Source:	**T2 Secretary**
Title:	**TSG-T2 Progress Report**
Agenda item:	**7.1**
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Progress Report

TSG-T2 "Mobile Terminal Services and Capabilities"

1. Progress Report

TSG-T2 had two meetings since T#2. T2#2 was a joint meeting with SMG4 held 15-19 March 1999 in London hosted by Nortel Networks. T2#3 was held 19-21 April 1999 in Yokohama hosted by NEC.

The work was progressed according to the T2 work program which was presented to T#2 in Fort Lauderdale. Please find below a short summary for each sub working group:

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

Good progress was made on MExE R98 which is planned to be finalised for SMG#29. The latest version of MExE stage 2 GSM 03.57 v1.7.0 is available to T#3 for information. This specification will form the basis for stage 2 of the 3GPP work item MExE R99. A LS was send to S1 for initiating the start of the work on stage 1 of MExE R99.

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

A document structure for terminal interfaces was developed consisting of the five documents: Scope, Physical Interface, AT commands, Alternatives to AT commands, Synchronisation and object exchange. There is an ongoing discussion on the need for a standardised physical connector. The AT commands for 3GPP will be based on the existing AT commands for a GSM terminal. Therefore, the related specifications GSM 07.05, 07.07, 07.10 are made available for information to TSG-T#3.

SWG3 Messaging (Chairman: Arthur Gidlow, One2One) has the responsibility for defining UMTS-specific messaging applications to allow non-real time multimedia messaging, a Short Message Service, and Cell Broadcast Services.

SWG3 developed working assumptions for 3G SMS, for a messaging framework, and for a Multimedia Messaging Service. For SMS it was agreed that 03.40 as currently defined should be supported. An enhanced messaging service would be defined as part of the Multi Media Messaging Service. A stage 1 for the multimedia messaging description is urgently required. GSM 03.40, 03.38, 03.39, 03.42 are made available for information since they can form the basis for a first draft of an 3G SMS service.

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

T2 proposes to delete the WI "services end to end interworking (review end-to-end services) and the WI "Services end to end Interworking (SAT/MExE/CAMEL scenarios for VHE). It was agreed to transfer the work on services over IP to the messaging group (SWG3) with the initial task to consider FAX over IP. SWG4 will meet on an ad hoc basis as the need arises. The study on provision of FAX in GSM and UMTS 22.45 developed by SMG4 is presented to T#3 for information.

SWG5 Multi-mode Terminals (Chairman: Sofi Persson, Telia) will consider other systems and their multi-mode coexistence with UMTS from a terminal and service point of view.

SWG5 is currently 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. It is proposed to merge the to work items on Multi-mode Terminals into on work item named "Multi-mode Issues".

SWG6 Terminal Features and Performance (Chairman: Kiyohito Nagata, DoCoMo) covers aspects as terminal safety and environmental requirements. In addition, SWG6 will work on general features, reviewing all terminal features and identifying a minimum set of features required to support a given application.

It is proposed to delete the work item Terminal Features and Performance (environment & reliability requirements) because work in that area has been started by RAN4. The work item "Safety Requirements" should be split into a work item for "SAR requirements" and "Electrical Safety requirements". A report on SAR (specific absorption rate) requirements has already been created and is presented to T#3 for information. A first draft of electrical safety requirements is under development. Concerning the work on terminal capabilities, SWG5 has received many responses on their request sent to all WGs. However, several open issues are currently being clarified in discussion with the relevant WGs.

2. Electronic Working

The 3GPP terms of reference say that we should make best possible use of electronic working methods. T2/SMG4 had meeting networks available at their recent four meetings. At the last meeting no paper copies at all were made (thanks to an excellent meeting network installed by NEC).

The use of a meeting network has beside the saving of paper and photocopying costs several more significant benefits: Document distribution goes much quicker. Delays in discussing certain documents are avoided since it's not necessary to wait for the paper copies. Revised documents are available very quick. Delegates don't have to collect piles of paper but can access the documents easily at the server. This all has a good effect on the progress of a meeting.

3. TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
SWG1	26-28 May	Boeblingen, Germany	IBM
SMG4 / T2#4	14-16 June 99	Miami	
T#4	17-18 June 99	Miami	
SMG4 / T2#5	(6-10 Sept 99)	(Finland)	
T2##6	4-6 Oct 99	Korea	
T#4	7-8 Oct 99	Korea	
T2#7	(15-19 Nov)		
T#5	13-17 Dec		

( ) = to be confirmed

4. List of Tdocs submitted to TSG-T#3

Tdoc (99)	Agenda item	Title	Source
091		T2 Progress Report	T2 secretary
092		T2 Progress Report (slides)	T2 chairman
093		Report on SAR requirements (T2-99383)	T2
094		LS from T2 to all TSGs on on Support of SMS (T2-99424)	T2
095		22.45 Study on provision of Fax in GSM and UMTS (T2-99194)	T2/SMG4

Furthermore, the following documents are T2 input to the April Draft Specifications. Because of their size these documents are not copied for the meeting but can be made available on request:

On SMS: GSM 03.40, GSM 03.38, GSM 03.42, GSM 03.39
On Terminal Interfaces: GSM 07.05, GSM 07.07, GSM 07.10
On MEXE: GSM 03.57