3GPP TSG-T (Terminals) Meeting #10 Bangkok, Thailand, 6 - 8 December, 2000

Tdoc TP-000211

Source: MCC Task 162

Title: Progress report of MCC Task 162 on USIM testing

Agenda item: 5.3.1

Document for: Approval

This document contains two status reports produced by MCC task 162 on USIM testing.

In particular, T3-000588 contains the status report of the part of MCC task 162 producing the interface test specifications (3G TS 31.120 and 31.121) and T3-000553 contains the report of the part of MCC task 162 involved in USIM application test specification (3G TS 31.122).

The specifications involved, are presented to TSG-T #10 for approval as follows:

- TP-000204: TS 31.120 v2.0.0 "UICC-Terminal Interface; Test specification" for information
- TP-000205: TS 31.121 v2.0.0 "UICC-Terminal Interface; Application Test specification" for information
- TP-000206: TS 31.122 v2.0.0 "USIM Conformance Test Specification" for information

Report of STF 162

UICC-Terminal Interface Test Team

Achieved Status on

3G TS 31.120

Physical, Electrical and Logical Test Specification

and

3G TS 31.121

USIM Application Test Specification

Status of the documents

- TS 31.120 V1.2.0
 - complete (excl. editorial changes)
 - number of test cases: 45

- TS 31.121 V1.2.0
 - complete (excl. editorial changes)
 - number of test cases: 38

Status of the documents

 GSM 11.10-1 s27 is completely incorporated into 31.120 and 31.121

 tests for new requirements as specified in TS 102 221 V3.0.0 and TS 31.102 V3.3.0

Structure of 3G TS 31.120

- Physical Characteristic Tests
 - contact pressure
- Electrical Characteristic Tests
 - phase during power on/off
 - voltage switching
 - electrical tests on each contact
- Initial Communication Tests
 - ATR
 - clock stop
 - speed enhancement
- Transmission Protocol Tests
 - T = 0
 - -T=1
- Application independent procedures
 - UICC presence detection

Structure of 3G TS 31.121

- Subscription related Tests
 - Subscriber identity
 - Access conditions
- Security related Tests
 - PIN(2) / unblock PIN(2)
 - FDN, BDN restrictions
 - AoC restrictions
- PLMN selection related Tests
 - Forbidden PLMN list
 - Home PLMN selection
 - User / Operator controlled PLMN list
- Subscriber independent Tests
 - SMS handling
 - Phonebook handling

Contact Persons

Rapporteur TS 31.120 Physical, Electrical and Logical Test Specification

Dr. Torsten Maeser - ORGA Kartensysteme

tmaeser@orga.com

Jean-Francois Pistiaux - CETECOM jf.pistiaux@cetecom.de

Rapporteur TS 31.121 *USIM Application Test Specification*

Ramin Afchar - CETECOM ramin.afchar@cetecom.de

3G TS 31.122

USIM Conformance Test Specification

MCC Task 162
USIM Conformance Test Team

Agenda

- Summary
- Document Overview
- Test Coverage
- Changes
- Contact Person

Summary

- Status of the document: 100% complete
- Focused into Release 99 UICC with USIM(s).
 The tests are performed to;
 - (1) A single verification capable UICC with one or more applications.
 - (2) A multi-verification capable UICC with only one USIM application.
- Some minor changes have been made to the TS 31.122 v0.2.0, which has been presented and agreed in the TSG-T3 meeting #15.

Document Overview

- The present document has been elaborated based on the GSM 11.17, which is the conformance test specification for the GSM SIM.
- The present document follows the structure of the TS 102.221 and TS 31.102 to make referencing easier.
 - The conformance requirements for TS 102.221 constitute clause 6 and the conformance requirements for TS 31.102 constitute clause 7.

Test Coverage

- 3G 31.101 v 3.2.0 -> TS 102.122 v 3.0.0
 - Physical characteristics
 - Electrical specifications of the UICC Terminal interface
 - Initial communication establishment procedure
 - Transmission protocols
 - Application and File structure
 - Security features
 - Structure of commands and responses
 - Commands
 - Transmission Oriented Commands
 - Application independent files
- 3G 31.102 v 3.2.0
 - Contents of the Elementary Files
 - Security Features supported by USIM
 - USIM commands
 - UICC Characteristics (Voltage classes)

Changes

- The following changes have been made after TSG-T3 meeting #15;
 - Tests related to T=1 protocol have been added.
 - New subclause for initial conditions (subclause 4.5) has been created to define the EFs to be used within the tests and its default values.
 - Some test steps are added where appropriate to recover the default values of the EFs so that the tests can be performed consecutively.
 - Correction of the editorial errors.
 - Other minor changes i.e. deletion of the reference to the core spec which has originally been indicated in the each line of the conformance requirements.

Contact Person

Rapporteur

Simon Knight - Aspects Software simon.knight@aspects-sw.com

Sunny Kusnadi - Giesecke & Devrient Asia sunny.kusnadi@gdasia.com

Taichi Kaneko - Dai Nippon Printing Kaneko-T4@mail.dnp.co.jp

NOTE: Once TS 31.122 become version 3.0.0, the rapporteur of the document, Simon Knight of Aspects Software will take responsibility for updating or maintaining the document.