

Agenda Item: 6.3
Source: TSG-T
Title: High level summary of R99 for TSG T WGs
Document for: Information

As a result of a proposal received during TSG-T #7, it was agreed to create a list for TSG-T which summarised the new features which had been added to TSG-T specification as a result of R99 work. The results from each TSG-T working group is listed below:

T1 release 99 summary:

Radio interface Tests:

Test cases & methods to conformance the release 99 based radio interfaces (FDD & TDD)

Protocol Tests:

To supply at least the conformance test cases (prose and TTCN) required to conformance test the following release '99 areas:

- Idle mode functions
- Voice call functions (incl. emergency call)
- Circuit switched data (up to 64 kb/s) + Fax
- Auto-calling (restrictions)
- SMS (PP & CB)

Furthermore, test cases will be added to conformance test multi system (GSM/3G) functions and packet data service (GPRS).

EMC Tests:

To supply a superset of identified regional EMC requirements for 3G terminals.

T2 release 99 summary:

- SMS for 3GPP terminals which is fully compatible with the GSM SMS service (TS 23.040, TS 23.038). Additional enhancements and improvements have been introduced e.g. Enhanced SMS allowing small pictures, sounds, animations to be transferred via SMS.
- AT commands for control of 3GPP MEs via an external TE, fully compatible with GSM AT commands (TS 27.005, TS 27.007). Several new AT commands e.g. to control ASCII services have been added.
- Multiplexing protocol to allow a number of simultaneous sessions over the terminal interface (TS 27.010)

- A non realtime Multimedia Messaging Service (TS 23.140). This allows the transmission and reception of "multimedia messages" (including picture, sound, video etc. attachments) to/from a mobile
- MExE for 3GPP terminals which is fully compatible with GSM MExE Release 99 (TS 23.057), providing a flexible API for the terminal for third party applications. Additional enhancements are SIM MExE certificate management, security clarifications, QoS aspects
- The concept of Wide Area Synchronisation for 3GPP has been developed to allow data stored in the ME/USIM to be synchronised with the outside world. (TR 21.903, TS 27.103)
- The concept of Multi Mode UEs has been discussed and proposals developed in other Working Groups have been brought together and analysed in a report (not yet finished; TR 21.810)
- The Requirements for UE Capability have been brought together from other Working Groups, to provide an assessment of the necessary capabilities for a UE to "exist" in a 3GPP network, and also to provide certain services (e.g. speech, fax, SMS) (TR 21.904)
- Electrical safety requirements and regulations (TR 34.907) and Specific Absorption Rate requirements in different regions (TR 34.925) have been discussed and brought together in two reports.

T3 release 99 summary:

Division of the GSM 11.11 into two parts

- the 3G version of GSM 11.11 consists of a "platform" standard comprised of the basic physical, electrical and logical specification (TS 31.101) and an application specification (TS 31.102)
- incorporation of the GSM low voltage (3 and 1.8 V) interface standards into the platform standard

Interface Enhancement

- addition of the support for the ISO/IEC T=1 block transmission protocol in TS 31.101 (more efficient data transfer between the terminal and the IC card)

UICC is capable of being used as the basis for a multi-application card

- several USIMs and/or other applications can co-exist on the card
- new security architecture allows flexible and user-friendly (i.e. the ability to group PINs together) handling on PINs
- application identifiers are used as a simple means of searching for and selecting an application / USIM

Phone book

- a new concept to handle abbreviated dialling numbers, email address and other personal data was developed (backwards compatibility issues have been addressed)
- new fields are specified to allow easier synchronisation with PCs or other devices
- standardised grouping of phone numbers

Standardised storage of call information

- new fields are specified to allow storage incoming and outgoing call information

Enhanced security features

- implementation of new authentication and other security features specified by S3

Enhanced FDN and BDN

- the concept of Fixed dialling Numbers (FDN) and Barred Dialling Numbers (BDN) is far less complex than in GSM
- the FDN can also now be applied to particular APNs for GPRS