# **Open Mobile API The enabler of Mobile ID solutions**

Alexander Summerer, Giesecke & Devrient 30th Oct. 2014

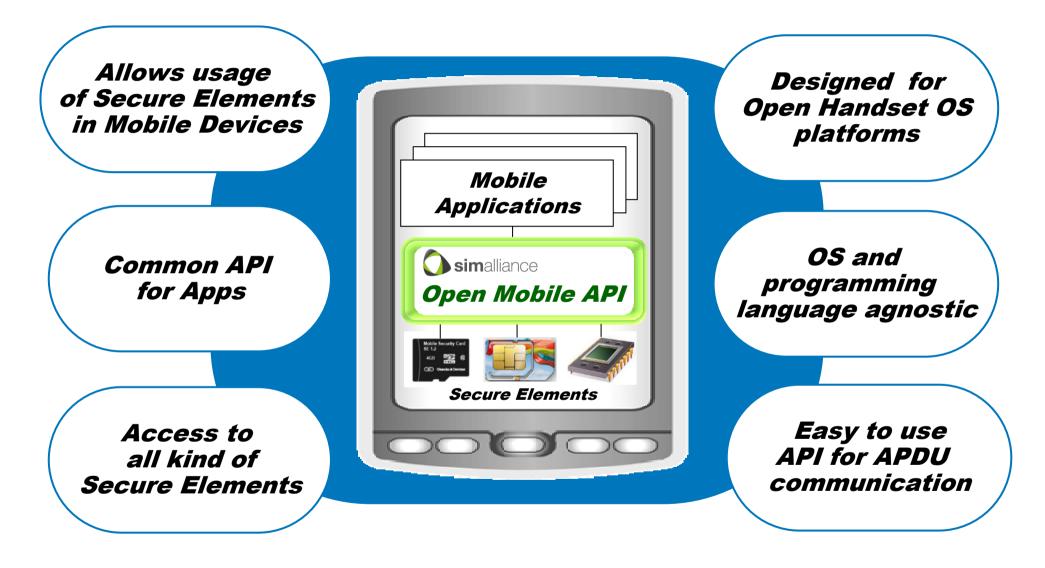




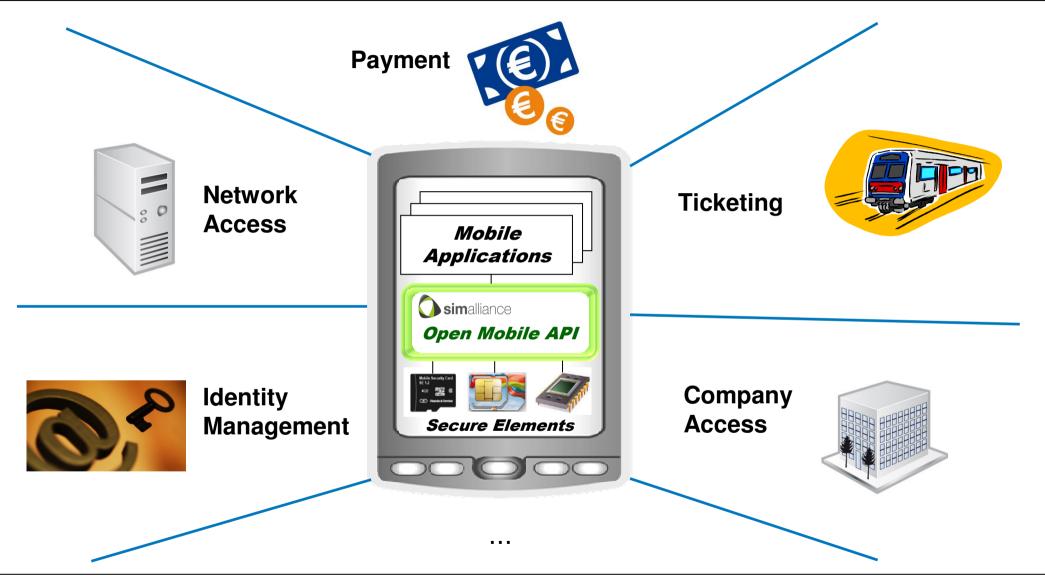
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Creating Confidence.

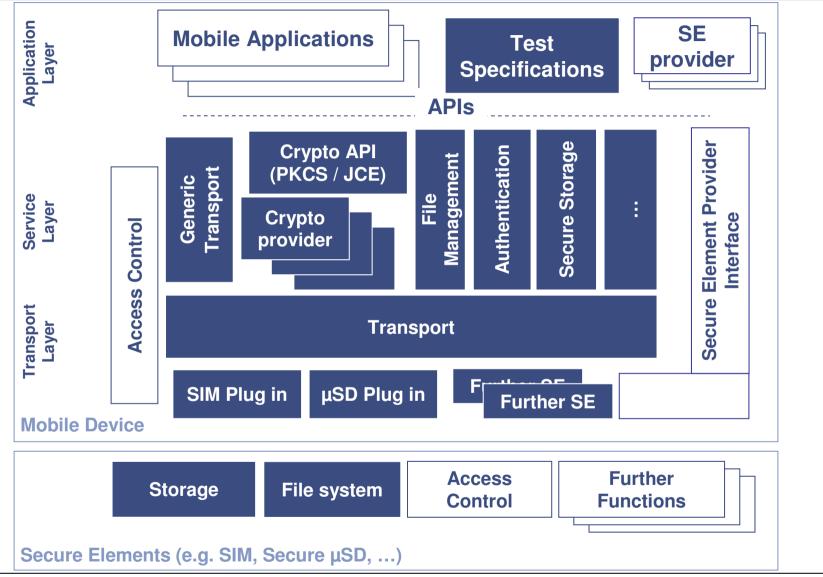
#### SIMalliance Open Mobile API



#### Motivation: Use Case Examples

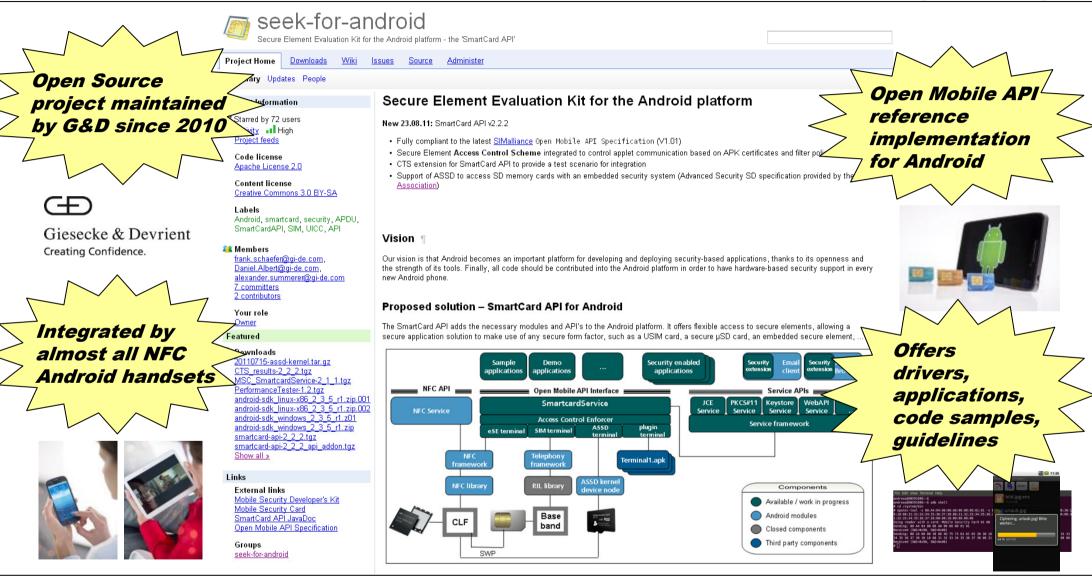


#### Architecture of Open Mobile API



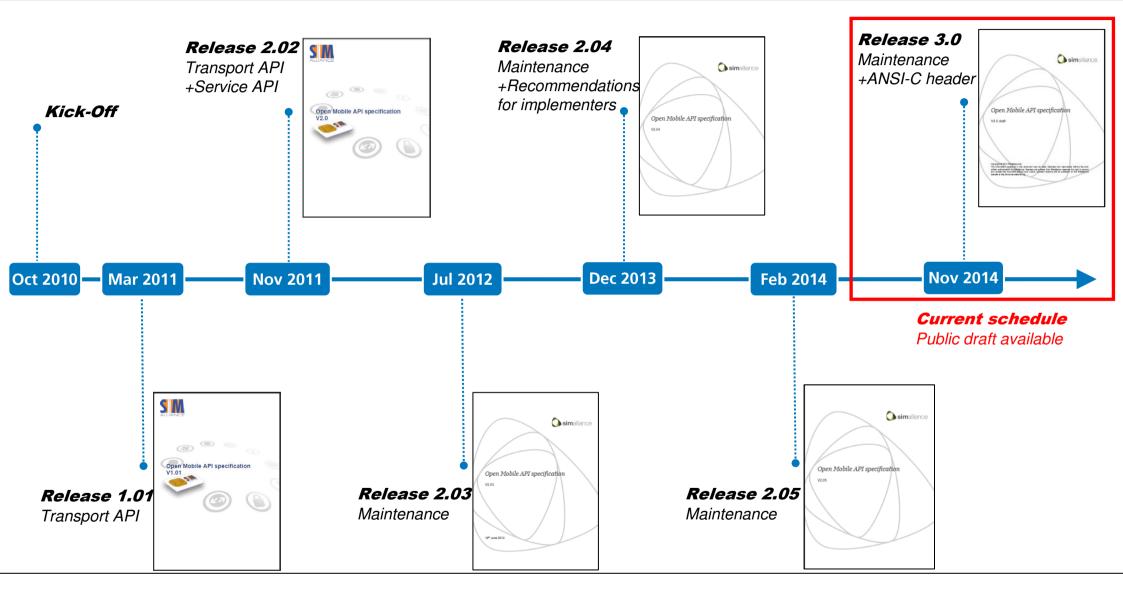


#### **Open Mobile API reference implementation (SEEK)**



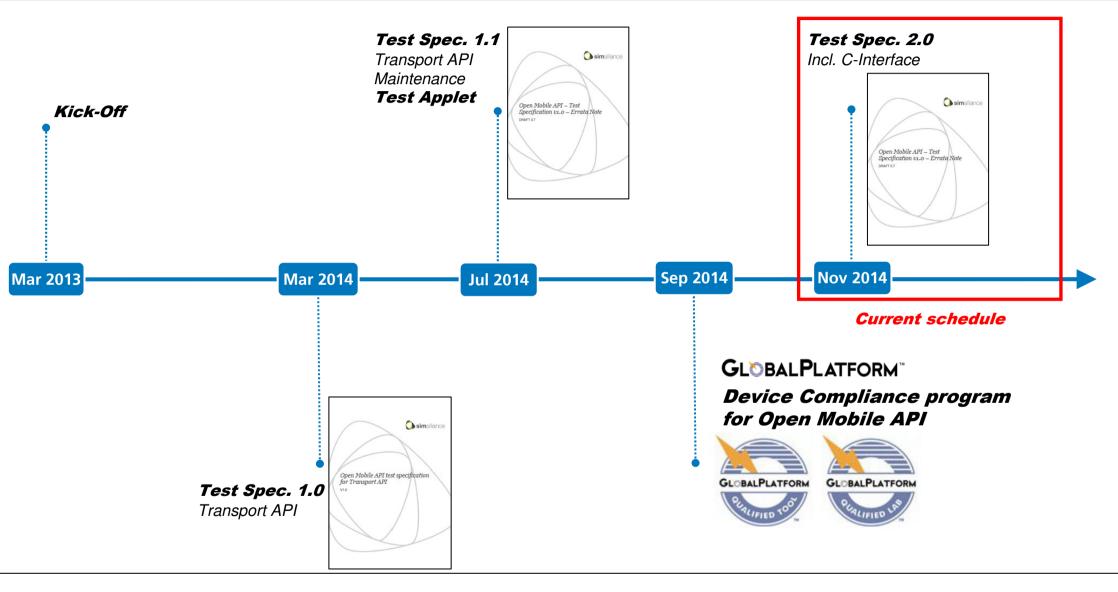


#### **Open Mobile API Revisions**



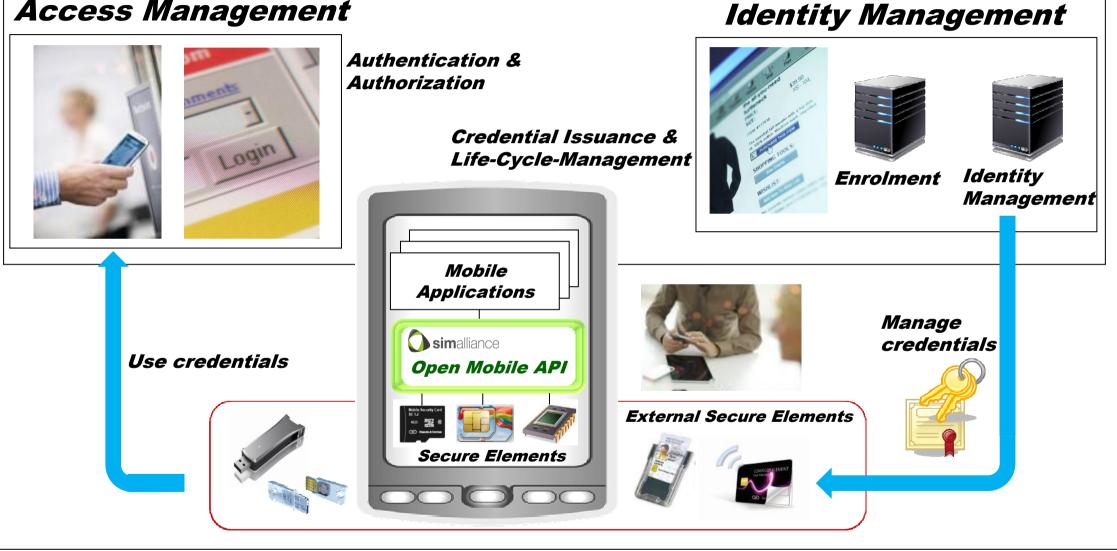


#### **Open Mobile API Compliance**

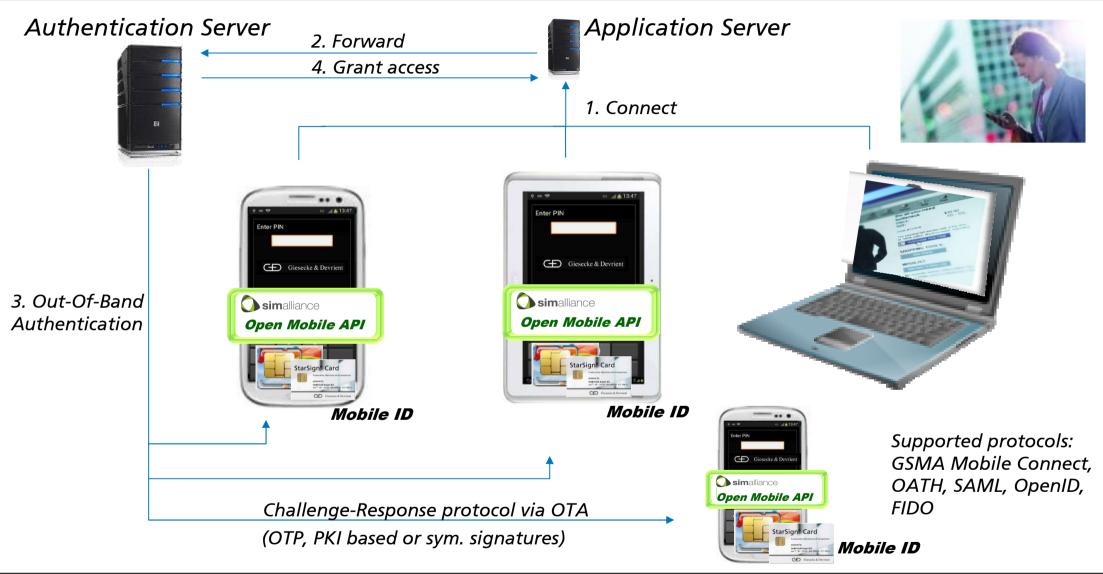


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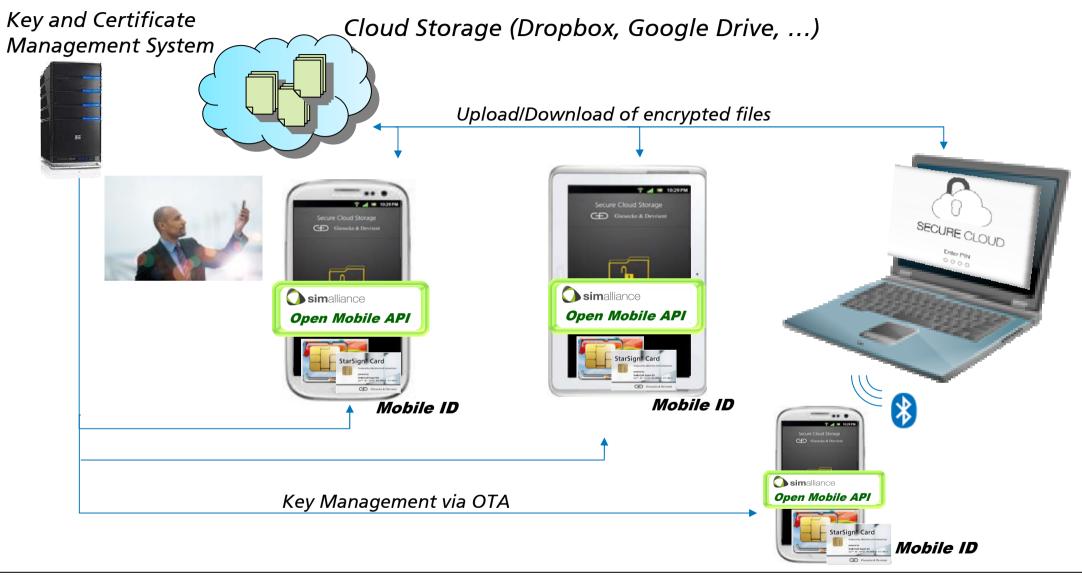
#### Access Management



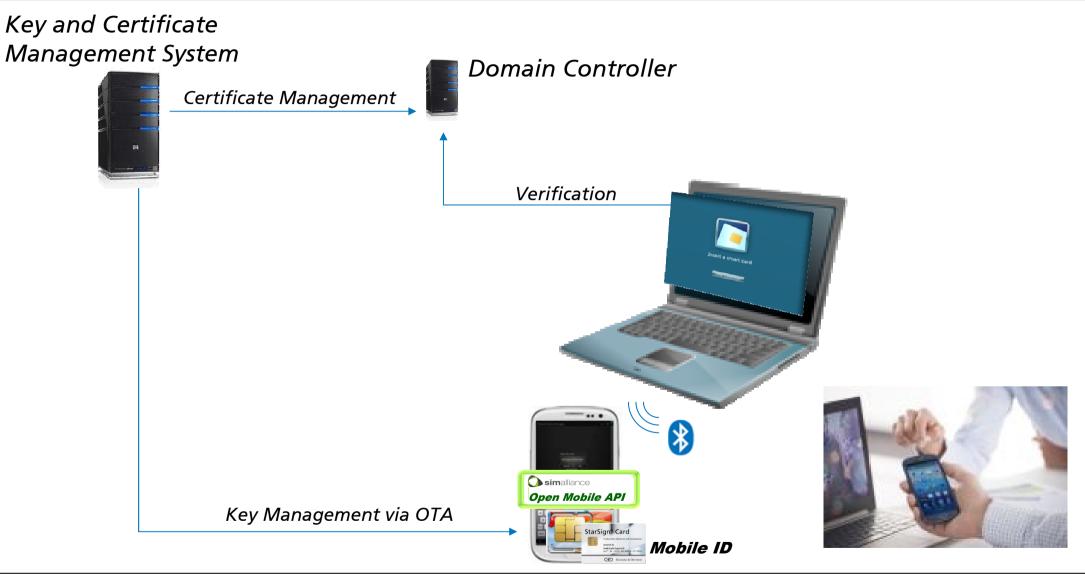
### **Mobile ID Solution: Secure Authentication**



## Mobile ID Solution: Secure Cloud Storage

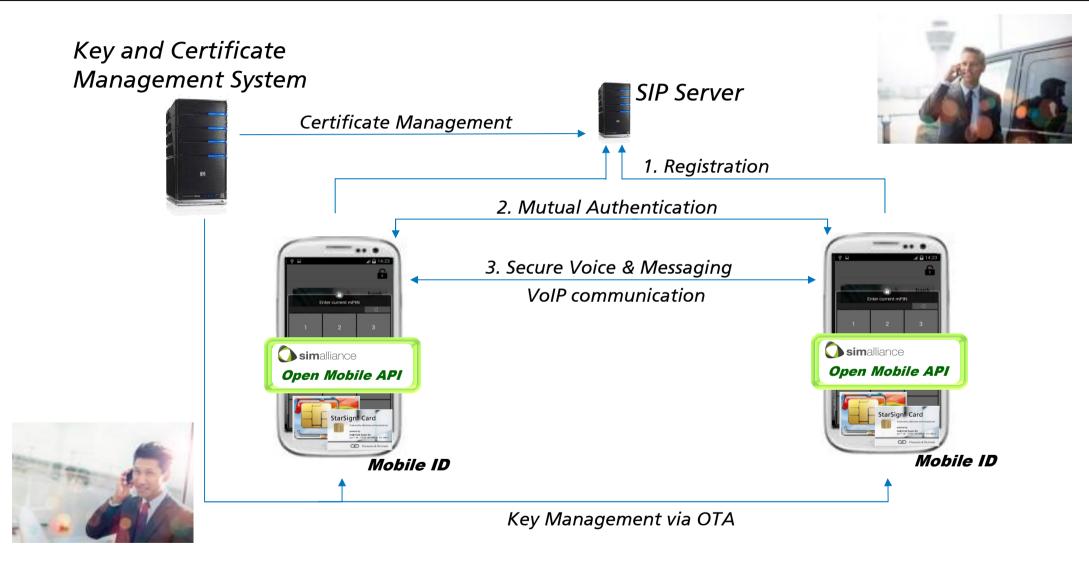


### Mobile ID Solution: Secure System Login

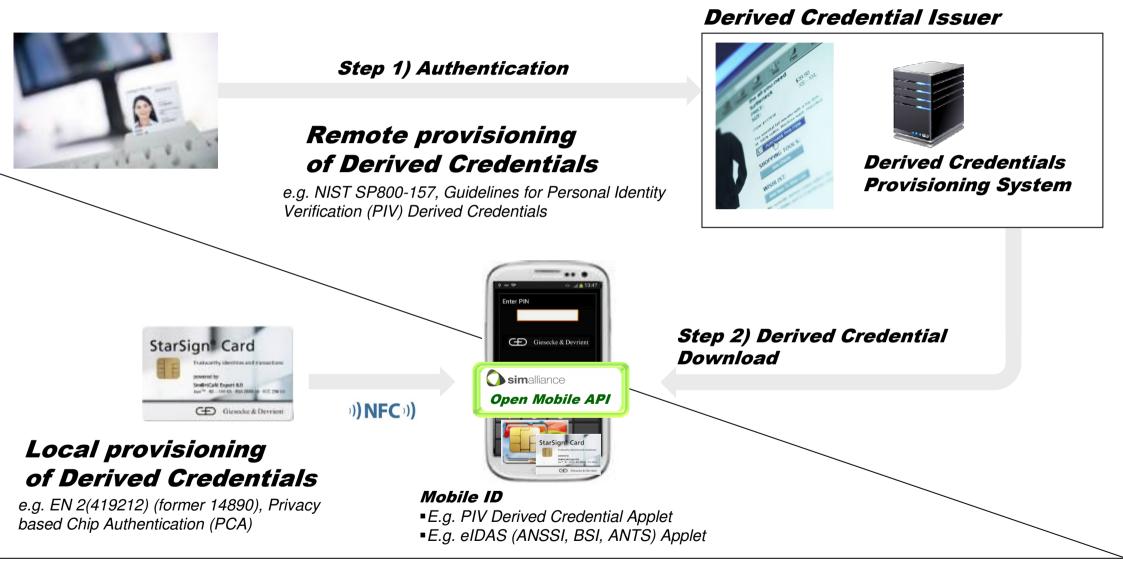




#### Mobile ID Solution: Secure Voice



#### **Mobile ID Solution: Derived Credentials**





### Mobile ID Solution: Vodafone Secure SIM

09-Mar-2014 | Munich, Germany

G&D Supplies Vodafone Germany with SIM Card-Based System for Mobile Communication Encryption

#### Secure Login

✓ 2 factor authentication (access data + SIM identity)
✓ Login with End-2-End encryption
✓ Seamless integration into existing IT infrastructures
✓ No additional hardware required
✓ Easy administration via web admin portal

#### Secure Data

✓ Encryption of E-Mails, documents, storage and VPN
✓ PKI keys and certificates are stored in the SIM
✓ Seamless integration into existing security technologies
✓ Additional hardware (Smart Cards, Security Tokens) not needed
✓ Easy administration via web admin portal



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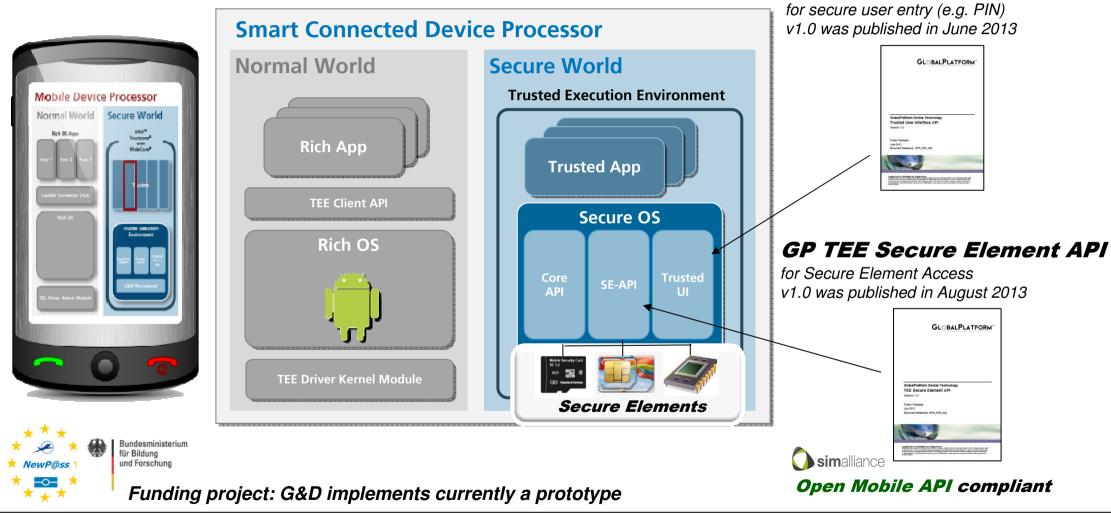




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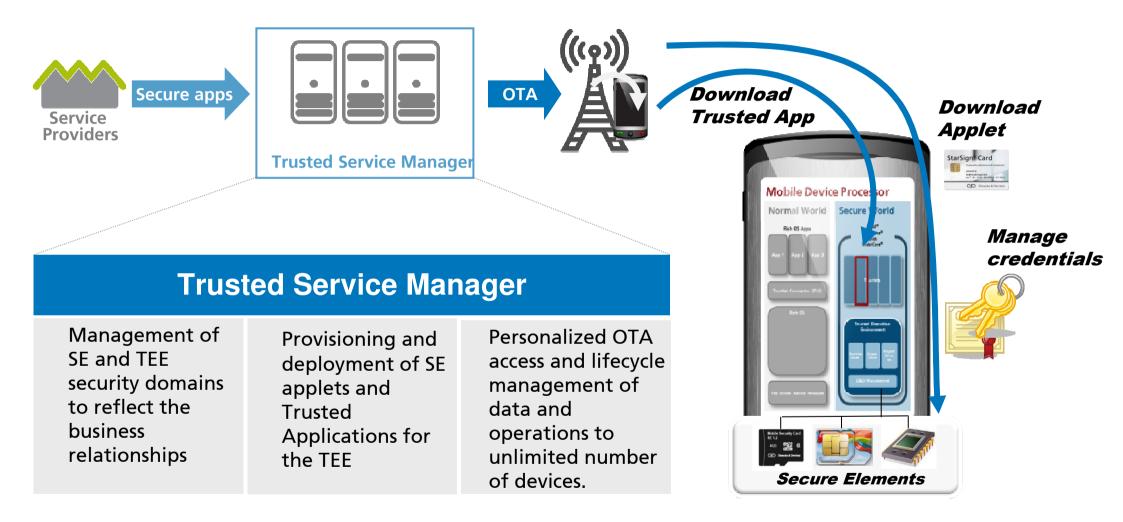
#### **Trusted Execution Environment for Mobile ID**

#### **GP TEE Trusted User Interface API**



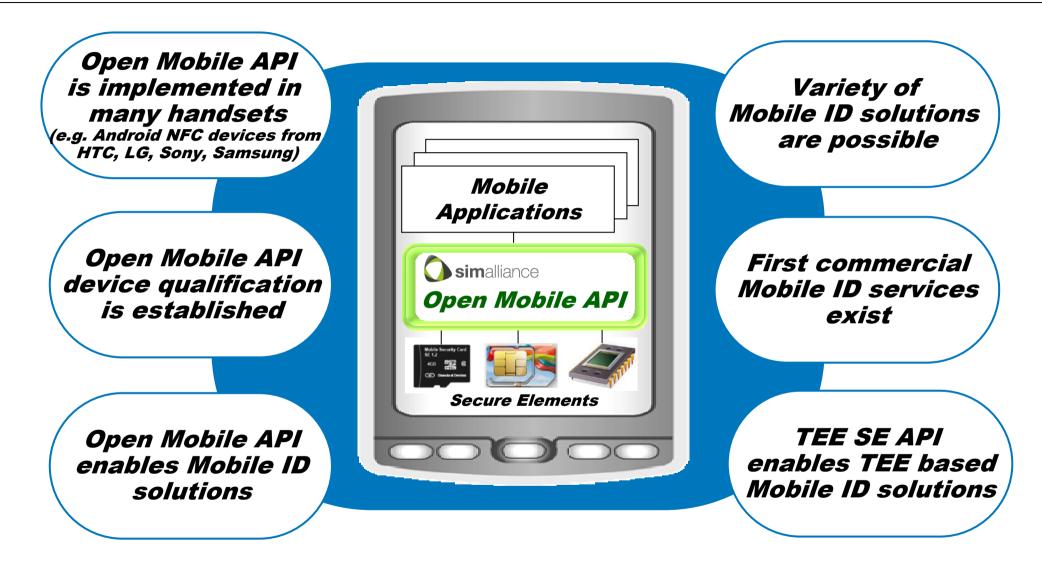


#### TEE Remote provisioning for Mobile ID





#### Conclusion



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# Thank you for your attention!



