TSG T WG1
Conformance Test Specifications
Status Report to T#23, Mar 04
Phoenix, Arizona

Phil Brown, NTT DoCoMo

T1 Chair

Alain Sultan, MCC

T1 Secretary

TP-040034

General update since – T#22

- T1#22 was held in Hyderabad, India 2 – 6 Feb 04
- Hosted by Motorola and attended by 55 delegates
- Approximately 400 documents processed during the Plenary resulting in approximately 170 docs submitted for approval
- Significant ramp in TTCN test case approvals since T#22

The draft report can be found in TP-040035 for information

T1 Leadership Team Update

T1 Chair	Phil Brown NTT DoCoMo
T1 Vice Chairs	Dan Fox, Anritsu
	Hisashi Nakagomi, NTT DoCoMo
RF Functional Area	
Convener:	Carolyn Taylor, Motorola
Assistant:	Mike Page-Jones, Siemens AG
Sig Functional Area	
Convener:	Dan Fox, Anritsu
Assistant:	Kazuo Hayashi, Panasonic PMC
ETSI Support	Alain Sultan

RF Group Update

- **Main topics to be covered:**
  - RRM Progress
  - Routine Maintenance
  - Status of RF specifications
  - Versions of RF specifications

RRM Progress

- The proportion of complete RRM tests is approximately 40%
- There has been good progress on outstanding RRM test cases
    - Six more RRM tests have been completed

RRM Tests	Before T1 #22	After T1 #22	~Projected T1#23
GCF group 1 (8 tests)	1/8 (12%)	4/8 (50%)	8/8 (100%)
GCF group 2.1 (21 tests)	7/21 (33%)	9/21 (45%)	15/21 (70%)

Routine Maintenance

- Follow up database maintained by Nokia
- Provides assistance in tracking the changes to core specifications that are not covered by relevant test specification CRs
- Updates made in accordance with the latest core specifications

Status of RF Specifications

- **TS 34.121**
  - Sect 5 100%
  - Sect 6 100%
  - Sect 7 98%
  - Sect 8 (RRM) 40%*
- *Estimated to be 50% by Jun 04
- *Estimated to be 100% completion of GCF priority 1 tests by Jun 04

- **TS 34.122**
  - Sect 5 90%
  - Sect 6 90%
  - Sect 7 85%
  - Sect 8 (RRM) nil

Versions of RF Specs

	Current	For Approval
TS 34.121 Rel5	5.2.0	5.3.0

CRs for 34.121 (Rel5), presented in TP-040038 for approval

Signalling Group Update

- TS 34.108 Common Test Environment for UE Conformance Tests
- TS 34.123 – 1 Prose test specifications
- TS 34.123 – 2 Applicability Statement
- TS 34.123 – 3 TTCN Test Specification
- Release and Configuration Manager for MCC 160

TS 34.108

- Rel 4 specification has accumulated some 'parked' Rel 5 features as a temporary measure, but T1 needed to find a longer term solution
  - Agreed to create a single version across all releases
  - Areas that mix R99, 4 & 5 information (such as message contents) will contain an additional column that indicates which release(s) these contents apply from, or to
  - Areas that apply only from (or to) a specific release will be labelled as such in the section heading

TS 34.108…(2)

- A schedule for this change was agreed at T1#22 as:
  - A REL5 version of TS 34.108 V5.0.0 will be created
  - For the next T1 meeting (T1#23) mirror CRs will be required for the R99 and REL4 versions
  - Post T1#23 content to be merged into the REL5 version and REL4 and R99 versions will be given pointers to REL5

CRs for 34.108 (R99 & Rel4) are presented in TP-040037 for approval

- Corrections to prose test cases coming from issues found during the verification of the TTCN

- Ongoing discussions over the handling of critical versus non-critical CRs to already approved test cases:
    - The issue is whether T1 should freeze approved test cases to maintain momentum and focus effort on debugging new test cases, or continue to refine the quality of already approved test cases, possibly compromising log term quality?

- Current status is that there is no consensus to date, but discussions are raised on the reflector and the aim is to reach a decision making mechanism by T1# 23
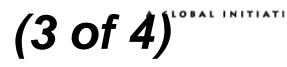
- Ongoing discussions over what to do with the remaining unapproved tests with outstanding technical issues (or unstable core specifications) in the GCF's Priority 1 and 2 batches, as they near completion
  - Incomplete packages (e.g. where 80% cannot be reached) could halt progress
- Current status is that it was agreed that such problematic cases should remain in their GCF allocated batch, but not considered when calculating the completion percentage. This decision in T1 has allowed rapid progress on batch 3 tests.
  - T1 must ensure that problematic test cases are not 'forgotten'

- T1 was asked to split some test cases into high and low data rate variants in order to allow GCF validation to proceed with the low data rate ones (currently there are no terminals supporting the higher data rates and so those paths through the test case are un-verifiable)

- T1 agreed and processed a CR to do this, but has a longer term concern that this approach will create problems. Some test cases have many paths which will not be verifiable with UEs for years. This could cause a lot of additional work for T1 if all these tests need to be split.

- An LS was raised to the GCF to flag up the problem

CRs for 34.123-1, presented in TP-040040 for approval

- First A-GPS test cases (prose) were submitted for approval
  - The issue of the stability of the current RAN4 performance specifications for A-GPS was raised because it is difficult to specify the environment for testing (e.g. signal levels).
  - CR has now been deferred to the next T1 meeting for further discussion
  - Next meeting is co-located with RAN4

TS34.123 – 2

Updated to reflect changes in TS34.123 – 1

CRs for TS 34.123-2 are presented in TP-040041 for approval

TS34.123 – 3 (TTCN)

- Automatic Document Numbering (ADN) process introduced for TTCN CRs
- Added GPRS GERAN ASPs to control SS
  - This will allow GPRS<>UMTS InterRAT tests to be drafted

LATEST STATUS @ 5 Mar 04

	At TP 22	Now
GCF Batch 1	83	88 (89%)
GCF Batch 2	22	55 (58%)
Total	105	143

There are also 51 more test cases pending approval, some of which may be email approved before the end of T#23, so there may be a batch for T approval on Friday

CRs for 34.123-3 are presented in TP-040042 to TP-040044 for approval

Release and Configuration Manager (RCM) for MCC 160…

- RCM function was put undertaken by a caretaker from one of the TTCN verification teams prior to selection

- RCM selected by T1 Leadership and the MCC TF 160 project manager on 14 Jan 04

- Introduction of this role has seen a huge improvement in the availability of verified test cases, for example 46 test cases in 8 weeks following the start of the RCM function compared with none in the previous 8 weeks!

HSDPA Progress …(1)

- Rohde & Schwarz presented an excellent HSDPA tutorial
- Test uncertainties for some performance requirements (HSDPA) added to Annex F of 34.121
- During HSDPA discussions, no agreement was reached on deciding the best approach for testing the minimum requirements.
- Joint T1-RAN4 HSDPA ad hoc planned in May 04

HSDPA Progress… (2)

- Meeting between T1 officials and those mainly involved in HSDPA tests agreed that RF and Signalling issues were defined clearly enough such that HSDPA work can continue separately within the two groups

- HSDPA common signalling added to 34.108

- HSDPA RAB configurations added to 34.108

- 13 HSDPA protocol test cases were added to 34.123-1 (MAC-hs, RRC, SM and Radio Bearer)

- The above indicates that work is being undertaken although it is not a priority

LCR TDD

- Workshop held at ETSI, Sophia Antipolis, 12 - 14 Jan 04 to develop a strategy for creating a set of LCR TDD test suites re-using the existing FDD tests
  - Current TDD UEs and infrastructure use REL4 Dec 02 version
  - Plan is to take a branch from the current FDD ATSs and convert to TDD. This will require some duplication of maintenance into both branches, but will mean that TDD work will not hold up progress on FDD
  - Resource will be provided mainly by voluntary contribution from CCSA and TDIA working alongside TF 160 for the next 3 months. Outcome is critical to future backing by TDIA

Previous Areas of Concern

Slow progress in completion of RRM test cases

– This is being addressed and a plan is in place to ensure accelerated progress but more resources are welcome – IT IS STILL A CONCERN

Multi-tasking of T1 secretary

– T1 has adopted the ADN scheme and MCC has provided additional part time administrative support for routine T1 requirements. Also the RCM is assisting in the uploading of TTCN files. These actions have alleviated many problems.

Misalignment of inter RAT test cases between T1 and GERAN

– GERAN has responsibility for GERAN TO UTRAN HO prose tests but T1/ETSI MCC 160 is responsible for the TTCN development thus creating problems of TTCN & Prose mis-alignment

– GERAN want to keep responsibility for 2G->3G direction, and have asked to use T1 TTCN approval process. But this does not solve the problem of maintaining TTCN code shared between both specifications.

– Whilst T1 must allow GERAN to instigate its processes, it will track progress closely to 'head off' potential conflicts – IT IS STILL A CONCERN

The Way Ahead – T1 Chair's 3 Month Aspirations @ Dec 03

- **Update on progress in red**
- **Support to GCF for TTCN verified test cases**
  - Deliver minimum 95% of package 1 by mid Mar 04   89%
  - Deliver minimum 80% of package 2 by mid Mar 04   80% Submitted
  - Deliver minimum 40% of package 3 by mid Mar 04   33% Submitted
- **Introduce Test Tolerance to at least 6 more of the outstanding RRM test cases** ✓
- **Select RCM for MCC 160 (to start work in late Jan 04)** ✓
- **Develop strategy to include TDD LCR conformance testing into the current TTCN programme (workshop Jan 04)** ✓

The Way Ahead – T1 Chair's 3 Month Aspirations @ Mar 04

- **Support to GCF for TTCN verified test cases**
  - Deliver minimum 95% of package 1 by mid Jun 04
  - Deliver minimum 80% of package 2 by mid Jun 04
  - Deliver minimum 70% of package 3 by mid Jun 04
- **Introduce Test Tolerance to at least 6 more of the outstanding RRM test cases**
- **Start work on TDD LCR TTCN test case implementation**
- **Introduce Rel 5 version of TS 34.108 for approval at T#24**
- **Undertake joint T1 RAN4 ad hoc on HSDPA issues**

Future Meeting Schedule

Meeting	Dates	Location/Host
T1 #23	10 – 14 May 04	Beijing, (DaTang Mobile)
T1 #24	26 – 30 Jul 04	Vancouver, (NA F of 3GPP)
T1 #25	1 – 5 November 04	Malta, (E F of 3GPP)

Summary of Input Docs

- T1 Status Report   TP-040034 Presentation
- Minutes of T1#22   TP-040035 Information
- MCC TF 160 Report   TP-040036 Approval
- CRs to 34.108   TP-040037 Approval
- CRs to 34.121   TP-040038 Approval
- CRs to 34.123-1   TP-040040 Approval
- CRs to 34.123-2   TP-040041 Approval
- CRs to 34.123-3   TP-040042 Approval
- CRs to 34.123-3   TP-040043 Approval
- CRs to 34.123-3   TP-040044 Approval
- Updated MCC TF 160 ToR   TP 040045 Approval