Status Report T3

Dr. Klaus Vedder
Chairman TSG-T3

3GPP TSG-T #11

Palm Springs, 14 - 16 March 2001

Giesecke & Devrient

Documents

- TP-010035: Status Report to TSG-T #11 (this document)
- TP-010036: CRs to TS 03.19 *SIM API -stage 2 -(Java^{TM})*
- TP-010037: CRs to TS 03.48 *Secure Messaging*
- TP-010038: CRs to TS 11.11 *SIM-ME interface* and
  CRs to TS 31.102 *USIM application*
- TP-010039: CRs to TS 11.14 *SIM Application Toolkit* and
  CRs to TS 31.111 *USIM Application Toolkit*
- TP-010041: TS 11.13 *Test spec. for SIM API for Java Card* (for approval)
- TP-010042: TS 22.112 *USAT Interpreter stage 1* (for approval)
- TP-010043: TS 31.112 *USAT Interpreter stage 2* (for information)
- TP-010044: TS 31.113 *USAT Interpreter - Byte Codes* (for information)
- TP-010045: TR 31.900 *SIM/USIM internal & external interworking* (for inform.)
- TP-010046: LS from T3 *Introduction of features of CPHS*
- TP-010047: LS from T3 *Enhancement of CPHS NO Name Feature*
- TP-010049: LS from T3 *Authentication test algorithm for test USIM*
- TP-010066: LS from T3 *UE functionality split*
- TP-010068: CR to 31.102 on tag values
- TP-010069: LS from T3 *GPRS operator preferences*
- TP-010070: CRs to TS 03.19 *SIM API -stage 2 -(Java^{TM})*

ETSI EP SCP #4

Meeting hosted by ORGA Kartensysteme in Berlin, 17-19 Jan. 2001

- TS 102 220 Application Identifiers
  - assignment of 4 TAR values to cater for EMV applications agreed in principle (Europay, Mastercard, Visa)

- TS 102 221 Terminal - UICC interface (formerly TS 31.101)
  - several corrections to R99 (now 3.2.0) and Rel-4 (now 4.1.0)
  - discussion on chip internal clocks (potential EMC issues) - no decision

- Feasibility study on generic API and secure messaging specification

- Joon Ryu, Samsung, was elected as a second vice-chairman

- Next meeting: Indian Wells, 20 - 23 March 2001

Meetings

- TSG-T3 #17
  - 15 -17 January 2001, Berlin, Germany, hosted by ORGA Kartensysteme attended by 80 delegates from 15 countries

- TSG-T3 #18
  - 01 -02 March 2001, Sophia-Antipolis, France, hosted by ETSI attended by 60 delegates from 11 countries

- SWG API #3
  - 13 – 14 February 2001, Naples, Italy, hosted by Incard

- Ad hoc meetings
  - #22 SIM Toolkit Interpreter (MEE, Madrid)
  - #23 SIM Application Toolkit testing (Gemplus, Marseille)
  - #24 JAVA SIM API testing (ETSI, Sophia-Antipolis)
  - #25 SIM Toolkit Interpreter (Across Smarttrust, Stockholm)
  - #26 JAVA SIM API testing (Incard, Naples)
  - #27 Bluetooth/UE functionality split (ETSI, Sophia-Antipolis)
  - #28 Rel-4 issues (ETSI, Sophia-Antipolis)
  - #29 SIM Toolkit Interpreter (ETSI, Sophia-Antipolis)
  - #30 cancelled (SIM Application Toolkit testing)
  - #31 JAVA API testing (Schlumberger, Sophia-Antipolis)

Election of Officials

- ● T3 #17, Berlin
  - ❍ Nigel Barnes, Motorola, was elected as vice-chairman by acclamation
  - ❍ The vice-chairman Günther Maringer, T-Mobil, had announced previously that he would not be available for a second term of office

- ● T3 #18, Sophia-Antipolis
  - ❍ The plenary (re-)elected by acclamation the following officers:
    - Klaus Vedder, Giesecke & Devrient, as chairman
    - Nigel Barnes, Motorola, as vice-chairman
    - Paul Jolivet, DoCoMo Europe, as vice-chairman
  - ❍ The chairman thanked the departing vice-chairman and rapporteur Günter Maringer for all his contributions over half a decade as SMG9 WP UMTS chairman, Rapporteur of TS 21.111 and last, but not least, as T3 vice-chairman

CRs to 03.19 and 03.48 (TP-010036/070, TP-010037)

- TS 03.19 *SIM Applic. Programm. I/f (API) - stage 2 -(Java^{TM})*
  - Release 98 CRs
    - A009: Clarification of the SIM Toolkit Framework behaviour and API
      A011: Clarification of the qarrayIndexOutOfBoundsException
  - Release 99 CRs
    - A010: Release 99 version of A009
    - A012: Release 99 version of A011

- TS 03.48 *Secure Messaging*
  - A015 R99: Clarification of the Anti Replay Counter management

CRs to 11.11 and 31.102 (TP-010038, TP-010068)

- 2 CRs to 11.11 *SIM/ME interface* (TP-010038)
  - A127 R99: Addition to note for the iDEN file ID ('7F31')
  - A128 R99: Alignment with 31.102 on default HPLMN RAT

- 13 CRs to 31.102 *USIM Application* (TP-010038)

  10 Corrections to R99
  - 065r3: APN Control feature
  - 066:   Default HPLMN RAT
  - 067r2: EFs ANR, SNE, EMAIL (backward link to EF ADN record)
  - 068r1: Profile download procedure
  - 069:   EFARR access condition
  - 070:   Indication of min. clock frequency required by USIM application
  - 071:   General corrections (e.g., wrong codings)
  - 072:   EFUST for Packet Domain
  - 076:   Usage of 'FF' in in EFPBR
  - 077:   EFANR (addition of TON/NPI and length of BCD number)

CRs 31.102 (ctd.)

- 3 CRs introducing new features for Release 4
  - 073: CPHS: PLMN Network Name feature
    storage of full and short name of registered PLMN in USIM overriding those in the terminal
  - 074: Introduction of Operator PLMN list
    when roaming on "partner" networks the name of the home network operator can be displayed
  - 075: CPHS functionality (Common PCN Handset Specification): voicemail, message waiting and call forward indication feature
    inclusion of the relevant files on the USIM

- CR to 31.102 R99 on Tag Values (TP-010068)
  - agreement only reached after T3 #18
  - discussion caused by backwards compatibility issues with test mobiles and test USIMs
- CR to include file for storing default GPRS settings agreed in principle for inclusion into 31.102 Rel-4 (see LS to S1 in TP-010069)

CRs to 11.14 and 31.111 (T-001039)

- **1 Correction to 11.14** *SIM Application Toolkit*
  - A194 R99: Annex A: Support of USAT by Mobile Equipment (missing letter class included)

- **16 CRs to 31.111** *USIM Application Toolkit*

  4 Corrections to R99
  - 025: Terminal profile (wrong description of a set bit)
  - 029: Annex A: Support of USAT by Mobile Equipment
  - 030: Alignment with 11.14 to include reserved TIA/EIA-136 tags
  - 031: Reference to 02.40 replaced by reference to 22.001

  6 Corrections to Release 4
  - 026: Rel-4 version of CR 025
  - 027: Technology indicator file
  - 032: Rel-4 version of CR 031
  - 034: Display Parameter Tags
  - 037: Rel-4 version of CR 029
  - 038: Rel-4 version of CR 030
  - 040: Precision on the PlayTone command

CRs to 31.111 (ctd.)

- 6 CRs introducing new features for Release 4
  - 028: Introduction of additional Access Technology Indicator values
    TETRA, TIA/EIA-95, TIA/EIA/IS-2000
  - 033: Addition of variable timeout to the Display Text command
    introduction of variable timeout for DisplayText command
  - 035: USAT Bearer independent protocol for local links:
    Client use case
  - 036: USAT Bearer independent protocol for local links:
    Server use case
    introduction of functionality to enable SIM Toolkit applications to
    make use of, in particular, bluetooth
  - 039: Addition of variable timeout to the GetInkey command
    introduction of variable timeout for DisplayText command

Specifications for Approval

- Test specification for the USIM API (TS 11.13 in TP-010041)
  - version 2.0.0 presented for approval
    - it is worth noting that the decision was *unanimous*
  - WI approved by TSG-T #7, presented at T#10 for information
  - specification contains test cases for interoperability at the application level
  - specification does not include test cases for interoperability at the SIM API framework level (discussion with Sun Microsystems on referencing SUN test specifications continuing)

- SIM Toolkit Interpreter - stage 1 (TS 22.112 in TP-010042)
  - version 2.0.0 presented for approval
  - WI approved by TSG-T #8, presented at T#10 for information

Specifications and TR for Information

- TS 31.112 *USAT Interpreter stage 2* (TP-010043)
  - version 1.0.0 presented for information
  - overall architecture for USAT interpreter system
  - WI approved by TSG-T #8 as Rel-4

- TS 31.113 *USAT Interpreter - Byte Codes* (TP-010044)
  - version 1.0.0 presented for information
  - specifies byte code recognised by interpreter for efficient access
  - WI approved by TSG-T #8 as Rel-4

- TR 31.900 *SIM/USIM interworking* (TP-010045)
  - version 1.0.0 presented for information
  - WI approved by TSG-T #8 as Rel-4
  - report based only on Release 99 specifications
  - further collaboration with S3 required

Release-4 Overview

- No progress on UICC database work item
  - T3 #17 agreed to request TSG-T #11 to delete the WI

- Work item "USAT local link"
  - to allow SIM toolkit applications to use a bluetooth link
  - could be enhanced with further bearers in future releases
  - output: CRs to 31.111 (CRs 035 and 036)
  - WI completed

- Work item "CPHS features"
  - standardises the previously proprietary CPHS features
  - output: CRs to 31.102 (CRs 073 and 075)
  - WI completed with one potential feature postponed to Rel-5 (see TP-010006)

- WI Feasibility Study on UICC/terminal interface speed enhancement
  - T3 #18 agreed to request TSG-T #11 to close the WI so that EP SCP can continue work on this topic

Release-4 issues (cont.)

Is there a need for Release 4 versions of TS 11.11 and 11.14 ?

- A major issue is the maintenance of parallel versions from both a standardisation and development point of view

- Support of USIM by GSM only (on the radio interface) terminals
  - TSG-T&SA #9: such terminals need not support USIM functionality
  - TSG-T&SA #10 requested T3 to investigate the technical feasibility of Rel-4 terminals being mandated to support the USIM

- T3 did not find any technical barriers, however:
  - Some GSM operators would like to introduce some features of Rel-4 in R99 terminals, thus creating R99+ terminals (similar to some Phase 2 features incorporated into Ph. 1 MEs)

- Issue can "easily" be solved for TS 11.14
  - incorporate a Delta Specification into R99 of 31.111
  - this would even allow to withdraw R99 of 11.14

- TS 11.11 is difficult: there is no equivalent single 3G specification

Transfer of Specifications

T3 #17 agreed to transfer the contents of the following specifications to EP SCP and requests the endorsement of TSG-T #11

- TS 31.110 *Application Identifiers*
  - This shall be merged with TS 101.220, the general AID specification of EP SCP to generate one such document

- TS 31.120 *UICC-terminal interface; Physical and logical tests*
  - The core specification TS 102.221 *UICC-Terminal interface; Physical and logical characteristics* (formerly TS 31.101) is "owned" by EP SCP

Testing Issues

- TS 11.10-4 SIM Application Toolkit Test Specification (R96)
  - 2 CRs agreed by T3 #18 and subsequently agreed by GERAN4
    - correction of wrong coding for test 27.22.4.2
    - correction for test case 27.22.5.1 (SMS-PP Data Download)
  - Completion of R99 version for testing (U)SIM enhancements constitutes a major problem
    - not enough participants so that called meetings have to be cancelled
    - T3 will investigate whether a new funded task should be established

- TS 51.010-1
  - CR to include tests for the 1.8V SIM/ME interface agreed by T3 #18
  - To be reviewed at the next GERAN4 plenary

Liaison Statements

- TP-010046 *Introduction of features of CPHS*
  - T3-010112 in response to T2 LS as contained in TP-000244
  - Confirmation of T2's understanding of the features with proposals for CRs to relevant T2 specifications attached

- TP-010047 *Enhancement of CPHS NO Name Feature*
  - T3-010232 in response to N1 LS as contained in TP-010006
  - The network selection aspect of the proposed functionality has been removed and changes have been agreed within T3 for operator name string functionality without the roaming indicator status requirement

- TP-010049 *Authentication test algorithm for test USIM*
  - T3-010246 in response to T1 LS as contained in TP-010008
  - T3 analysed the T1 proposal and sees no problem in implementing it in test USIMs

- TP-010066 *UE functionality split*
  - T3-010250 in response to T2 LS as contained in TP-000245
  - Output document of joint T2/T3 ad hoc taking T3 issues into account

- TP-010069 *GPRS operator preferences*
  - Addition of Operators Preferences file for GPRS service usage
  - LS to S1 to clarify the service requirement with CR to USIM attached

Meeting Calendar

- ## TSG-T3 #19
  - 08 - 11 May 2000, St. Johns, US VA
    hosted by Friends of the 3GPP

- ## TSG-T3 #20
  - 04 - 07 September 2000, France
    hosted by Gemplus

- ## TSG-T3 #21
  - 05 - 07 November, Kyoto, Japan
    hosted by DNP, Toshiba, Fujitsu and Hitachi
    followed by EP SCP (07-09 November 2001)

Decisions Required

- Approval of CRs to TS 03.19 (TP-010036 and TP-010070)
- Approval of CRs to TS 03.48 (TP-010037)
- Approval of CRs to 11.14 and 31.111 (TP-010038)
- Approval of CRs to 11.11 and 31.102 (TP-010039)
- Approval of CR to 31.102 on tag values (TP-010068)
- Approval of TS 11.13, v2.0.0 (TP-010041)
  Test specification for SIM API for Java Card
- Approval of TS 22.112, v2.0.0 (TP-010042)
  USAT Interpreter stage 1
- Endorsement to delete WIs
  - *UICC Data Base*
  - *Feasibility Study on Interface Speed Enhancements*
- Endorsement to transfer specifications to EP SCP
  - TS 31.110 *Application Identifiers* to SCP
  - TS 31.120 *UICC-terminal interface; Physical and logical tests* to EP SCP
- Decision on Release 4 of TS 11.11 and TS 11.14