

<b>Doc For</b>	<b>TSG SA</b>	<b>TSG CN</b>	<b>TSG RAN</b>	<b>TSG T</b>
<b>Decision</b>				
<b>Discussion</b>				
<b>Information</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>

**Agenda Item:**

**Source:** SMG 9 Chairman

**Title:** **SMG 9 Activities**

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Please see attached Presentation



## SMG9 SIM Aspects

### SMG9 "SIM Aspects"

Every SIM with every mobile in every network - worldwide

Born in 1988, still going strong

- Custodian of the SIM and its interfaces
  - maintenance of specifications
  - Phase 2+ enhancements
- User Identity Module for UMTS
- Generic issues for all ETSI IC cards
- The committee
  - 70+ delegates from 15+ countries
  - five Working Parties:  
UMTS, API, Toolkit Security,  
Testing, Generic Issues
  - Chairman Dr. Klaus Vedder, G&D



# The SIM - A Removable Security Module

- Secure device under issuer control
  - issuer specific security mechanisms
  - secure key management
- Universal plastic roaming
  - keeping your identity when changing terminal or technology
- Issuer independent terminal
  - terminal does not contain any subscription data
  - global market versus local market - economy of scales
  - bigger choice for the customer through more competition



SMG9 SIM Aspects

## Complete Set of Specifications

- SIM - ME Interface
  - electrical (incl. low voltage), mechanical, logical
- SIM Application Toolkit
  - toolbox for card issuers to create *terminal independent* applications for issuer differentiation
  - Application Protocol Interface for secure (over-the-air) loading of *manufacturer independent SW*
    - ⇒ JAVA™ API in co-operation with the JAVA™ Card Forum
    - ⇒ co-operation with VISA on the integration of the VISA Open Platform
- Set of Test Standards



SMG9 SIM Aspects

# **SIM Application Toolkit**

## **The basis for issuer differentiation**

- **Secure Over-the-Air administration**
  - downloading data and applications
- **SIM as basis for Value Added Services**
  - end-to-end communication (SIM - VAS platform)
  - applications independent of handset (manufacturer)
- **Typical applications**
  - mobile banking (secure money transfer)
  - loading of electronic purses over-the-air
  - user-friendly information services
  - services based on locality (e.g. taxis, hotels, call charges,...)
  - part of the VHE (Virtual Home Environment)



SMG9 SIM Aspects

# **SIM Application Toolkit**

## **Toolbox for issuer specific SIM applications**

- **Standardised mechanisms, commands and functions**
- **Some functions and features provided**
  - configuration of handset menus, control of display
  - icons / diagrams; timer; 2nd card interface
  - use of local information
- **Utilisation of SIM inherent security features**
- **Incorporate issuer specific (end-to-end) security functions**



SMG9 SIM Aspects

# Conclusion

The SIM is an essential element for security, universal roaming and service differentiation



SMG9 SIM Aspects