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3GPP TSG T WG1 #14
Sophia Antipolis, France
21-22 February 2002

DRAFT Report from the 3GPP TSG T WG1 #14 Plenary Meeting

21-22 February 2002

ETSI, Sophia Antipolis, France

Revision: 2

Chairman: Bjarke Nielsen

Secretary: Lidia Salmerón

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1 Opening of the meeting

The fourteenth TSG T1 Plenary meeting was held on 21st to 22nd February 2002 in Sophia Antipolis (France) and was hosted by ETSI.

Mr Nielsen opened the meeting at 9.00 am.

2 Adoption of the agenda

The original agenda in **T1-020001** was approved.

Mr Nielsen gave a reminder on the IPR obligations.

3 Registration of input documents

This is included in Annex B of this report.

4 Review of the minutes from last meeting

The report from the last T1#13 meeting (Cancun) can be found in Tdoc **T1-020002** this document was circulated on the e-mail reflector, comments received were incorporated and therefore is considered approved. The table below contains the status of the actions points from last meetings 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 and Europe
AP9.18: Subgroups to check references in TR 34.910 and report to the chairman.	Open	Checked by the RF subgroup but not by the Signalling.
AP10.9: All to consider if interface T1-IETF is needed.	Ongoing	Someone shall monitor the work of IETF
AP11.1: Mr George to finish the Work Item on how to test codec functions	Done	It was presented during the work plan
AP11.4: Mr George will create a separated work item for testing of MExE and we will seek for supporting companies.	Done	It was presented during the work plan
AP11.5: Companies to consider the hosting of future T1 meeting.	Closed	All T1 meetings have host for this year
AP12.2: Mr George to evaluate if the work item End-to-End QoS for Rel-5 has any influence in our work.	Closed	No work item has been created due to lack of supporting companies. According to the agreed procedure on the introduction of new RABs, this will be proposed by RAN if needed.
AP12.4: Relevant companies within T1 to review the report from SA1 on IP Based Multimedia Services Framework (TR 22.941) and provide input to them.	Open	
AP12.6: Mr George will start a discussion on the e-mail	Open	Some WI have been added to the work

reflector to get support for the creation of new WI.		item list but no supporting companies identified yet. Mr George said that at the moment companies are concentrated in already open work items.
AP13.1: Mr Nielsen to provide a proposal for the new format of 34.910.	Open	Waiting for the discussion on the prioritisation of test cases.
AP13.2: Mrs Salmeron to check if we can liaise directly with everyone in the 3GPP external liaison lists.	Done	The answer was yes.
AP13.3: Mr Hu, Mr Fox and Mr George to reflect the TTCN resources in the workplan.	Done	It was presented during the work plan
AP13.4: T1 to have a conference call to solve the issue of procedure for inclusion of new RAB.	Closed	
AP13.5: ETSI to send proposal to the reflector on how to handle CRs to TTCN.	Closed	A proposal was agreed in the T1/Sig meeting.
AP13.5: Mrs Salmeron to look for meeting room for 50 people in January for one day meeting. Send e-mail with proposed dates (better end of January)	Done	
AP13.6: Mr Mattisson to prepare LS answering RAN2 on their understanding of version handling in T1 and send it to the reflector for approval.	Closed	Obsolete
AP13.7: T1 to organize conference call with RAN2 in order to clarify the LS on UE protocol version.	Closed	
AP13.8: Mr Schulze to send T1-010555 (PRD T1-01 revision 2) for approval on the e-mail reflector.	Closed	It will be presented at this meeting as T1-020129.
AP14.1: Nokia to monitor evolution of SA5 WI on Subscriber and Equipment Trace.		
AP14.2: Mrs Salmerón to clarify the procedure for connection to WLAN.		
AP14.3: Mrs Salmerón to clarify the procedure for organisation of adhoc meetings.		
AP14.4: Companies to consider how MAC test 7.1.2.1.1 can be fitted into the existing specifications.		
AP14.5: Ericsson to study if MAC test 7.1.2.1.1 can be modified in order to convert it into a pure signalling test.		
AP14.6: RF subgroup to check if there is a duplication in the coverage of MAC test 7.1.2.1.1.		
AP14.7: Signalling subgroup to check if the signalling part of the RF test cases is already covered in the signalling test cases. To see if RF test cases already cover the signalling tests.		
AP14.8: Mrs Salmeron to produce PRD with procedure for handling of RABs.		

T1-020029: Report from T#14 in Kyoto

Mrs Salmerón presented the document. The main issues related to T1 were:

- All T1 CRs were approved.
- The draft MExE work item was presented for information to T.
- RAN presented a LS containing two CRs about clarification of meaning of section 6.10 in 34.108. These CRs were approved directly in T and are already included in the actual version of the specification.
- Presentation on the smooth Introduction of Release 99. The goal is to reduce the risk of major malfunction and risk of needing to recall large quantities of terminals with the associated bad publicity for the system and the involved parties. The conformance testing was considered one of the issues involved with this. Mr George recommended delegates to read TP-010295 for more information on this issue.

The document was noted.

T1-020030: Report from SA#14
Mrs Salmerón presented the document. SA questioned the low progress on RRM as this appeared to be an important work area. The slow progress was explained as due to lack of contribution, as the subject is still on the agenda of T WG1, and the importance of RRM is recognised by us.

The document was noted.

5 Incoming LS's

T1-020003: LS on Response to LS (T1-010389) on UE positioning testing aspects (R2-012778)
R2 is answering some questions included in a LS previously sent to them by T1. It seems that the situation in RAN is not stable yet, so further monitoring is needed.
The LS was noted.

T1-020008: LS on Impacts of Subscriber and Equipment Trace (S5-020013)
S5 informs all the groups about their work on Subscriber and Equipment Trace and requests each group to identify their own WIs that would be related to Subscriber and Equipment Trace, and to provide SA5 with their names and unique identifiers in the 3GPP work plan.
T1 did not have very clear the impact in our group. Nokia was tasked to follow up the work item to see if any work is needed in T1.
The LS was noted.

AP14.1: Nokia to monitor evolution of SA5 WI on Subscriber and Equipment Trace.

T1-020009: LS on "Prefix allocation for IPv6 stateless address autoconfiguration" (S2-020326)
SA2 informs that during its plenary meeting #22, they have agreed that a unique IPv6 prefix shall be allocated to every primary PDP context when using the IPv6 stateless address autoconfiguration procedure. SA2 ask us to consider any impact of this change in our specs.
It was noted that at the moment we have no test cases in this area so there is no impact.
The LS was noted.

T1-020028: LS on Procedure for specifying UMTS QoS Parameters per Application (N3-020119)
N3 asks some RAN groups T1 to investigate the possibility of making the Radio Bearers in bullet 1 “reference RBs” (as specified in TS 34.108).
The meeting felt that this action is not really for T1 and it is more relevant to the RAN groups.
The LS was noted.

6 Presentations of e-mail approvals since last T1 meeting

None.

7 T1 administrative issues

7.1 Time schedule for next meetings - for review and consensus

No changes are proposed from the last meeting. The actual time schedule is included in Annex D. The next meeting will be in Lund (Sweden).

Vodafone questioned if the actual organisation of the meeting (i.e. 3 days subgroups followed by 2 days plenary) was the best one. Sometimes high level discussions are needed before the working groups so it may be more appropriate to hold the plenary sessions on Monday and Friday. This idea was supported by other companies and the chairman.

The meeting agreed that the next T1 meeting and subgroups will be organised in the following way:

- Monday morning: T1 administrative issues
- Monday afternoon to Thursday morning: T1 subgroups
- Thursday afternoon and Friday: T1 plenary

7.2 New CR form and new draft of the 3GPP Working Procedures

Mrs Salmerón informed that the actual CR form to be used for future meetings is version 5.1. This can be found on the 3GPP server at:

http://www.3gpp.org/ftp/Information/CR-Form-v5-1.zip

The differences with version 5 are some editorial fixings and the inclusion of a file listing all the work items codes that are allowed to be used in the CR cover page.

T1-020034: Draft update of 3GPP Working Procedures
Mrs Salmerón presented this document for information. It was mentioned that this is being changed at the moment and comments can be sent to Mr Adrian Scrase. The document was noted.

T1-020006: PRD T1-07/G5-02 version 2: Handling of common issues between G5 and T1
This document was presented for information. It will be available on the T1 server and delegates preparing CRs to the common areas between T1 and G5 shall refer to his document

to indicate the equivalent test case in G5 that may be affected by the CR. The document was noted.

T1-020129: PRD on Paperless meeting guideline
Mr Schulze (Vodafone D2) presented this documents that includes some revisions to one of the T1 permanent reference documents.

It was noted that the name of the RF chairman has not been updated. Mr Yonekura said that this information can be taken from **T1-020172**. Also, Mr Yonekura noted that document numbers for subgroups shall not include the '-'.
Mr Fox agreed with the guideline of having documents available at least 5 days before the meeting. This rules has been used at the last T1/Sig meeting and it worked quite well. Nevertheless, several companies did not agree with the request of having bit CRs available 10 days before the meeting. This will be included as a recommendation rather than as a requirement.
It was also suggested that MCC shall provide a CR-ROM containing all the documents for delegates with problems accessing the WLAN.
Ericsson noted that CRs shall be based either on topics either on test cases in order to ease the review process inside companies.
It was also advised to have a chat in the meeting to exchange comments and information.

It was noted that this document is just a guideline.

The document was revised in **T1-020178** and agreed.

AP14.2: Mrs Salmerón to clarify the procedure for connection to WLAN.

AP14.3: Mrs Salmerón to clarify the procedure for organisation of adhoc meetings.

7.3 T1 work plan, status and path forward

T1-020176: T1 work plan
Mr George (Anritsu) presented the T1 work plan status. He noted that have been very little progress on the creation of new work items, since most of the companies are still concentrated in testing of R99.

Mr George (Anritsu) said that two new work items have been added to PRD T1-07 (T1's WI summary):
- Conformance Testing of MExE Environment (WI_51)
- Signalling testing for W/B AMR codec functions (WI_52)

Mr George (Anritsu) noted that the WI about AMR looks quite simple. Mr Fenn (Samsung) said that if TFO (Transcoder Free Operation) is needed, it will require much more testing. Bur for the moment there is no requirement for it.

Mr Brenk (TTPCom) noted that the WI on MExE is not the latest version, since many comments were made to it. Mr George and Mr Brenk will revise the WI and it will be included in T1-020180.

T1 Work Item index includes a new Excel sheet with the release independent items. The progress and end times for the approved work items have been updated.

Analysis of some WI completion dates:

- WI T1-06_13 has as completion date T#15 but only 10% of the work has been done. It was agreed to have Dec 02 as new date for the prose and Dec 03 for the TTCN.
- WI T1-06_25: prose for June 02 and TTCN for Dec 02.

Further revisions were included in the revised version.

Mr Nielsen noted that companies involved in work items must keep track of the progress made in their work items.

The document was revised in **T1-020180** and treated during postponed issues.

7.4 Testing of Application platforms

T1-020173: Brief report of coordination between 3GPP and IETF
Mr Fenn (Samsung) presented this abstract of a letter sent by Mr Stephen Hayes (CN chairman). Mr Fenn (Samsung) noted that 3GPP is dependant on the progress in this area by IETF to roll out the IMS.
It is foreseen that this will have effect on us when we start testing the IMS.
The document was noted.

T1-020026: CR to 34.123-1 introducing a test for capability negotiation in a MExE device
Mr Brenk (TTPCom and T2 MExE subgroup chairman) presented a first example of test case for MExE. The same format as for other signalling tests have been used. This test checks that the MExE device sends the 3 mandatory attributes that need to be sent when connecting to the server.

Mr Nielsen asked if it is possible to test MExE using TTCN. Mr Hu (ETSI MCC) thinks that it is possible but at the moment we do not have the interface to access MExE in order to automate the tests. Is it possible to specify this access layer to MExE? Mr Fenn (Samsung) noted that T1 does not have the expertise to specify this layer.

Mr Nielsen said the T2 group may be able to write the test cases but T1 has to help them to identify the way of testing.

Shall T1 be responsible for the tests or T2? Mr Nielsed said that this depend on whether they are going to be automated in TTCN (T1 should be responsible) or whether they are going to be executed manually (T2 should be responsible).

Mr George (Anritsu) explained that the work item that was created was to investigate the feasibility of MExE testing. Companies supporting the work item were asked to assist TTPCom to define how the MExE testing could be done.

It agreed that the WI for the feasibility study on MExE will be T1 responsibility for the time being. It will be presented at this meeting for approval and discussion.

The document was noted.

7.5 T2 Status

None.

7.6 Locking of current prose/TTCN implementation to R99 version June'01

T1-020177: UnLocking of current Prose/TTCN implementation from rel'99, version June'01
Mr Simmons (Nortel) presented the document. He explained that six month ago, T1 agreed to freeze the signalling specs to the June 01 version of the R99 core specifications, in order to improve the quality of the test cases and get the first TTCN test cases working. It is time now to decide if remove the freezing now and to which version of the core specifications shall we move to. The document lists some decisions to be taken and Nortel's opinion on them.

A long discussion took place on this issue. Some of the comments are noted below:

- Mr Yonekura (Fujitsu) asked what is the main difference between June 01 and Dec 01 and March 02. Mr Simmons said that there are many changes to the core specs that are essential for us because the implementation will not work. Some of this changes are not backwards compatible. There are also some changes that are not essential but they are should be also considered for completeness.

- Mr Fox (Anritsu) challenged the first reason given in the document from Nortel: "These should be based on the latest core specifications available in order to be avoid reworking them later". He thinks that we will have to rework them anyway, even if we update to the March 02 version. The issue to consider is not the amount of changes to do but the number of times we have to move. The number of times we change has more impact that the amount of changes to include since there are additional things to update that are independent of the amount of changes to implement. For example, to import the new ASN.1 3mm will be needed.

- Mr Schulze (Vodafone D2) questioned if this decision can be taken at T1 level.

- Mr Fox (Anritsu) said that at the moment we do not have a straight voice call without security. This functionality will be the same in June 01 and March 02, so what will be the benefit of moving to March 02 for this first milestone.

- R&S clarified that at the moment all the verification is done on June 01 version.

- What happen if a UE implemented according to March 02 is tested with a June 01 version of the test cases? Mr Fox said that it will possibly fail because the ASN.1 will not match in both ends.

- Mr Brown (Hutchison 3G) noted that moving to another version may bring problems with operator contracts.

- What are the implications for the delivery of package 1 if we decide to move? Mr Fox (Anritsu) said that at least there is total backwards compatibility (what is seems not to be the case) it does not seen possible that the industry launch the service with different versions of the standard in it. The industry should decide the version of the standard they want to launch. Therefore, it seems that T1 is not the right place to hold this discussion.

- Mr Fox (Anritsu) clarified that we DO have to move, the questions is to which version we shall move. He thinks we should ask for guidance to where shall we move to since the milestone we set have not been reached yet.

- Mr Nielsen reminded that our goal is that at the time of launching, we have test specifications based on the same version as the version of the terminals and network being implemented.

After all this discussion, T1 had clear that there is a need to move but the decision on where to move shall be taken by T. It was pointed out that if we decide to move soon, it will be possible to have the package 1 test cases ready by October. But if we decide to move to the wrong version there will be no chances of moving somewhere else by the time the networks are deployed.

It was felt necessary to perform an analysis on the work needed in order to move and also, T1 shall have a fallback position on the version to move in case T is not able to take any decision.

The document was noted.

Decisions:

- To write a LS to relevant groups on fallback plan. This LS will be included in **T1-020182** (see T1/Sig presentation).
- To do an study of the work necessary to update the signalling specifications to Dec 01 or Mar 02 versions. Hutchison, Nortel, ETSI, Motorola, Anite, Vodafone UK volunteered to study the issue and give some feedback by the next T1/Sig meeting.
- The meeting agreed by majority, that in case T is not able to take a decision at the next meeting, T1 will move to March 02 version.

7.7 Presentation of status from Tcert

T1-020132: Tcert update
Mr Brown presented the document. Tcert is a temporary task force to look at the coordination issues of the difference forums. It is a kind of overseen body trying to identify the gaps.
It was clarified that RFQ means Request For Quotation.

The report was noted.

7.8 Presentation of TWG status

None.

7.9 Presentation of status from IOT forum

T1-020179: NVIOT status report
Mr Filiatrault (Nortel) presented the document. It was explained that NVIOT uses the tests cases from T1 but changing the format to something suitable for them. They will only use some of T1 test cases.

The document was noted.

7.10 Presentation of status from GCF

T1-020131: Presentation on GCF
Mr Brown (Hutchison) presented the report on behalf of Mr Schulze (Vodafone D2). GCF has hold several ad-hocs on the prioritisation of test cases. The criteria followed for this selection is to ensure forward compatibility when activating functions in the network - initially working services shall continue working. 318 out of 720 Protocol Tests are considered 'High Priority'. They are classified in three packages of about 100 test cases each. The following areas have been identified as areas with insufficient test coverage: RRM, Equivalent PLMNs and the new agreed Radio Bearers. GCF expects to have package 1 (validated) to be commercially available by 1st October 2002.

The report was noted.

7.11 Prioritisation of test case implementation

T1-020033: LS from GCF 3G ad-hoc to T1 on tests case priorities
Mr Schulze (Vodafone D2) presented this document on behalf of Mr Mattisson (Ericsson). He explained that GCF has held three adhocs on the issue of prioritisation of test cases and this is the GCF output on the issue. GCF proposed to use this document as prioritisation for T1 in developing TTCN test cases as well as for the industry activities to validate these test cases, which leads to a prioritisation for testing terminals. The document includes some tables showing the content of the three prioritisation packages. Special mention to Ericsson for all their efforts to create this LS.

Siemens asked that if this table (based in of 34.123-1 v.4.1.0) is going to be updated according to v.4.2.0. It was confirmed that this table will be updated by GCF.

Mr Fox (Anritsu) noted that there are no call control test cases in package one. Mr Schulze (Vodafone D2) said that the reason for this is because in call control test cases, in the worse case there is a dedicated channel that allows to control the behaviour of the mobile, while this is not the case in other package 1 test cases.

The minutes of the previous meetings can be found in the following documents:

T1-020024: Report on T1 ad-hoc 24th January on Prioritisation of TCs

T1-020032: Draft report on GCF ad-hoc on 31st January on 3G Test Case Prioritisation
T1-020128: Draft report of 3G GCF ad-hoc in Lund on 13th February

These documents were provided for information and were noted.

The meeting agreed to use the document as basis for prioritisation of the work and on the stabilisation of package 1 by October.

T1-020036: TC Status
Mr Hu (ETSI MCC) presented the document. This document contains the same table of prioritisation as the previous document but adding a column indicating the status on the TTCN for every test case. This document can be used as a basis to determine the work to be done to stabilize package 1.

It was clarified that only 2 test cases were missing in prose from package 1 and they have been added by Ericsson at this meeting. Some test cases are not available in TTCN because they are not easy to implement in TTCN (e.g. some MAC test cases) but there will be a proprietary solution for them.

This table will be updated based on the latest status by the 20th March GCF meeting.

It was noted that the most problematic areas are MAC, RRC and RAB. Experts have been contracted for RRC and RAB but Mr Hu (ETSI MCC) noted that at the moment there are no MAC TTCN experts available to draft test cases. He estimates that if experts are available, the missing test cases could be made available for the next meeting.

Mr Schulze invited delegates to come to the next GCF meeting.

The document was noted.

T1-020127: 3GPP/GCF press release
Mr Nielsen presented this document for information. The document was noted.

T1-020175: Functional priorities of operators
Mr Nakagomi (NTT DoCoMo) presented the document. The document contains a table showing functional priorities of the operators source of the document. The priorities are set on the premise that these priorities are effective for the period until December 2003. The purpose of the document was to indicate the functions to be used in priority in the development of the tests.

Hutchison noted that this document is related to the discussion in RAN about prioritisation of R99 features.

It was noted that this document is in line with the GCF prioritisation and T1 accepted to use it in the future.

The document was noted.

7.12 Approval of RABs

T1-020004: LS on Updating procedure of RAB definitions in TS 34.108 (RP-010955)
RAN asked T to provided a more systematic procedure for the introduction of RABs. This was discussed during the T1/sig meeting and an answer is proposed later.
The LS was noted.

T1-020005: LS on RABs in 34.108 (RP-010956)
RAN proposed some CRs to 34.108 that were already agreed at last T meeting and are included in the actual version of the spec.
The LS was noted.

T1-020007: LS on Additional RAB's for 34.108 (R1-020193)
R1 informed that there will be a joint meeting with RAN2 to propose new RABs. The joint meeting took place and the proposed RABs were agreed by T1/Sig.
The LS was noted.

T1-020025: LS on 34.108 updates (12A020031)
This LS reflects the outcome of the joint meeting between R1 and R2. This was discussed during the T1/Sig where an approval process was agreed and the corresponding CRs for the introduction of RABs are proposed to this meeting for approval. R1 and R2 informs as that more RABs will be proposed for Rel-4 and Rel-5 later.
The LS was noted.

The response LS will be treated under the T1/Sig issues.

7.13 Review of current test cases

None.

8 Status reports

8.1 GERAN4/GERAN5 status report

Mrs Salmerón presented **T1-020031** that contains a slide presentation and reports on activities in GERAN4 and GERAN5.

It was clarified that HO issues are R99, not Rel-5.

Motorola pointed out that at the moment there is no funding for the implementation of Handover from GERAN to UTRAN test cases. T1 noted that it is vital for dual mode terminal to have these test cases. Motorola explained that the work item about the TTCN was approved in the GERAN meeting in Cancun but there is no funding to do the test cases.

It was clarified that the Phase 2 GSM TTCN was done initially by a project team (to draft essential test cases for type approval) and them the work was transfer to Anite. About 400 test cases are available for GSM TTCN.

The meeting agreed to write a LS to draw the attention on this issue in **T1-020183** (see postpone issues).

Motorola proposed to provide expertise on the drafting of TTCN HO test cases from GERAN to UTRAN but the funding will have to be provided by other companies. Mr Hu ETSI MCC) estimated that the funding needed to do this would be 6 mm.

The document was noted.

8.2 TSG-T1/Sig status report

- **Joint session T1/Sig and T1/RF**

T1-020089: CR to 34.123-1 on Correction of MAC conformance test 7.1.2.1.1
It is not clear if this test case belongs to Signalling or RF. It requires some power measurement that are not normally treated in the signalling subgroup.

Some discussion took place on the core specifications used by the RF subgroup and whether these test case should be responsibility of T1/Sig or T1/RF.

No consensus was reached on which subgroup was responsible. It was decided to include it for the moment in 34.123-1 and to come back to the issue at the next meeting after companies had the chance to study the issue.

AP14.4: Companies to consider how MAC test 7.1.2.1.1 can be fitted into the existing specifications.

At the moment this test case cannot be implemented in TTCN until the test method is solved. But Mr Fox (Anritsu) noted that to include a test method to test this will really complicate the TTCN, so for the moment there is no plan to produce TTCN for this test case.

Ericsson volunteer to study if this test case can be modified in order to convert it into a pure signalling test. Other companies are welcome to study the issue and contact Ercisson.

AP14.5: Ericsson to study if MAC test 7.1.2.1.1 can be modified in order to convert it into a pure signalling test.

It was agreed to keep this test case in 34.123-1 and to mention in 34.123-3 that this test case cannot be implemented in TTCN. Ericsson proposed to add a new section in 34.123-1 for Layer 1 test cases.

AP14.6: RF subgroup to check if there is a duplication in the coverage of MAC test 7.1.2.1.1.

AP14.7: Signalling subgroup to check if the signalling part of the RF test cases is already covered in the signalling test cases. To see if RF test cases already cover the signalling tests.

The CR was agreed. *(For CR number allocated see table included in T1/Sig report presentation)*

T1-020090: CR to 34.123-1 on Correction of MAC conformance test 7.1.2.3.1
The same as for the previous document. The CR was agreed. *(For CR number allocated see table included in T1/Sig report presentation)*

T1-020091: CR to 34.108 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD)
It was noted that this document has already been agreed by T1/RF. The CR was agreed. *(For CR number allocated see table included in T1/Sig report presentation)*

T1-020092: CR to 34.108 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)
The CR was agreed. *(For CR number allocated see table included in T1/Sig report presentation)*

T1-020093: Comments to MCI document T1S-020018 and Motorola document T1S-020038
Nokia presented this document that points out some problems discovered by them in MCI and Motorola contributions. They also propose solutions to solve the problems.

Comments to MCI document: Radio conditions in many test cases of 34.123-1 are not in line with the side conditions and accuracy requirements specified in 25.133. This can be solve by calculating relative levels (e.g. CPICH_Ec/Io) instead of absolute levels (e.g. CPICH_Ec). This can be done in joint effort between Nokia and MCI.

Comments to Motorola document: This document includes requirements that are not specified in TS25.133. This can be solved by using CPICH_Ec/Io

The document was agreed.

T1-020096 contains the slides report of the signalling subgroup and it was presented by Dan Fox. The full report can be found in **T1-020095**.

The actions resolved by the meeting and those outstanding were presented.

Issues for discussion during the T1 meeting:

- ***Rules for handling addition of Radio Bearers to the reference set:*** The following procedure was agreed:
    - RAN1/RAN2 will propose new RABs

- T1/SIG will add RAB to 34.108 only if at least one company will commit to add a prose test case
- T1/SIG will remove RAB from 34.108 if no commitment to provide TTCN test case received within 6 months of prose

This is informed to R1 and R2 in the LS in **T1-020094**.

T1-020094: LS to RAN1 and RAN2 in response to T1-020025, LS on 34.108 Updates
It was clarified that only one test case needs to be made for each RAB but this test case may have many parts depending on its complexity.

Mr Nielsen suggested to include in the procedure RAN1&2's proposal of being RAN the group proposing the inclusion of new RABs. An editorial mistake was also fixed.
It was agreed to modify the procedure to state that the prose test cases shall be provided within 6 months and there must be a commitment for the TTCN within the 6 month from the inclusion of the test cases into 34.123-1. The LS will be copied to RAN also.

The LS was revised in **T1-020185** and agreed.

It was noted that the current RABs (already included in the spec) either have existing test cases or a commitment for prose test case and they all have commitment for TTCN.

AP14.8: Mrs Salmeron to produce PRD with procedure for handling of RABs.

- **34.108**

The main issues discussed:

- CRs for introduction of new RABs from R1 and R2
- Improving accuracy of reference configurations
- Update of TDD

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

(Note: CRs approved during the T1/Sig and T1/RF joint session are included in this table)

Spec	CR	Rev	Phase	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Workitem
34.108	082		R99	Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	F	3.6.0	3.7.0	T1-020091	
34.108	083		Rel-4	Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)	A	4.1.0	4.2.0	T1-020092	TEI
34.108	084		R99	Update of reference radio conditions	F	3.6.0	3.7.0	T1-020097	
34.108	085		Rel-4	Update of reference radio conditions (Rel-4)	A	4.1.0	4.2.0	T1-020098	TEI
34.108	086		R99	Update of system reference configurations and default messages	F	3.6.0	3.7.0	T1-020099	
34.108	087		Rel-4	Update of system reference configurations and default messages (Rel-4)	A	4.1.0	4.2.0	T1-020100	TEI
34.108	088		R99	Corrections to 34108-360	F	3.6.0	3.7.0	T1-020101	
34.108	089		Rel-4	Corrections to 34108-410	A	4.1.0	4.2.0	T1-020102	TEI
34.108	090		R99	Introduction of new Reference RABs (LS from	F	3.6.0	3.7.0	T1-020103	

				RAN T1-020025)					
34.108	091		Rel-4	Introduction of new Reference RABs (Rel-4)	A	4.1.0	4.2.0	T1-020104	TEI
34.108	092		R99	Clarification of bit rate of Interactive/Background PS RAB function	F	3.6.0	3.7.0	T1-020105	
34.108	093		R99	Update of SIBs for TDD mode in TS34.108 (Rel99)	F	3.6.0	3.7.0	T1-020106	
34.108	094		Rel-4	Update of SIBs for TDD (both modes) in TS34.108 (Rel4)	F	4.1.0	4.2.0	T1-020107	TEI, LCRTDD
34.108	095		Rel-4	Clarification of bit rate of Interactive/Background PS RAB function (Rel-4)	A	4.1.0	4.2.0	T1-020184	TEI

Mrs Salmeron noted that there was not Rel-4 CR for the CR in T1-020105. Mr Nakagomi volunteered to produce the Rel-4 CR that was included in **T1-020184** and agreed.

- **34.123-1**

The main issues discussed:

- Large number of CRs to common spec areas require face to face time for authors to resolve merge problems. Possibly, a re-schedule of the meeting would be needed.
- No contributions to maintain the CC tests for some time. Nokia have volunteered to take over responsibility for this section.
- Updates to SM and TDD

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

(Note: CRs approved during the T1/Sig and T1/RF joint session are included in this table)

Spec	CR	Rev	Rel.	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item	Remarks
34.123-1	130		Rel-4	Correction to Annex A	F	4.1.0	4.2.0	T1-020037	TEI	R99, Rel-4
34.123-1	131		Rel-4	Update of Idle mode tests	F	4.1.0	4.2.0	T1-020038	TEI	R99, Rel-4
34.123-1	132		Rel-4	Update to GMM test cases	F	4.1.0	4.2.0	T1-020039	TEI	R99, Rel-4
34.123-1	133		Rel-4	Corrections to RRC test cases, 8.2.2 onwards	F	4.1.0	4.2.0	T1-020040	TEI	R99, Rel-4
34.123-1	134		Rel-4	Corrections to default message content for FDD in Annex A	F	4.1.0	4.2.0	T1-020041	TEI	R99, Rel-4
34.123-1	135		Rel-4	Clause 7.3, PDCP testing: Update	F	4.1.0	4.2.0	T1-020042	TEI	R99, Rel-4
34.123-1	136		Rel-4	Corrections to clause 8.1	F	4.1.0	4.2.0	T1-020043	TEI	R99, Rel-4
34.123-1	137		Rel-4	Correction to RRC test cases	F	4.1.0	4.2.0	T1-020044	TEI	R99, Rel-4
34.123-1	138		Rel-4	Corrections to Measurement test cases	F	4.1.0	4.2.0	T1-020045	TEI	R99, Rel-4
34.123-1	139		Rel-4	Additional test case for packet	F	4.1.0	4.2.0	T1-020046	TEI	R99, Rel-4
34.123-1	140		Rel-4	Changes to MAC conformance test 7.1.1.1	F	4.1.0	4.2.0	T1-020047	TEI	R99, Rel-4
34.123-1	141		Rel-4	Changes to MAC conformance test 7.1.1.2	F	4.1.0	4.2.0	T1-020048	TEI	R99, Rel-4
34.123-1	142		Rel-4	Changes to MAC conformance test 7.1.1.3	F	4.1.0	4.2.0	T1-020049	TEI	R99, Rel-4
34.123-1	143		Rel-4	Changes to MAC conformance test 7.1.1.4	F	4.1.0	4.2.0	T1-020050	TEI	R99, Rel-4
34.123-1	144		Rel-4	Changes to MAC conformance test 7.1.1.5	F	4.1.0	4.2.0	T1-020051	TEI	R99, Rel-4
34.123-1	145		Rel-4	Changes to MAC conformance test 7.1.1.8	F	4.1.0	4.2.0	T1-020052	TEI	R99, Rel-4
34.123-1	146		Rel-4	Changes to MAC conformance test 7.1.2.2.1	F	4.1.0	4.2.0	T1-020053	TEI	R99, Rel-4
34.123-1	147		Rel-4	Changes to MAC conformance test 7.1.2.4	F	4.1.0	4.2.0	T1-020054	TEI	R99, Rel-4
34.123-1	148		Rel-4	Changes to MAC conformance test 7.1.2.5	F	4.1.0	4.2.0	T1-020055	TEI	R99, Rel-4
34.123-1	149		Rel-4	Changes to MAC conformance test 7.1.3.1	F	4.1.0	4.2.0	T1-020056	TEI	R99, Rel-4
34.123-1	150		Rel-4	Changes to RLC conformance test 7.2.3.20	F	4.1.0	4.2.0	T1-020057	TEI	R99, Rel-4
34.123-1	151		Rel-4	Changes to RLC conformance test 7.2.3.25	F	4.1.0	4.2.0	T1-020058	TEI	R99, Rel-4
34.123-1	152		Rel-4	Modifications on Session Management test	F	4.1.0	4.2.0	T1-020059	TEI	R99, Rel-4

				case 11.1.1.1						
34.123-1	153		Rel-4	Modifications on Session Management test case 11.1.2	F	4.1.0	4.2.0	T1-020060	TEI	R99, Rel-4
34.123-1	154		Rel-4	Section 8.1 Connection Management Procedure (TDD both modes)	F	4.1.0	4.2.0	T1-020061	TEI, LCR-TDD	R99, Rel-4
34.123-1	155		Rel-4	Modification on Session Management test case 11.1.3.2	F	4.1.0	4.2.0	T1-020062	TEI	R99, Rel-4
34.123-1	156		Rel-4	Modifications of MM test cases	F	4.1.0	4.2.0	T1-020063	TEI	R99, Rel-4
34.123-1	157		Rel-4	Update of RB test cases	F	4.1.0	4.2.0	T1-020064	TEI	R99, Rel-4
34.123-1	158		Rel-4	Section 8.2 Radio Bearer Control Procedure (TDD both modes)	F	4.1.0	4.2.0	T1-020065	TEI, LCR-TDD	R99, Rel-4
34.123-1	159		Rel-4	Correction of MAC conformance test 7.1.2.1.1	F	4.1.0	4.2.0	T1-020089	TEI	R99, Rel-4
34.123-1	160		Rel-4	Correction of MAC conformance test 7.1.2.3.1	F	4.1.0	4.2.0	T1-020090	TEI	R99, Rel-4
34.123-1	161		Rel-4	Additional Measurement Control and Report test cases	F	4.1.0	4.2.0	T1-020111	TEI	R99, Rel-4
34.123-1	162		Rel-4	Additional Measurement test cases for events 1x and 2x	F	4.1.0	4.2.0	T1-020112	TEI	R99, Rel-4
34.123-1	163		Rel-4	Additional test cases for inter-RAT measurements and UE internal measurements	F	4.1.0	4.2.0	T1-020113	TEI	R99, Rel-4
34.123-1	164		Rel-4	Addition of test case for Inter-RAT measurement, event 3C, in CELL_DCH state using sparse compressed mode pattern	F	4.1.0	4.2.0	T1-020114	TEI	R99, Rel-4
34.123-1	165		Rel-4	Clause 6.1.2.8 Cell reselection : Equivalent PLMN	F	4.1.0	4.2.0	T1-020115	TEI	R99, Rel-4
34.123-1	166		Rel-4	Additional test cases for shared networks	F	4.1.0	4.2.0	T1-020116	TEI	R99, Rel-4
34.123-1	167		Rel-4	Deletion of Equivalent PLMN list in UE	F	4.1.0	4.2.0	T1-020117	TEI	R99, Rel-4
34.123-1	168		Rel-4	ePLMN list storage at power off	F	4.1.0	4.2.0	T1-020118	TEI	R99, Rel-4
34.123-1	169		Rel-4	Interaction of ePLMNs and forbidden PLMNs	F	4.1.0	4.2.0	T1-020119	TEI	R99, Rel-4
34.123-1	170		Rel-4	PLMN interaction with Manual Mode	F	4.1.0	4.2.0	T1-020120	TEI	R99, Rel-4
34.123-1	171		Rel-4	Clause 8.3 HCS cell reselection	F	4.1.0	4.2.0	T1-020121	TEI	R99, Rel-4
34.123-1	172		Rel-4	Clause 8.3.7.13 Inter system handover from UTRAN/To GSM/ success / call under establishment	F	4.1.0	4.2.0	T1-020122	TEI	R99, Rel-4
34.123-1	173		Rel-4	Additional test cases for Physical Channel Reconfiguration from CELL_FACH to CELL_PCH or URA_PCH	F	4.1.0	4.2.0	T1-020123	TEI	R99, Rel-4
34.123-1	174		Rel-4	Additional test cases for Transport channel Reconfiguration from CELL_FACH to CELL_PCH or URA_PCH	F	4.1.0	4.2.0	T1-020124	TEI	R99, Rel-4
34.123-1	175		Rel-4	Additional test case for RRC connection establishment on another frequency	F	4.1.0	4.2.0	T1-020125	TEI	R99, Rel-4
34.123-1	176		Rel-4	Additional test case for UE response to changes of System Information data and structure	F	4.1.0	4.2.0	T1-020126	TEI	R99, Rel-4

- **34.123-2**

The main issues discussed:

- Authors of CRs were reminded to update -2 in line with any changes in -1.

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

Spec	CR	Rev	Rel.	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Work item	Remarks
34.123-2	045		Rel-4	Corrections to R'4 RRC test cases applicability	F	4.1.0	4.2.0	T1-020067	TEI	R99, Rel-4
34.123-2	046		Rel-4	Update of Applicability table for RRC test cases	F	4.1.0	4.2.0	T1-020068	TEI	R99, Rel-4
34.123-2	047		Rel-4	Applicability for 8.4.1 Measurement Control and Report test cases	F	4.1.0	4.2.0	T1-020069	TEI	R99, Rel-4
34.123-2	048		Rel-4	Applicability for 6.1.2.8 Cell reselection : Equivalent PLMN	F	4.1.0	4.2.0	T1-020070	TEI	R99, Rel-4

34.123-2	049		Rel-4	Applicability for 8.3.7.13 Inter system handover from UTRAN/To GSM/ success / call under establishment	F	4.1.0	4.2.0	T1-020071	TEI	R99, Rel-4
34.123-2	050		Rel-4	Applicability for 8.3 HCS cell reselection	F	4.1.0	4.2.0	T1-020072	TEI	R99, Rel-4
34.123-2	051		Rel-4	Corrections to applicability table for Measurement Control and Report Test Cases	F	4.1.0	4.2.0	T1-020073	TEI	R99, Rel-4
34.123-2	052		Rel-4	Applicability statements for additional Measurement Control and Report test cases	F	4.1.0	4.2.0	T1-020074	TEI	R99, Rel-4
34.123-2	053		Rel-4	Correction to applicability statements of MAC test cases	F	4.1.0	4.2.0	T1-020075	TEI	R99, Rel-4
34.123-2	054		Rel-4	Applicability of new test cases	F	4.1.0	4.2.0	T1-020076	TEI	R99, Rel-4
34.123-2	055		Rel-4	Applicability of 8.1 RRC Connection Management Procedure (TDD both modes)	F	4.1.0	4.2.0	T1-020077	TEI, LCR-TDD	R99, Rel-4
34.123-2	056		Rel-4	Applicability of 8.2 RRC Radio Bearer Control Procedure (TDD both modes)	F	4.1.0	4.2.0	T1-020078	TEI, LCR-TDD	R99, Rel-4
34.123-2	057		Rel-4	Clarification of applicable releases (TDD) of test cases in TS 34.123-2	F	4.1.0	4.2.0	T1-020079	TEI, LCR-TDD	R99, Rel-4
34.123-2	058		Rel-4	Correction of the applicability table for test case 11.1.1.2.1 QoS offered by the network is a lower QoS / QoS accepted by UE	F	4.1.0	4.2.0	T1-020080	TEI	R99, Rel-4

T1-020080 was presented directly for approval at this plenary meeting and was agreed.

- **34.123-3**

The main issues discussed:

- MAC-d configuration.
- Implementation of MAC test cases: They will be kept in 34.123-1-1 but making clear in 34.123-3 which MAC test cases cannot be implemented in TTCN.
- Test method of MAC testing
- Change control for TTCN: Even if it is not yet under change control, it was agreed to use the CR process for any change to existing test, declaration, etc, but not for the new additions to the TTCN.
- Configuration management for TTCN: We will use the manual approach. The CRs will be send back to ETSI who will implement the changes manually. A comparison tool will be used by ETSI to identify the differences.

T1-020035: Feb 2002 report on MCC Task 160 and TTCN verification database
Mr Hu (ETSI MCC) presented the document. The main issues in the report were:

- Funding: 30 mm already contracted for 2002, 28 mm still left. No voluntary contributions received so far. Note call for voluntary contribution in **T1-020027**. It was clarified that the mm contracted for maintenance will cover the resources needed to implement package 1 test cases.
- Progress and Plan: v120 just delivered, containing 600 test cases, 400 of them are verifiable. The intention is to include in the next version of the TTCN all the package 1 test cases. Mr Nielsen asked Mr Hu to give more detail for the next meeting on the content of the different TTCN releases. A report indicating when the different test cases will be implemented will be really relevant for us.
- Status of test cases in Package 1: 70% of package 1 test cases are verifiable.

- Target to next T1 meeting in May: It is foreseen that for the next T meeting, all the test cases in package 1 will be ready for verification. Anritsu and Motorola committed to consider the possibility of producing the missing TTCN test cases for MAC.
- MCC Task 160 suggests to move to March 02 version of the core specs. The mm necessary to move all the actual test cases (not just the package 1) from June 01 to March 02 is estimated as:
  3 mm for update of ASN.1
  6 mm for update of test procedures -> (at this point package 1 is ready)
  6 mm for inclusion of new test cases
- TTCN verification database: 206 problems received. Verification moving from software inspection to protocol simulation at workstation.

The report was noted.

- **Outgoing LS**

T1-020174: LS on Network initiated PDP context activation request for an already activated PDP context (on the mobile station side)
T1 asks CN1 for clarification of the UE behaviour for the case of network initiated PDP context activation request for an already activated PDP context (on the mobile station side).
It was noted that the date of the T1#16 meeting is wrong. Some other editorial comments were suggested. The LS was revised in **T1-010186** and agreed.

T1-020182: LS to 3GPP/T (copy RAN) on Unlocking of current Prose/TTCN from rel'99, version June'01
This LS is asking T to take a decision to which version of the core specification shall we move our test specification. In case no decision is taken, T1 will move to March 02 as a fallback position.

It was agreed to remove any mention of GCF and NVIOT. A long discussion took place on whether mention to interoperability testing shall be included in the LS or not. The risk of including any mention to IOT (who wants the tests to be aligned to the latest version of the core specs) is to include only one of the views that were present at the meeting. It was agreed not to include mention to IOT.

Several editorial modifications and rephrasing were done to the LS.

It was clarified that if the fallback solution is taken, at the next T1/Sig meeting we will agree CRs based on March 02 of the core specifications.

It was noted that in order to allow companies to study the issue, the LS shall be sent on the T, RAN and leaders reflector.

The document was revised into **T1-020187** and agreed

- **Future meetings**

9-11 April co-located with T1/RF and hosted by Nokia in Helsinki airport.

8.3 TSG-T1/RF status report

Mr Yonekura presented the report from the T1/RF subgroup included in document **T1-020181**.

The main issues discussed:

– *RRM*: Nine new test cases and default message annex created.

An input document is provided for information on this issue in **T1-020169 (RRM Tests Progress Review)**. This document compares the test case availabilities between the latest version of core specifications available and new version of test specification expected after T plenary #15 in March assuming all CRs approved. The completeness of the RRM section is:

TS34.121 43,2 %
TS34.122 22,2 %

Mr Yonekura said that the progress is very dependent on contributions and there are not many, but at this point, the core specifications are quite mature what will make easier to draft the test cases.
It was requested to raise this issue in the next T meeting.

– *Maintenance of R99:* Power definitions, corrections, alignment between TDD and FDD format, LS to RAN2 on reconsideration of the deletion of TPC algorithm 2 what will have big impact on test cases.
– *Total Tests Time optimisation:* Now changed to release independent. Work just started.
– *UMTS 1800 / 1900*: One CR agreed for the inclusion of new bands in 34.121.

- **34.121**

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

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level
34.121	127		R99	Correction of power terms and definitions	F	3.7.0	3.8.0	T1-020133
34.121	128		R99	Creation of common default messages for RRM test cases in Annex I	F	3.7.0	3.8.0	T1-020134
34.121	129		R99	Transmit ON/OFF time mask, Change of TFC and Power setting in uplink compressed mode	F	3.7.0	3.8.0	T1-020135
34.121	130		R99	Maintenance of Annex B	F	3.7.0	3.8.0	T1-020136
34.121	131		R99	Correction of minimum test times under fading	F	3.7.0	3.8.0	T1-020137
34.121	132		R99	Addition of test case description for SFN-CFN observed time difference	F	3.7.0	3.8.0	T1-020138
34.121	133		R99	Addition of test case description for SFN-SFN observed time difference type 1	F	3.7.0	3.8.0	T1-020139
34.121	134		R99	Corrections for TS 34.121 subclause 8.7.6	F	3.7.0	3.8.0	T1-020140
34.121	135		R99	Correction changes in clause 8.7	F	3.7.0	3.8.0	T1-020141

34.121	136		R99	Update of RRM Cell reselection delay tests in idle mode	F	3.7.0	3.8.0	T1-020142
34.121	137		R99	Implementation of test tolerances to test cases in subclause 7	F	3.7.0	3.8.0	T1-020143
34.121	138		R99	RRM AnnexF	F	3.7.0	3.8.0	T1-020144
34.121	139		R99	Connection Diagrams for RRM tests cell re-selection in idle mode	F	3.7.0	3.8.0	T1-020145
34.121	140		R99	Statistical testing of RRM delay performance	F	3.7.0	3.8.0	T1-020146
34.121	141		R99	RRM Hard handover test cases	F	3.7.0	3.8.0	T1-020147
34.121	142		R99	System Simulator and Test System definition	F	3.7.0	3.8.0	T1-020148
34.121	143		R99	WCDMA 1800 and 1900 additions	F	3.7.0	3.8.0	T1-020170
34.121	144		R99	Correction of power spectral density	F	3.7.0	3.8.0	T1-020171

Status of completeness:

	Last meeting	Now
Transmitter	100%	100%
Receiver	100%	100%
Performance	95%	100%
Support of RRM (*)	30%	43%
Annex	100%	100%

Note: These values are related to the completeness of the core specs.

Outstanding issues:

- *Total Test Time*: Limited number of contributions, statistical study needed.
- RRM: Only half of the tests deployed, more contributions needed
- UMTS 1800/1900: Special care when introducing CRs.

Mr Nielsen asked if it is possible to make type approval with the current test cases. It was clarified that all the test cases required for type approval in Europe are available, additionally, at least in Japan, no performance tests are required.
Some prioritisation was done in GCF on radio test cases but has not been presented to this meeting. All the test cases, excepting the TDD and HO tests, are consider high priority.

- **34.122**

16 CRs were presented for approval. All the CRs were approved and allocated the indicated CR number.

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Worki tem
34.122	070		R99	Corrections to various reference to tables in the document.	F	3.6.0	3.7.0	T1-020150	
34.122	071		R99	Maintenance of Annex B	F	3.6.0	3.7.0	T1-020151	
34.122	072		R99	Power Control in the Downlink	F	3.6.0	3.7.0	T1-020152	
34.122	073		R99	Uplink Power Control Performance Test	F	3.6.0	3.7.0	T1-020153	
34.122	074		R99	Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	F	3.6.0	3.7.0	T1-020154	
34.122	075		R99	New RRM Section Headings	F	3.6.0	3.7.0	T1-020155	
34.122	076		R99	Cell Re-selection in idle mode test cases	F	3.6.0	3.7.0	T1-020156	
34.122	077		R99	Statistical testing of RRM delay performance	F	3.6.0	3.7.0	T1-020157	
34.122	078		Rel-4	Corrections to various reference to tables in the document.	A	4.2.0	4.3.0	T1-020158	TEI
34.122	079		Rel-4	Maintenance of Annex B	A	4.2.0	4.3.0	T1-020159	TEI

34.122	080		Rel-4	Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	A	4.2.0	4.3.0	T1-020160	TEI
34.122	081		Rel-4	New RRM Section Headings (Cat.A)	A	4.2.0	4.3.0	T1-020161	TEI
34.122	082		Rel-4	Cell Re-selection in idle mode test cases	A	4.2.0	4.3.0	T1-020162	TEI
34.122	083		Rel-4	Power Control in the Downlink	A	4.2.0	4.3.0	T1-020163	TEI
34.122	084		Rel-4	Uplink Power Control Performance Test	A	4.2.0	4.3.0	T1-020164	TEI
34.122	085		Rel-4	Statistical testing of RRM delay performance	A	4.2.0	4.3.0	T1-020165	TEI

Status of completeness for R99:

	Last meeting	Now
Transmitter	95%	100%
Receiver	100%	100%
Performance	95%	100%
Support of RRM	0%	22%
Annex	100%	100%

Note: These values are related to the completeness of the core specs.

Outstanding issues:

- Limited number of contributions but the completion target of June 02 for LCR TDD can be reached.
- Total Test Time: as for FDD

- **Commonality study**

T1-020167: PRD T1-09 Commonality of Transmitter and Receiver Test Requirements for FDD and TDD Terminal
This is a proposal of permanent reference document to analyse the commonality between the test requirements and method of test for FDD and TDD UTRAN terminal conformance testing thus showing where the test equipment can be common for the two systems.

The document was agreed as a PRD.

- **Outgoing LS**

T1-020130: LS on deletion of power control algorithm 2 from R99
R1 and R2 plan to delete the power control algorithm 2 for R99. T1/RF foresees a big implication in the availability of test specifications therefore they ask them to reconsider their decision. The LS has already been seen and there was an informal feedback that they decided to keep the algorithm in R99.
The LS was noted.

T1-020166: LS on Test parameters of Measurement Performance test cases
T1/RF informs R4 that some table of parameters for RRM have been changed to make the tests performable. T1/RF ask R4 to consider if the tables are acceptable and if the core specifications can be modified accordingly.
The LS was noted.

- **Future meetings**

  It was agreed to have subgroups meeting together with T1/Sig on 9 to 11 April. Nokia volunteer to host these meetings in Finland.

The report was noted.

9 Status of 34.910

Mr Nielsen said that the format has changed substantially by the prioritisation of test cases. To be presented at the next meeting.

10 Postponed issues

T1-020180: Revision of T1 work plan
Mr George presented the documents. He explained that the work on UMTS 1800/1900 is finished for RF. He also pointed out that some of the Rel-4 work items do not have a draft work item because there are no supporting companies.

The work item on MExE testing was proposed for approval. This work item will produce a report on whether there is a need for a technical specification for MExE testing.
The supporting companies present at the meeting (Samsung and Cetecom) agreed with the work item. The work item was agreed. Mr Fenn will contact Mr Neumann to check his agreement with the work item.

Mr George noted that a new work item have been added in the Rel-4 list on Testing of IETF aspects of 3GPP RoHC. This work item has 3 supporting companies at the moment. Companies needing more information in this work item shall contact Mr Stolle (Cetecom).

T1-020183: LS to T and GERAN on Funding of GERAN to UTRAN Inter-RAT TTCN Test Case implementation
Mr Schulze (Vodafone D2) presented the LS.
There was some discussion on whether or not modify this LS to just highlight the fact that funding is needed but not to request it, since this shall be done by GERAN. Finally this was not seen as a T1 issue and the meeting agreed that interested companies should present an input document directly to T and GERAN.

Vodafone, Hutchison 3G, Orange France, Cetecom, Nokia and Qualcomm will be source of the document.

The LS was rejected.

T1-020013: Discussion paper on Interim/Fully tested UE
DoCoMo presented this document that was already presented at the T1 ad-hoc meeting on prioritisation of test cases but was postponed until this T1 meeting.

It was clarified that if a function is mandatory and belongs to the interim, the test shall be done. If something is mandatory it must be implemented even if it is not tested.

This discussion was felt as out of the scope of T1. Once RAN has taken a final decision it will be clarified in T1.

The document was noted.

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

None.

12 Any other business

Mr Brown (Hutchison) gave some information on the planning for the analysis work.

Mr Savolanien (Nokia) informed that the subgroups meetings will take on 9 to 11 April at Helsinki airport.

13 Closing of the meeting

Mr Nielsen thanked the host and closed the meeting at 16.30 on Friday.

Annex A. List of participants.

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Annex B. List of documents

Tdoc	Title	Source	Agenda	Revised	Status
T1-020001	agenda T1#14	chairman			approved
T1-020002	draft report T1#13	ETSI MCC	4		approved
T1-020003	LS on Response to LS (T1-010389) on UE positioning testing aspects (R2-012778)	R2	5		noted
T1-020004	LS on Updating procedure of RAB definitions in TS 34.108 (RP-010955)	RAN	7l		noted
T1-020005	LS on RABs in 34.108 (RP-010956)	RAN	7l		noted
T1-020006	PRD T1-07/G5-02 version 2: Handling of common issues between G5 and T1	ETSI MCC	7b		noted
T1-020007	LS on Additional RAB's for 34.108 (R1-020193)	R1	7l		noted
T1-020008	LS on on Impacts of Subscriber and Equipment Trace (S5-020013)	S5	5		noted
T1-020009	LS on "Prefix allocation for IPv6 stateless address autoconfiguration" (S2-020326)	S2	5		noted
T1-020010	Use in T1 adhoc				
T1-020011	Use in T1 adhoc				
T1-020012	Use in T1 adhoc				
T1-020013	Discussion paper on Interim/Fully tested UE	NTT DoCoMo			noted
T1-020014	Use in T1 adhoc				
T1-020015	Use in T1 adhoc				
T1-020016	Use in T1 adhoc				
T1-020017	Use in T1 adhoc				
T1-020018	Use in T1 adhoc				
T1-020019	Use in T1 adhoc				
T1-020020	Use in T1 adhoc				
T1-020021	Use in T1 adhoc				
T1-020022	Use in T1 adhoc				
T1-020023	Use in T1 adhoc				
T1-020024	Report on T1 ad-hoc 24th January on Prioritisation of TCs	ETSI MCC	7k		noted
T1-020025	LS on 34.108 updates (12A020031)	R1, R2	7l		noted
T1-020026	CR to 34.123-1 introducing a test for capability negociation in a MExE device	TTPCom	7d		noted
T1-020027	CL2144 on second call for TTCN voluntary contributions	ETSI MCC	8b		noted
T1-020028	LS on Procedure for specifying UMTS QoS Parameters per Application (N3-020119)	N3	5		noted
T1-020029	Draft report from T#14 in Kyoto	ETSI MCC	4		noted
T1-020030	Draft report from SA#14 in Kyoto	ETSI MCC	4		noted
T1-020031	Reports from G4 and G5 in GERAN#8	ETSI MCC	8a		noted
T1-020032	Draft report on GCF adhoc on 31st January on 3G Test Case Prioritisation	GCF Secretariat	7k		noted
T1-020033	LS from GCF 3G ad-hoc to T1 on tets case prioirities	GCF	7k		
T1-020034	Draft update of 3GPP Working Procedures	ETSI MCC	7b		noted
T1-020035	Feb 2002 report on MCC Task 160 and TTCN verification database	ETSI MCC	8b		noted
T1-020036	TC Status	ETSI MCC	7k		noted
T1-020037	CR to 34.123-1 R99&REL4; Correction to Annex A	T1/Sig	8b		agreed
T1-020038	CR to 34.123-1 R99&REL4; Update of Idle mode tests	T1/Sig	8b		agreed
T1-020039	CR on TS34.123-1 V4.1.0: Update to GMM test cases	T1/Sig	8b		agreed
T1-020040	CR to TS 34.123-1 V4.0.0: Corrections to RRC test cases, 8.2.2 onwards	T1/Sig	8b		agreed
T1-020041	CR to 34.123-1: Corrections to default message content for FDD in Annex A	T1/Sig	8b		agreed
T1-020042	CR on TS 34.123-1, clause 7.3, PDCP testing: Update	T1/Sig	8b		agreed
T1-020043	CR to 34.123-1: Corrections to clause 8.1	T1/Sig	8b		agreed
T1-020044	CR to 34.123-1 R99&REL4; Correction to RRC test cases	T1/Sig	8b		agreed
T1-020045	CR to 34.123-1: Corrections to Measurement test cases	T1/Sig	8b		agreed
T1-020046	CR to 34.123-1 Additional test case for packet	T1/Sig	8b		agreed
T1-020047	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.1.1	T1/Sig	8b		agreed
T1-020048	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.1.2	T1/Sig	8b		agreed
T1-020049	CR to 34.123-1 R99&REL4; Changes to MAC conformance test	T1/Sig	8b		agreed

	7.1.1.3				
T1-020050	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.1.4	T1/Sig	8b		agreed
T1-020051	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.1.5	T1/Sig	8b		agreed
T1-020052	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.1.8	T1/Sig	8b		agreed
T1-020053	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.2.2.1	T1/Sig	8b		agreed
T1-020054	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.2.4	T1/Sig	8b		agreed
T1-020055	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.2.5	T1/Sig	8b		agreed
T1-020056	CR to 34.123-1 R99&REL4; Changes to MAC conformance test 7.1.3.1	T1/Sig	8b		agreed
T1-020057	CR to 34.123-1 R99&REL4; Changes to RLC conformance test 7.2.3.20	T1/Sig	8b		agreed
T1-020058	CR to 34.123-1 R99&REL4; Changes to RLC conformance test 7.2.3.25	T1/Sig	8b		agreed
T1-020059	CR to 34.123-1 Modifications on Session Management test case 11.1.1.1	T1/Sig	8b		agreed
T1-020060	CR to 34.123-1 Modifications on Session Management test case 11.1.2	T1/Sig	8b		agreed
T1-020061	CR to 34.123-1 Section 8.1 Connection Management Procedure (TDD both modes)	T1/Sig	8b		agreed
T1-020062	CR to 34.123-1 Modification on Session Management test case 11.1.3.2	T1/Sig	8b		agreed
T1-020063	CR on TS 34.123-1 V4.1.0: Modifications of MM test cases	T1/Sig	8b		agreed
T1-020064	CR to 34.123-1 R99&REL4; Update of RB test cases	T1/Sig	8b		agreed
T1-020065	CR to 34.123-1 Section 8.2 Radio Bearer Control Procedure (TDD both modes)	T1/Sig	8b		agreed
T1-020066	Not used				
T1-020067	CR to 34.123-2: Corrections to R'4 RRC test cases applicability	T1/Sig	8b		agreed
T1-020068	CR to TS 34.123-2: Update of Applicability table for RRC test cases	T1/Sig	8b		agreed
T1-020069	CR on TS 34.123-2 V4.1.0 - Applicability for 8.4.1 Measurement Control and Report test cases	T1/Sig	8b		agreed
T1-020070	CR on TS 34.123-2 V4.1.0 - Applicability for 6.1.2.8 Cell reselection : Equivalent PLMN	T1/Sig	8b		agreed
T1-020071	CR on TS 34.123-2 V4.1.0 - Applicability for 8.3.7.13 Inter system handover from UTRAN/To GSM/ success / call under establishment	T1/Sig	8b		agreed
T1-020072	CR on TS 34.123-2 V4.1.0 - Applicability for 8.3 HCS cell reselection	T1/Sig	8b		agreed
T1-020073	CR on TS 34.123-2 V4.1.0 Corrections to applicability table for Measurement Control and Report Test Cases	T1/Sig	8b		agreed
T1-020074	CR to 34.123-2: Applicability statements for additional Measurement Control and Report test cases	T1/Sig	8b		agreed
T1-020075	CR to 34.123-2: Correction to applicability statements of MAC test cases	T1/Sig	8b		agreed
T1-020076	CR to 34.123-2 R99&REL4; Applicability of new test cases	T1/Sig	8b		agreed
T1-020077	CR to 34.123-2 Applicability of 8.1 RRC Connection Management Procedure (TDD both modes)	T1/Sig	8b		agreed
T1-020078	CR to 34.123-2 Applicability of 8.2 RRC Radio Bearer Control Procedure (TDD both modes)	T1/Sig	8b		agreed
T1-020079	CR to 34.123-2Clarification of applicable releases (TDD) of test cases in TS 34.123-2	T1/Sig	8b		agreed
T1-020080	CR to 34.123-2 Correction of the applicability table for test case 11.1.1.2.1 QoS offered by the network is a lower QoS / QoS accepted by UE	T1/Sig	8b		agreed
T1-020081	Not used				
T1-020082	Not used				
T1-020083	Not used				
T1-020084	Not used				
T1-020085	Not used				
T1-020086	Not used				
T1-020087	Not used				
T1-020088	Not used				
T1-020089	CR to 34.123-1 on Correction of MAC conformance test 7.1.2.1.1	Ericsson	8b		agreed

T1-020090	CR to 34.123-1 on Correction of MAC conformance test 7.1.2.3.1	Ericsson	8b		agreed
T1-020091	CR to 34.108 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	InterDigital	8b		agreed
T1-020092	CR to 34.108 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)	InterDigital	8b		agreed
T1-020093	Comments to MCI document T1S-020018 and Motorola document T1S-020038	Nokia	8b		agreed
T1-020094	LS from T1 to RAN on RABs	T1/Sig	8b	185	revised
T1-020095	Draft report from T1/Sig #21	T1/Sig chairman	8b		noted
T1-020096	Report from the T1/Sig (slides)	T1/Sig chairman	8b		noted
T1-020097	CR to 34.108 R99; Update of reference radio conditions	T1/Sig	8b		agreed
T1-020098	CR to 34.108 REL-4; Update of reference radio conditions	T1/Sig	8b		agreed
T1-020099	CR to 34.108 R99; Update of system reference configurations adn default messages	T1/Sig	8b		agreed
T1-020100	CR to 34.108 REL-4; Update of system reference configurations adn default messages	T1/Sig	8b		agreed
T1-020101	CR to 34.108 Corrections to 34108-360	T1/Sig	8b		agreed
T1-020102	CR to 34.108 Corrections to 34108-410	T1/Sig	8b		agreed
T1-020103	CR to 34.108 LS from RAN T1-020025	T1/Sig	8b		agreed
T1-020104	CR to 34.108 R4: Introduction of new Reference RABs	T1/Sig	8b		agreed
T1-020105	CR to 34.108 Clarification of bit rate of Interactive/Background PS RAB function	T1/Sig	8b		agreed
T1-020106	CR to 34.108Update of SIBs for TDD mode in TS34.108 (Rel99)	T1/Sig	8b		agreed
T1-020107	CR to 34.108 Update of SIBs for TDD (both modes) in TS34.108 (Rel4)	T1/Sig	8b		agreed
T1-020108		T1/Sig	8b		
T1-020109		T1/Sig	8b		
T1-020110		T1/Sig	8b		
T1-020111	CR on TS 34.123-1 V4.1.0; Additional Measurement Control and Report test cases	T1/Sig	8b		agreed
T1-020112	CR on TS 34.123-1 V4.1.0 - Additional Measurement test cases for events 1x and 2x	T1/Sig	8b		agreed
T1-020113	CR to 34.123-1; Additional test cases for inter-RAT measurements and UE internal measurements	T1/Sig	8b		agreed
T1-020114	CR to 34.123-1; Addition of test case for Inter-RAT measurement, event 3C, in CELL_DCH state using sparse compressed mode pattern	T1/Sig	8b		agreed
T1-020115	CR on TS 34.123-1 V4.1.0 - Clause 6.1.2.8 Cell reselection : Equivalent PLMN	T1/Sig	8b		agreed
T1-020116	CR to 34.123-1; Additional test cases for shared networks	T1/Sig	8b		agreed
T1-020117	CR to 34.123-1; Deletion of Equivalent PLMN list in UE	T1/Sig	8b		agreed
T1-020118	CR to 34.123-1; ePLMN list storage at power off	T1/Sig	8b		agreed
T1-020119	CR to 34.123-1; Interaction of ePLMNs and forbidden PLMNs	T1/Sig	8b		agreed
T1-020120	CR to 34.123-1; PLMN interaction with Manual Mode	T1/Sig	8b		agreed
T1-020121	CR on TS 34.123-1 V4.1.0 - Clause 8.3 HCS cell reselection	T1/Sig	8b		agreed
T1-020122	CR on TS 34.123-1 V4.1.0 - Clause 8.3.7.13 Inter system handover from UTRAN/To GSM/ success / call under establishment	T1/Sig	8b		agreed
T1-020123	CR to TS 34.123-1: Additional test cases for Physical Channel Reconfiguration from CELL_FACH to CELL_PCH or URA_PCH	T1/Sig	8b		agreed
T1-020124	CR to TS 34.123-1: Additional test cases for Transport channel Reconfiguration from CELL_FACH to CELL_PCH or URA_PCH	T1/Sig	8b		agreed
T1-020125	CR to 34.123-1; Additional test case for RRC connection establishment on another frequency	T1/Sig	8b		agreed
T1-020126	CR to 34.123-1; Additional test case for UE response to changes of System Information data and structure	T1/Sig	8b		agreed
T1-020127	3GPP/GCF Press release	chairman	7k		noted
T1-020128	Draft report of 3G GCF adhoc in Lund on 13th February	GCF Secretariat	7k		noted
T1-020129	PRD on Paperless meeting guideline	Vodafone D2	7b	178	revised
T1-020130	LS on deletion of power control algorithm 2 from R99	T1/RF	8c		noted
T1-020131	Presentation on GCF	Vodafone D2	7j		noted
T1-020132	Tcert update	Phillip Brown	7g		noted
T1-020133	CR to 34.121 on Correction of power terms and definitions	T1/RF	8c		agreed
T1-020134	CR to 34.121 on Creation of common default messages for RRM test cases in Annex I	T1/RF	8c		agreed

T1-020135	CR to 34.121 on Transmit ON/OFF time mask, Change of TFC and Power setting in uplink compressed mode	T1/RF	8c		agreed
T1-020136	CR to 34.121 on Maintenance of Annex B	T1/RF	8c		agreed
T1-020137	CR to 34.121 on Correction of minimum test times under fading	T1/RF	8c		agreed
T1-020138	CR to 34.121 on Addition of test case description for SFN-CFN observed time difference	T1/RF	8c		agreed
T1-020139	CR to 34.121 on Addition of test case description for SFN-SFN observed time difference type 1	T1/RF	8c		agreed
T1-020140	CR to 34.121 on Corrections for TS 34.121 subclause 8.7.6	T1/RF	8c		agreed
T1-020141	CR to 34.121 on Correction changes in clause 8.7	T1/RF	8c		agreed
T1-020142	CR to 34.121 on Update of RRM Cell reselection delay tests in idle mode	T1/RF	8c		agreed
T1-020143	CR to 34.121 on Implementation of test tolerances to test cases in subclause 7	T1/RF	8c		agreed
T1-020144	CR to 34.121 on RRM AnnexF	T1/RF	8c		agreed
T1-020145	CR to 34.121 on Connection Diagrams for RRM tests cell re-selection in idle mode	T1/RF	8c		agreed
T1-020146	CR to 34.121 on Statistical testing of RRM delay performance	T1/RF	8c		agreed
T1-020147	CR to 34.121 on RRM Hard handover test cases	T1/RF	8c		agreed
T1-020148	CR to 34.121 on System Simulator and Test System definition	T1/RF	8c		agreed
T1-020149	CR to 34.121 on WCDMA 1800 and 1900 additions	T1/RF	8c	170	revised
T1-020150	CR to 34.122 on Corrections to various reference to tables in the document.	T1/RF	8c		agreed
T1-020151	CR to 34.122 on Maintenance of Annex B	T1/RF	8c		agreed
T1-020152	CR to 34.122 on Power Control in the Downlink	T1/RF	8c		agreed
T1-020153	CR to 34.122 on Uplink Power Control Performance Test	T1/RF	8c		agreed
T1-020154	CR to 34.122 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	T1/RF	8c		agreed
T1-020155	CR to 34.122 on New RRM Section Headings	T1/RF	8c		agreed
T1-020156	CR to 34.122 on Cell Re-selection in idle mode test cases	T1/RF	8c		agreed
T1-020157	CR to 34.122 on Statistical testing of RRM delay performance	T1/RF	8c		agreed
T1-020158	CR to 34.122 on Corrections to various reference to tables in the document. (Rel-4)	T1/RF	8c		agreed
T1-020159	CR to 34.122 on Maintenance of Annex B (Rel-4)	T1/RF	8c		agreed
T1-020160	CR to 34.122 on Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)	T1/RF	8c		agreed
T1-020161	CR to 34.122 on New RRM Section Headings (Cat.A) (Rel-4)	T1/RF	8c		agreed
T1-020162	CR to 34.122 on Cell Re-selection in idle mode test cases (Rel-4)	T1/RF	8c		agreed
T1-020163	CR to 34.122 on Power Control in the Downlink (Rel-4)	T1/RF	8c		agreed
T1-020164	CR to 34.122 on Uplink Power Control Performance Test (Rel-4)	T1/RF	8c		agreed
T1-020165	CR to 34.122 on Statistical testing of RRM delay performance (Rel-4)	T1/RF	8c		agreed
T1-020166	LS to RAN4 on Test parameters of Measurement Performance test cases	T1/RF	8c		noted
T1-020167	New PRD: Commonality of Transmitter and Receiver Test Requirements for FDD and TDD Terminal Conformance Specification.	T1/RF	8c		agreed
T1-020168	T1/RF status report	T1/RF chairman	8c	181	revised
T1-020169	RRM Tests Progress Review	RF chairman			noted
T1-020170	Revision of 149	T1/RF			agreed
T1-020171	CR to 34.121 on Correction of power spectral density definition	T1/RF			agreed
T1-020172	T1-01 v2	RF chairman			noted
T1-020173	Brief report of coordination between 3GPP and IETF	John Fenn	7d		noted
T1-020174	LS to CN1 on Network initiated PDP context activation request for an already activated PDP context (on the mobile station side)	T1/Sig	8c	186	revised
T1-020175	Functional priorities of operators	Hutchison3G, mmO2, NTT DoCoMo, Orange, Sonera, Telecom Italia, Vodafone	7k		noted
T1-020176	T1 work plan	Peter George	7c	180	revised
T1-020177	UnLocking of current Prose/TTCN implementation from rel'99, version June'01	Paul Simmons	7f		noted

T1-020178	Revision of 129	Vodafone D2			agreed
T1-020179	NVIOT status report	Nortel			noted
T1-020180	Revision of 176	Peter George			agreed
T1-020181	Revision of 168	T1/RF chairman			noted
T1-020182	LS to 3GPP/T (copy RAN) on Unlocking of current Prose/TTCN from rel'99, version June'01	T1		187	revised
T1-020183	LS to T and GERAN on Funding of GERAN to UTRAN Inter-RAT TTCN Test Case implementation	T1			rejected
T1-020184	CR to 34.108 on Clarification of bit rate of Interactive/Background PS RAB function (Rel-4)	T1/Sig			agreed
T1-020185	Revision of 94	T1			agreed
T1-020186	Revision of 174	T1			agreed
T1-020187	Revision of 182	T1			agreed

Annex C. List of LSs out

Tdoc number	Title	From	To	CC
T1-020130	Liaison Statement on deletion of power control algorithm 2 from R99	T1/RF	R1	R2, R4, T1
T1-020166	Liaison Statement on Test parameters of Measurement Performance test cases	T1/RF	R4	T1
T1-020185	LS to RAN1 and RAN2 in response to T1-020025, LS on 34.108 Updates	T1	R1, R2	T, RAN
T1-020186	Liaison Statement on Network initiated PDP context activation request for an already activated PDP context (on the mobile station side)	T1	CN1	-
T1-020187	Liaison to 3GPP/T on Unlocking of current Prose/TTCN from rel'99, version June'01	T1	T	RAN

Annex D. Proposed Meeting Schedule for TSG-T1

3GPPT-#15	**6 - 8 Mar 2002**	**KOREA**
3GPPSA-#15	**11 - 14 Mar 2002**	**KOREA**
3GPPRAN2-#28 (CHANGED!)	8 - 12 Apr 2002	Japan
3GPPGERAN-#9	15 - 19 Apr 2002	TBD
3GPPT2-#17	13 - 17 May 2002	TBD
3GPPRAN4-#22	13 - 17 May 2002	Korea
3GPPRAN2-#29	13 - 17 May 2002	Korea
3GPPT1-SIG	20 –22 May 2002	Sweden (hosted by Ericsson)
3GPPT1-RF	20 –22 May 2002	Sweden (hosted by Ericsson)
3GPPT1-#15	23 –24 May 2002	Sweden (hosted by Ericsson)
3GPPT-#16	**5 - 7 Jun 2002**	**Marco Island, Florida, USA**
3GPPSA-#16	**10 - 13 Jun 2002**	**Marco Island, Florida, USA**
3GPPRAN2-#30	24 - 28 Jun 2002	Italy
3GPPGERAN-#10	24 - 28 Jun 2002	TBD
3GPPT1-SIG	29 -31 July 2002 TBD	Japan (hosted by Anite * DoCoMo)
3GPPT1-RF	29 -31 July 2002 TBD	Japan (hosted by Anite * DoCoMo)
3GPPT1-#16	1 – 2 Aug 2002 TBD	Japan (hosted by Anite * DoCoMo)
3GPPRAN4-#23	12 - 16 Aug 2002	TBD
3GPPT2-#18	19 - 23 Aug 2002	TBD
3GPPRAN2-#31	19 - 23 Aug 2002	Sophia Antipolis, France
3GPPGERAN-#11	26 - 30 Aug 2002	TBD
3GPPT-#17	**4 - 6 Sep 2002**	**FRANCE**
3GPPSA-#17	**9 - 12 Sep 2002**	**FRANCE**
3GPPRAN2-#32 (CHANGED!)	23 Sep - 27 Oct 2002	North America
3GPPT1-SIG	4-6 Nov 2002	UK (hosted by Anritsu)
3GPPT1-RF	4-6 Nov 2002	UK (hosted by Anritsu)
3GPPT1-#17	7-8 Nov 2002	UK (hosted by Anritsu)
3GPPRAN4-#24	11 - 15 Nov 2002	TBD
3GPPRAN2-#33	12 - 15 Nov 2002	China
3GPPT2-#19	18 - 22 Nov 2002	TBD
3GPPGERAN-#12	18 - 22 Nov 2002	TBD
3GPPT-#18	**4 - 6 Dec 2002**	**USA**
3GPPSA-#18	**9 - 12 Dec 2002**	**USA**

History

Date	Revision	Comments
26/02/02	0	First draft
27/02/02	1	Inclusion of CR list, corrections
01/03/02	2	Comment from Mr Guillot

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

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