

Source: Secretary TSG-Terminals, Adrian ZOICAS (3GPP support, ETSI MCC)  
Title: Report from TSG-T#4 meeting

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## 1 Opening of the meeting

57 delegates attended the 4<sup>th</sup> meeting of 3GPP TSG-Terminals (TSG-T#4) from 17-18 June 1999, held at the Wyndham Miami-Biscayne Bay Hotel in downtown Miami just 15 minutes from the Miami International Airport. The meeting was co-hosted by BellSouth, Conexant, Ericsson, Lucent, Motorola Satellite Communications, Nokia, Nortel Networks, Omnipoint Communications Services, Pacific Bell Wireless and Siemens.

The meeting was chaired by Sang-Keun PARK (Samsung), TSG-T Chairman, assisted by the two TSG-T Vice Chairmen Ed EHRLICH (Nokia) and Kevin HOLLEY (BT), and the TSG-T Secretary, Adrian ZOICAS (3GPP support group, ETSI MCC).

Ed EHRLICH (Nokia) addressed a welcome message to Miami on behalf of the hosting organisations and T1.

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## 2 Approval of Agenda & Registration of documents

The draft agenda (TP-99105) was approved without modification and together with the list of meeting documents can be found in annex. All the meeting documents are available on the 3GPP server at [ftp://ftp.3gpp.org/TSG\\_T/TSG\\_T/TSGT\\_04/Docs/](ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_04/Docs/)

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## 3 Report of TSG-T#3 Yokohama

The draft report of the previous meeting, TSG-T#3 held in Yokohama, was approved (TP-99100). The progress report of the TSG—T Chairman to TSG-SA#3, held subsequently in Yokohama, was noted (TP-99102, TP-99103). The approved report can be found at [ftp://ftp.3gpp.org/TSG\\_T/TSG\\_T/TSGT\\_03/Report/](ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_03/Report/)

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## 4 Chairman's report and objectives for meeting#4

### 4.1 PCG activity

The Chairman informed from the 3GPP Organizational Partners' meeting#1, hosted by TTA in Seoul/KOREA on 27-28 May 1999 (TP-99144).

- **China Wireless Telecommunication Standardization Group (CWTS)** was accepted as an Organizational Partner in 3GPP.
- **GSM Association** was accepted as a Market Representation Partner in 3GPP.
- **Telecommunications Standards Advisory Council of Canada (TSACC)** was accepted as an Observer in 3GPP.
- **Work items which fall outside of the scope of 3GPP**  
ARIB asked what process should be followed were work is proposed in 3GPP which is outside of the 3GPP scope. The OP meeting approved a text which defines the process to be followed:

"3GPP should define whether the proposed technical item is out of scope of 3GPP and justify its decision.

*If the work item is outside of the scope of 3GPP, and where a common global solution is desired, 3GPP should recommend how that should can be achieved.*

*If the proposed technical item has no impact on global roaming and circulation of terminals, or has no adverse impact on the future development of the standard, such a technical item can be defined by the interested SDO not by 3GPP.*

*The above definitions should be applied by the 3GPP TSGs on a case by case basis."*

TSG-T could not agree with the OP meeting's decision and sent an LS to OP with copy to PCG, requiring clarification on "global roaming" and "global circulation" (TP-99139).

- **Terminology and Terms of Reference**

TSG-T had submitted revised ToR for approval by the Organizational Partners. The following points were discussed:

- the definition of the term "USIM" is inconsistent with the definition used by the remaining TSGs.
- the use of the terms "User", "User Equipment", "Terminal" and "Terminal Equipment" is inconsistent throughout the Terms of Reference for the TSGs.

TSG-SA should co-ordinate the consistent use of these definitions.

- **Ciphering algorithm for 3G & funding of work to be subcontracted (i.e. ETSI STF-like)**

TSG-SA had proposed a process for developing a ciphering algorithm for 3<sup>rd</sup> Generation mobile systems. The proposed process involved the use of ETSI SAGE to prepare the algorithm with participation from Individual Members from other Partners. A cost estimate had been provided for the development of the algorithm, and emphasis placed on the urgent need for this work to commence. This proposal was discussed at length with a number of concerns being raised on the need for the final product to be exportable worldwide. The proposal was also made the algorithm could be prepared in exactly the same way as for the GSM algorithm since that method was well known and proven. This would mean that the algorithm could be financed and prepared by ETSI and that the results would be licensed by ETSI to the remaining Partners. The ownership of the final result was also debated in conjunction with the method for funding this work. In conclusion, the urgent need for this work to be undertaken was fully endorsed. However, SA3 were requested to provide more details on the requirements for the algorithm together with an assessment of the export difficulties, which could be encountered. SA3 should also provide more details on how the algorithm would be developed.

PCG needs to consider further the funding issues for this work based on the cost estimates that had already been provided. The PCG was requested to take care of this subject during their next meeting, which will take place on 6-7 July 1999.

- **Liaising with the ITU**

A reply in response to the LS that ITU-R had sent to 3GPP Organizational Partners had been formulated by TSG-RAN and had been submitted to ITU-R in the name of ARIB. This response raised the question of whether TSGs were permitted to liaise directly with the ITU and confirmation was given that under the current 3GPP working procedures, direct liaison with the ITU was not permitted.

The OP meeting decided that due to the difficult nature of the discussions and the considerable time that had been consumed, TSGs should refrain from preparing draft responses to liaison statements received from the ITU. Individual Members, who are also members of the ITU, should formulate responses.

- **Ownership and Copyright of 3GPP specifications**

It was noted that 3GPP would not publish any results but that the results would be published by each Organizational Partner. The choice for reference or inclusion still remained. The following text was agreed as a response to ITU-R, to be presented at the next meeting of ITU-R TG8/1:

*"The SDOs participating in 3GPP have joint ownership of the Technical Specifications and Technical Reports developed within 3GPP. They are ready to grant licenses including copyright, free of charge to ITU, to include SDOs deliverables in whole or in part into ITU Recommendations on a reciprocal basis. The participating SDOs will retain the right to maintain their deliverables.*

*3GPP, which is not a legal entity, does not publish its Technical Specifications and Technical Reports. 3GPP products will be transposed into SDO deliverables exclusively by the participating SDOs. Each participating SDO determines the publication and distribution policy of its transposed deliverables."*

## 4.2 Objectives for meeting#4

The Chairman pointed out that the prime objectives of this meeting were:

- The approval of deliverables (TS/TR) as required by the tight schedule of the 3GPP members; and
- Discussions and endorsement of requests for funding of work to be subcontracted (ETSI STF-like).

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# 5 Letters and reports from other groups

## 5.1 Other TSGs

TSG-T noted the LS from N3 to N1 (cc: S1, S2, T) on “UMTS Call Control and Session Management” (TP-99141).

TSG-T noted the LS from S1 containing the “Revised v.0.0.2 of TS 3G Security; Integration Guidelines” (TP-99143).

TSG-T endorsed the “Proposal for 3G and SMG Specification Handling” from Ian DOIG (3GPP support team) contained in TP-99145. Approval of this proposal will be sought next week from TSG-SA and SMG.

To avoid divergence of the 3G and GSM specifications, the responsibility for maintenance (technical corrections) of earlier GSM Releases and the future GSM evolution of those specifications affected should be the prime responsibility of one Technical Body.

To avoid duplication of work, further GSM evolution (GSM R99 onwards) should be incorporated into the 3<sup>rd</sup> Generation Core Network specifications as GSM specific parts if necessary. Note that the evolution of the GSM Radio access specifications, MS test specifications and BSS test specifications, are for the most part, unaffected by the 3<sup>rd</sup> Generation evolution. These principles apply after SMG#29 (if SMG#29 and TSG#4 agree) and following GSM R98.

## 5.2 Outside 3GPP

TSG-T noted TP-99142, the “ETSI Guide EG 201 399 v1.1.1 to the production of candidate Harmonized Standards (HS) for application under the EU Radio Equipment and Telecommunications Terminal Equipment Directive (R&TTED) Directive”. There will be HS adopted under the R&TTED which will also apply to the type approval of 3G Terminal Equipment in the European Union / European Economic Area (EU/EEA) regulatory regime.

This ETSI Guide has been produced by ETSI OCG TG6 and will be provided to the European Radiocommunications Committee ERC (Administrations of the CEPT countries) for their consideration and to the European Commission for their legal scrutiny. This Guide is to be submitted for the ETSI Standards Membership Approval Procedure (MAP).

The status of this ETSI Guide is not final. It is expected that changes will need to be made to reflect comments received from bodies external to ETSI, and to keep the guidance to ETSI in line with the deliberations of TCAM, the Telecommunication Conformity Assessment and Market Surveillance committee (R&TTED Articles 13, 14, 15).

As part of its objective, this ETSI Guide gives guidance on the general background to, and contents of, the R&TTED, which may be of value to regulators, operators, manufacturers, users, and other interested parties.

In this context, a Harmonized Standard is a European Norm (EN) produced by ETSI, under a mandate from the European Commission. HS is comprising only essential requirements as given in Article 3 of the R&TTED, and the reference of which is intended to be published in the Official Journal of the European Communities (OJEC) to establish a presumption of conformity with the essential requirements of the R&TTED.

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# 6 WG T1 Mobile Terminal Conformance Testing

(TP-99110) Progress report from WG T1 was introduced by Bjarke NIELSEN (SONY), T1 Chairman, assisted by Peter GEORGE (ANRITSU), T1 Vice-Chairman and Lidia SALMERÓN (ETSI MCC), T1 Secretary.

- T1 feel that their work could benefit from more American involvement.
- T1 request for guidance on Harmonised Regulatory Standards for 3GPP Terminals (see [TP-99138](#)). This request has been refined and sent as LS from TSG-T to TSG-SA next week's meeting as SP-99279.

## 6.1 SWG T1/Signalling (Convenor: Daniel FOX, ANRITSU)

The conformance test specifications – to be produced by T1 - shall satisfy global regulatory requirements. These requirements may differ from one region to another. A justification is needed for the test cases elaborated by T1. Three categories of test cases are considered for:

- regulatory requirements;
- global compatibility of the terminals;
- voluntary testing for some supplementary features.

The three categories of test cases (regulatory, interoperability, voluntary certification) will be included in separate deliverables.

**T1 is requesting funds for the development of 3GPP TTCN specifications (TP-99111).** Funding of **6.5 man-years** should be used for setting up a Specialist Task Force (STF) to develop the protocol conformance tests in Tree and Tabular Combined Notation (TTCN) for the MS interoperability. This request has been refined, endorsed and sent as LS from TSG-T to TSG-SA next week's meeting (see [TP-99137](#) / [SP-99278](#)). Supporting 3GPP Members are: Anritsu, SONY, Ericsson, NOKIA, etc.

NOTE: Some manufacturers will produce 3GPP test equipment. The interface between the test specification and the TTCN-test equipment should be standardised.

## 6.2 SWG T1/EMC (Chairman: John FENN, SAMSUNG)

**John FENN (SAMSUNG / ETSI) was elected Chairman of SWG T1/EMC.**

It was decided to have two stages on the specifications:

- stage 1: EMC requirements region by region;
- stage 2: global EMC requirements.

The SWG Chairman will send out the LS to CISPR on "EMC requirements above 1 GHz".

## 6.3 SWG T1/RF (Chairman: Mitsuru YOKOYAMA, HP)

### Logical Test Interface

- **TS 34.109** v0.2.0 - Logical Test Interface (FDD): cannot be updated to v1.0.0 due to inconclusive BER/FER issue issues, which need to be discussed with RAN4.
- Logical Test Interface (TDD) v0.2.0: no contributions and missing progress were reported. FDD and TDD to be merged in July 1999.

### Measurement Procedure

- **TS 34.121** v1.0.0 - Measurement Procedure (FDD): the title has been changed to "Terminal Conformance Specification, Radio Transmission and Reception (FDD)". This TS is based on GSM 11.10 and the core specification is being drafted by RAN4. [TP-99113](#) was introduced by Mitsuru YOKOYAMA and upgraded from v0.2.0 to v1.0.0.
- **TS 34.122** v0.2.0 - Measurement Procedure (TDD): the title has been changed to "Terminal Conformance Specification, Radio Transmission and Reception (TDD)". Cannot be upgraded to v1.0.0 due to lack of contributions.

NOTE: If the related RAN4 document is not stable by October, the RF specifications cannot be finalised by end 1999.

## 6.4 TSG-T1 Meeting Calendar

Meeting	Date	Location	Host
TSG T1/EMC#8	30 July 1999	QUEENSFERRY (GB)	
TSG T1/EMC#9	6 September 1999	Makuhari (Japan) + RAN4	
TSG T1/RF#6	13-14 September	Kobe (Japan)	HP
TSG T1/Sig#4	13-14 September	Kobe (Japan)	HP
TSG T1#4	16-17 September	Kobe (Japan)	HP
TSG T1#5	9-10 December	Sophia Antipolis (France)	ETSI

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## 7 WG T2 Mobile Terminal Services and Capability

([TP-99120](#), [TP-99121](#)) Progress report from WG T2 was introduced by Kevin HOLLEY (BT), T2 Chairman, and Friedhelm RODERMUND (ETSI MCC), T2 Secretary.

The updated work programme is presented in [TP-99117](#). Six change requests presented in ([TP-99124](#)) were approved. Below there is a short summary of the results for each sub-working group.

### 7.1 SWG1 Execution Environment (Chairman: Mark CATALDO, Motorola)

**SWG1 Execution Environment** (Chairman: Mark CATALDO, Motorola) develops specifications for a terminal execution environment using wireless, fixed, and cordless access.

MExE R98 GSM 03.57 was finalised and will be presented for approval to SMG#29 in Miami, June 1999.

- presented as [TS 23.057](#) v.1.1.0 to TSG-T for information because it is the basis of the new MExE release ([TP-99116](#)).
- work on this new release will start as soon as Stage 1 for MExE R99 is approved at SMG#29.

### 7.2 SWG2 Terminal Interfaces (Chairman: Lars NOVAK, Ericsson)

**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.

- Some progress was reported on the discussion on whether the [physical connector of the terminal](#) should be standardised or not. T2 presented a draft LS on terminology ([TP-99115](#)), which has been sent by TSG-T to the 3GPP Organisational Partners (OP) and PCG, asking for clarification of the term “global circulation” ([TP-99139](#)).
- On the topic [“Synchronisation and Object exchange”](#) a report is expected at the next TSG-T meeting.
- No contributions were received so far on the [“Alternatives to AT commands”](#).
- There might be some input on the coding of additional language characters in SMS text strings and phonebook (Japanese, Korean, Chinese etc.).
- TSG-T approved three [TS 27.005, 27.007, 27.010](#) as v.3.0.0 plus 4 CRs (3 on [27.007](#) and 1 on [27.010](#))

<a href="#">TP-99129</a>	TS 27.005	Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)
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TP-99118	TS 27.007	AT command set for 3GPP User Equipment (UE)
TP-99119	TS 27.010	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol

## 7.3 SWG3 Messaging (Chairman: Arthur GIDLOW, One2One)

**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.

- S1 decided that T2 should produce **Stage 1** for the **Multimedia Messaging Service (MMS)**. A first draft was discussed by T2.
- So far, there was no input regarding an **“Enhanced Cell Broadcast Service”**. Interested companies are encouraged to contribute.
- TSG-T approved four **TS 23.038, 23.039, 23.040, 23.042** as v.3.0.0 plus 2 CRs (**TS 23.038, 23.040**).

TP-99127	TS 23.038	Alphabets and language-specific information
TP-99128	TS 23.039	Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)
TP-99126	TS 23.040	Technical realization of the Short Message Service (SMS); Point-to-Point (PP)
TP-99125	TS 23.042	Compression algorithm for text messaging services

## 7.4 SWG4 Services End to End Interworking

**SWG4 Services End to End Interworking** has currently no chairman and no activity. It will meet on an ad hoc basis as the need arises.

## 7.5 SWG5 Multi-mode Terminals (Chairperson: Sofi PERSSON, Telia)

**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.

- identifies issues that need additional treatment in order to make implementation and usage of multi-mode terminals efficient.
- is progressing the TR (v.0.2.0) on “Multi-mode terminal issues” - to be completed (v.3.0.0) at TSG-T#5 in October 1999.

## 7.6 SWG6 Terminal Features and Performance (Chairman: Kazuya HASHIMOTO, NEC)

**SWG6 Terminal Features and Performance** (new Chairman: Kazuya HASHIMOTO, NEC / ETSI) 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.

- **Kiyohito NAGATA, DoCoMo, resigned** as SWG6 chairman due to change of responsibility (promotion) inside his organisation. TSG-T warmly thanked Kiyohito NAGATA for his very active role and excellent results achieved as chairman of T2/SWG6 and in liaising with the other TSGs.
- TSG-T approved **TR 34.925** (v.3.0.0) on “Specific Absorption Rate (SAR) requirements and regulations” (**TP-99122**).
- TSG-T noted **TR 34.907** (v.1.0.0) on “Electrical safety requirements and regulations” submitted for information in **TP-99123**.



- **TR 21.904** (v.0.0.3) on “Terminal Capability requirements” is planned for submission for information (v.1.0.0) to TSG-T#5 in October 1999.  
SWG T1 is discussing how the work on terminal capabilities in T2 should be used (e.g. for ICS).  
The former LS to other WGs on service capabilities has been refined and will be re-issued (**TP-99114**).  
One co-ordinator for each WG has been assigned to monitor the progress on baseline and service capability issues.

## 7.7 TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2 SWG1	15-16 July 1999	Tampere, Finland	Nokia
T2 SWG5	Last week in July 1999		
SMG4 / T2#5	6-9 Sept 1999	Finland	Sonera
T2#6	4-6 Oct 1999	Korea	Samsung
T2#7	22-26 Nov 1999		
SMG4/T2#8	31 Jan – 3 Feb 2000		
SMG4/T2#9	17-20 April 2000		
T2#10	10-13 July 2000		

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## 8 WG T3 USIM

Klaus VEDDER (Giesecke & Devrient), T3 Chairman, and Michael SANDERS (ETSI MCC), T3 Secretary, presented the progress of WG T3 (**TP-99083**). The updated T3 Work Items are given in (**TP-99084**).

### 8.1 Progress of work

- **TS 21.111** (v.3.0.0) “USIM and IC Card Requirements” - no changes.

It was noted that the original T3 work plan required that **31.101** and **31.102** should be submitted to TSG-T#4 for information (v.1.0.0). Due to the fact that substantial changes were likely to be made - particularly relating to security issues and the phone book concept - it would be better to wait until TSG-T #5 in October 1999.

- **TS 31.101** (v.0.5.0) “UICC physical and logical characteristics”;
- **TS 31.102** (v.0.5.0) “USIM characteristics”.

### 8.2 Major Open Issues

#### 8.2.1 **Phonebook** / Abbreviated Dialling Number (ADN)

- more complex than GSM ADNs (e.g. second names, fax numbers imply linked records);
- 3 different proposals are currently under evaluation and the decision should be taken at the next T3 meeting.

#### 8.2.2 **Allocation of Application Identifiers (AIDs)**

USIM application(s) require IDs on the UICC. Three scenarios for their management were identified (**TP-99131**):

- one of the 3GPP OPs applies for a RID (Registered Application Provider Identifier) and administers the list of AIDs for 3GPP (possibly ETSI which already has a RID);
- 3GPP as an organisation in its own right applies for a RID, and 3GPP or one of the partners maintains the list of AIDs for 3GPP;
- each partner independently applies for a RID and T3 specifies the structure of the PIX (Proprietary application identifier extension) in a 3GPP document, which applies to all Partners.

TSG-T considers the **second option as the most suitable and asks TSG-SA/PCG for endorsement.**

3GPP would create a document similar to the ETSI Guide EG 201 220 for the structure and maintenance of AIDs.

### **Background**

In a multi-application environment, a flexible application selection method is an obvious requirement. ISO/IEC 7816-5 specifies application identifiers (AIDs) and the registration of such identifiers.

These identifiers allow each application and each application provider to be uniquely identified.

The AID is used to explicitly select an application in a multi-application smart card, e.g. a specific USIM application (there may be more than one) or a GSM application on the same card. An AID consists of a RID (Registered Application Provider Identifier) and a PIX (Proprietary application identifier extension).

As an example, in the case of telecommunications cards issued by ETSI, the RID is the unique ETSI RID issued by ISO/IEC followed by the PIX which identifies the application and the application issuer. Currently, two ETSI applications have been defined (GSM and SIM Application Toolkit). Details of the process and the precise format of the ETSI-AIDs are specified in the ETSI Guide EG 201 220.

AIDs need to be managed for 3GPP applications. There are some issues, which need to be resolved.

### **3GPP AID Administration**

Administration means obtaining a RID from ISO/IEC, and issuing and maintaining the list of AIDs.

Issue and maintenance of the AIDs consists of assigning and registering a unique identifier to an application upon request by the appropriate 3GPP committee.

The PIX could be structured in such a way that there is no need for any further action by the administration authority as it has been achieved in EG 201 220 (e.g. there is no need to assign identifiers to issuers or maintain a list of issuers).

TSG-T believes that 3GPP as “an international organisation in charge of specification of IC card applications” (ISO/IEC 7816-5) could apply for a RID from ISO/IEC and administer AIDs. The charged fee by the ISO/IEC registration authority (Tele Denmark) to issue a RID is less than USD 100.

## **8.3 Liaison Statements from T3 to other groups**

- multiple USIM in a UICC (to SA1 - see T3-99154);
- implications of GSM-UTRAN handover - parameters & identities (to SA1, SA2, T2 – see T3-99158);
- network related parameters to be stored in the USIM (to CN1, SA2 – see T3-99159);
- clarification of requirements for USIM-Terminal lock (to SA1, SA3 – see T3-99180).

## **8.4 Transfer of GSM specifications to 3GPP**

### **8.4.1 GSM 11.14 SIM Application Toolkit**

It is seen of major importance for development of operator specific services. Two major problems were identified:

- use of toolkit applications on UICCs with more than one USIM;
- restructuring of document (resource problem).

### **8.4.2 GSM 11.17 SIM Conformance Test Specification**

It is an optional GSM Phase 2+ specification:

- needs to be rewritten due to (some) different requirements;
- considered of secondary importance w.r.t. testing;
- *urgent requirement for “transforming” section 27 of GSM 11.10 into a test specification for the UICC-Terminal interface.*

T3 has currently no resources to do either task.

NOTE: this is not TTCN code (see in section 6.1 above the T1 request **SP-99278**/ TP-99137).

TSG-T endorsed the **Request for funding of USIM testing** (see **SP-99277**/ TP-99136). Supporting 3GPP Members are: Giesecke & Devrient, Motorola, T-Mobil, Ericsson, NOKIA, etc.

## 8.5 TSG-T3 Meeting Calendar

Meeting	Date	Location	Host
TSG-T3 #7	05 - 07 July 1999	Lund (Sweden)	Ericsson
TSG-T3 editing meeting	24 - 26 August 1999	Bonn	T-Mobil
TSG-T3 #8	04 - 06 October	Korea	Samsung et al.
TSG-T3 #9	02 - 04 November 1999	Austin, Texas, USA	Schlumberger
TSG-T3 #10	08 - 10 December 1999	Sophia Antipolis, FR	ETSI
TSG-T3 #11	early February 2000	Japan	tba

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

(TP-990106/107/108/140) contain for information a snapshot of the 3GPP TSG-T Work Programme database. As this information is continuously changing, it should be consulted on-line at <http://www.etsi.org/EWPWeb/> by selecting in the "QUERY FORM" the "Technical Body" as e.g. "3GPP T".

The work programme should regularly be reviewed/updated by SWG/WG and the changes should be submitted to TSG-T for approval. This should provide visibility to 3GPP Members and should be instrumental in the successful overall technical co-ordination in 3GPP.

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## 10 Liaison Statements to other TSGs and outside 3GPP

### 10.1 Liaison Statements to other TSGs

Document		Title / Subject
	based on	
TP-99136	TP-99132	LS from T to SA on "Request for funding of USIM testing" (SP-99277)
TP-99137	TP-99111	LS from T to SA on "Funding for development of 3GPP TTCN specifications" (SP-99278)
TP-99138	--	LS from T to SA on "Request for guidance on Harmonised Regulatory Standards for 3GPP Terminals" (SP-99279)
TP-99139	TP-99115	LS from T to OP/PCG on "Clarification required for "global roaming" and "global circulation"

The report from TSG-T to TSG-SA#4 can be found in annex to this document (SP-99280, SP-99281).

### 10.2 Liaison Statements outside 3GPP

No issue was dealt with under this agenda item.

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## 11 Future meeting schedule

Meeting	Date	Location	Host
TSG-T#5	7-8 October 1999	Korea	TTA
TSG-T#6	13-15 December 1999	Sophia Antipolis / France	ETSI
TSG-T#7	13-15 March 2000 (TBC)	Madrid/ Spain	Telefonica
TSG-T#8	5-7 June 2000 (TBC)	Berlin /Germany	Mannesmann
TSG-T#9	25-27 September 2000	<b>Host required</b>	
TSG-T#10	11-13 December 2000	<b>Host required</b>	

The centralised 3GPP meeting calendar may be consulted on-line at:  
<http://www.etsi.org/MeetingsCalendar/ViewMeetings.asp>  
by selecting in the "QUERY FORM" the  
"Technical Body" as e.g.  
"3GPP", "SMG" or "UMTS"  
and by ticking the box  
"Include Sub. TBs".

After each and every meeting, Secretaries of 3GPP TSG/WG/SWG should send - without fail - the meeting calendar information to the 3GPP-support group [Emanuelle.Wurfell@etsi.fr](mailto:Emanuelle.Wurfell@etsi.fr).

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## 12 Any Other Business

### 12.1 Operators' Harmonization Group (OHG)

TSG-T noted **TP-99135**: "Harmonized Global 3G (G3G) Technical Framework for ITU IMT-2000 CDMA Proposal". The Operators' Harmonization Group (OHG) Technical Framework document outlines the key technical parameters which can meet the requirements of commercial wireless operators from around the world, who desire a common global specification for 3G CDMA systems. The harmonization framework draws heavily on the Wideband Code Division Multiple Access (WCDMA) and cdma2000 submissions made to ITU for IMT-2000. The majority of operators and manufacturers worldwide support this goal. The technical framework proposed for achieving a common global specification seeks to:

- Provide the foundation for accelerated growth in the mobile industry in the 3G millennium **and to create a single integrated 3G CDMA specification** and process from the separate WCDMA and cdma2000 proposals being developed by 3GPP and 3GPP2.

This OHG technical proposal should allow operators the choice of implementing a subset of a harmonized global specification depending on their market and business needs. This document specifies several key radio parameters, which form the basis for a harmonized Global 3G CDMA standard. The operators are interested in having a harmonized Global 3G CDMA standard consisting of three modes: Multi Carrier (MC), Direct Spread (DS) and Time Division Duplex (TDD). The operators recommend timing goals for the availability of the Harmonized Global CDMA 3G standard based on the current market needs. Operators want to ensure that their recommendations are implemented in 3GPP and 3GPP2.

OHG also feels that for complete harmonization, 3GPP and 3GPP2 should consider merging into a single body no later than December 2000. This merger will provide focus in developing a unified core network for the future as well as ensuring that Air Interfaces and the associated protocol layers in the future will be completely harmonized.

- Kevin HOLLEY, T2 Chairman, observed that the OHG document was only dealing with Radio Access Harmonization and does not mention Harmonization of Services. How will this effect the work on Services? Kevin HOLLEY recommended that TSG-T should express concern and ask OHG whether services had been taken into account.
- Klaus VEDDER, T3 Chairman, pointed out that for T3 the date for merging of 3GPP and 3GPP2 was too late and proposed that at least for specific issues – like USIM – the joint work should start earlier.
- Mitsuru YOKOYAMA, T1/RF Chairman, considered that also from the T1/RF perspective the date for merging of 3GPP and 3GPP2 was too late.

TSG-T noted **TP-99134**: "Impact of OHG harmonization recommendation on UTRA/FDD and UTRA/TD" authored by a long list of manufacturers and operators.

The OHG has recommended a harmonization of the two main CDMA-based 3G concepts, UTRA and cdma2000, into a common concept based on three modes: Direct-spread/FDD (DS), Multi-carrier FDD (MC) and TDD. The OHG recommendation includes specific proposals regarding chip rate, pilot, and synchronization for the DS mode. These proposals imply the modifications to the physical layer of UTRA/FDD. The authors of **TP-99134** support these proposals and recommend that TSG-SA WG1 should, without delay, initiate studies how the modifications can be incorporated in the 3GPP specifications.

## 12.2 Electronic meetings

During the present meeting TSG-T have used electronic document distribution with very good results.

Kevin HOLLEY (BT), TSG-T Vice- Chairman, who initiated the “electronic meetings ”, presented Host and User requirements in [TP-99112](#).

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.

TSG-T decided to continue this good experience at future meetings.

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## 13 Close of the meeting

The Chairman, Sang-Keun PARK (Samsung), warmly thanked the hosting organisations for the good meeting facilities, the TSG-T WGs for the good progress made, the participants for their contributions and closed the meeting.

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## Agenda

- |    |  |                    |
|----|--|--------------------|
| 1  | Opening of the meeting                             |                    |
| 2  | Approval of Agenda & Registration of documents     | 105                |
| 3  | Report of TSG-T#3 Yokohama                         | 100, (102,103)     |
| 4  | Chairman's report and objectives for meeting#4     | 144,               |
|    | 4.1 PCG activity                                   |                    |
|    | 4.2 Objectives for meeting#4                       |                    |
| 5  | Letters and reports from other groups, LS incoming |                    |
|    | 5.1 From other TSGs                                | 141, 143, 145      |
|    | 5.2 From outside 3GPP                              | 142                |
| 6  | WG T1 Mobile Terminal Conformance Testing          | 110, 111           |
|    | 6.1 Progress report/ meeting calendar              |                    |
|    | 6.2 Liaison Statements to TSG-T                    |                    |
|    | 6.3 Approval of Deliverables (TS/TR)               | 113                |
|    | 6.4 Work programme review of WG T1                 | 107                |
| 7  | WG T2 Mobile Terminal Services and Capability      | 114-129            |
|    | 7.1 Progress report/ meeting calendar              | 120, 121, 112      |
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|    | 7.3 Approval of Deliverables (TS/TR)               | 146                |
|    | 7.4 Work programme review of WG T2                 | 108, 140           |
| 8  | WG T3 USIM   | 130, 131           |
|    | 8.1 Progress report/ meeting calendar              |                    |
|    | 8.2 Liaison Statements to TSG-T                    |                    |
|    | 8.3 Approval of Deliverables (TS/TR)               |                    |
|    | 8.4 Work programme review of WG T3                 | 109                |
| 9  | TSG-T Work Plan/ Co-ordination with TSG-SA         |                    |
| 10 | Liaison Statements (LS) outgoing                   |                    |
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|    | 10.2 LS to outside 3GPP                            |                    |
| 11 | Future meeting schedule                            | 106                |
| 12 | Any Other Business                                 | 112, 134, 135      |
| 13 | Close of the meeting                               |                    |

## List of Documents

NUMBER	TITLE	SOURCE	Agenda Item
TP-99105	Agenda for TSG-T#4, Miami 17-18 June 1999	T Chairman	2
TP-99106	3GPP, SMG & EP UMTS Meeting Calendar (status 20 May 1999)	T Secretary	11
TP-99107	T1 work programme BEFORE meeting T#4, June 1999	T Secretary	6.4
TP-99108	T2 work programme BEFORE meeting T#4, June 1999	T Secretary	7.4
TP-99109	T3 work programme BEFORE meeting T#4, June 1999	T Secretary	8.4
TP-99110	DRAFT Report from T1 Plenary Meeting #3, Miami 14-16 June 1999	T1	6
TP-99111	Funding for development of 3GPP TTCN specifications	T1	6
TP-99112	Local Network for 3GPP Meeting	T2	6
TP-99113	TS 34.121 V1.0.0 "Technical Conformance specification, Radio Transmission and Reception (FDD)	T1	
TP-99114	Proposed outline Liaison statement to other WGs on Service Capabilities	T2 WG6	6
TP-99115	LS: Clarification required for "global roaming" and "global circulation"	T2	6
TP-99116	3G TS 23.057 V1.1.0 - Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	T2	6
TP-99117	T2 work program (status after T2#4, Miami )	T2	6
TP-99118	3G TS 27.007 V2.0.0 - AT command set for 3GPP User Equipment (UE)	T2	6
TP-99119	3G TS 27.010 V2.0.0 - Terminal Equipment to Mobile Station (TE-MS)	T2	6
TP-99120	TSG-T2 Progress Report	T2	7,1
TP-99121	Report of TSG-T2 (Services and Capabilities)	T2 Chairman	7
TP-99122	3G TR 34.925 V2.0.0 - Specific Absorption Rate (SAR) requirements and regulations in different regions	T2	7
TP-99123	3G TS 34.907 V1.0.0 - Report on electrical safety requirements and regulations	T2	7
TP-99124	3G Change Requests	T2	7
TP-99125	3G TS 23.042 V2.0.0 - Compression algorithm for text messaging services	T2	7
TP-99126	3G TS 23.040 V2.0.0 - Technical realization of the Short Message Service (SMS); Point-to-Point (PP)	T2	7
TP-99127	3G TS 23.038 V2.0.0 - Alphabets and language-specific information	T2	7
TP-99128	3G TS 23.039 V2.0.0 - Service Centres (SMSCs) to Short Message Entities (SMEs)	T2	7
TP-99129	3G TS 27.005 V2.0.0	T2	7
TP-99130	T3 status report	T3 chairman	8
TP-99131	LS from T3 on Application Identifiers	T3	8
TP-99132	Draft LS to PCG on funding for USIM testing	T3 Chairman	
TP-99133	Request for guidance on Harmonised Regulatory Standards for 3GPP Terminals		
TP-99134	Impact of OHG harmonization recommendation on UTRA/FDD and UTRA/TD	T2	
TP-99135	Harmonized Global 3G (G3G) Technical Framework for ITU IMT-2000 CDMA Proposal	T2	
TP-99136	LS to TSG-SA on Request for funding of USIM testing	T	
TP-99137	LS to TSG-SA on Funding for development of 3GPP TTCN specifications	T	
TP-99138	LS to TSG-SA on Request for guidance on Harmonised Regulatory Standards for 3GPP Terminals	T	
TP-99139	LS to 3GPP Organisational Partners (OP) on Clarification required for "global roaming" and "global circulation"	T	
TP-99140	SMG work items transferred to T2 at TSG SA#3	T Secretary	7.4
TP-99141	LS from N3 to N1 on "UMTS Call Control and Session Management"	N3	5.1
TP-99142	A Guide to the production of candidate Harmonized Standards for application under the R&TTE Directive	ETSI TC ERM	5.2
TP-99143	Revised version of 3G Security: Integration Guidelines	SA3	5.1
TP-99144	Draft summary minutes, decisions and actions from 3GPP Organizational Partners Meeting#1, Seoul, 27-28 May 1999	Chairman	4
TP-99145	Proposal for 3G and SMG Specification Handling	3GPP support	

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**3GPP  
TSG-T meeting #4  
Miami / Florida (USA), 17-18 June 1999**

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## Status of TSG-T Specifications after TSG#4

Reference	Title	Status	Target v.3.0.0	Rapporteur
<b>T 1/Signalling (Convenor: Daniel FOX, ANRITSU)</b>				
DTS/TSGT-01MS-ICS_U	Mobile Station (MS) Protocol/RF/EMC conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (3G TS 11.110-2)	v.0.0.1	17-12-1999	Shicheng HU
DTS/TSGT-01MS-ATS_U	Mobile Station (MS) protocol conformance specification; Part 3: Abstract Test Suites (ATS)	v.0.0.0	24-12-2001	Shicheng HU
DTS/TSGT-01MS-CS_U	Mobile Station (MS) protocol conformance specification; Part 1: Protocol conformance specification	v.0.0.0	01-04-2000	Lidia SALMERON
<b>T 1/EMC (Chairman: John FENN, SAMSUNG)</b>				
DTR/TSGT-01EMC_U	Electro-Magnetic Compatibility (EMC) for terminal equipment	v.0.0.1	17-12-1999	Kiyohito NAGATA
<b>T 1/RF (Chairman: Mitsuru YOKOYAMA, HP)</b>				
TS 34.109	Logical Test Interface (FDD) Note: inconclusive BER/FER issues to be discussed with RAN4	v0.2.0	17-12-1999	Mitsuru YOKOYAMA
DTS/TSGT-01LTIT_U	Logical Test Interface (TDD) Note: FDD & TDD to be merged in July 99.	v0.2.0	17-12-1999	Mitsuru YOKOYAMA
TS 34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	v1.0.0	17-12-1999	Mitsuru YOKOYAMA
TS 34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	v0.0.0	17-12-1999	Mitsuru YOKOYAMA
<b>T 2/ SWG1 Execution Environment (Chairman: Mark CATALDO, Motorola)</b>				
TS 23.057	MExE R98 GSM 03.57	v.1.1.0	??-??-????	Mark CATALDO
<b>T 2/ SWG2 Terminal Interfaces (Chairman: Lars NOVAK, Ericsson)</b>				
TS 27.005	Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	V3.0.0		Friedhelm RODERMUND
TS 27.007	AT command set for 3GPP User Equipment (UE)	V3.1.0		Friedhelm RODERMUND
TS 27.010	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	V3.1.0		Friedhelm RODERMUND
<b>T 2/ SWG3 Messaging (Chairman: Arthur GIDLOW, One2One)</b>				
TS 23.038	Alphabets and language-specific information	V3.1.0		
TS 23.039	Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)	V3.0.0		
TS 23.040	Technical realization of the Short Message Service (SMS); Point-to-Point (PP)	V3.1.0		
TS 23.042	Compression algorithm for text messaging services	V3.0.0		
<b>T 2/ SWG4 Services End to End Interworking</b>				
<b>T 2/ SWG5 Multi-mode Terminals (Chairperson: Sofi PERSSON, Telia)</b>				
DTR/TSGT-02MmT1U	Multi-mode terminal issues	v.0.2.0	08-10-1999	Sofi PERSSON
<b>T 2/ SWG6 Terminal Features and Performance (Chairman: Kazuya HASHIMOTO, NEC)</b>				
TR 34.925	Specific Absorption Rate (SAR)	v.3.0.0		Sven JOHNSSON
TR 34.907	Electrical safety requirements and regulations	v.1.0.0	17-12-1999	Eiji IIMORI
TR 21.904	Terminal Capability requirements	v.0.0.3	17-12-1999	
<b>T 3/ USIM (Chairman: Klaus VEDDER, Giesecke &amp; Devrient)</b>				
TS 21.111	USIM and IC Card Requirements	v.3.0.0		Günter MARINGER
TS 31.101	UICC physical and logical characteristics	v.0.5.0	08-10-1999	Rune LINDHOLM
TS 31.102	USIM characteristics	v.0.5.0	08-10-1999	Makoto.KOBAYASHI Christian HEIM

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## History

<b>Document history</b>	
<b>24 June 1999</b>	DRAFT dispatched by e-mail exploder and put on the server for TSG-T comment: <a href="ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_04/Report/">ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_04/Report/</a>  Comments, if any, to be addressed to:  <b>Mr Adrian ZOICAS, 3GPP TSG-T Secretary</b> ETSI Secretariat Tel :+33 (0)4 92 94 42 21 e-mail: <a href="mailto:adrian.zoicas@etsi.fr">adrian.zoicas@etsi.fr</a>
<b>7 October 1999</b>	Report approved without change at TSG-T#5, Kyongju, Korea