

Technical Specification Group Terminals
Meeting #10, Bangkok, 6-8 December 2000

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3GPP TSG T WG1 #8
Redondo Beach, CA, USA
16-17 November 2000



DRAFT Report from the 3GPP TSG T WG1 #9 Plenary Meeting

16-17 November 2000

Portofino Hotel and Yacht Club, Redondo Beach, CA, USA

Revision: 2

Chairman: Bjarke Nielsen

Secretary: Lidia Salmerón

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1 Opening of the meeting

The ninth TSG T1 Plenary meeting was held on 16 to 17 November in Redondo Beach (CA, USA) and was hosted by “The North American Friends of 3GPP”.

Mr Nielsen opened the meeting at 9.30 am and thanked the host.

Mr Sood requested a clarification on the procedure of the scheduling of meetings. Some meetings are postponed just two or three days before the original plan what cause a waist of resources. Mr Fox said that this is because at the moment of issuing the agenda not many documents were available, but at the end many late documents arrived. Mr Schulze noted that the paperless meeting rules (included in PRD-01) clearly specified that documents shall be available some days before the meeting. Mr Nielsen thinks that the chairman shall estimate how many inputs there will be in the meeting and plan the duration of the meeting in advance.

2 Adoption of the agenda

The original agenda in **T1-000229** was approved.

3 Registration of input documents

The documents were allocated to the agenda as indicated in Annex B.

Mr Nielsen said that during the next T1 meeting, elections of T1 chairman and vice-chairman will be held.

The next meeting will be hosted by Qualcomm in Munich. Mr Nielsen informed that the intention is to have a wireless meeting. Delegates are asked to bring their own wireless cards.

AP 9.1: MCC to provide guidelines for wireless LAN cards (which cards to purchase).

4 Approval of the minutes from last meeting

The report from the last T1#8 meeting (Naantali) can be found in Tdoc **T1-000230**. This report was approved on the e-mail reflector. The table below contains the status of the actions points from last meeting as well as the new actions points resulting from this meeting:

AP Description	Status	Comments
All: To send contributions about the different regulatory situations	Open	Only received from Japan
All: To provide information about how testing is handled in 3GPP2.	Closed	SA advised that they will be the interface with 3GPP2.
SWG chairmen: To check 21.905 to see what new	Closed	RF will present some documents.

vocabulary is needed		
AP7.1: The chairmen of the T1 and Subgroups will come together with the SMG7 chairman to discuss the level of overlapping between the SMG7 and T1 specifications	Closed	These was treated at the last TSG meetings. Some input during this meeting
AP7.7: T1/Sig to present a proposal for the next T1 meeting on how to perform the validation of test cases.	Closed	This was discussed during last meeting
AP8.1: Mr Nielsen will ask T for some guidance on this issue of testing higher layer applications.	Closed	
AP8.2: Mr George will meet with the subworking group chairmen to try to add some detail to the work plan. He will produce a report for the T meeting.	Open	
AP8.3: Mr Nielsen to propose to T to transfer the work from T1/EMC to RAN4.	Closed	
AP8.3a: Mr Yokoyama volunteered to solve the 'Rate/Ratio' terminology problem.	Closed	Input at this meeting
AP8.4: Mr Nielsen to suggest to T the approval of 34.123-3 in February even if it is not 80% complete.	Closed	
AP8.5: Ms Salmeron to send the LS in T1-000128.	Done	
AP8.6: Ms Salmeron to send the LS in T1-000161.	Done	
AP8.7: Ms Salmeron to send the LS in T1-000163.	Done	
AP8.8: Anritsu will send out an invitation on the T1 reflector	Open	TSG T discussed the issue. The issue will be handle by the T1/Sig but the invitation needs to be sent.
AP8.9: Ms Salmeron to send the LS	Done	
AP8.10: Ms Salmeron to send the LS.	Done	
AP8.10a: Mr Nielsen will send the call for candidates for the RF SWG chairman	Done	
AP8.11: Mr Fox to include TTCN version control in the agenda for the next T1/Sig meeting.	Open	Some off-line discussion but no conclusion yet. This will be treated at the next T1/Sig meeting
AP8.12: Mr Fenn to prepare cover sheet for presentation of 34.926 to T.	Done	
AP 9.1: MCC to provide guidelines for wireless LAN cards (which cards to purchase).		
AP9.2: Ms Salmeron include all the action points in the table.		
AP9.3: Mr Nielsen to have further discussions with the chairman of GCF		
AP9.4: MCC to send the final version of the meeting schedule on the e-mail reflector at the end of next week.		
AP9.5: Ms Salmeron to created PRD-06 with the work item sheets.	Done	
AP9.6: T1/sig to discuss the issue of testing of high layer features and applications at the next meeting.		
AP9.7: Ms Salmeron to send the LS in T1-000278.	Done	
AP9.8: Ms Salmeron to get cover sheet for presentation from Mr Fenn and to change the cover page to Rel 4.	Done	
AP9.9: T1/Sig to provide a plan for prose and TTCN tests for Rel 4 and Rel 5		
AP9.10: Mr Hu to provide the available TTCN test cases for the TSG#10 meeting.		
AP9.11: MCC and T1/Sig to propose a version numbering system for the TTCN specification.		
AP9.12: Mr Fox and Mr Hu to discuss the number of mm necessary to cover the voluntary contributions and maintenance of TTCN and send conclusion to the e-mail reflector.		
AP9.13: Ms Salmeron to send the LS T1-000272r1 to GERAN4.	Done	
AP9.14: MCC to produce a draft table as described in the report on verification of TTCN test cases.		

AP9.15: R&S to write LS to T1/Sig on problematic with demodulation of BCH in Block STTD mode.		
AP9.16: Mr Yokoyama to send LS in T1-000266 to the contact person in ARIB. Ms Salmeron to modify header to include T and RAN as cc and send it.		
AP9.17: Ms Salmeron to send the LS in T1-000265.	Done	
AP9.18: Subgroups to check references in TR 34.910 and report to the chairman.		

AP9.2: Ms Salmeron to include all the action points in the table.

5 Incoming LS's

T1-000231: LS from RAN2 on Response to LS (T1-000128) on Number of PRACHs to be supported by RRC test cases

This is a response to a LS to RAN2 to reduce the number of PRACH that the system simulator has to support two PRACH in order to simplify the implementation of the SS. RAN2 agreed with this. The LS was noted.

T1-000232: LS from RAN2 on Response to LS (T1R000093R) on Reconfiguration of power control parameters during test

This document was discussed by T1/RF in Tokyo. RAN2 confirms that T1/RF assumptions are right. The LS was noted.

T1-000271: LS from GCF on Application on external devices

The Chairman of GSM Certification Forum and EICTA CCIG and the T1 chairman will initiate discussion between TSG T1 and GCF on the topic of interoperability test for the next generation terminals. Mr Nielsen thinks that T1 shall have a close relation to GCF.

The GCF also recognised that there is a problem with interfaces to external devices and they will like to participate on the discussions on the topic. At the moment it is not clear how to deal with it.

AP9.3: Mr Nielsen to have further discussions with the chairman of GCF.

6 Time schedule for next meetings

The time schedule is presented in Tdoc **T1-000277**. The document proposes to change the date of the next T1 to the 5-9 February 2001, due to clashing with the GSM World Congress and RAN4 meeting. As this date will suppose extra travelling for the Japanese delegates, it was suggested to swap the original date of T1 with the GERAN4 meeting (that is meeting the following week). This proposal will be made to GERAN4 and the conclusion will be circulated on the e-mail reflector. Some editorial corrections were corrected in **T1-000317**.

Mr George noted that the T1 meeting for November 2001 clashes with Thanksgiving day in USA. This meeting will have to be changed.

AP9.4: MCC to send the final version of the meeting schedule on the e-mail reflector at the end of next week.

At this point, Mr Fox expressed his concern about the delay introduced in the update of the test specifications according to the core specifications due to the rule of no WG meeting two weeks before the TSG meetings. We would like TSG T to understand that nobody is responsible for this “natural” delay in having the test specification.

7 IGC status and TSG-T1 work plan, status and path forward

T1-000235: Work plan for Rel4 and Rel5

This initial work plan was revised by Mr George (vice-chairman). The revised version is included in Tdoc **T1-000279** as “Work_Plan_3GPP_001109_r1_T1”.

T1-000279: Draft of work items description for Rel 4

The main changes in the revised work plan is that the conformance test aspects, related to each feature, are collected into a single building block. Each building block has the title ‘Conformance Test Aspects –’ followed by the title of the parent feature. The Work Tasks going into the Conformance Test Aspects building blocks then correspond to the other UE related work items under the parent feature.

Mr George explained that the work plan is not a formal document (i.e. no CR is needed to change the content). The latest version of the work plan will be input and revised at every meeting.

The meeting felt necessary to have an ad-hoc meeting to work in this work plan, but no date was proposed. Mr Fox thinks that the inclusion of Supplementary Services shall be discussed in the ad-hoc meeting.

T1-000279 also contains a first draft of all the work item cover pages. They have been organised in BB (Building Block) and WT (Work Task). Different colours indicate the approval status of the individual work items. The work item description of a BB does not have any work to be done, only serves to collect a set of related WT. Mr Georges noted that for the moment the work items do not include the 4 supporting companies.

Mr Nielsen noted that this document it is very important for us since it reflects what we will be doing for the next release. The document shall be revised by the subgroups. Companies supporting a work item shall contribute actively. This is a tool to determinate what we can do and the resources that we have.

This information will be kept in a Permanent Reference Document (PRD-06) that will be stored on the T1 server and will be update at every T1 plenary.

8 Discussion on the Establishment of a new SWG for testing of higher layer features and applications (MExE, LCS,...)

T1-000278: Proposed LS to TSGs T2, SA1, SA2 and SA4 regarding conformance test requirements for application layer test

Mr George presented the LS. T1 would like some clarification on who is responsible for some new work items in Rel-4 that require additional signalling in the layers above layer 3 (application layer); for example facsimile, OSA, MExE, etc. Three different solutions are proposed in the LS. For the moment, T1 assumes that these items will be addressed by the TSGs responsible for the core specifications unless TSG T1 is specifically requested to take on the task.

Mr Schulze (Mannesmann) said that from the operator point of view they are in favour of having high layers testing.

Mr Mattisson (Ericsson) thinks it would be efficient if the tests are developed by the groups having the expertise in the different areas, but there is a risk that the testing does not get the necessary attention in those groups.

Siemens thinks that it is a good idea to have these test cases but in some areas, for example for IP, it may be difficult to develop them.

From the point of view of the test equipment manufacturer (Anritsu), to have these test cases developed in other group can be a problem, since they normally have less resources to attend different meetings.

Mr George said that first we have to consider if these features need testing and if they don't, which are the implications.

Mr Hu thinks that many applications also need some additional lower layer conformance testing (e.g. IP multimedia service). Additionally, in order to test application layer, we should consider to use TTCN3. Mr George agreed that maybe these test cases have to be considered in a different way to the actual system simulators.

DoCoMo thinks that these test cases should not be considered interoperability test but voluntary tests and therefore should be included in another specification. Mr Nielsen said that the classification of the test cases is not clear at this moment.

DoCoMo and Ericsson suggested to allocate some time for discussion at the next T1/Sig.

The LS was agreed.

AP9.6: T1/sig to discuss the issue of testing of high layer features and applications at the next meeting.

AP9.7: Ms Salmeron to send the LS in T1-000278.

9 Status reports

9.1 GERAN4 status report

Ms Salmeron presented the GERAN4 status report for information. The slides for presentation are included in **T1-000269** and the full report from last GERAN4 meeting is in **T1-000268**.

GERAN4 is now organised in four subgroups: RF, Signalling, GPRS and EDGE. The subgroups meet during two or three days at the beginning of the week and the plenary takes place the last two days of the week.

The last meeting was focused in the inclusion of some new test for EDGE and SOLSA, the introduction of PCS 1900 in several test areas and corrections to existing tests. GERAN4 is actually working in the update of the PICS for Rel 4. GERAN4 had questions in the responsibility of intersystem handover tests.

9.2 TSG-T1/EMC status report

The report from the T1/EMC meeting is in **T1-000234**. As no delegate from the group was present, Mr Nielsen presented the document. The T1/EMC meeting had its last meeting in Japan and finished all their work items, proposing to close the group and transfer the specifications to RAN4 for maintenance. The document was noted.

Mr Nielsen thanked the EMC subgroup for their effort and their work.

- **34.124**

The EMC subgroup presented its last CR to this specification in **T1-000320**. The CR was approved.

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.124	004		R99	Editorial modifications for purposes of clarification.	D	3.1.0	3.2.0	T1-000320

- **34.926**

T1-000274: TR 34.926 for approval as v2.0.0

This document contains the “Electromagnetic compatibility (EMC) Table of International requirements for Mobile terminals and ancillary equipment”. The document shows in

tabular form most of the current regulatory and voluntary requirements by region or nation, and is for information purposes only.

It was noted that no cover page for presentation was provided with this document. The document was approved as v2.0.0 to be presented for approval as v4.0.0. It was noted that this a Rel 4 document, and not a R99 one, as it is stated in the cover page.

AP9.8: Ms Salmeron to get cover sheet for presentation from Mr Fenn and to change the cover page to Rel 4.

8.3 TSG-T1/Sig status report

T1-000312 contains the report and it was presented by Dan Fox.

T1/Sig has meet twice since the last T1 meeting. The main issues treated are:

- TTCN implementation (ASP and PCO definitions, sending/receiving on frame and sequence numbers, agreement of modular structure of the ATS),
- ciphering and integrity were made optional and a new PICS is used,
- applicability of Radio Bearers to PS,
- agreement of EMMI,
- PRACH selection testing and other pseudorandom procedures (T1/Sig only test functionality, not randomness).

Mr Fox reported that the progress with TTCN test cases is good, nevertheless there is some delay and lack of voluntary contributions.

Mr Sood (Sharp) objected, that in his opinion, not enough discussion has been held in T1/Sig about EMMI. Mr Fox thinks that enough discussion was held in the Naantali meeting where it was agreed to raise a CR on the EMMI (included in **T1-000276**). Sharp and MCI requested to postpone the CR until some more discussion have been held, but Mr Hu said that he would like to have the issue agreed as soon as possible since this affect the progress of the TTCN.

It was clarified that EMMI can also be used for RF tests, although for the actual RF tests, this feature it is not required. EMMI is mandatory for the System Simulator but optional for the UE.

And ad-hoc meeting was held during Thursday evening to try to reach an agreement. The report of this ad-hoc is included in **T1-000321**. Mr Sood objected to some of the wording of this report and the document was revised on line in **T1-000322** and agreed. This document is included as annex C of this report. As conclusion of this report, the meeting conclude to defer the approval of the LS in **T1-000276**.

- **34.108**

Eleven CRs were presented for approval. All the CRs were approved and were assigned the CR number indicated in the tables below.

CRs Requiring special attention:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.108	021		R99	Common generic procedure for AS testing	B	3.1.0	3.2.0	T1-000294
34.108	022		R99	Requirements for the system simulator for support of Tcell parameter	F	3.1.0	3.2.0	T1-000303
34.108	023		R99	Minimum Performance Levels	F	3.1.0	3.2.0	T1-000306
34.108	024		R99	Downlink signal conditions and propagation conditions	D	3.1.0	3.2.0	T1-000307
34.108	025		R99	Updating 34.108 v3.1.0 to TDD single mode	F	3.1.0	3.2.0	T1-000281
34.108	026		R99	Application of integrity mode protection to signalling message by default	F	3.1.0	3.2.0	T1-000296

Note: For T1-000296, there is an equivalent CR for 34.123-1 in T1-000297.

CRs with routine updates:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.108	027		R99	Updates to the default message contents in clause 9	C	3.1.0	3.2.0	T1-000282
34.108	028		R99	Updates to System Information Block (SIB) and Master Information Block (MIB) messages	C	3.1.0	3.2.0	T1-000283
34.108	029		R99	Application of ciphering during conformance testing	C	3.1.0	3.2.0	T1-000285
34.108	030		R99	Addition for System Information parameters (34.108 clause 6.1)	F	3.1.0	3.2.0	T1-000304
34.108	031		R99	Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.1.0	3.2.0	T1-000305

Post-meeting note: T1-000285 corresponds to CR to 34.108 and T1-000286 corresponds to CR to 34.123-1. This information is wrong in the T1/Sig report.

- **34.123-1**

Fourteen CRs were presented for approval. All the CRs were approved and were assigned the CR number indicated in the tables below.

CRs Requiring special attention:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.123-1	034		R99	Application of integrity mode protection to signalling message by default	F	3.1.0	3.2.0	T1-000297
34.123-1	035		R99	New test cases for CS intersystem handover	B	3.1.0	3.2.0	T1-000300
34.123-1	036		R99	CR to 34.123-1, Annex B, Mapping of test cases to core specification versions	D	3.1.0	3.2.0	T1-000319

Notes:

T1-000300: CR needed for 34.123-2 for the next meeting. This document includes GSM to UTRAN test cases. Although it has been recommended that these test shall be responsibility of GERAN4, they are include here until decision from GERAN4. A related LS in included in document **T1-000272**.

T1-000287 (CR to 34.123-1 on Mapping of revisions of core specifications supported by prose test cases): DoCoMo noted that the version number for MM was not right. This entry was deleted and the CR was revised in **T1-000319** and agreed.

CRs with routine updates:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.123-1	037		R99	Application of ciphering during conformance testing and changes to integrity mode protection related messages	C	3.1.0	3.2.0	T1-000286
34.123-1	038		R99	Idle Mode test cases in chapter 6	F	3.1.0	3.2.0	T1-000288
34.123-1	039		R99	Update to RLC test cases	F	3.1.0	3.2.0	T1-000301
34.123-1	040		R99	Technical Corrections to RRC test cases in clause 8	F	3.1.0	3.2.0	T1-000292
34.123-1	041		R99	Updates to clause 8 and Annex A due to RAN2 core specifications modifications	C	3.1.0	3.2.0	T1-000293
34.123-1	042		R99	Editorial modification for CC test cases (Clause 10)	D	3.1.0	3.2.0	T1-000289
34.123-1	043		R99	Update of radio bearer test cases	F	3.1.0	3.2.0	T1-000290
34.123-1	044		R99	Update of Session Management test cases	B	3.1.0	3.2.0	T1-000298
34.123-1	045		R99	Modification to the "Authentication rejected by the UE" test case	F	3.1.0	3.2.0	T1-000308
34.123-1	046		R99	Update to 16. SMS test specification	F	3.1.0	3.2.0	T1-000309
34.123-1	047		R99	Correction to MM tests	D	3.1.0	3.2.0	T1-000310

Post-meeting note: T1-000285 corresponds to CR to 34.108 and T1-000286 corresponds to CR to 34.123-1. This information in the T1/Sig report is wrong.

Status of completeness: Still big amount of work expected for maintenance due to changes in the core specifications

Idle mode	100 %
Voice call functions	98 %
Circuit switched data and fax	100 % (all test cases are present)
Auto calling restrictions	100 % (all test cases are present)
SMS	100 % (all test cases are present)
GSM/3G (CS)	100 % (all test cases are present)
GSM/3G (PS + PS/CS)	0 %
Packet data	90 %

- **34.123-2**

Six CRs were presented for approval. All the CRs were approved and were assigned the CR number indicated in the tables below.

CRs with routine updates:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.123-2	001		R99	Update of Applicability statements for "Idle mode test cases"	F	3.1.0	3.2.0	T1-000280
34.123-2	002		R99	Update of applicability clauses for RLC test cases	F	3.1.0	3.2.0	T1-000302
34.123-2	003		R99	Update of Applicability Statements for RRC Test Cases	F	3.1.0	3.2.0	T1-000295
34.123-2	004		R99	Update of applicability statements for radio bearer test cases	F	3.1.0	3.2.0	T1-000291
34.123-2	005		R99	Update of applicability statements for Session Management test cases	B	3.1.0	3.2.0	T1-000299
34.123-2	006		R99	Update of Applicability statements for PACKET SWITCHED MOBILITY MANAGEMENT	B	3.1.0	3.2.0	T1-000284

- **34.123-3**

Mr Hu presented **T1-000311**, which contains an update in the TTCN status

Task 160 (prose) has finished its work with the elaboration of intersystem HO testcases.

Task 161 (TTCN): framework for FDD CS finished, 100 tests drafted by the end of November. Expected to have 240 by the end of the year.

In 2001 there will be 20 mm funding for 4-5 experts. The plan for 2001 is:

- TSG #11: 34.123-2 v1.0.0 including FDD CS tests
- TSG #12: 34.123-2 v2.0.0 including CS and PS tests.
- Needing voluntary contributions for SM, Intersystem HO and combined CS + PS

It was clarified that this tests only cover R99 and that the funding received does not specified the release to be used for.

After TSG #12 no more drafting is planned. Some men/month are kept for maintenance. Mr Hu foresees that the work in Rel 4 TTCN cannot be started until one year after the prose test cases are available.

AP9.9: T1/Sig to provide a plan for prose and TTCN tests for Rel 4 and Rel 5

Mr Fox thinks that a lot of work is needed for the maintenance of the test cases due to changes in the core specifications. He thinks this should be reported to T.

At the moment it is not possible for T1 to estimate the number of test cases that will be validated at each TSG. T1 requested members to involve in the verification of tests.

Mr Nielsen was concerned about the fact that at the last T meeting it was promised to present v1.0.0 to the December meeting even if it was not 50% stable but it seems that the specification is not ready. Mr Hu said that at the moment they are not able to provide the 100 test cases due to changes in the core specifications and also because it is taking longer than estimated to get an agreement in the ASP and PCO definitions. Also it was found that some key pieces in the core specifications were missing. The meeting agreed to postpone V1.0.0 to March and version 3.0.0 to June. The available test cases will be made available at the next T meeting, though.

AP9.10: Mr Hu to provide the available TTCN test cases for the TSG#10 meeting.

Mr Fox thinks that the version numbering that applies to prose specifications does not properly suit the TTCN specification. This will be considered at the next T1 meeting.

AP9.11: MCC and T1/Sig to propose a version numbering system for the TTCN specification.

At this point, Mr Schulze expressed his concern about the risk of not having any tests for intersystem handover if no voluntary contributions are done. He thinks that this test cases are very important and the availability of them must not depend on voluntary contributions. Mr Fox agreed with him and said that voluntary contributions are not very likely to be received, we have asked for them and nothing has happened so it is justified to ask for funding.

Mr Hu estimated that 9 mm are needed to cover the draft of all the tests expected from voluntary contributions and 4 mm for TTCN maintenance:

- TTCN maintenance: 4 mm
- SM test: 2mm
- PS+CS: 3mm
- Intersystem tests: 4mm

Mr Fox think that this number should be doubled. As no conclusion was reached during the meeting, the issue will be discussed on the e-mail reflector.

AP9.12: Mr Fox and Mr Hu to discuss the number of mm necessary to cover the voluntary contributions and maintenance of TTCN and send conclusion to the e-mail reflector.

The meeting concluded that Mr Nielsen will raise the issue of the funding of these test cases at the next T meeting.

- **LSs**

T1-000272: LS from T1 to G4 on handling of test cases for intersystem handover between GSM and UTRAN

T1 informs G4 that test cases for intersystem handover GSM-> UTRAN have been included in 34.123-1 for the moment, until G4 gives some guidance.

Mr Yokoyama asked if the same principle applies to the RF tests. No clear answer was given. Some guidance will be requested to RAN4.

The contact person was added to the header and the revised version (T1-000272r1) of the LS was agreed.

AP9.13: Ms Salmeron to send the LS T1-000272r1 to GERAN4.

- **Verification of TTCN**

T1-000316: Report form an ad hoc meeting to advise TSG T1 on how TTCN test cases should be verified

This is the report of an ad-hoc held at the last T #9 meeting. The document is presented by Mr George for information.

The report suggests to use the term “verification” (i.e. to check that the TTCN accurately reflects the contents of the prose) instead of “validation” (i.e. proving that a test system running the TTCN test cases accurately checks conformance to the core specification). At the ad-hoc meeting it was felt that trying to verify or validate test cases it is going beyond what it is normally done with prose specifications. Nevertheless, it was recognised that the industry would naturally start to use these test cases as soon suitable platforms were available to run them. T1 should therefore informally facilitate and encourage the submission of test results from these trials. T1 would then maintain and publish a register

of how many positive or negative inputs have been received for each test case. This would then act as a quality indicator to anyone subsequently planning to use them.

The document was noted.

AP9.14: MCC to produce a draft table as described in the report.

9.4 TSG-T1/RF status report

Mr Yokoyama presented the report from the T1/RF subgroup included in document **T1-000267**.

T1/RF has met twice since the last T1 meeting. The main discussions during these meetings were: the update of the test specifications, vocabulary check, total test time optimisation and measurement uncertainty.

- **34.121**

Eighteen CRs were presented for approval. All the CRs were approved and were assigned the CR number indicated in the tables below.

CRs due editorial changes only:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.121	038		R99	Corrections to Chapter 3 "Definitions, symbols, abbreviations and equations"	D	3.2.0	3.3.0	T1-000247
34.121	039		R99	Vocabulary Corrections	D	3.2.0	3.3.0	T1-000253

CRs due to changes of the core specifications:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.121	040		R99	Reference Measurement Channels in Annex C	F	3.2.0	3.3.0	T1-000238
34.121	041		R99	Inclusion of OCNS definition for performance tests	F	3.2.0	3.3.0	T1-000241
34.121	042		R99	Handling of measurement uncertainties in UE conformance testing (FDD)	F	3.2.0	3.3.0	T1-000250
34.121	043		R99	Update of Idle mode test cases	F	3.2.0	3.3.0	T1-000252
34.121	044		R99	UE emission mask measurement filter definition correction	F	3.2.0	3.3.0	T1-000254
34.121	045		R99	New structure of TS 34.121	F	3.2.0	3.3.0	T1-000255

CRs on modifications of test specifications (including due to changes of core specifications):

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.121	046		R99	Test for combining TPC commands in soft handover	F	3.2.0	3.3.0	T1-000239
34.121	047		R99	Corrections to power control tests	F	3.2.0	3.3.0	T1-000240
34.121	048		R99	Correction to Open Loop Power Control in Uplink	F	3.2.0	3.3.0	T1-000242
34.121	049		R99	Correction to Transmit ON/OFF Time mask	F	3.2.0	3.3.0	T1-000243r

34.121	050		R99	Correction to Spurious Emission test	F	3.2.0	3.3.0	T1-000244
34.121	051		R99	Correction of spurious emission measurement procedure	F	3.2.0	3.3.0	T1-000245
34.121	052		R99	Out-of-synchronization handling of output power	F	3.2.0	3.3.0	T1-000246
34.121	053		R99	Clarification of test procedure and test requirement for receiver blocking and spurious response.	F	3.2.0	3.3.0	T1-000248
34.121	054		R99	Subclause 7.8 Power control in downlink	F	3.2.0	3.3.0	T1-000249
34.121	055		R99	Downlink compressed mode	F	3.2.0	3.3.0	T1-000251

Note: T1-000243 was revised in T1-000243r.

Status of completeness

Work to be done in the measurement uncertainty and test limit issue and in the RRM section. Detailed information can be found in **T1-000270**.

Main issues

- Test Tolerance / Combines Uncertainty / Measurement uncertainty: For T1/RF is difficult to decided the final test limit. The calculation method is agreed but the final decision will be made after the RAN4 review. LS sent to RAN4 in **T1-000263** and **T1-000264**. Confusion in the time schedule for the definition of these values, LS sent to ARIB/ETSI in **T1-000266**.
- Total Test Time: The discussion has focused in those test case with longer duration. No concussion reached yet. Also some discussion in the Number of block to be tested in Block Error Ratio measurements
- Vocabulary review: LS agreed in **T1-000265**.
- Low battery test: This issue is waiting for T1/Sig information. During the meeting it was explained that this was discussed in the Harpenden T1/Sig meeting. Nokia proposed not to include the Low battery tests because the existing GSM Low battery tests are very difficult to implement and this was agreed. A LS was sent to RAN4 and it will be treated in the following weeks. For the moment, we wait for RAN4 answer. It must me mentioned that one operator was very concern about the no inclusion of these test cases.
- RRM section have been restructured but contributions are needed.

- **34.122**

Seven CRs were presented for approval. The CRs were approved and allocated the indicated CR number.

CRs due to changes in the core specifications:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
34.122	002		R99	Update of 34.122 according to RAN#9-approved CRs to 25.102	F	3.1.0	3.2.0	T1-000256
34.122	003		R99	Update according to former CRs to 25.102	F	3.1.0	3.2.0	T1-000257
34.122	004		R99	editorial corrections for: Global In-Channel TX- Test	D	3.1.0	3.2.0	T1-000259
34.122	005		R99	Handling of measurement uncertainties in UE conformance testing (TDD)	F	3.1.0	3.2.0	T1-000262

CRs on modifications of test specifications (including due to changes of core specifications):

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2 nd -Level
34.122	006		R99	Uplink Power control	F	3.1.0	3.2.0	T1-000258
34.122	007		R99	UE maximum output power multicode	F	3.1.0	3.2.0	T1-000260
34.122	008		R99	Out-of-synchronisation handling of output power	F	3.1.0	3.2.0	T1-000261

Status of completeness:

The core specifications are not completely finalised. Most of the work to be done in the RRM area. Detail in **T1-000314**.

Main issues:

- Few contributions
- BCH cannot be realised based on the current loopback scheme. More detailed information is included in **T1-000313**.
- Definition of Test Tolerance is included in CR in **T1-000262**
- Total test time, as in FDD.
- Core specifications for RRM are not finalised
- New chairman: Mr Yonekura from Fujitsu was endorsed new chairman of the T1/RF subgroup. The meeting welcomed the new chairman and thanked Mr Yokoyama for his work as chairman in T1/RF.

T1-000313: Demodulation of BCH in Block STTD mode

R&S presented the document. TS 34.122 shall include a test that requires a BLER test on the BCH using loopback, but the loopback is only defined for the DCH. Some new special test function is needed but it is not clear who shall develop this new function.

Mr Fox suggested that if we can use AM (acknowledge mode) we do not need to use the loopback. In this mode the UE will send ACK of packets that are correctly and incorrectly received. To calculate the BLER we can count the number of negative ACK. This possibility can be review in the next T1/Sig subgroup. R&S will prepare a LS to T1/Sig explaining the problem.

AP9.15: R&S to write LS to T1/Sig on problematic with demodulation of BCH in Block STTD mode.

If this solution cannot be implemented a detailed proposal will be elaborated for RAN2.

• **Liaison statements**

T1-000264: LS to RAN4 on determination of test tolerance

This LS has already be sent to RAN4 because it is a critical issue. In this LS, T1/RF informs RAN4 that they are able to calculate combined value and direction of the total measurement uncertainty for each test but it is not able to determine the related value for the test tolerance since such a determination has to be based on system performance evaluations. RAN4 is asked to determine the test tolerance for each test taking into account the overall system performance. The LS was noted.

T1-000263: LS to RAN4 on Test Tolerance determination

This LS has already be sent to RAN4. In this LS, T1/RF proposed to RAN4 a program to determine the test tolerance. The LS was noted.

T1-000266: Draft LS on Urgency of resolving the measurement uncertainty in 34.121

This is a draft LS to ETSI/TFES and ARIB. The LS was agreed to be sent. The LS will also be sent to T and RAN (as cc).

AP9.16: Mr Yokoyama to send LS in T1-000266 to the contact person in ARIB. Ms Salmeron to modify header to include T and RAN as cc and send it.

T1-000265: Draft LS on TR 21.905: Vocabulary for 3GPP Specifications (revision of 233)

This LS proposes some vocabulary to be included in TR 21.905. The LS was agreed.

AP9.17: Ms Salmeron to send the LS in T1-000265.

10 Status of the List of priorities for SDO distribution - 34.910

T1-000273: TR 34.910 v0.1.0 for approval as v1.0.0

Mr Nielsen presented this new draft of the TR to be approved as v1.0.0 and to be forwarded to T for information. This TR contains a collection of test requirements for 3rd Generation Terminals identified for regulatory purposes in different regions/countries. For the moment, the document only contain contributions from Japan.

Mr Sood said that T2 made a report in Safety that can be referenced in this report.

Mr Hu suggested that T1/Sig shall study how to implement the requirement 1 in clause 5.2.3. Mr Nielsen agreed that this document shall be study by the subgroups.

Mr Mattisson noted that references to the specification may have become obsolete.

AP9.18: Subgroups to check references in TR 34.910 and report to the chairman.

The TR was approved as version 1.0.0 and will be forwarded to T for information. It was noted that this document belongs to Rel 4.

11 Status of GSM Certification Forum

T1-000236: Update presentation in GCF

Mr Schulze presented the document. Basically, GCF is an agreement between a group of manufacturer and operators to perform a set of test cases to the terminals in addition of some field trials. The participation in GCF is voluntary for both manufacturers and operators.

The GCF is organised in the “GCF Steering Group”, which takes decisions on budget, administration, testing, etc and the “Certification and Validation Agreement Group”, which does all the technical work.

The GCF Permanent Reference Documents are available for information in **T1-000318**.

Comments and Questions:

The web site is restricted to members and observers of the GCF.. GSM manufacturers and GSM operators (later also those for 3rd generation) are qualified for the membership. The observer status is limited to the industry involved in testing, i.e. test houses, test equipment manufacturers. Operators and manufacturers are only allowed to apply for membership and not for observers.

Is GCF recognised by the consumers? Are they aware of it?

The GCF has just started. New mobiles will be certified. Network operator will advertise the GCF as a way to ensure quality of the terminals. For the moment, terminals do not carry any badge identifying that pass the GCF.

MS manufacturers have to make a self declaration that it is sent to the GCF secretary (which indicates the features implemented and the version of the core specification). There is no technical check of the terminals, but there is some budget to select some MS arbitrarily and do some tests. If it fails, the issue resolution procedure is initiated.

GCF has used test of 11.10 that are validated and commercially available. If a manufacturer thinks that a test is needed, it shall go first to the standardisation organisation. GCF is not producing tests itself. It is foreseen that the work from T1 will be used for certification of UMTS terminals. Actually, it includes the former tests for European type approval plus some test for HSCSD and GPRS. The use of TTCN is not mandatory.

It was clarified that the GCF test are commercially available.

At the moment GCF is based on GSM only, therefore there are no requirements for other regions like Japan, etc. But it is planned to have a GCF for UMTS taking care of other regions.

Mr Schulze clarified that GCF is independent of the GSMA. For the 3rd Generation, they want to be globally recognised. It will not be a regional matter.

12 Postponed issues

The postponed issues are included in the relevant sections of this report.

13 Review of TSG-T1 status report to TSG-T

Mr Nielsen presented the first draft of his report to T. The meeting made some comments. Mr Nielsen will send a new version on the T1 reflector next week.

14 Any other business

Mr Nielsen informed the delegates that at the next meeting in February, elections will be held for chairman and vice-chairman of T1.

15 Closing of the meeting

Mr Nielsen closed the meeting at 12.50 on Friday.

Annex A. List of participants.

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Number of participants: 35

Annex B. List of documents

Tdoc	Title	Source	Agenda item	Revised	Status
T1-000229	Proposed agenda for T1-09	chairman			agreed
T1-000230	Draft report from T1-08	ETSI MCC	4		agreed
T1-000231	LS from RAN2 on Response to LS (T1-000128) on Number of PRACHs to be supported by RRC test cases	RAN2	5		noted
T1-000232	LS from RAN2 on Response to LS (T1R000093R) on Reconfiguration of power control parameters during test	RAN2	5		noted
T1-000233	Draft LS on TR 21.905: Vocabulary for 3GPP Specifications	T1/RF SWG		265	revised
T1-000234	report to T1 from T1 EMC MEETING IN TOKYO	T1 EMC, JOHN FENN	9b		noted
T1-000235	Work plan for Rel4 and Rel5	ETSI MCC	7	279	revised
T1-000236	Update presentation in GCF	Mannesmann	11		noted
T1-000237	New CR cover sheet (version 3)	ETSI MCC	4		noted
T1-000238	CR to 34.121 on Reference Measurement Channels in Annex C	T1/RF subgroup	9d		agreed
T1-000239	CR to 34.121 on Test for combining TPC commands in soft handover	T1/RF subgroup	9d		agreed
T1-000240	CR to 34.121 on Improvements to power control tests	T1/RF subgroup	9d		agreed
T1-000241	CR to 34.121 on Inclusion of OCNS definition for performance tests	T1/RF subgroup	9d		agreed
T1-000242	CR to 34.121 on Correction to open loop power control in uplink	T1/RF subgroup	9d		agreed
T1-000243	CR to 34.121 on Correction to Transmit ON/OFF Time mask	T1/RF subgroup	9d	243r	agreed
T1-000244	CR to 34.121 on Correction to Spurious Emission test	T1/RF subgroup	9d		agreed
T1-000245	CR to 34.121 on Correction of spurious emission measurement procedure	T1/RF subgroup	9d		agreed
T1-000246	CR to 34.121 on Out-of-synchronization handling of output power	T1/RF subgroup	9d		agreed
T1-000247	CR to 34.121 on Chapter 3 "Definitions, symbols, abbreviations and equations"	T1/RF subgroup	9d		agreed
T1-000248	CR to 34.121 on Clarification of test procedure and test requirement for receiver blocking and spurious response	T1/RF subgroup	9d		agreed
T1-000249	CR to 34.121 on subclause 7.8 Power control in downlink	T1/RF subgroup	9d		agreed
T1-000250	CR to 34.121 on Definition of test tolerances in UE conformance testing (FDD) test specifications	T1/RF subgroup	9d		agreed
T1-000251	CR to 34.121 on Downlink compressed mode	T1/RF subgroup	9d		agreed
T1-000252	CR to 34.121 on Idle mode performance test cases, clause 8.4	T1/RF subgroup	9d		agreed
T1-000253	CRs to 34.121 on Vocabulary Corrections	T1/RF subgroup	9d		agreed
T1-000254	CRs to 34.121 on UE emission mask measurement filter definition correction	T1/RF subgroup	9d		agreed
T1-000255	CRs to 34.121 on Impact of TS 25.133 restructuring on TS 34.121, clause 8	T1/RF subgroup	9d		agreed
T1-000256	CR to 34.122 on Update to former CRs	T1/RF subgroup	9d		agreed
T1-000257	CR to 34.122 on Update due to CRs from RAN#9	T1/RF subgroup	9d		agreed
T1-000258	CR to 34.122 on Output power control uplink	T1/RF subgroup	9d		agreed
T1-000259	CR to 34.122 on Editorial corrections on Global in Channel TX test	T1/RF subgroup	9d		agreed
T1-000260	CR to 34.122 on UE maximum output power multicode	T1/RF subgroup	9d		agreed
T1-000261	CR to 34.122 on 5.4.5. Out-of-synchronisation handling of output power	T1/RF subgroup	9d		agreed
T1-000262	CR to 34.122 on Definition of test tolerances in UE conformance testing (TDD) test specifications	T1/RF subgroup	9d		agreed
T1-000263	LS on Test Tolerance determination	T1/RF subgroup	9d		noted
T1-000264	LS on determination of test tolerance	T1/RF subgroup	9d		noted
T1-000265	Draft LS on TR 21.905:Vocabulary for 3GPP Specifications (revision of 233)	T1/RF subgroup	9d		agreed
T1-000266	Draft LS: Urgency of resolving the measurement uncertainty in 34.121	T1/RF subgroup	9d		agreed
T1-000267	T1/RF SWG Activity/Status Report	T1/RF subgroup	9d		noted
T1-000268	Report from GERAN4 #1	ETSI MCC	9a		noted
T1-000269	Slides for presentation of GERAN4 #1 report	ETSI MCC	9a		noted
T1-000270	Status report of 34.121	Adavantest	9d		noted
T1-000271	LS from GCF on Application on external devices	GCF	5		noted
T1-000272	LS from T1 to G4 on handling of test cases for intersystem handover between GSM and UTRAN	Mannesmann	9c	272r1	agreed
T1-000273	TR 34.910 v0.1.0 for approval as v1.0.0	Chairman	10		agreed
T1-000274	TR 34.926 for approval as v2.0.0	EMC subgroup	9b		agreed
T1-000275	CR to 34.124 on Editorial modifications for purposes of clarification.	EMC subgroup	9b	320	revised
T1-000276	Draft CR for TS 34.109 on EMMI	Ericsson	9c		deferred
T1-000277	Time schedule	Chairman	6	317	revised

Tdoc	Title	Source	Agenda item	Revised	Status
T1-000278	Proposed LS to TSGs T2, SA1, SA2 and SA4 regarding conformance test requirements for application layer test	Vice-chairman	8		agreed
T1-000279	Draft of work items description for Rel 4	Vice-chairman	7		noted
T1-000280	CR to 34.123-2	T1/Sig subgroup	9c		agreed
T1-000281	CR to 34.108 to updating TDD single mode	T1/Sig subgroup	9c		agreed
T1-000282	Update to clause 9 of TS34.108 (Due to RAN2 CR)	T1/Sig subgroup	9c		agreed
T1-000283	Update to clause 6.1 of TS34.108 (Due to RAN2 CR)	T1/Sig subgroup	9c		agreed
T1-000284	CR on TS 34.123-2 Clause 4, Applicability of GMM test cases	T1/Sig subgroup	9c		agreed
T1-000285	CR to 34.108 on Application of ciphering during conformance testing	T1/Sig subgroup	9c		agreed
T1-000286	CR to 34.123-1 on Application of ciphering during conformance testing and changes to integrity mode protection related messages	T1/Sig subgroup	9c		agreed
T1-000287	CR to 34.123-1 on Mapping of revisions of core specifications supported by prose test cases (TS 34.123-1 Annex B)	T1/Sig subgroup	9c	319	revised
T1-000288	CR to Idle Mode test cases in chapter 6 of 34.123-1	T1/Sig subgroup	9c		agreed
T1-000289	CR on CC tests of TS 34.123-1	T1/Sig subgroup	9c		agreed
T1-000290	CR to 34.123-1:Update of radio bearer test cases	T1/Sig subgroup	9c		agreed
T1-000291	CR to 34.123-2: Update of applicability statements for radio bearer test cases	T1/Sig subgroup	9c		agreed
T1-000292	CR to 34.123-1:Technical Corrections to RRC test cases in clause 8 (revised T1S-000220)	T1/Sig subgroup	9c		agreed
T1-000293	CR to 34.123-1:Updates to clause 8 and Annex A due to RAN2 core specifications modifications (revised T1S-000221)	T1/Sig subgroup	9c		agreed
T1-000294	CR to 34.108: Proper Definition of UE initial conditions for Access Stratum protocol testing (revised T1S-000226)	T1/Sig subgroup	9c		agreed
T1-000295	CR to 34.123-2: Update of Applicability Statements for RRC Test Cases (revised T1S-000230)	T1/Sig subgroup	9c		agreed
T1-000296	CR to TS 34.108: Application of integrity mode protection to signalling message by default	T1/Sig subgroup	9c		agreed
T1-000297	CR to TS 34.123-1: Application of integrity mode protection to signalling message by default	T1/Sig subgroup	9c		agreed
T1-000298	CR to 34.123-1: Update of Session Management test cases	T1/Sig subgroup	9c		agreed
T1-000299	CR to 34.123-2: Update of applicability statements for Session Management test cases	T1/Sig subgroup	9c		agreed
T1-000300	CR to 34.123-1: New test cases for intersystem handover	T1/Sig subgroup	9c		agreed
T1-000301	CR to TS34.123-1 section 7.2 RLC tests	T1/Sig subgroup	9c		agreed
T1-000302	CR to TS34.123-2 section 4 Applicability table for RLC tests	T1/Sig subgroup	9c		agreed
T1-000303	CR to TS34.108 section 4 Requirements for the system simulator for support of Tcell parameter	T1/Sig subgroup	9c		agreed
T1-000304	CR to 34.108 Correction for System Information parameters	T1/Sig subgroup	9c		agreed
T1-000305	CR to 34.108 Correction for Generic Setup procedure	T1/Sig subgroup	9c		agreed
T1-000306	CR to 34.108 Corrections to clause 4.2, minimum performance levels	T1/Sig subgroup	9c		agreed
T1-000307	CR to 34.108 Update to clauses 5.2, 5.3 and 5.4	T1/Sig subgroup	9c		agreed
T1-000308	CR to 34.123-1:GMM Authentication rejected by the UE	T1/Sig subgroup	9c		agreed
T1-000309	CR to 34.123-1:Update to SMS tests	T1/Sig subgroup	9c		agreed
T1-000310	CR to 34.123-1:Correction to MM tests	T1/Sig subgroup	9c		agreed
T1-000311	MCC Task 160 November Status report	MCC Task 160	9c		noted
T1-000312	T1/Sig status report	T1/Sig subgroup	9c		noted
T1-000313	Demodulation of BCH in Block STTD mode	R&S	9d		noted
T1-000314	34.122 Progress report	R&S	9d		noted
T1-000315	not used				
T1-000316	Report from an ad hoc meeting to advise TSG T1 on how TTCN test cases should be verified	Vice-chairman			noted
T1-000317	Revision of 277	chairman			noted
T1-000318	GCF Permanent Reference Documents v3.2.	Manesmann			noted
T1-000319	Revision of 287	T1/Sig subgroup			agreed
T1-000320	Revision of 275	EMC subgroup			agreed
T1-000321	Report from the ad-hoc meeting in EMMI	T1/Sig chairman		322	revised
T1-000322	Revision of 321	T1			agreed

Annex C. Report from the informal ad-hoc on EMMI

Report

Members of T1/SIG met for an ad-hoc meeting on the 16th November to review decisions made regarding the implementation and use of an electronic man-machine interface for the purposes of automated testing.

Background

Two proposals had previously been presented to T1/SIG (from Ericsson and subsequently Anritsu), and although much discussion had taken place, no resolution had been reached.

At the T1/SIG SWG in Nantaali, Finland, Rohde & Schwarz presented objections to the Anritsu proposal and support for following the Ericsson approach. This was agreed at the meeting.

However, it subsequently became obvious that there was widespread misunderstanding of the Ericsson proposal, and of the agreement reached, so this ad-hoc meeting was proposed to resolve the issue.

Result

The meeting was very informal, but the following resolution was reached:

The logical part of the interface; the definition of TTCN abstract service primitives (ASPs), the points of control and observation (PCO) and the use of AT commands were recognised to be critical for continuation of the production of TTCN test cases. These parts are already well defined and agreed. They are recognised as agreed, and will not be changed.

The physical part of the interface; the use of an RS232C port to allow adaptation of the AT commands will be discussed further on the T1/SIG reflector during December, together with other aspects of the EMMI interface, and a decision on this point deferred.

As only the latter part has any impact on the liaison statement to RAN2, it was decided to defer discussion on the LS until the next T1 meeting. This deferral was agreed on the understanding that any alternative solution would not place any mandatory requirements on UE implementations.

Annex D. Proposed Meeting Schedule for TSG-T1

2000

3GPPT-#10	6 -8 Dec	Bangkok (Thailand)	
3GPPSA-#10	11 - 13 Dec	Bangkok (Thailand)	

2001

3GPPT1-/RF/SIG	5 – 7 February	Munich (Germany)	Qualcomm
3GPPT1-#10	8 - 9 February	Munich (Germany)	Qualcomm
3GPPT-#11	14 - 16 March	USA	
3GPPSA-#11	19 - 21 March	USA	
3GPPT1-SIG	3 – 4 April	Singapore	MCI
3GPPT1-/RF/SIG	14 – 16 May	Australia,	NEC
3GPPT1-#11	17 – 18 May	Australia,	NEC
3GPPT-#12	13 - 15 June	Sweden	
3GPPSA-#12	18 - 21 June	Sweden	
3GPPT1-/RF/SIG	TBD	TBD	TBD
3GPPT1-/RF/SIG	3 – 5 September	Korea,	Samsung
3GPPT1-#12	6 – 7 September	Korea,	Samsung
3GPPT-#13	19 – 21 September	China	
3GPPSA-#13	24 – 26 September	China	
3GPPT1-/RF/SIG	TBD	TBD	TBD
3GPPT1-/RF/SIG	26 – 28 Nov	USA,	T1P1
3GPPT1-#13	29 – 30 Nov	USA,	T1P1
3GPPT-#14	12 - 14 Dec	Japan	
3GPPSA-#14	17 - 20 Dec	Japan	

History

Date	Revision	Comments
20/11/00	0	First draft
29/11/00	1	Comments from Mr Mattisson and Mr Guillot; addition of time schedule and participant list.
01/12/00	2	Comments from Mr Poy Boon, Mr Bollea and Mr Blankenfeld.

Comments on this report may be sent by e-mail to Lidia Salmeron

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