Agenda Item:	4.1
Source:	Dr Sang-Keun PARK (Samsung), TSG-Terminal Chairman
Title:	Report from TSG-T to TSG-SA (PowerPoint slides in SP-99170)
Document for:	Information

WG T1 Mobile Terminal Conformance Testing

Bjarke NIELSEN (SONY) was elected Chairman of T1.

Approval of deliverables and Work Programme update

TSG-T agreed to postpone the submission to June 1999 of the first four deliverables on Terminal Logical Test Interface and Terminal Measurement Procedure (for FDD and TDD).
LS from T1 to TSG-T, RAN1, RAN4 points out that in order to have the Radio interface conformance test requirements (Measurements Procedures, Logical Test Interfaces) by the end of 1999, T1/RF have to assume that the core specifications from RAN4 (S4.01A and S4.03) are stabilised by September 1999. A source of concern are the TDD specifications. Lack of contributions makes the TDD time schedule critical. TSG-T urgently invites contributions to assure progress in the TDD area.

Work item no. 5 (Protocol test specification for Mobile Station) was further elaborated. A multi-part test specification should be delivered as follows: part 1: 3GPP terminal test specification (in prose) by 2000; part 2: 3GPP terminal ICS proforma by 1999; part 3: 3GPP ATSs and IXIT proforma for terminals by 2001.

Audio-visual terminal characteristics

S4 (Codec) intends to have a Work Item "3G audio-visual terminal characteristics" whose purpose is to produce specifications for acoustic performance of terminals. S4 understands that the acoustic performances are of interest for conformance testing. At the meeting TSG-T has discussed the relationship between T1 and S4. **It is the understanding of TSG-T that no 3GPP conformance specifications will be necessary in this area.** TSG-T has further with satisfaction noted that S4 will generate test vectors for codec verification and anticipates that these will be utilised by T1 in producing test specifications.

Electro-Magnetic Compatibility (EMC)

T1 noted that no EMC requirements exist above 1 GHz. These are being developed by CISPR/IEC, with a longer timeframe than 3GPP's. T1 concluded that a Liaison Statement should be sent to CISPR/IEC, requesting information about their time plans and asking for any help they could give 3GPP. As this is also touching the 3GPP Base Stations (RAN4), T1 would like to get some advise from TSG-T and RAN4 on how to handle this matter. T1 requested guidance from TSG-T on EMC requirements for 3G terminals.
Kiyohito NAGATA (NTTDoCoMo) presented Td 75 (NTTDoCoMo, NEC, Sharp) suggesting an approach for handling EMC/Safety requirements in 3GPP standards. Td 75 recommends that EMC regulatory requirements for each region/country should be handled as separate annexes of the same deliverable. Equipment intended for sell in more than one country/region will then need to be tested against the relevant annexes, and the results submitted to each region/country's regulatory/certification body.
The general consensus in TSG-T was that RAN4 and T1/EMC should proceed on independent paths with the T1/EMC goal to harmonise the EMC specifications for global circulation of 3G equipment.
The LS from T1/EMC to CISPR (Td 89) should get within 2 weeks via the TSG-T Chairman the required "green light" from PCG. Subsequently the LS will be sent by the T1 Chairman to CISPR.

WG T2 Mobile Terminal Services and Capability

SWG1 Execution Environment (Chairman: Mark CATALDO, Motorola) develops 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) develops 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 discussion whether a physical connector should be standardised. 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) defines 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) reviews end-to-end services.

- It was noted that T2 will not meet regularly rather will meet as need arises.

- 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 (Chairperson: Sofi PERSSON, Telia) considers 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 implementation and usage of multi-mode terminals efficient. It is proposed to merge the two work items on Multi-mode Terminals into one 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 works 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) since the on-going work in RAN4 in that area suffices Terminal's requirements. 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 and regulations in different regions has already been created and is presented to

T#3 for information (Td 93). A first draft of electrical safety requirements is under development. Concerning the work on terminal capabilities, SWG6 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.

Set-up of a 3GPP e-mail reflector list on "Terminology"
The use of a clear and consistent terminology within 3GPP TSGs was felt as very necessary by TSG-T members. One suggestion was generally supported that the contents based on 30.05 could be extended. **TSG-T will propose to set up an e-mail reflector list on Terminology at the SA#3 plenary, e.g. 3GPP_terminology@list.etsi.fr.**

The following documents are T2 input to the April Draft Specifications. Because of their size these documents can be made available on request:
on SMS:	GSM 03.40, GSM 03.38, GSM 03.42, GSM 03.39
on MEXE:	GSM 03.57
on Terminal Interfaces:	GSM 07.05, GSM 07.07, GSM 07.10

Electronic Working
The 3GPP terms of reference say that we should make best possible use of electronic working methods.

Kevin HOLLEY (BT), TSG-T Vice- Chairman, will address the Electronic Working at the next SA meeting in order to seek a common solution within 3GPP TSGs, e.g. meeting networks, portable LAN, RAM cards with PCMCIA interface,

WG T3 USIM

Approval of deliverables and Work Programme update

(Td 84) TSG-T approved the "Revised Work Item descriptions" splitting the work into the following deliverables:

"USIM and IC card requirements for 3GPP (UICC)" - Rapporteur: G. MARINGER, T-Mobil

"USIM characteristics" containing USIM specific command parameters, file structures, contents of data-fields, application protocol and security functions. Rapporteur: Y. HONDA, Nippon Ericsson

"UICC physical and logical characteristics" containing electrical and physical interface of IC card and terminal, logical characteristics of a telecommunications IC card core standard for UICC (and others). Rapporteur: R. LINDHOLM and P. VESTERGAARD, Nokia

First deliverable available for approval: 3GPP 21.11 "USIM and IC card requirements"
(Td 85) 3GPP provisional number 21.11, defines the requirements of the USIM (Universal Subscriber Identity Module) and the IC card for 3GPP (UICC). TSG-T approved version 2.0.0 of the deliverable and raised it to version 3.0.0. **The meeting warmly thanked and congratulated T3 for the first 3GPP deliverable approved by TSG-T.**

(Td 62) LS from T3 to T on "GSM specification availability in 3GPP" points out the expectation that a 3GPP specification from T3 refers to, or is even one of, the existing GSM specifications with or without modifications.
T3 asks if: 1) 3GPP specifications can directly refer to GSM specifications, and 2) is it possible for non-ETSI 3GPP Individual Members to access the GSM specifications for the 3GPP work in the eventuality that assumption in 1) is correct ?
TSG-T agreed that the transfer of existing SMG deliverables to 3GPP should be dealt with on a case by case basis at WG level when such a need arises. **However, a general framework for such transfers is necessary and should be formally set-up between 3GPP SA (with PCG consultation) and SMG.**

Td 99 from ARIB on "GSM specification ownership in 3GPP" was presented by Yoshio HONDA (Nippon Ericsson). As the scope of 3GPP includes its core network evolved from the GSM core network, it is natural that some other areas in 3GPP are also seen as the GSM evolution. In fact, T3 has agreed that the USIM specifications should be drafted based on the GSM SIM specifications, GSM 11.11, 11.12 and 11.18, considering the GSM compatibility. Furthermore we can see other GSM specifications that should be re-used for 3GPP, e.g. GSM 11.14 (SIM application toolkit) and GSM 03.48 (Security Mechanisms for SIM application toolkit), with minimum or no technical modifications.
ARIB has an opinion that GSM specifications that are related with 3GPP specifications should be in general transferred to 3GPP and jointly owned by the Partners, in order for all the Partners to be able to accept them for Partner's derivatives.
If the ARIB view above is accepted by TSG-T it is recommended that the view is sent to PCG to form a general principle handling specifications in 3GPP from one of the Partners. The TSG-T Chairman will address this issue at the next SA meeting and in PCG.

(Td 63) TSG-T endorsed the proposal in LS from T3 to T on "Communication and Participation of non-ETSI members in SMG9 Generics work".
T3 agreed to create a further "generic" document covering the Logical Model, Security Issues and Generalised Commands. However, the "ownership" of this document caused some concern.
There already exists another "generic" document covering the Electrical and Physical interface of the UICC/USIM, which is currently "owned" by SMG9 Generics, and which is relevant to both SMG9 and T3. There was considerable concern that specifications "owned" by SMG9 Generics could not be influenced by T3, or, further, that non-ETSI 3GPP members do not formally have the right to participate in SMG9 Generics. T3 came to the conclusion to retain ownership of this new document for the time being in order to overcome these concerns and progress the work quickly. However, in order to prevent divergence between this new document and its source (GSM 11.11), it is recognised that a single generic document, which can be referred to by both GSM and 3GPP specifications, is preferred.
The extension of SMG9 Generics ToR would allow the liaison with non-ETSI organisations and

their participation in the SMG9 Generics work. T3 members active in SMG9 would initiate this process in order to accommodate the identified needs of T3. TSG-T encouraged this approach.

Liaison with ETSI Human Factors

LS from ETSI TC Human Factors (HF) to 3GPP TSG-T, T2, T3, TSG-SA, EP UMTS, SMG
TC HF would be happy to collaborate with the TSG Terminal (T2 on basic MMI and T3 on USIM). TC HF offers its considerable experience in the area of HF standards for people with special needs to 3GPP. TSG-T welcomes the LS and proposes that concrete requirements for people with special needs should be addressed to TSG-SA/S1. It was noted that, as a first step, S1 needs to consider the matter and define requirements. T2 does not work on MMI. T3 will be happy to incorporate the necessary requirements from S1.
TSG-T concluded that SA should issue the formal 3GPP response to the LS from ETSI TC HF.

TSG-T Work Plan/ Co-ordination with TSG-SA

TSG-T **noted** Td 88 from Ian DOIG (3GPP support group) giving an Example of a 3GPP Specifications status list under the overall responsibility of TSG-SA. **This status list, after some further refinement, will be produced after each and every SA meeting showing the current status of all the 3GPP specifications.**

TSG-T **endorsed** Td 74 from Ian DOIG (3GPP support group) proposing a "Structure and numbering scheme of the of 3GPP specification series". The 3GPP support group have been mandated by the PCG to identify a numbering scheme for 3GPP specifications. TSGs CN, RAN and T are invited to comment on this proposal and forward there comments to TSG SA (Overall 3GPP project management role) for information / discussion.
TSG SA will be asked to endorse this proposal and request that the 3GPP support group submits it to the PCG for approval as TSG endorsed.

Future meeting schedule

TSG-T#4	17-18 June 1999	T1	Miami / USA
TSG-T#5	7-8 October 1999	TTA	Korea
TSG-T#6	13-17 December 1999	ETSI	Sophia Antipolis
TSG-T#?	8-9 June 2000 (TBC) (before SMG plenary)	Mannesmann Mobilfunk	Dusseldorf /Germany