

TSG-T#13

Progress Report

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Contents

- **Progress Report & Issues**
 - T1: Conformance Testing
 - T2: Terminal Services and Capabilities
 - T3: USIM
 - EP SCP Activities for Info.
- **TTCN**
- **Other information**

T1 Conformance Testing (1)

- TS 34.108 “Common test conditions for UE conformance testing”
 - Issues:
 - Introductions/corrections of some RBs on the request of RAN WGs
 - Introduction of RBs, ... for TDD mode.
 - A CR to create REL-4 version with the introduction of LCR TDD was approved
 - RF conditions for signaling tests will be completed at the next meeting
- TS 34.121 “Terminal Conformance Specification (FDD)”

– Maturity Level	T#12	T#13
Transmitter	95%	100%
Receiver	95%	95%
Performance	90%	95%
Support of RRM**	20%	20%
Annex	100%	100%

Total test time: BER measurement needs further investigation.

**ad hoc meeting on RRM scheduled in October 11 - 12

T1 Conformance Testing (2)

- TS 34.122 "Terminal Conformance Specification (TDD)"

– Maturity Level	T#12	T#13
Transmitter	90%	95%
Receiver	90%	95%
Performance	70%	95%
Support of RRM**	0%	0%
Annex	80%	90% (Test Tolerance)

** ad hoc meeting on RRM scheduled in October 11 - 12

T1 Conformance Testing (3)

- TS 34.123-1 “UE Conformance Specification, Part 1 – Conformance specification”
 - Contains text description of the protocol test cases
 - Creation of REL-4 with the introduction of some test cases for LCR TDD
 - Test cases for R99 and REL-4 are merged into one document to increase visibility and minimize maintenance
 - The applicability table in 34.123-2 indicates for which releases the individual test cases are valid for
 - As discussed last time and as GERAN does. A trial period of 1/2 year foreseen.
- TS 34.123-2 “UE Conformance Specification, Part 2 - ICS”
 - Maps protocol test cases to the relevant UE capabilities
 - REL-4 created and merged with R99 as for 34.123-1

T1 Conformance Testing (4)

- TS 34.123-3 “UE Conformance Specification, Part 3 - ATS”
 - TTCN test specifications for the test cases described in part 1
 - 500 TTCN Test Cases can be downloaded from the server.
 - TTCN development will be temporarily locked on to the core specifications produced after TSG#12 to improve the quality of TCs
 - **This process, stabilizing the TCs, will take about 6 months. Updating TCs to current version will then take additional 3 months.**
- TS 34.910 “Identification of Test requirements for regulatory purposes in different regions/countries”
 - Expanding the scope of document
 - list all requests for priority of test cases
 - The document will thus not only carry information on the priorities due to regulatory requirements, but also include sorted information on interoperability and other requirements
 - Completion will be delayed
 - Detailed format for the proposal will be produced at the next meeting

T1 Conformance Testing (5)

- Task 160 (Status Report in TP-010182)

- Y 2001 Funding & Contracts

Total received for 2001	52 mm
Received 3GPP funding:	38 mm
Voluntary contribution:	14 mm
Reallocation to 2000 (contracted):	- 2 mm
Contracted in 2001 (incl. free of charge)	
Contracted at the 1 st half of 2001:	-26 mm
Contracted at the 2 nd half of 2001:	-24 mm
Balance:	0 mm

- For Y2002 and 2003, T1 proposed and TSG-T endorsed to keep the same level of funding (58 mm) for the task 160
- Three proposed changes in the splitting of the 2002 funding were endorsed
 - Give the R99 FDD maintenance more weight
 - TDD TTCN drafting will go for Rel 99 & REL-4 together (3.84 + 1.28 Mcps)
 - Add ROHC PDCP test in TTCN REL-4

T1 Conformance Testing (6)

- Task 160 (Continued)
 - Good progress in implementing of TTCN Test Cases (TCs)
 - TTCN V104 & V105 delivered
 - based on the core specs. R99, March 01 and 34.123-3 and V105 is compilable
 - 500 test cases available
 - New L2 (PDCP, BMC, MAC) test cases included
 - A complete set of Idle mode multi-cell tests
 - 95% NAS, 80% RRC test cases completed
 - Multi-RAT (UTRAN → GERAN HO + idle mode) test started
 - Test model and test architecture established
 - ASPs (Abstract Service Primitive) for CS HO defined

T1 Conformance Testing (7)

- Task 160 (Continued)

Y2001 Delivery Schedule

Delivery Time	Number of Test Cases	Comments
May 01	400	T1#11, add security feature, on the T1S server.
July 01	450	T1S#18, on R99 March 01
Sept 01	500	T1#12, on R99 March 01, improved syntax check, new MAC and PDCP tests
Oct 01	520	on R99 June 01 (34.123-1, v350), a complete set of the L2 (RLC, MAC, PDCP & BMC) tests, 1 st multi-RAT test, creation of the verification database.
Nov 01	550	T1#13, on R99 June 01, a complete set of the NAS tests, new RAB and multi-RAT tests
Jan 02	580*	A complete set of FDD tests and approaching the completion of TTCN draft for FDD on R99 June 01 NB: The test coverage will be increased as benefit from the freezing of the core spec. version.

T1 Conformance Testing (8)

- **Development & Deployment of TTCN Tests for 3GPP Terminals Discussion (SP- 010562)**
 - **Successful 3G service requires wide availability of interoperable terminals**
 - In order to ensure interoperability between networks and terminal equipment timely development of unambiguous conformance test suite is a must
 - TTCN provides the best approach for unambiguous test suites
 - The funding of teams of experts has proved to be the most efficient and cost-effective way to develop TTCN specifications compared to voluntary committee contributions
 - **TSG-T seeks TSG-SA's endorsement for support of MCC Task 160**
 - Original estimate for MCC Task 160 was overrun due to maintenance on continuing changes in core specifications
 - **TSG-T seeks voluntary contributions from member companies since continued financial support from SDOs is difficult.**

T2 Services & Capabilities (1)

- **MExE**
 - “MExE Enhancements Rel-5” on schedule
 - Revised WID on “MExE Security Analysis Rel-5” approved (TP-010195)
 - But still no progress on this part of the MExE work
 - Incorporated user equipment management aspects
 - MExE Classmark4 based on CLI (Common Language Infrastructure)
 - CRs will be presented to T2 plenary in November, T#14 in December
 - Actions were agreed to make MExE more commercially focused
 - E.g. identify reduced implementation (‘Lite’) requirements
 - Discussion on general Application Level Security Framework

T2 Services & Capabilities (2)

- **UE interfaces and capabilities**
 - Revised REL-5 WID “Terminal Local Model” approved (TP-010224)
 - Incorporated Testing aspects
 - Some work on Generic User Profile (WID: TP-010197) will be handled by T2
 - The 3GPP Generic User Profile (stage 2) - Data description framework
 - Common rules on how to specify User Profile Components
 - The 3GPP Generic User Profile (stage 3) - Common objects
 - To avoid conflicting specifications on the same data
 - Joint meeting with SA1 on UE Functionality Split
 - Draft UE functionality split TR reviewed and modified
 - Device Management
 - Agreed to manage the process of linking to external technology initiatives
 - Like SyncML and the WAP Forum’s WPG Client Provisioning Drafting Committee TM
 - TSG-T2 has highlighted the importance of security matters to SA3 with regard to generic user profile and to the device management

T2 Services & Capabilities (3)

- **Messaging**
 - **MMS**
 - MMS REL-5 behind schedule: 5-day ad hoc scheduled
 - T2 invites SA5 to the next ad hoc to work on open MMS charging issues
 - T2 proposed SA4 to transfer the responsibility of the MMS codecs to SA4
 - **EMS**
 - TSG-T agreed to request T2 to freeze the EMS work by T2 #15
 - Any exceptions to this would need to be endorsed at TSG-T #14
 - Introduction of Hyperlink Information Element
 - To send a hyperlink inside an SMS message CR 23.040-029

T2 Services & Capabilities (4)

- **Future Joint Meetings for info**
 - **Proposed T2/SA1 AdHoc on UE Functionality Split**
 - Cancun Mexico (during TSG T2#15), details tbd
 - **Proposed T1/T2 AdHoc on Application enabler testing (incl. MExE testability interface) / UE Functionality split / testing aspects of Terminal Local Model**
 - Cancun Mexico (during TSG T2#15), details tbd
 - **Proposed T2/SA5 AdHoc on UE Management**
 - Cancun Mexico (during TSG T2#15), details tbd
 - **SA1/SA2/SA3/SA4/SA5/CN4/CN5/T2/T3 AdHoc on User Profile – data description framework**
 - Potential host in Germany, 8-9 October 2001
 - **SA1/SA2/SA3/SA4/SA5/CN4/CN5/T2/T3 AdHoc on User Profile – stage 1/2**
 - Potential host in Germany, 10-12 Oct 2001

T3 USIM (1)

- **New Rel-5 Technical Specifications on USAT Interpreter**
 - This feature allows end-to-end communication between a (U)SIM application and a server in the network. This is achieved by specifying components and protocols for a secure channel between the internet application server and an interpreter on the USIM.
 - TS 22.112 USAT Interpreter stage 1 was approved at TSG-T #11
 - this was originally approved for Rel-4, but now moved to Rel-5
 - Two new stage two specifications approved at TSG-T #13:
 - TS 31.112 USAT Interpreter; Architecture Description (REL-5)
 - Defines role models, system architecture, information flow
 - TS 31.113 USAT Interpreter; Byte Codes (REL-5)
 - Specifies byte codes recognised by interpreter

T3 USIM (2) – Special Issues

- SA3 has proposed a new entity for IMS called the ISIM
 - ISIM could be a separate application on the UICC
 - T3 has not yet evaluated this or other potential solutions
 - Consequently, it is doubtful whether this work would be complete before June 2002
- GPRS operator preferences
 - TSG-T “re-approved” two Rel-4 CRs (originally from TSG-T #12) to allow the storage of default GPRS call parameters to be used when the user is roaming and the visited network does not specify the required values.
 - SA #12 had requested the postponement of these CR to allow the service requirements to be confirmed. SA1 has now addressed this point and SA#13 approved the SA1 CR on Monday.

T3 USIM (3) – Main Ongoing work

- Definition and specification of a UICC/USIM Transport Protocol specific to the (U)SIM application
- Storage requirements for MMS
 - LS received from T2 at the last meeting with requirements. T3 expect to elaborate CRs at the next T3 meeting.
- USAT Interpreter Protocol and Administration
 - this will allow the administration of the USAT Interpreter
- Discussion with EP SCP about splitting the secure messaging and API specifications into a 3G specific part (under T3 control) and a generic part (under EP SCP control)

EP SCP Activities for info.

- SCP recently created three Working Parties
 - WP1 Architecture
 - WP2 Security
 - WP3 Toolkit and API
- SCP approved one new specification
 - TS 102 223 Card Application Toolkit (CAT)
 - 3GPP2 will also refer to this specification
- Discussions with members of financial sector continuing on transforming EP SCP into a partnership project

Other Information

- Discussion on IMS issues
 - TSG-T reviewed TP-010179, TP-010211
 - TSG-T will wait for TSG-SA#13 decision on freezing date of REL-5
 - Opinion of TSG-T to TSG-SA#13 discussion regarding IMS features
 - End-to-end QoS (SA2) - impact on T2 not clear (probably none)
 - UE functionality split - work not likely to be completed in time for rel-5;
 - MMS and MExE interaction not needed for Rel-5 IMS
 - ISIM work unlikely to be completed before stable SA3 specs
- T2 dealt with 52 incoming LSs at their last meeting, and many other 3GPP WGs have a similar problem of spending too much meeting time with LSs. Delegates should always carefully consider whether there is a real need to send and copy LSs to various groups.