SMG9 - IC Card Aspects

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Working Parties and Personnel

- Chairman
  Dr Klaus Vedder (Giesecke & Devrient)
- Vice-Chairmen
  Mr Nigel Barnes (Motorola)
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- Working Parties
  - SIM-ME Interface, SIM Toolkit (Nigel Barnes, Motorola)
  - SIM API and Secure Messaging (Mark Green, Orange)
  - Generic Issues (Rune Lindholm, Nokia)
  - Test Specifications (Gerd Paffenholz, ORGA)

WP SIM-ME Interface, SIM Toolkit (I)

- GSM 11.11: SIM -ME Interface
- Logical interface between SIM and ME
  - user and subscription authentication
  - support of GSM network services
  - subscriber related information
  - provision for other access technologies (satellite and terrestrial)
  - plastic roaming
  - electrical/mechanical i/f ➔ WP Generic Issues

WP SIM-ME Interface, SIM Toolkit (II)

- GSM 11.14: SIM Application Toolkit
- SIM resident application execution area
  - application (area) owned *and* controlled by operator
  - operator specific applications ➔ operator differentiation through unique service offerings at home and abroad (e.g., VHE)
  - operator specific menus, icons, user interface
  - third party applications (e.g., money transfer, loyalty)
  - access to second card slot (e.g., electronic cash, banking)

WP SIM API and Secure Messaging

- Standardised API within the SIM (GSM 03.19)
  - applet download and execution
  - application software independent of SIM manufacturer
  - JAVA™ / VISA Open Platform first offering (06/99)
- Secure messaging (GSM 03.48)
  - secures messaging between Toolkit and Network or VAS platform
  - point-to-point or broadcast
  - future transport mechanisms under development

WP Generic Issues

- Electrical and mechanical interface
  - GSM 11.11: 5V and mechanical interface
  - GSM 11.12: 3V SIM-ME interface
  - GSM 11.18: 1.8V interface (SMG9 approved)

  Combining the above into a new generic standard
- SIM card administrative commands
- General interface enhancements
- General ETSI IC card standards

WP Test Specifications

- SIM-ME interface (GSM 11.10-1, section 27)
  - testing basic SIM-ME requirements (GSM 11.11)
  - complete set of electrical and logical tests
  - basis for ME type approval
- SIM Conformance Test Specification (GSM 11.17)
  - complete set of electrical and logical SIM tests
  - guideline and checklist for operators
- SIM Toolkit Test Specification
  - ensuring proper functioning of SIM Toolkit in every handset
  - under development by SMG9 (completion by 09/99)

Status of GSM Specifications 01/1999

- GSM 02.17: SIM; Functional characteristics (7.1.0)
- GSM 11.11: SIM/ME Interface (7.1.0)
- GSM 11.14: SIM Application Toolkit (7.1.0)
- GSM 03.48: SIM Toolkit secure messaging (6.1.0, R97)
- GSM 02.19: SIM API, stage 1 (7.0.0)
- GSM 03.19: SIM API, stage 2 (JAVA) (1.0.0)
- GSM 11.12: 3V SIM/ME interface (7.0.0)
- GSM 11.18: 1.8V SIM/ME interface (2.0.0)
- GSM 11.17: SIM Conformance Test Specification (2.0.0)