

Mobile eID

A brief introduction

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⁰¹ Samsung's Approaches to Mobile Security

Multi-layer protection backed by strong hardware security

- To protect sensitive and critical information backed with hardware protection
- Root of Trust is protected with full hardware security.

Open platforms and open standards for Samsung ecosystems

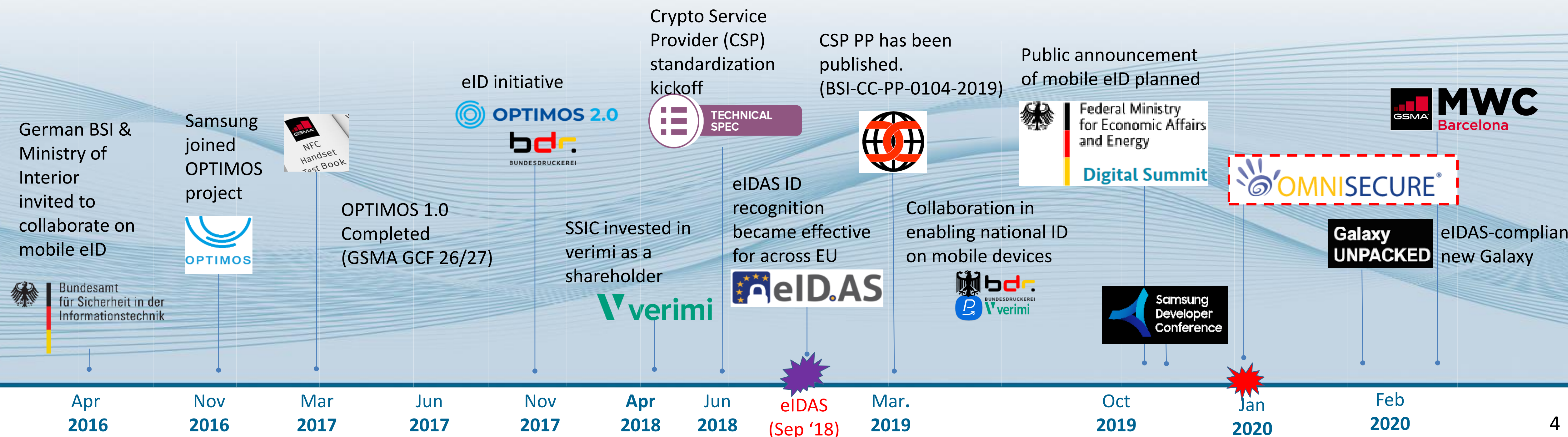
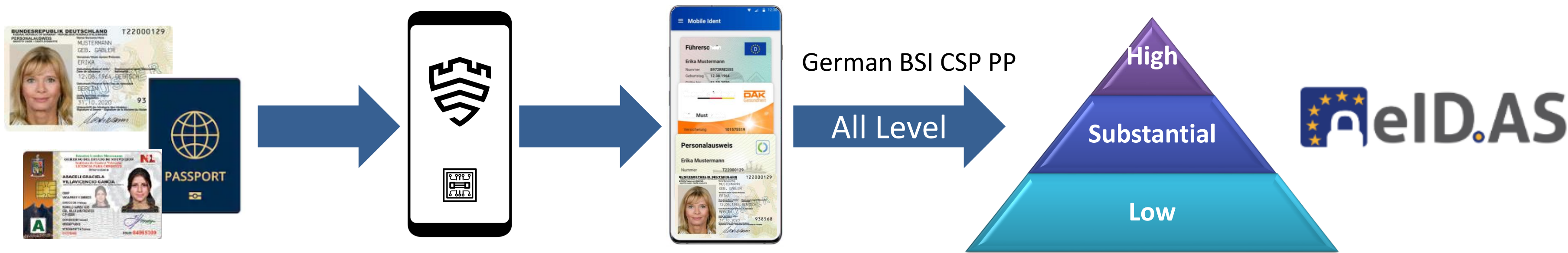
- Security features are available for our partners as well as for our applications and services.
- Hardware-backed protection is offered for applications requiring stronger protection, including 3rd parties'.

Lifecycle management of security

- During the development, we apply a secure development lifecycle management.
- Once the product is released, a lifecycle of vulnerability management processes is initiated such as vulnerability management, quality assurance and patch delivery to the product in the hands of customers.

02.1 ID Cards on Mobile Devices

Extend sovereign IDs and passports to digital IDs with strong cryptographic protection and EAL5+ eSE!



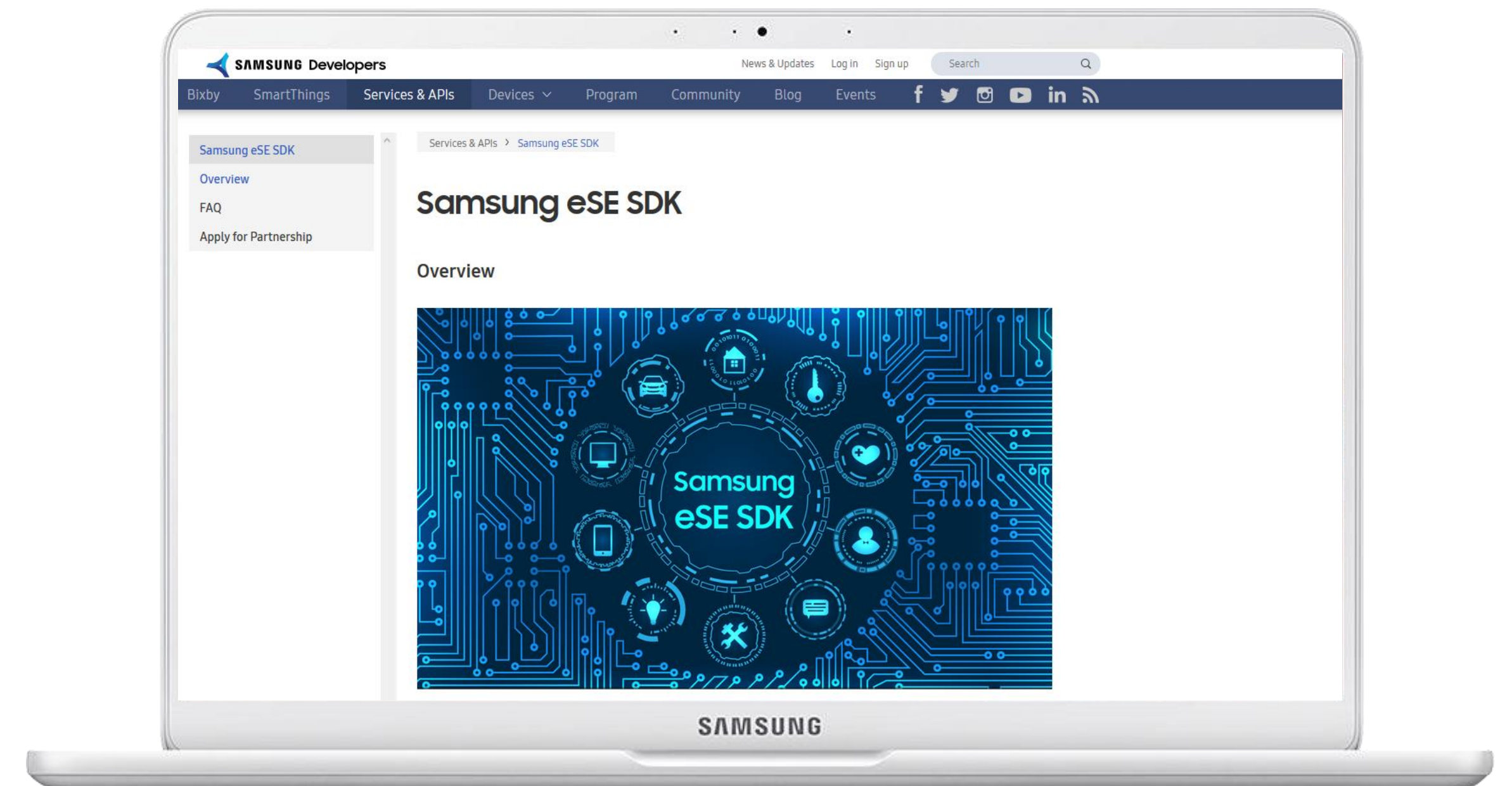
02.2 embedded Secure Element (eSE)



Samsung developer's conference 2019

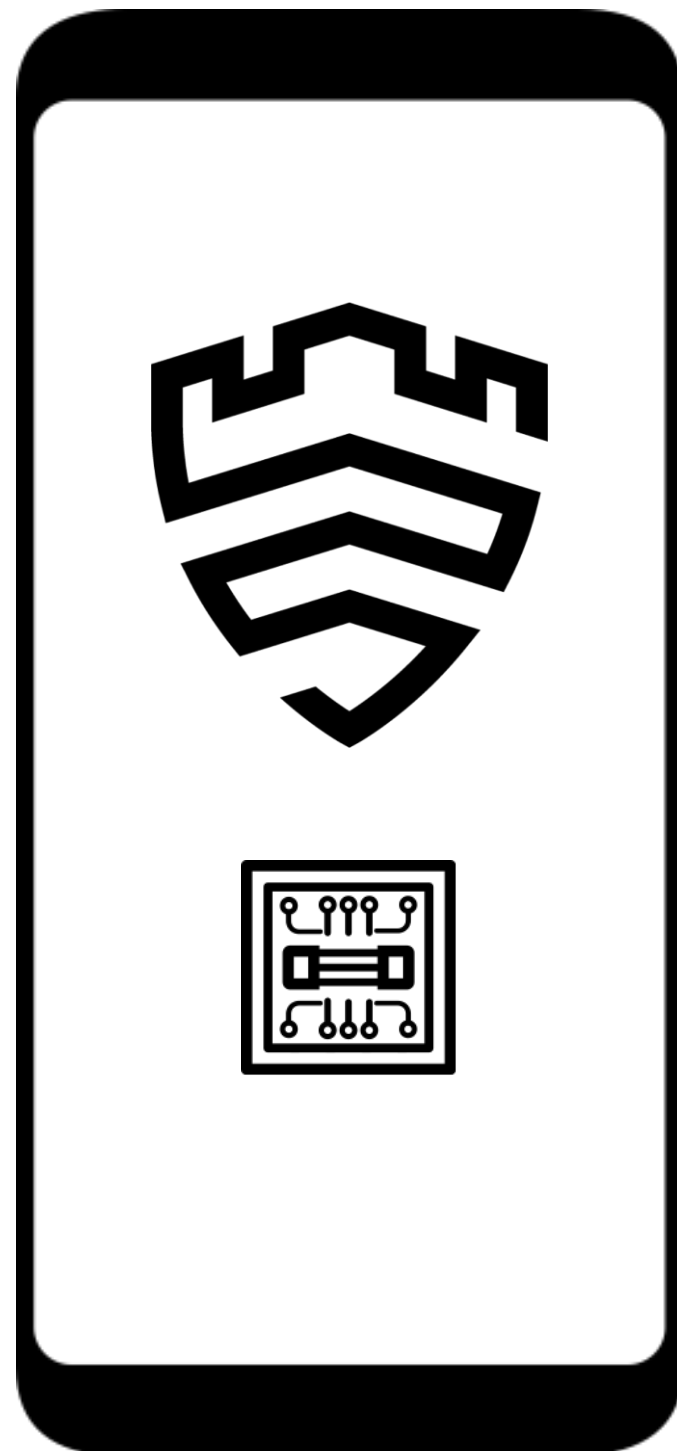


Digital summit 2019



<https://developer.samsung.com/eSE>

02.2 embedded Secure Element (eSE)



ID services

- Targeting EU eIDAS-certified services (National IDs, Passports, etc.)
- Driver's License on smartphones (EU and North America)
- Derived credential services for major EU countries
- Participating in a private-sector ID service consortium

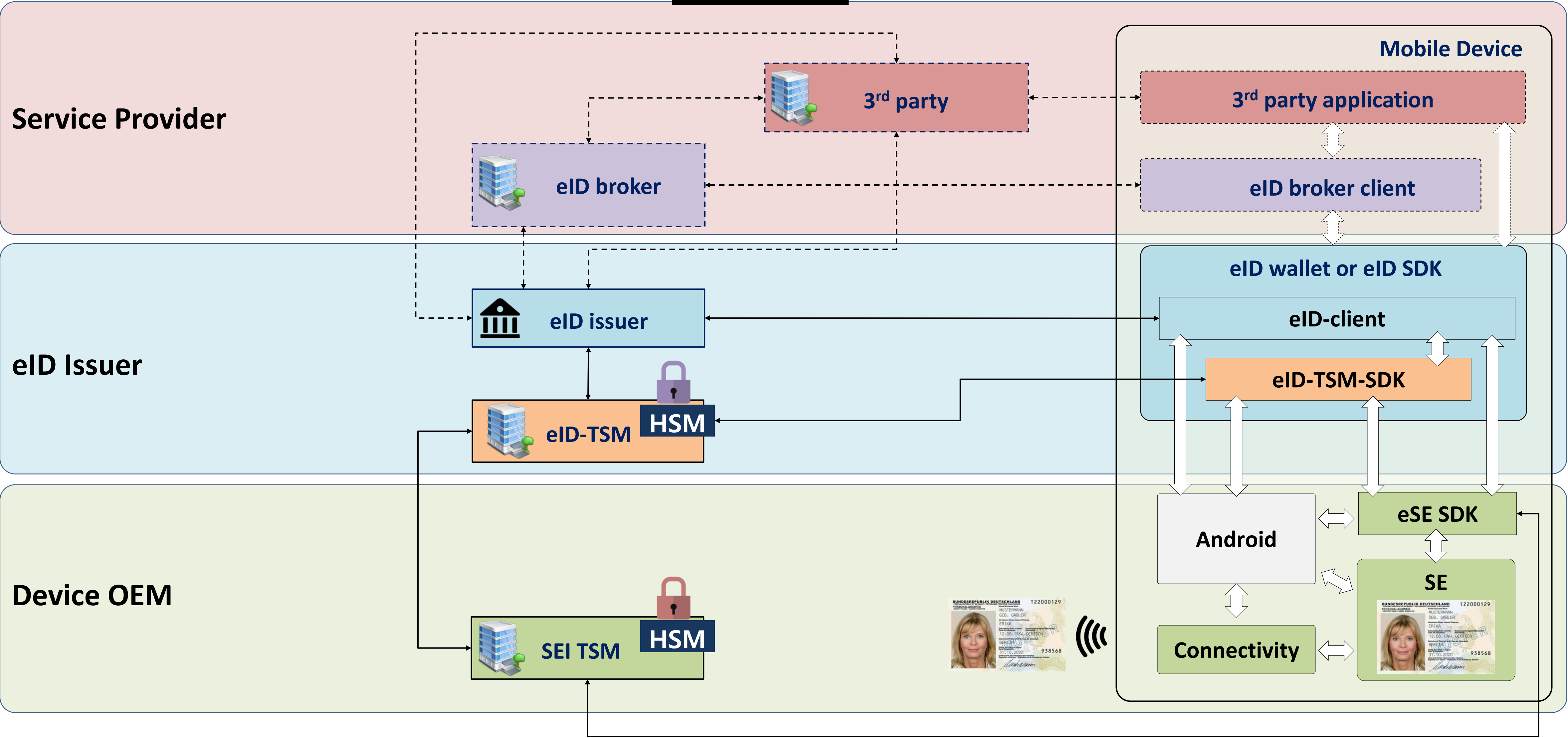
Transportation services

- Smart wallet service for public transportation services in Europe and Asia

Smart car key services

- Connected Car Consortium Phase I (implemented)
- Works with major car manufactures in Germany and Korea
- Connected Car Consortium Phase II and III (under development)

02.3 eID Security Framework



02.4 Certifications

Component	Certifications	
eID application	TBD	TBD
Crypto-plugin	CSP (Cryptographic Service Provider) PP (EAL4+) PP 0104	<div>e.g.) equivalent to<ul style="list-style-type: none">• PP QSCD - Part 2: Device with key generation• PP QSCD - Part 3: Device with key Import• PP QSCD - Part 6: Extension for device with key import and trusted communication with signature creation application</div>
Platform (Javacard OS)	Java Card System PP (EAL4+) PP 0099	
Chip (H/W)	Security IC Platform Protection Profile (EAL6+) PP 0084	

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Thank you