

TSG-T#12

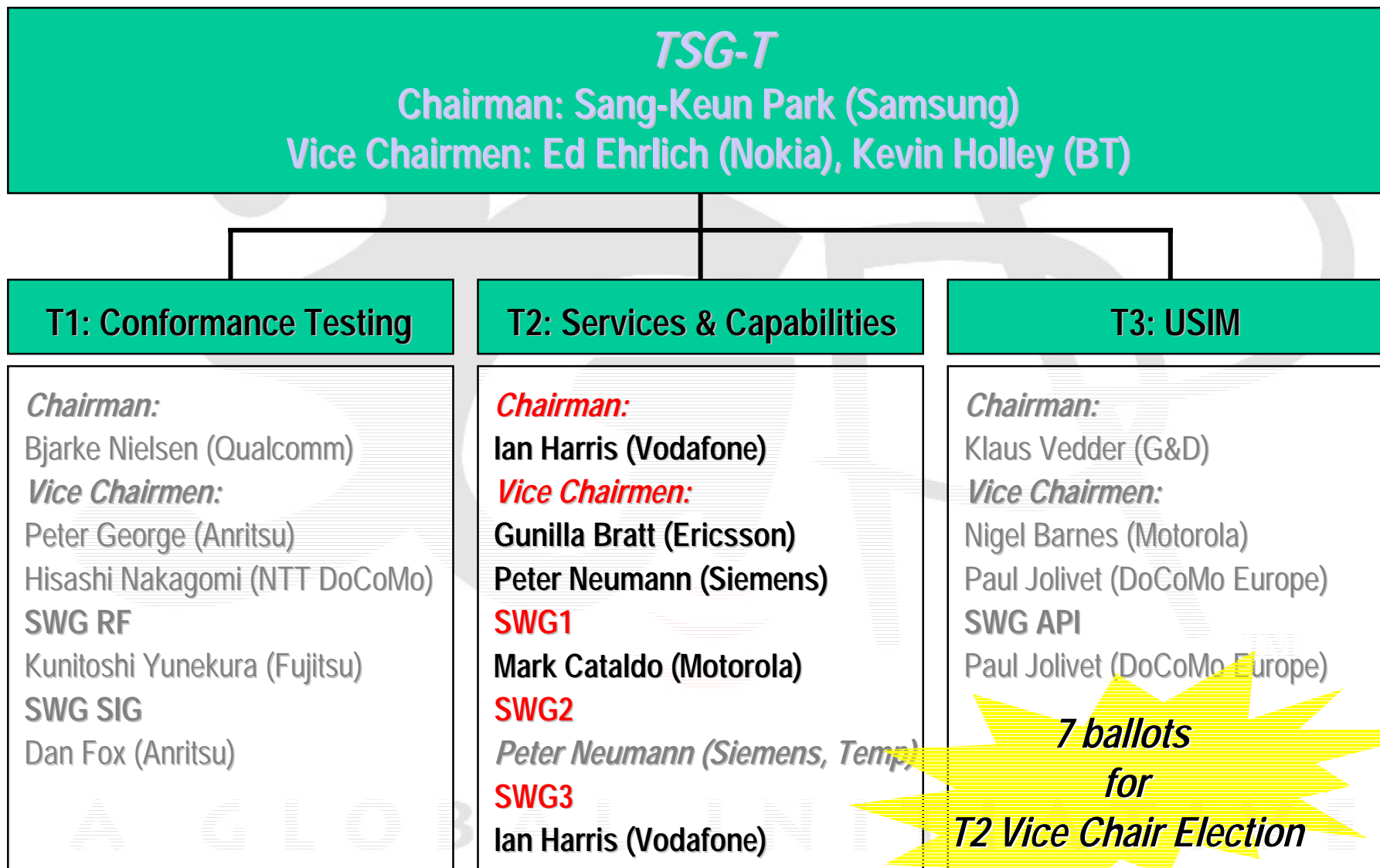
Progress Report

TSG-T Chairman
Sang-Keun Park
(SAMSUNG Electronics, TTA)

Contents

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

Structure of TSG-T



T1 Conformance Testing (1)

- ***TS 34.108 “Common test conditions for UE conformance testing”***
 - Issues:
 - RBs have been organised as RBs for interoperability tests and RBs for other functional tests
 - RF conditions for signalling tests will be discussed at next meeting
- ***TS 34.121 “Terminal Conformance Specification (FDD)”***

- Maturity Level

<i>Transmitter</i>	95%	
<i>Receiver</i>	95%	
<i>Performance</i>	90%	
<i>Support of RRM</i>	20%	<i>(ad hoc meeting with RAN 4 scheduled)</i>
<i>Annex</i>	100%	<i>(regulatory test tolerances included)</i>

T1 Conformance Testing (2)

- **TS 34.122 “Terminal Conformance Specification (TDD)”**

- **Maturity Level**

<i>Transmitter</i>	<i>90%</i>	
<i>Receiver</i>	<i>90%</i>	
<i>Performance</i>	<i>70%</i>	
<i>Support of RRM</i>	<i>0%</i>	<i>(ad hoc meeting with RAN 4 scheduled)</i>
<i>Annex</i>	<i>80%</i>	<i>(regulatory test tolerances to be included)</i>

- **Creation of TS 34.122 Rel-4**

- **Due to the inclusion of 1.28 Mcps TDD, (CR 34.122-035 in TP-010120)**

T1 Conformance Testing (3)

- ***TS 34.123-1 "UE Conformance Specification, Part 1 – Conformance specification"***
 - Contains text description of the protocol test cases
 - 27 CRs approved which reflect more than 300 changes and in more than 1700 pages
- ***TS 34.123-2 "UE Conformance Specification, Part 2 - ICS"***
 - Maps protocol test cases to the relevant UE capabilities
 - 14 CRs were approved
- ***TS 34.123-3 "UE Conformance Specification, Part 3 - ATS"***
 - Version 1.0.2 was submitted for information (TP-010124)
 - 400 TTCN Test Cases can be downloaded from the server
 - TTCN test specifications for the test cases described in part 1.

T1 Conformance Testing (4)

- **Task 160 (Status Report in TP-010117)**
 - **Overall**
 - PCG#6 approved advancing FY2002 budget to FY2001
 - FY2002, 2003 budget request is endorsed by PCG and will be discussed in Oct '01
 - **Good progress in implementing of TTCN TCs**
 - 60 new GMM TTCN test cases available, a total of 400 TTCN test cases included in 34.123-3 v1.0.2,
 - All test cases upgraded and largely updated,
 - » Added the security signalling feature (authentication, ciphering, integrity),
 - » Upgrade the test cases applicable for the class A mobile,
 - » Make the test cases configurable (number of cells, DL Tx power, on/off security ...)
 - **Basic framework still need to be proven by industry**
 - T1 will not submit TS 34.123-3 for approval until T1 gets feedback from the industry
 - Target is TSG-T#13
 - **TTCN maintenance is the major task in the TTCN team**
 - High CR volume in RRC affects the TTCN productivity.

T1 Conformance Testing (5)

- *Task 160 (Continued)*

- Verification

- TSG-T agreed that T1 should elaborate a method of indicating maturity levels as follows:
 - Stable on available industry equipment
 - Can be complied on at least one available complier
 - Passes syntax checker

- Schedule

- Next TTCN delivery will be in July 2001 based on R99 March 2001 version

		<i>June.01</i>	<i>Sep.01</i>	<i>Dec.01</i>
<i>Drafted R99 TCs</i>	<i>Idle mode</i>	<i>0</i>	<i>19</i>	<i>19</i>
	<i>Voice call</i>	<i>351</i>	<i>351</i>	<i>351</i>
	<i>CS data/Fax</i>	<i>35</i>	<i>35</i>	<i>35</i>
	<i>Auto-calling</i>	<i>3</i>	<i>3</i>	<i>3</i>
	<i>SMS(PP/CB)</i>	<i>16</i>	<i>30</i>	<i>30</i>
	<i>3G/GSM HO</i>	<i>0</i>	<i>0</i>	<i>25</i>
	<i>PS data</i>	<i>0</i>	<i>100</i>	<i>135</i>
	<i>Total</i>	<i>401</i>	<i>550</i>	<i>608</i>

T1 Conformance Testing (6)

- *15 rel-4 and 1 rel-5 new WIs were approved (TP-010154)*

T1-06_3	Conformance Test Aspects - improvements in Radio Interface
T1-06_10	Testing UMTS 1800 (SIG/RF)
T1-06_11	Conformance Test Aspects - Low Chip Rate TDD
T1-06_13	Testing Layer 2 and layer 3 protocol aspects (SIG)
T1-06_14	LCR_TDD, Testing RF Radio Transmission and Reception (RF)
T1-06_16	Conformance Test Aspects - RAN Improvements
T1-06_23	Conformance Test Aspects - Emergency call enhancements
T1-06_25	Testing Emergency call enhancements for CS based calls (SIG)
T1-06_26	Miscellaneous UE Conformance Testing Activities
T1-06_27	Optimisation of Test Time, RF Aspects (FDD) (RF)
T1-06_28	Optimisation of Test Time, RF Aspects (TDD) (RF)
T1-06_29	Extensions to R99 Test cases (SIG), covers the completion of FDD prose and TTCN
T1-06_32	Maintenance of the R99 test specification and test cases (SIG)
T1-06_33	Creation of the Release 99 TCs for TDD, prose and TTCN (SIG)
T1-06_34	Testing of RAB support for RoHC
T1-06_35	Testing UMTS 1900 (SIG/RF) -----> REL-5

T2 Services & Capabilities (1)

- ***MExE Enhancements***

- Stage 1 revision proposal forwarded to SA1
 - to allow new classmarks without further revisions
- No progress on “MExE Security Analysis”
- MExE Classmark 4 (CLI) discussions continues

- ***UE interfaces and capabilities***

- WID Terminal Local Model Rel 5 was approved (TP-010152)
- T2 continues discussions with SA5 and other groups regarding Device Management
- T2 delegates to attend two ad hocs on “UE Functionality split”
- AT Commands enhancements
 - A number of CRs to add / enhance AT commands
- vObjects and other constructs for Data Synchronisation
 - No progress due to lack of input

T2 Services & Capabilities (2)

- *Messaging*

- MMS

- Focus now on Rel 5
 - WID was approved (TP-010130)
 - No REL-5 CRs agreed yet → ad hoc meeting planned
 - 3 major areas
 - MM7 application server Interface
 - Notification
 - Presence
 - MMS Rel 4 CRs are primarily tidy up exercises
 - Media Object Distribution referred to SA1 to be included in Stage 1

- EMS

- Rel 5 WID produced (TP-010153)
 - Important Rel 5 CRs for EMS launch were approved
 - Input from China on 'Line Drawing' will be discussed at the next T2 meeting

- CBS

- Proposal to add EMS to CBS (LS to SA1 to comment on proposed CR)

T2 Services & Capabilities (3)

- *New WIs were approved*
 - **Terminal Local Model Rel 5 (TP-010152)**
 - Introduction of a generic model approach for the ME environment from an ME centric perspective
 - Accommodation of UE Functionality Split aspects
 - **MMS Rel 5 (TP-010130)**
 - Inclusion of 3GPP IP Multimedia Subsystem (IMS) requirements
 - WI will investigate and identify support for “enhanced interworking issues (e.g. translation from/to email addresses and MSISDN numbers, mobile number portability, media format conversion)”, “enhancements of terminal capability negotiation mechanism to ensure terminal interoperability”, “extended User Agent capabilities for MMS (e.g. MExE, WAP NG, SIP)”, “detail description of User Profile mechanisms as part of VHE”, “USIM and USAT aspects of MMS, security enhancements (e.g. VPN/IPSEC, End to End Security, terminal security)”, and more
 - **EMS Rel 5 (TP-010153)**
 - WI will investigate and identify support for “a line or vector based image format”, “new monophonic and polyphonic Sound formats”, “means of sequencing various elements”, “more complex elements (forms, menus, session ID etc)”, “other new data formats”, “alternative compression techniques”, “using EMS in CBS”, and more

T2 Services & Capabilities (4)

- ***Three LSs from T2 copied to TSG-SA for information***
 - **SP-010361 – to SA1, SA3, T3 – “re: UE Functionality split”**
 - T2 informs SA1 that they plan to send delegates to an ad hoc meeting organised by SA1 on service aspects of the UE functionality split issue.
 - **SP-010362 – to SA1 – “re: Push Services”**
 - T2 requests feedback from SA1 on the current status of the work being done on Push Services
 - **SP-010363 – “re: ECMA QSIG Standard on SMS in a Private Network (PISN)”**
 - reply to LS originally sent by ECMA TC 32 to TSG-SA (SP-010003 at TSG-SA #11)
 - T2 informs ECMA that the support of SMS in the PISN appears to be out of scope of T2

T3 USIM (1)

- *New Technical Report Approved*
 - TR 31.900 SIM/USIM Internal and External Interworking Aspects (TP-010113)
 - currently based on Rel99 Core Spec. and will be updated in the future
 - the different cases and possibilities of interworking between
 - a 2G or 3G ICC and a 2G or 3G ME.
 - any given ME/ICC combination and the rest of the network
 - a SIM and a USIM together on a single UICC
 - several USIMs on a single UICC
 - new section and additions following a joint ad hoc with S3

Note: S3 specifications do not allow certain scenarios which may be commercially wanted.

LS sent by T3 to SA on "Rejection of 2G Authentication and Key Agreement by 3G ME with USIM in UTRAN" in SP-010360

T3 USIM (2)

- ***New WIs were approved***
 - **C-language binding for (U)SIM API (TP-010110)**
 - this WI replaces the existing WI on a MULTOS API together with the linked test specification and a proposed work item for “SIM API for Windows for Smart Cards”
 - the specification is planned as part of Release 5 (T#14, Dec. 2001 for approval)
 - the test specification is intended to be available for approval by TSG-T #16
 - **Test suites for the USAT interpreter (TP-010111)**
 - TS 22.112 USAT interpreter stage 1 was approved by TSG-T#11
 - TS 31.112 *USAT Interpreter stage 2* and TS 31.113 *USAT Interpreter - Byte Code* will be presented to T #13 for approval as part of rel-5
 - to achieve interoperability between the various implementations the WI proposes to develop a test specification. Planned for approval by TSG-T#15.
 - **Definition and specification of a UICC/USIM Transport Protocol (TP-010112)**
 - the Bearer Independent Protocol in TS 31.111 R99 allows the (U)SIM application to use any available bearer in the ME. The Bearer Independent Protocol obviously inherits the properties of the bearer
 - WI proposes the specification of a transport layer specific to the (U)SIM application
 - secondary responsibility: T2. Planned for approval by TSG-T #14

T3 USIM (3)

- ***TS 51.011 (rel-4 GSM 11.11) SIM/ME interface***
 - TSG#11 discussed and decided to have Rel-4 GSM 11.11. A CR to change 51.011 to reference TS 102 221 (no change to functionality) is expected to be presented for approval to TSG-T #13 (work started in T3, but not complete).
 - Two CRs were approved (TP-010109)
 - 001 R4 Addition of GPRS operator preferences
 - addition of a GPRS configuration file to define the default settings when an application does not fully specify the GPRS settings
 - subject to approval of the SA1 service requirements by TSG-SA
 - 002 R4 Introduction of USIM Features into the SIM
 - Data-fields, procedures and amendments for the following features are included in accordance with the decision by T#11 in Palm Springs
 - » PLMN Network Name / Operator PLMN List
 - » Mailbox Dialling Numbers and Mailbox Identifier
 - » Message Waiting Indication Status / Call Forwarding Indication Status

EP SCP Activities for info.

- **Last meeting in Indian Wells, 20 - 23 March 2001**
 - hosted by the North American SIM Manufacturers
- **TS 102 220 Application Identifiers**
 - document now included material from TS 31.110
- **TS 102 221 Terminal - UICC interface (normatively referenced by TS 31.101)**
 - introduction of logical channels and their security
 - analysis of differences between TS 102 221 and EMV 2000 (Europay Mastercard Visa)
- **Next meeting: Turku (Finland), 26 - 29 June 2001**
- **Talks continuing on transferring EP SCP into a Partnership Project**

Other Information

- **LS from RAN2 "Corrections of RLC wording in T1 CRs for TSG-T #12" were discussed**
 - No problems were identified by TSG-T#12
- **LS from TSG-GERAN "Terminology Clarification"**
 - TSG-T#12 asks for the summary of terms to be used and the meanings
 - TSG-T#12 decided to adopt the decision of TSG-SA#12
- **Discussion on implementation of GERAN to UTRAN Handover TTCN test cases by MCC Task160 team**
 - Question raised by Task 160. T concluded that these tests shall not be implemented by Task 160.
 - TSG-GERAN to identify necessary TCs and the plan to inform TSG-T and MCC
- **Testing of Application Environment**
 - T1 and T2 were asked by TSG-T#12 to investigate the necessity of application environment testing
- ✓ **A CR (TP-010107, CR-095) to support S1's decision on "Service Provider's Name" for REL-4 TS 31.102 was approved subject to TSG-SA's approval of related CR**