

GlobalPlatform eID Wallet Seminar Brussels 2023

Trusted Service Management System as an enabler for digital identities

Christian Stengel | Deutsche Telekom Security GmbH
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**Global
Platform™**



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01

Deutsche Telekom Security – Who we are!



Deutsche Telekom Security – Who we are!



Deutsche Telekom Security (DT-Sec) is an **independent company of the Telekom Group** with more than 25 years of experience.

With **more than 1.700 employees** DT-Sec offers a diversified solution portfolio in services and technology.



01

With **sales over 350mio. in cyber security** we are market leader in DACH and one of the leaders in Europe.

02

We build the **same protective wall** for our customers than for Deutsche Telekom AG worldwide.

03

From us you get **security and data protection "Made in Europe"** with presence worldwide.

04

We cooperate with **leading global companies** and offer you digital security from a single source.

02

Legal background

... for our current work.



Legal background – the new eIDAS regulation

The eIDAS regulation from 2014 is an important basis for secure eIDs for the public sector.



It was revised in 2021-2022 as part of the "Strategy for shaping Europe's digital future".

Goal of the new eIDAS regulation



Increase in acceptance and market reach.



Support of wide range of use cases and secure access to a variety of private and commercial services.



Support for "legal" identities such as IoT devices.



Options for integrating existing ID solutions.



Simplification of the notification process by creating modules to be notified individually.



Harmonization of (Qualified) Electronic Attestation of Attributes [(Q)EAA] and Personal Identification Data [PID].



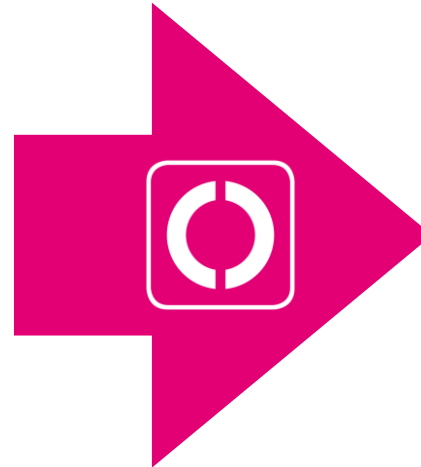
Development of technical standards for a common **EUID toolbox for the EUID Wallet by standardization bodies.**

03

The challenge



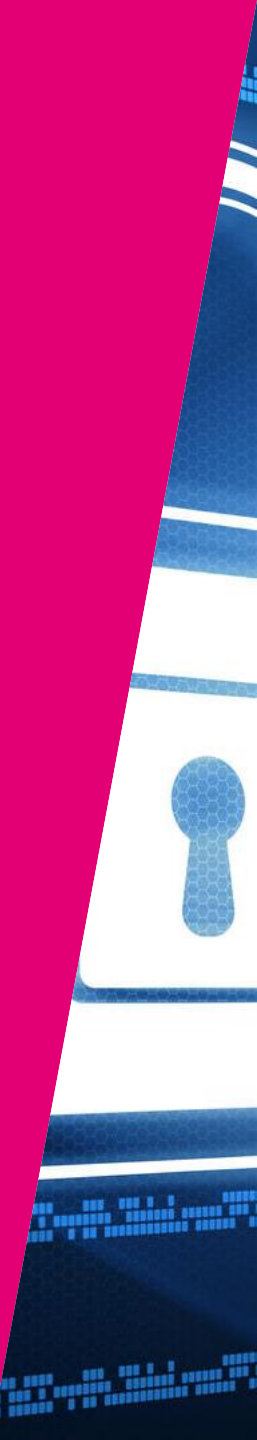
The Challenge – German ID-Card on smartphone



Current German ID-Card
Plastic Card with Smartcard-Chip
Due to the German „eID-law“,
eIDAS „high“

Smart-eID
as German ID-Card on a Secure Component
(eSE/eUICC) within the Smartphone
Due to the **new** German „eID-law“,
up to eIDAS „high“

Main challenge: How can the ID-Card functionality be transported onto different secure components?



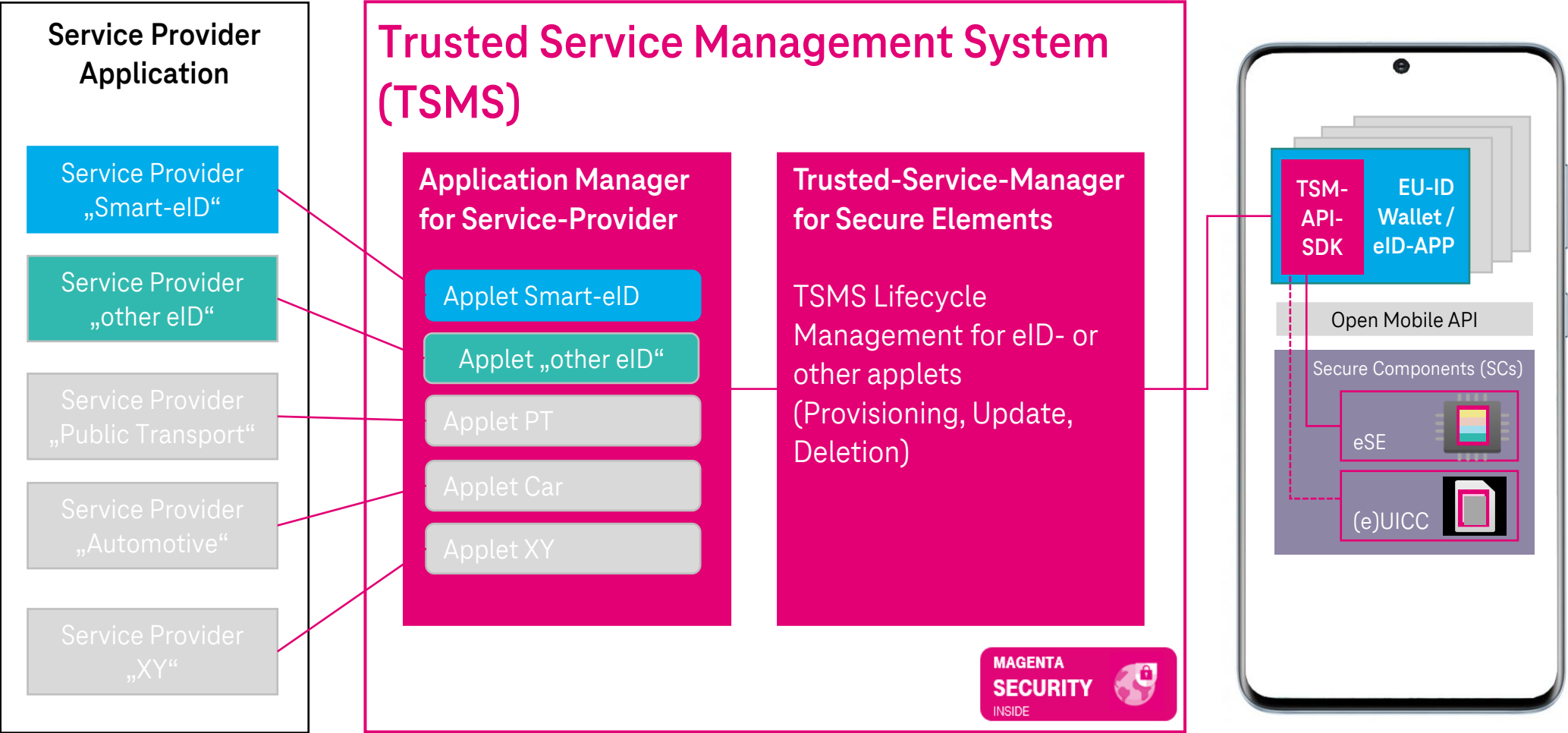
04

Our solution – The TSMS

... based on GlobalPlatform Standards



TSMS as a basis for the mobile trust ecosystem

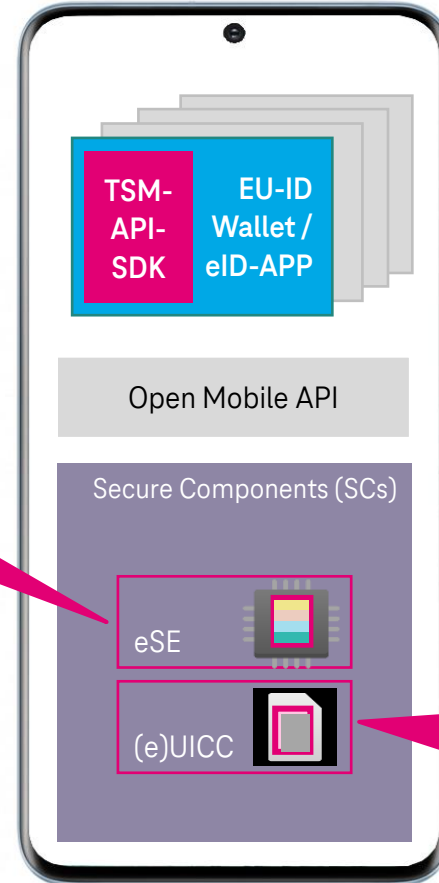


Development based on current GlobalPlatform standards 

Adressed hardware based secure components

Embedded Secure Element (eSE)

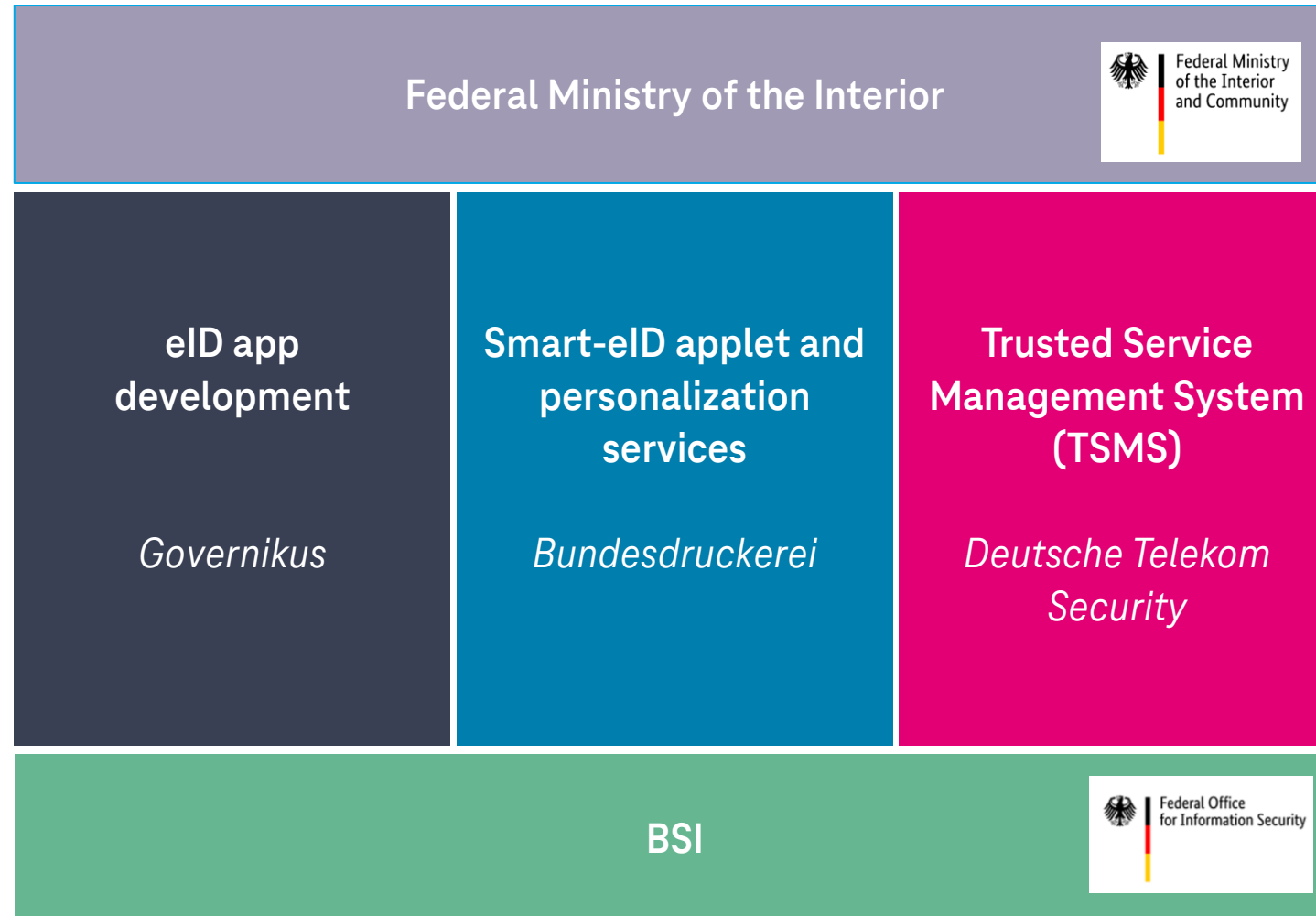
Security module embedded in the smartphone by the manufacturer



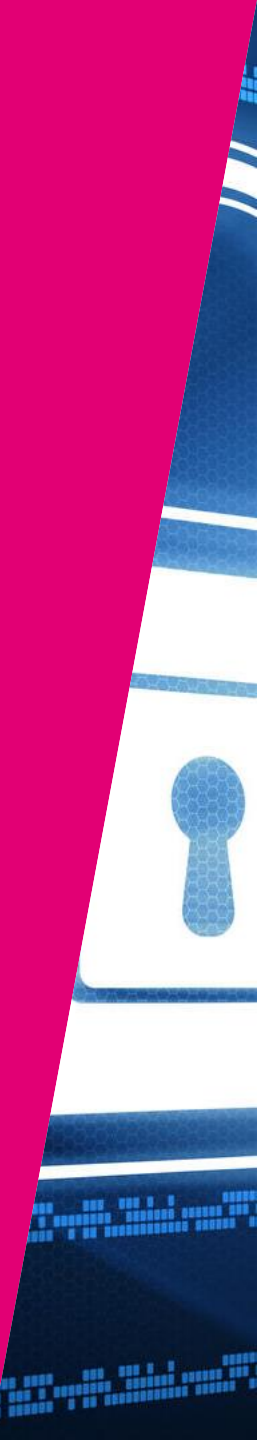
Universal Integrated Circuit Card (UICC/eUICC)

Embedded security module with logical secure elements

Project Smart-eID



The Trusted Service Management Systems is used for the provisioning of eLD applets and other applets into secure components in smartphones!



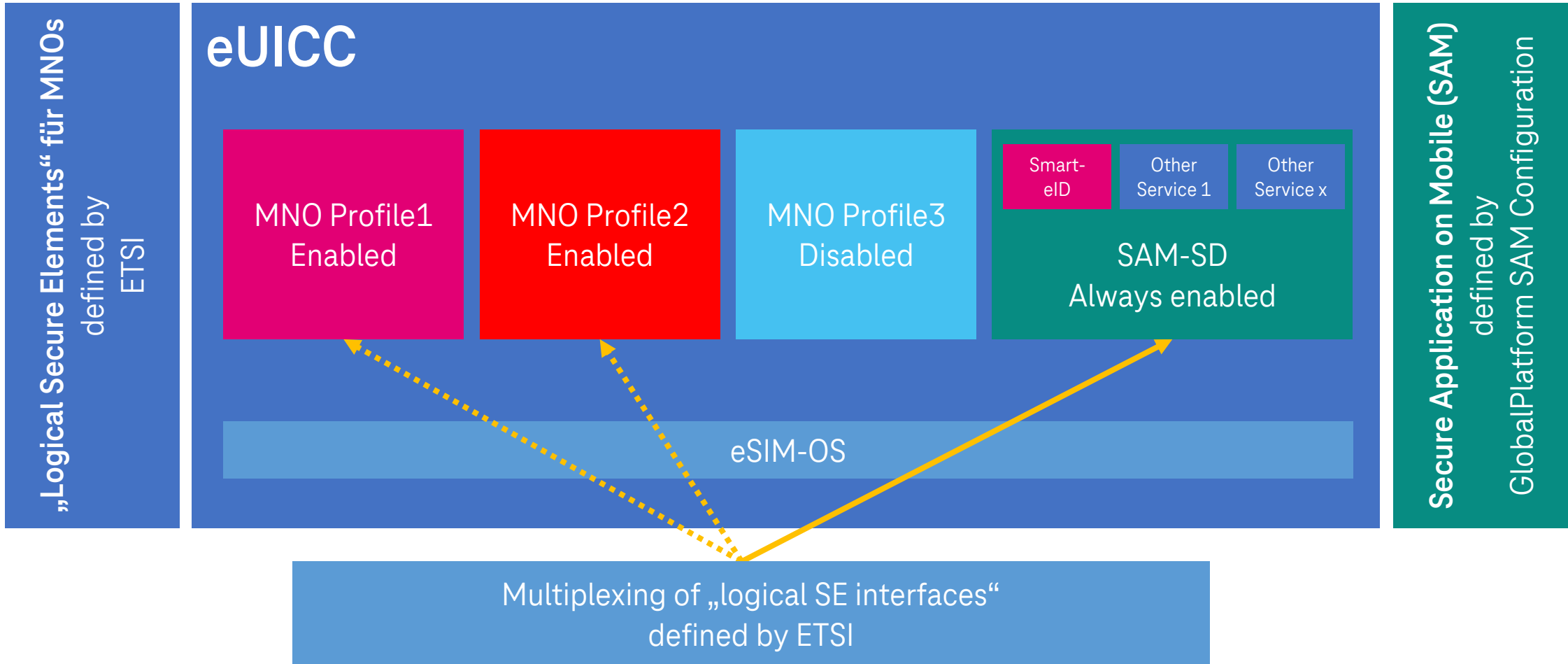
05

More to come



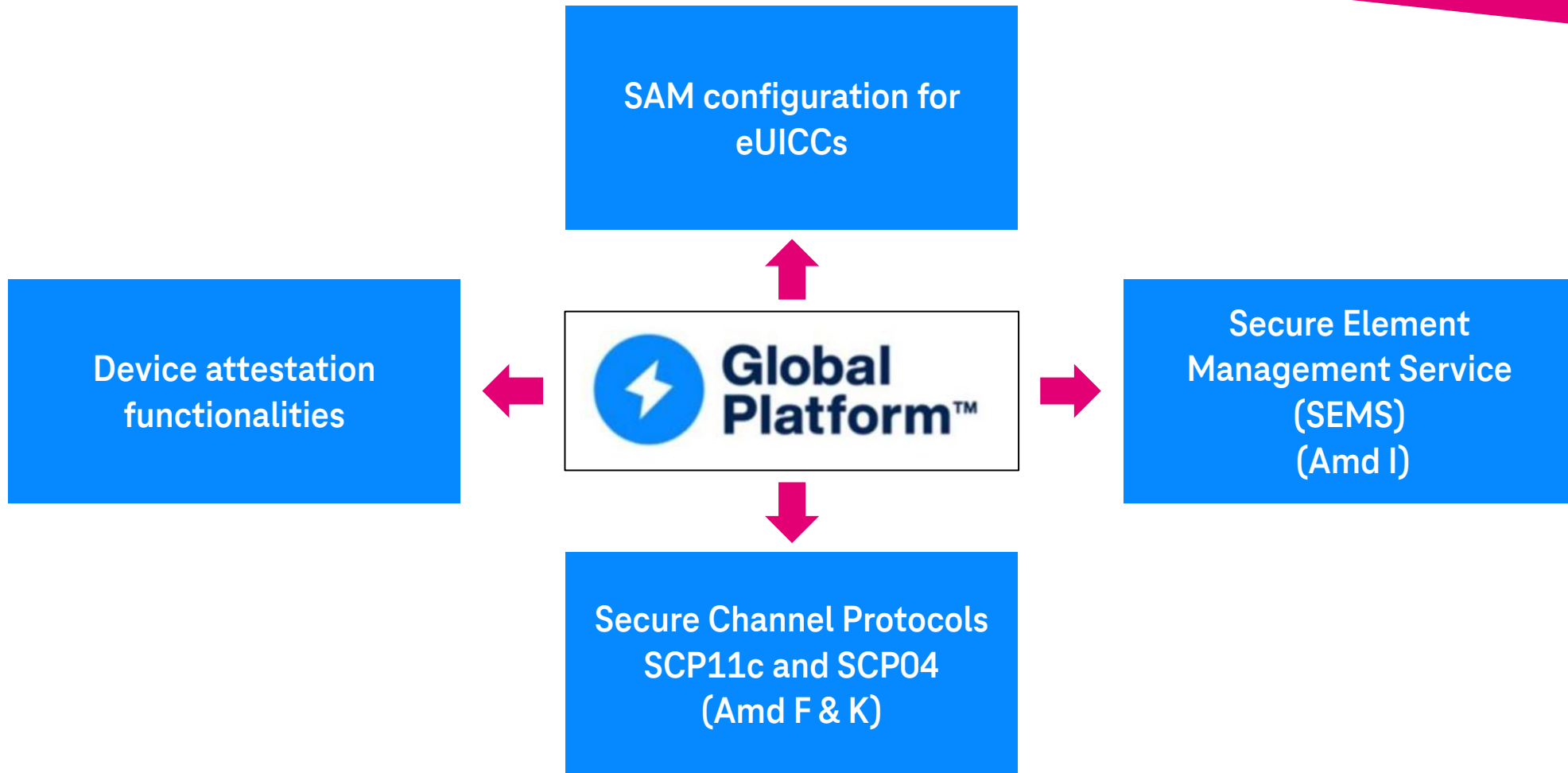
GSMA SAM

... „formerly known as
Common Security
Domain“



Further GlobalPlatform specifications

... in future relevant for
TSMS and Smart-eID



06

Conclusion



Conclusion



eIDAS regulation

- The new eIDAS regulation defines a **secure and open platform** for EU Digital Identity Wallets (EUID Wallet).
- The platform should support of **wide range of use cases** and secure access to a variety of private and commercial services.
- **GlobalPlatform and others are working on technical standards** for a common EUID toolbox.



TSMS

- The TSMS is an excellent tool for **provisioning applets on secure components** in smartphones.
- The TSMS supports eIDs as well as **other applets** for different services.
- The **strong basis of current and new GlobalPlatform standards** allow the support of a wide range of secure components.



Future Development

- **Future standardization and development is needed and performed for a fast and steady onboarding process** for new secure components and smartphones.

**Thank you for your
attention!**



Dipl.-Math. Christian Stengel

Deutsche Telekom Security GmbH

christian.stengel@telekom.de

