 in London, UK hosted by Motorola.

SWG3 (Messaging) had an MMS ad hoc meeting on 11-13 April to define the MMS work scope for R00. It was hosted by Comverse in Tel Aviv, Israel.

1.2 T2 Restructuring

So far, T2 had 6 sub-working groups (SWGs) progressing the work in specific areas. Because the amount of work in SWG5 “Multimode Terminals “ and SWG6 “Terminal Features and Performance” has decreased, T2 decided at their last meeting that both SWGs will be merged with SWG2. This means that T2 consists now of the following three SWGs:

SWG1 MExE

SWG2 UE Capabilities and Interfaces

SWG3 Messaging

1.3 Transfer of SMG4 Specifications

SMG#32 agreed to move the ownership of the following specifications to T2:

GSM 03.43	Support of Videotex
GSM 03.44	Support of Teletex
GSM 03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)
GSM 03.49	Example Protocol Stacks for Interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)
GSM 07.08	GSM Application Programming Interface

These documents were proposed to be freezed which means that no R99 or later version will be created.

1.4 Results

24 R99 and 2 R00 change requests are presented to TSG-T for approval. Two technical reports are presented to TSG-T for approval. T2 asks for approval of 4 work items for R00.

During the last meeting the old T2 structure was still valid. Please find below a short summary of the results of each SWG:

1.3.1 SWG1 Execution Environment

SWG1 Execution Environment (Chairman: Mark Cataldo, Motorola) has the responsibility for developing and maintaining specifications for a terminal execution environment using wireless, fixed, and cordless access.

The MExE group is continuing their work for MExE Release 2000. A work item description sheet has been created and will be presented to this meeting in TP-000077. MExE is based on the concept of identifying external standards suitable for supporting services from an UE, and bringing them into the 3GPP scope by direct reference. Recent developments in the support of a new small-footprint Java platform, and co-operation with the SDR Forum requires extension of the existing MExE specifications to update and incorporate these latest developments. Further detailed work is also required to define the support of the user profile and other areas.

Several corrections to MExE R99 were agreed.

Two SWG1 ad hoc meetings are scheduled (see meeting calendar for details).

1.3.2 SWG2 Terminal Interfaces

SWG2 Terminal Interfaces (Chairman: Lars Novak, Ericsson) is responsible for the development of specifications relating to external interfaces to terminals, synchronisation issues and for the development of AT commands.

Lars Novak chaired his last meeting as SWG2 chairman and T2 thanked him for his work. A new chairman and vice-chairmen are currently being appointed.

5 CRs related to ASCI AT commands were agreed by T2. However, during the T2 meeting some CRs were rejected because of problems identified. These CRs will be submitted to the next meeting.

Additional CRs to TS 27.007 on new AT commands and AT command corrections were agreed.

A first draft of a specification on “Terminal Local Model“ was discussed. 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.). A WID is proposed for approval to this TSG-T meeting in TP-000080.

The request for data synchronisation support for the VHE MExE User Profile extensions brings up the long term need to define standards for and manage the process of adding new vObject’s and Other Constructs as data store types for use in data synchronisation activities. Therefore, a work item on this subject is proposed in TP-000079.

Some discussion was started on documenting/harmonising proprietary features, with no consensus as yet and some strong objections from Nokia. More discussions are expected at the next meeting.

A policy statement on standardising connectors has been received from GSMA stating that the EC recommends a standardisation of connectors of mobile phones. T2’s view is that the conclusion made last year not to standardise any connector within the 3GPP should be kept.

1.3.3 SWG3 Messaging

SWG3 Messaging (Chairman: Ian Harris, Vodafone - Airtouch) has the responsibility for defining UMTS-specific messaging applications to allow non-real time multimedia messaging, a Short Message Service, and Cell Broadcast Services.

During the last T2 meeting, Nokia presented a CR to TS 23.040 proposing major changes to the scheme for Enhanced Messaging Service (EMS), as approved at TSG-T#7 noting the requirement for more discussions in T2. After the debate, Nokia summarised their continuing concerns with the existing specifications, but concluded however that the previously agreed EMS specification for release 99 should not be disrupted at this late stage. The CR was therefore withdrawn.

Progress was made on MMS. The WID for MMS R00 is being presented to this meeting for approval in TP-000078. It was agreed to include instant messaging into the WID. There are naming and addressing issues which need to be flagged to SA. A CR to MMS stage 1 for alignment with stage 2 was forwarded to S1 for approval. The SWG3 MMS group has identified the need for a MIME type registration process within 3GPP. This is currently under discussion in T2 and there is also some communication with other groups regarding this topic.

One CR to TS 23.038 for R00 is presented for approval. The CR introduces new functionality which allows to automatically delete a SMS after reading if the SMS originator has set this option.

One CR to TS 23.040 for R00 is presented for approval. The CR adds a numbering plan value for Service Centre Specific Addresses.

It is proposed that T2 is responsible for the terminal aspects of Global Text Telephony including alignment with Messaging Services, and produces the TS 27.226 Global Text Telephony, terminal aspects. T2 will commence the work as soon SA approves the work item.

1.3.4 SWG4 Services End to End Interworking

SWG4 Services End to End Interworking (no chairman) has the responsibility for the review of end to end services.

At the recent T2 meeting it was decided to close this group.

1.3.5 SWG5 Multimode Terminals

SWG5 Multimode Terminals (Chairman: Sofi Persson, Telia) considers other systems and their multi-mode coexistence with UMTS from a terminal and service point of view. SWG5 is collecting and referring to work already done on multi-mode terminals and from that identify issues that need additional treatment to make usage of multi-mode terminals efficient.

TR 21.910"Report on multi-mode UE issues" was not approved at TSG-T#7 and it was decided to make the report a 3GPP internal report by moving it into the 800-series and that further changes to the TR had to be done by the rapporteur and the objecting companies. The rapporteur redrafted the TR on the basis of the received comments.

Because of this major redrafting, T2 proposes to move the core report back into the 900 series, and leave the annex within the 800-series as a separate document. Therefore, 3G TR 21.810 “Report on multi-mode UE issues - Ongoing work and identified additional work” and 3G TR 21.910 “Report on multi-mode UE issues - Categories, principles and procedures” are presented for approval.

An LS was sent asking SA1, SA2, and SMG2 for guidance on future work on multimode terminals.

1.3.6 SWG6 Terminal Features and Performance

SWG6 Terminal Features and Performance (Chairman: Kazuya Hashimoto, NEC) covers aspects as terminal safety and environmental requirements. In addition, SWG6 works on general features, reviewing all terminal features and identifying a minimum set of features required to support a given application.

TR 21.904 was considered as being useful to gather information on terminal capabilities. Maintenance of R99 of TR 21.904 is desired by TSG-T1 for updating their TS 34.123-2 “Mobile Station (MS) Conformance Specification, Part 2 - ICS Implementation Conformance Statement”. It was agreed that R99 of TR 21.904 should be maintained at least up to the T2 meeting in November 2000. Modifications added to R99 core specification should be reflected in TR 21.904. T2 may stop maintaining the document after the T2 November meeting, and a final decision will be made at that time.

T2 decided not to create a R00 version of TR 21.904 for the time being, because the original intention to identify minimum sets of UE requirements has been addressed by R2 in their TR 25.926 “UE Radio Access Capabilities”.

2 Status of deliverables under T2 responsibility

Number	Title	Version
03.38	Alphabets and Language Specific Information for GSM	4.0.1 5.6.1 6.0.1 7.2.0
03.39	Digital Cellular Telecommunications System (Phase 2) Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	4.0.0 5.0.0 6.0.0 7.0.0
03.40	Technical Realization of the Short Message Service (SMS)	4.d.0 5.8.1 6.1.0 7.4.0
03.41	Technical Realization of Cell Broadcast Service(CBS)	4.b.0 5.9.1 6.1.0 7.3.0
03.42	SMS Compression	5.2.0 6.0.0 7.1.1
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 5.5.0 6.0.0 7.0.1
07.07	Digital cellular telecommunications System (Phase 2) AT Command set for GSM Mobile Equipment (ME)	4.4.1 5.9.1 6.4.0 7.5.0
07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	6.4.0 7.1.0
21.810	Multi-mode UE issues - Ongoing work and identified additional work	2.2.0
21.904	UE Capability Requirements (UCR)	3.0.1
21.910	Multi-mode UE issues - Categories, principles and procedures	2.1.0
22.945	Study of provision of fax service in GSM and UMTS	3.0.0
23.038	Alphabets & Language	3.3.0
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.1.0
23.040	Technical realization of Short Message Service	3.4.1
23.041	Technical Realization of Cell Broadcast Service	3.2.0
23.042	Compression algorithm for SMS	3.1.0
23.057	Mobile Station Application Execution Environment (MExE)	3.1.1
23.140	Multimedia Messaging Service (MMS)	3.0.1
23.227	Terminal local model	0.0.0
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)	3.4.0
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0
27.103	Wide Area Network Synchronisation	3.0.0
27.226	Global Text telephony;Terminal aspects	0.0.0
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

3 TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2 SWG1 MExE	27 – 29 June 2000	Tokio	NTT DoCoMo
T2 SWG3 MMS ad hoc	7 – 9 Aug 2000	Sophia Antipolis	Nokia
T2#10	28 Aug - 01 Sep 2000	Galway,Ireland	Logica
T2 SWG1 MExE	26 – 28 Sep 2000	Finland	Nokia
T2#11	27 Nov - 1 Dec 2000	Japan	Panasonic
T2#12	29 Jan – 2 Feb 2001	no host	no host
T2#13	14 – 18 May 2001	no host	no host
T2#14	3 - 7 Sep 2001	no host	no host
T2#15	12 – 16 Nov 2001	no host	no host

4 List of Tdocs submitted to TSG-T#8

Tdoc	Agenda item	Title	Source
TP-000071	6.2.1	T2 Progress Report	T2 secretary
TP-000072	6.2.1	Presentation slides of T2 status	T2 chairman
TP-000073	6.2.3	R99 Change Requests **for approval**	MCC
TP-000074	6.2.3	R00 Change Requests **for approval**	T2
TP-000075	6.2.3	3G TR 21.810 v2.2.0 Report on multi-mode UE issues - Ongoing work and identified additional work **for approval**	T2
TP-000076	6.2.3	3G TR 21.910 v2.1.0 Report on multi-mode UE issues - Categories, principles and procedures **for approval**	T2
TP-000077	6.2.4	WID MExE R00	T2
TP-000078	6.2.4	WID MMS R00	T2
TP-000079	6.2.4	WID 3GPP vObjects R00	T2
TP-000080	6.2.4	WID Terminal Local Model R00	T2
TP-000081	6.2.1	LS to GSMA cc SA, T on Short Message Service Centre Implementation	T2

5 Change Requests submitted to TSG-T#8

5.1 R99 Change Requests

The R99 change requests can be found in **TP-000073**.

Spec	CR	Rev	Phase	Subject	Cat	Vers-Curr	Vers-New	T2-Tdoc	Work item
21.904	001		R99	Addition of reference measurement channel	F	3.0.1	3.1.0	T2-000270	UCR
21.904	002		R99	Correction of terminology	F	3.0.1	3.1.0	T2-000269	UCR
21.904	003		R99	Deletion of PCPCH/AICH timing relation	F	3.0.1	3.1.0	T2-000340	UCR
21.904	004		R99	Reflection of changes in core specification 24.008 to v3.3.1	F	3.0.1	3.1.0	T2-000268	UCR

21.904	005		R99	Reflection of document structure changes in core specifications and correction of editorial mistakes	F	3.0.1	3.1.0	T2-000267	UCR
23.040	012		R99	Alignment in Enhanced Messaging Service	F	3.4.0	3.5.0	T2-000319	EMS
23.040	014		R99	Correction to text on SMS TimeZone	F	3.4.0	3.5.0	T2-000311	TEI
23.040	015		R99	Correction of TP-PID	F	3.4.0	3.5.0	T2-000347	TEI
23.057	003		R99	Addition of phonebook entry and addition/modification of user data update for untrusted applications	F	3.1.1	3.2.0	T2-000307	MExE
23.057	004		R99	Editorial clarifications	F	3.1.1	3.2.0	T2-000298	MExE
23.057	005		R99	ME actions on SIM insertion and/or power up	F	3.1.1	3.2.0	T2-000304	MExE
23.057	006		R99	Client/Server 'negotiation'	F	3.1.1	3.2.0	T2-000295	MExE
23.057	007		R99	Third Party Root Public Key	F	3.1.1	3.2.0	T2-000296	MExE
23.057	008		R99	Third Party root public keys management	F	3.1.1	3.2.0	T2-000291	MExE
23.057	009		R99	User permission types (visual indication)	F	3.1.1	3.2.0	T2-000300	MExE
27.007	033		R99	+CSDF and +CCLK (4 digits for year field)	B	3.4.0	3.5.0	T2-000217	TEI
27.007	034		R99	APN presentation	F	3.4.0	3.5.0	T2-000337	TEI
27.007	035		R99	+CAJOIN also serves to join an ongoing group or a broadcast call	F	3.4.0	3.5.0	T2-000271	ASCI
27.007	036		R99	+CAULEV, the uplink status presentation in a Voice Group Call	F	3.4.0	3.5.0	T2-000287	ASCI
27.007	037		R99	CME ERROR extensions for ASCI Commands	F	3.4.0	3.5.0	T2-000286	ASCI
27.007	038		R99	Correction of the description of the +CRC	F	3.4.0	3.5.0	T2-000280	ASCI
27.007	039		R99	Definition of the abbreviation of MT	F	3.4.0	3.5.0	T2-000234	ASCI
27.007	040		R99	Packet Domain QoS AT-commands	F	3.4.0	3.5.0	T2-000330	TEI
27.103	001		R99	Introduction of push and target	F	3.0.0	3.1.0	T2-000351	SYNC

5.2 R00 Change Requests

The R00 change requests can be found in **TP-000074**.

Spec	CR	Rev	Phase	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Work item
23.038	004		R00	Automatic removal of ‘read’ SMS	B	3.3.0	4.0.0	T2-000318	TEI
23.040	013		R00	Addition of numbering plan value for Service Centre Specific Addresses	B	3.4.0	4.0.0	T2-000310	TEI