

TSG-T#15

Progress Report

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T1 Conformance Testing (1)

- Revised T1 Work Plan was approved (TP-020044)
 - General updates and a new WI “A feasibility study on MExE testing”, defined together with T2
- Status of Specifications
 - TS 34.108 “Common Test Conditions for User Equipment (UE) Conformance Testing”
 - 14 CRs were approved (7 CRs R99, 7 CRs REL-4)
 - CRs for introduction of new RABs from R1 and R2 were approved
 - TR 34.910 Identification of Test requirements for regulatory purposes in different regions/countries
 - This report accumulates all input on the priority of the T1 implementation of test case.

T1 Conformance Testing (2)

- Status of Specifications (Continued)
 - RF Test Specifications
 - Main RF Tests
 - Maintenance of R99
 - Total Tests Time optimization (Release independent)
 - UMTS 1800 / 1900 (Release independent)
 - TDD specification aligned to FDD
 - RRM Test
 - FDD: Estimated coverage 43.2% (19/44)
 - TDD: Estimated coverage 22.2% (4/18)

T1 Conformance Testing (3)

- Estimated Completeness R99 of RF Test Specs.

FDD	TS 34.121	Core specs
Transmitter	100%	100%
Receiver	100%	100%
Performance	100 %	100%
Support of RRM Annex	43% (5 new TCs)	98%
	100%	
TDD	TS 34.122	Core specs
Transmitter	100%	100%
Receiver	95% - 100%	100%
Performance	100%	90%
Support of RRM Annex	22% (4 New TCs)	82%
	90% - 100%	

T1 Conformance Testing (4)

- **Status of Specifications (Continued)**
 - **Signaling Test Specs.**
 - TS 34.123-1 “UE Conformance Specification, part 1 – Conformance Statement”
 - 47 CRs were approved
 - TS 34.123-2 “UE Conformance Specification, part 2 – ICS Implementation Conformance Statement”
 - 14 CRs were approved
 - **Unlocking of current Prose/TTCN (TP-020055)**
 - TSG-T/RAN joint meeting was held on March 6
 - Decision: T1 should aim Prose/TTCN test cases at March 2002 version of the R99 core specs and should in the future always aim for the latest version of the core specifications.
 - TSG-RAN will indicate any influence on test specifications on future CRs.

T1 Conformance Testing (5)

- **Status of Specifications (Continued)**
 - **Status of TTCN (TP-020037)**
 - **TS 34.123-3 “UE Conformance Specification, part 1 – Abstract test suites**
 - 600 TTCN test cases can be downloaded from the server
 - » Verification database is running, 200 problems reported and fixed
 - » Almost full TTCN coverage of Prose test cases
 - Reporting all observations connected to the use of the TTCN to the neutral database of ETSI is VERY IMPORTANT
 - The updating of the TTCN to newer versions of the core specifications was not foreseen at the time of estimating the requirements for funding. The updating to the March version is estimated to require an additional 15MM.
Advice of SA is sought!
 - Funding and resourcing of GERAN to UTRAN Inter-RAT TTCN Test Case implementation (6MM estimate) was discussed. TSG-T believe it to be a problem that currently no TTCN implementation of the GERAN-UTRAN Inter-RAT test cases is planned. Thus only UTRAN-GERAN Inter-RAT can be tested with test equipment using 3GPP TTCN.
The opinion and advice of TSG-SA is sought!

T1 Conformance Testing (6)

- Other Issues
 - Test case prioritization
 - High/low priority of existing TCs defined
 - 3 'packages' defined for the high priority TCs.
 - Prose and TTCN Test cases for 'package 1' should be stabilized by T1 in May and working in commercially available in test equipment by Oct-Nov 2002.
 - Contents and timing of Package 2 & 3 are still to be stabilized.
 - RAN and CN are kindly asked to review the test cases of their respective areas and to indicate to T1 misalignment with core specifications and any missing test cases.
 - Type Approval
 - All RF test cases required for regulatory needs in Japan and in Europe are estimated to be stable

Prioritisation of test cases for implementation

Package	Category	Description	# of TCs in category	Total # in Package
1	A	Idle mode – basic, pure 3G	3	107
	B	Essential procedures (AS + NAS) and reference RABs for single service - MO call - MT call - PS data (UL&DL <= 64 kbps) - CS data UL&DL= 64kbps - Speech + PS data 64kbps	23	
	C	RLC, MAC toolbox	40	
	D	RRC success cases (including Active Set Update, required measurements for Soft Handover and a minimal number of Mobility tests, but excluding re-configuration, cell reselection and hard & inter-RAT HO).	41	
2	E	RRC success cases for re-configuration, cell reselection and handover inter-RAT), and measurement control (complete, i.e. tests which are not covered by category D).	48	95
	F	Idle Mode – Inter-RAT 2G/3G	8	
	G	HO Inter-RAT 3G/2G	4	
	H	PS data (UL<=64kbps, DL<=128 kbps)	4	
	L	PS data (UL<=64kbps, DL<=384 kbps)	3	
	I	Simultaneous services, Speech + PS (one additional combination to category B)	1	
	J	All Mobility tests	27	
3	K	Idle mode - increased coverage, pure 3G	6	116
	M	Simultaneous services, Speech + PS (all combinations)	1	
	N	CS data	7	
	O	Increased coverage of NAS procedures	38	
	P	Failure cases	64	
Total # of High-Prio test cases:				318

T2 Services & Capabilities (1)

- MExE
 - MExE Enhancements REL-5 is completed
 - 11 (1 REL-4, 10 REL-5) CRs were approved
 - Classmark4 Common Language Infrastructure (CLI) for REL-5 completed
 - ORPK no longer mandated in the ME
 - TS 23.057 MExE REL-6 will be more readable and easier to implement.
 - First MExE conformance test created by T2 and presented to T1.
- UE Interfaces and Capabilities
 - 11 CRs were approved
 - Good progress for TS 23.241 (Data Description Framework) within the Generic User Profile work
 - [SP-020152](#) is an LS from T to SA on coordination of the GUP related work
 - Prioritisation of activities necessary for GUP REL-6
 - Joint effort needed for the data description development, in particular the data modelling phase
 - Joint work with SA5 ongoing on UE Management and Subscription Management

T2 Services & Capabilities (2)

- Messaging
 - MMS REL-5 is completed except MM7 reference point stage 3 (3GPP) and MM1 stage 3 (WAP Forum)
 - 31 CRs were approved (3 REL-4 and 28 REL-5)
 - Key items resolved for REL-5 include
 - Address resolution/MNP, MM4 enhancements, MM7 stage 2, Persistent storage, USIM aspects, MMS charging, Header mapping, Detection of duplicate messages, Terminal capability negotiation on MM1, Addressing on MM1
 - REL-4 UICC will support MMS functionality for REL-5 and onwards.
 - Excellent job by Messaging SWG
 - EMS REL-5 is completed
 - Key items resolved for REL-5 include:
 - Vector Graphics (based on WVG, Wireless Vector Graphics)
 - Polyphonic Sound (extended object data format for SP-MIDI)
 - SMS REL-5 completed
 - 5 CRs were approved (1 R99, 1 REL-4, 3 REL-5)
 - Key items resolved for REL-5 include:
 - Sub Addressing Scheme
 - Alternate Return Address

T2 Services & Capabilities (3)

- TSG-T#15 decided not to include TR 27.903 “Discussion of synchronization standards” in REL-5, all other T2 TSs/TRs will be part of REL-5
- 2 proposed WIDs for REL-6 agreed
 - MExE enhancements (TP-020017)
 - MExE REL 6 work will include general enhancements, investigation of support for VHE, USAT, OSA, CAMEL, security enhancements, terminal management, service provisioning
 - MExE Run-Time Independent Framework Feasibility Study (TP-020086)
 - To conduct analyses of the existing MExE Security Framework, Capability Negotiation, Content Negotiation, and Service Management for effectiveness in building an efficient scheme that applies to a run-time-independent UE application environment

T3 USIM (1)

- **Approved Specification**
 - **TS 31.114 USAT Interpreter; Protocol and administration (REL-5)**
 - **Part 3 of USAT interpreter work item**
 - Defines transmission protocol between USAT Interpreter and USAT Interpreter Gateway System, structures to administer the Interpreter
- **New Specs. were created and presented for information**
 - **Split of existing document(TS 23.048) into application independent and application specific parts**
 - **TS 31.115 Secured package structure for (U)SIM Toolkit applications**
 - definition of structure of Secured Packets in SMS-PP and SMS-CB
 - specification contains the 2G/3G specific part of TS 23.048
 - **TS 31.116 Remote APDU Structure for (U)SIM Toolkit applications**
 - specification contains the 2G/3G specific part of TS 23.048

It was agreed that both specifications could be presented to T#16 in June as late REL-5 specifications if SCP agrees to have Rel-5 of their corresponding core specification (SCP #9 agreed to have the platform specifications for Rel-6)

T3 USIM (2)

- **Approved two new WIDs for test specifications**
 - **Security Mechanisms for the (U)SIM application toolkit Test specification (TP-020028)**
 - to achieve service interoperability between smart cards
 - document to be developed in a modular way in two stages -
 - first for REL-4 then this to be extended for REL-5
 - REL-5 for approval by TSG-T#21
 - **SIM API for Java TM -Test specification (TP-020029)**
 - to achieve interoperable application support
 - evolution/ extension of the current R98 version of TS 11.13 to REL-4
 - document for approval by TSG-T#17

T3 USIM (3)

- **Status of Specifications**

- TS 11.13 - Java™ API test specification
 - 1 CR agreed for Testing Framework Update
- TS 43.019 - (U)SIM API - Java™
 - 6 CRs were approved
- TS 23.048 - (U)SIM secure messaging
 - 3 CRs were approved
 - Clarification of Access Domain Parameter
 - Links between Open Platform Security Domain & Secure Messaging
- TS 31.114 – (U)SIM Application Toolkit
 - 4 CRs were approved
 - 2 Corrections related to coding of TLV Tag Values
 - Two features for REL-5 for TS 31.111

T3 USIM (4)

- **Status of Specifications**

- **TS 31.102 - Characteristics of the USIM Application**
 - 4 CRs approved
 - Call control on GPRS added to USIM Service Table
 - Introduction of MMS support
 - » Specification of elementary files and procedures for REL-4
- **TS 31.113 - USAT interpreter; Byte codes**
 - 4 CRs approved
- **TS 31.112 - USIM conformance test specification**
 - 2 CRs approved
- **TS 31.102 - SIM-USIM interworking**
 - 3 CRs approved

Other issues at TSG-T#15

- Presentation of WAP Forum on MMDC (TP-020061)
 - Close work in streaming with SA4, sharing of WAP confidential Docs, regular report to T2
- TSG-T thanked the departing secretary Michael Sanders for all his work and support over three years and wished him good luck

Down Under

- TSG-T welcomed as the new secretary
 - TSG-T: Friedhelm Rodermund
 - TSG-T3: Claus Dietze
- EP SCP activities for Info.
 - There has been no plenary meeting since SCP#8 in Kyoto, Japan (07-09 November 2001)
 - The 9th plenary meeting is in progress
 - Jeju, Korea, 11- 13 March 2002, hosted by Samsung

REL-5 status at TSG-T#15

All TSG-T work for REL-5 has been completed except the following:

- MMS MM7 Stage 3
 - Completion by June 2002
- MMS MM1 stage 3 (provided by WAP Forum)
 - Completion date unclear
- ISIM
 - Joint meeting planned in March 19-21 at ETSI
 - Requirements are still unclear
 - Completion by June 2002