

# Mobile eID

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**A brief introduction**

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# 01 Samsung's Approaches to Mobile Security

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## 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

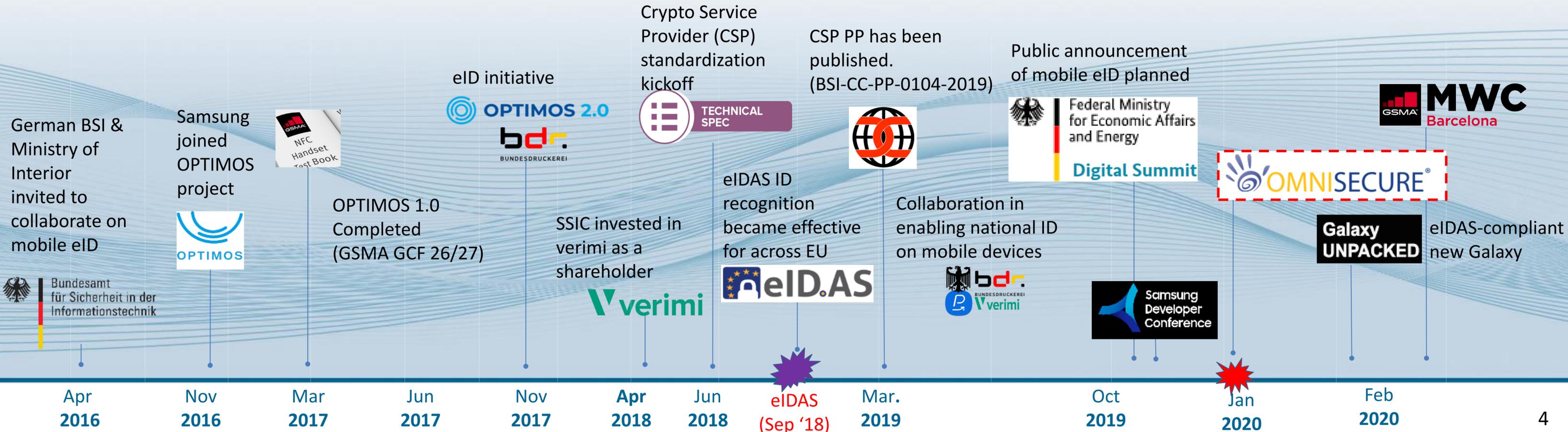
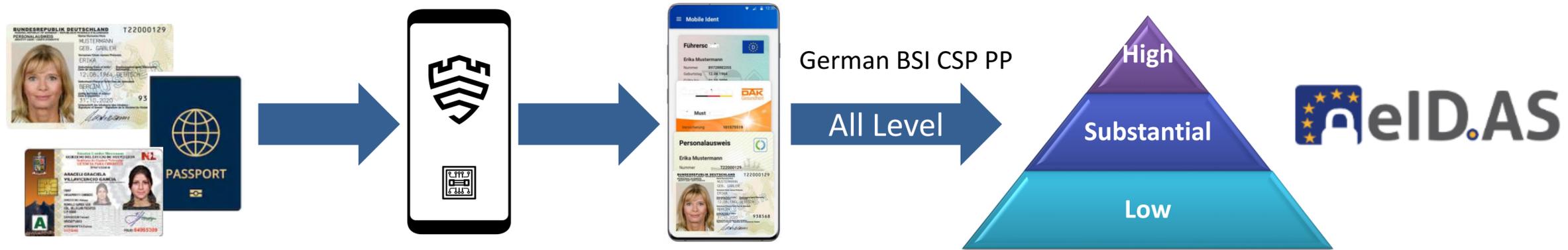
- Security features are available for our partners as well as for our applications and services.
- Hardware-backed protection is offered for applications requiring stronger protection, including 3rd parties'.

## 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!



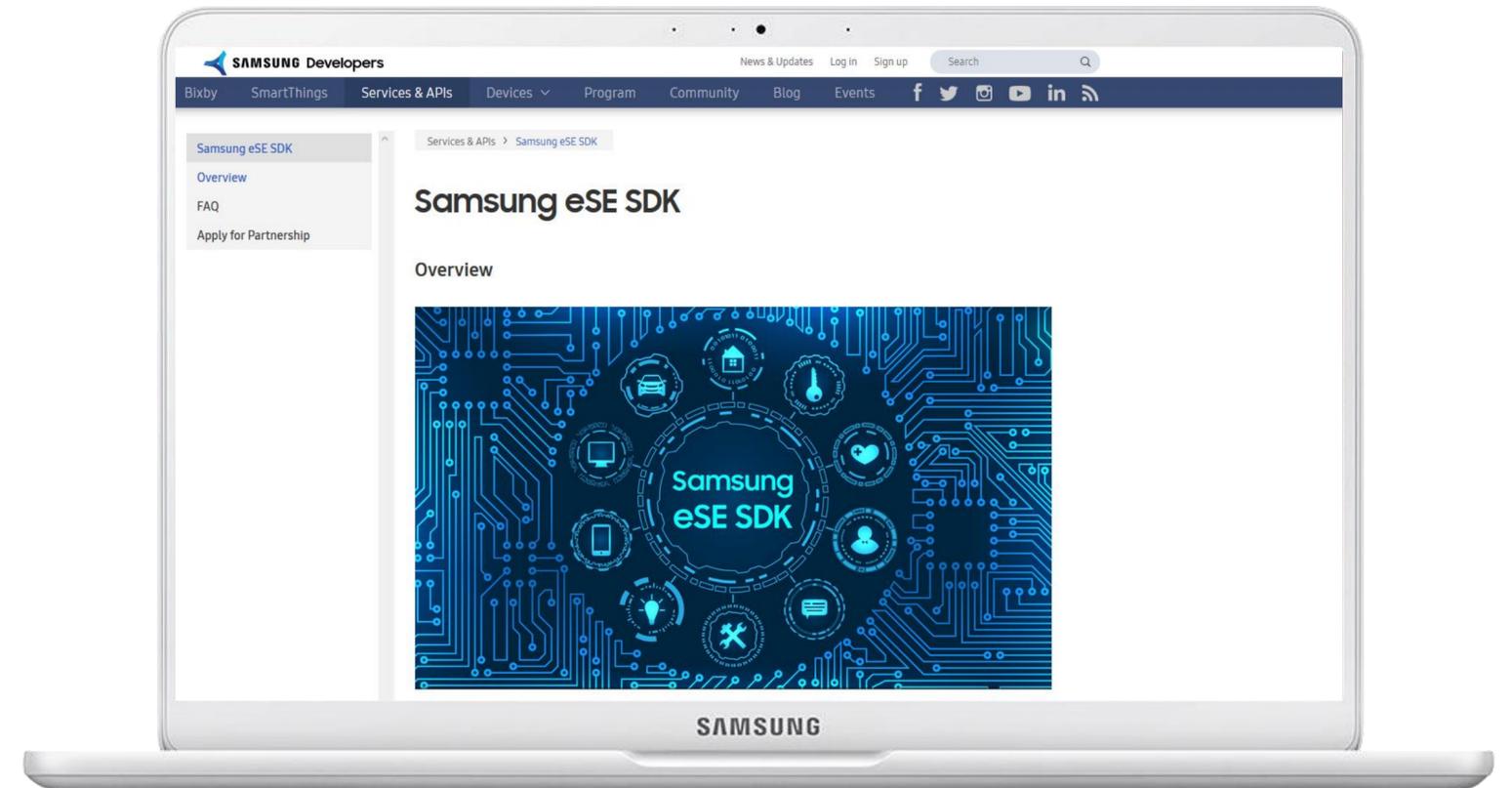
# 02.2 embedded Secure Element (eSE)



Samsung developer's conference 2019



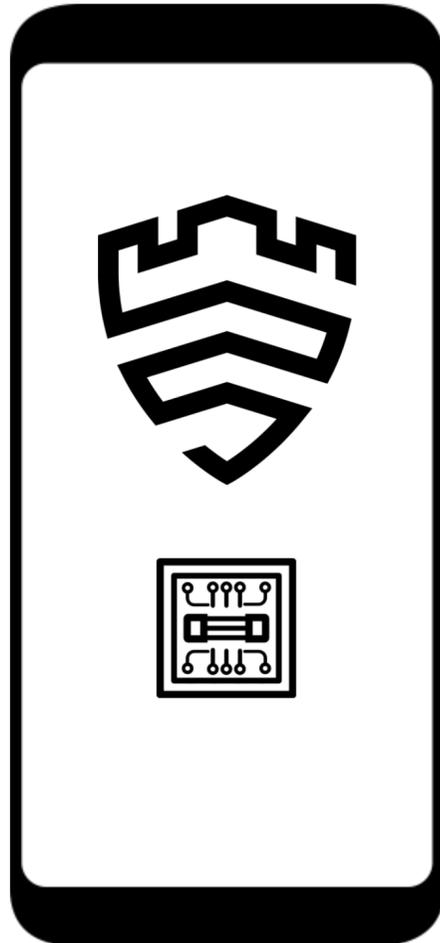
Digital summit 2019



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

## 02.2 embedded Secure Element (eSE)

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### 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

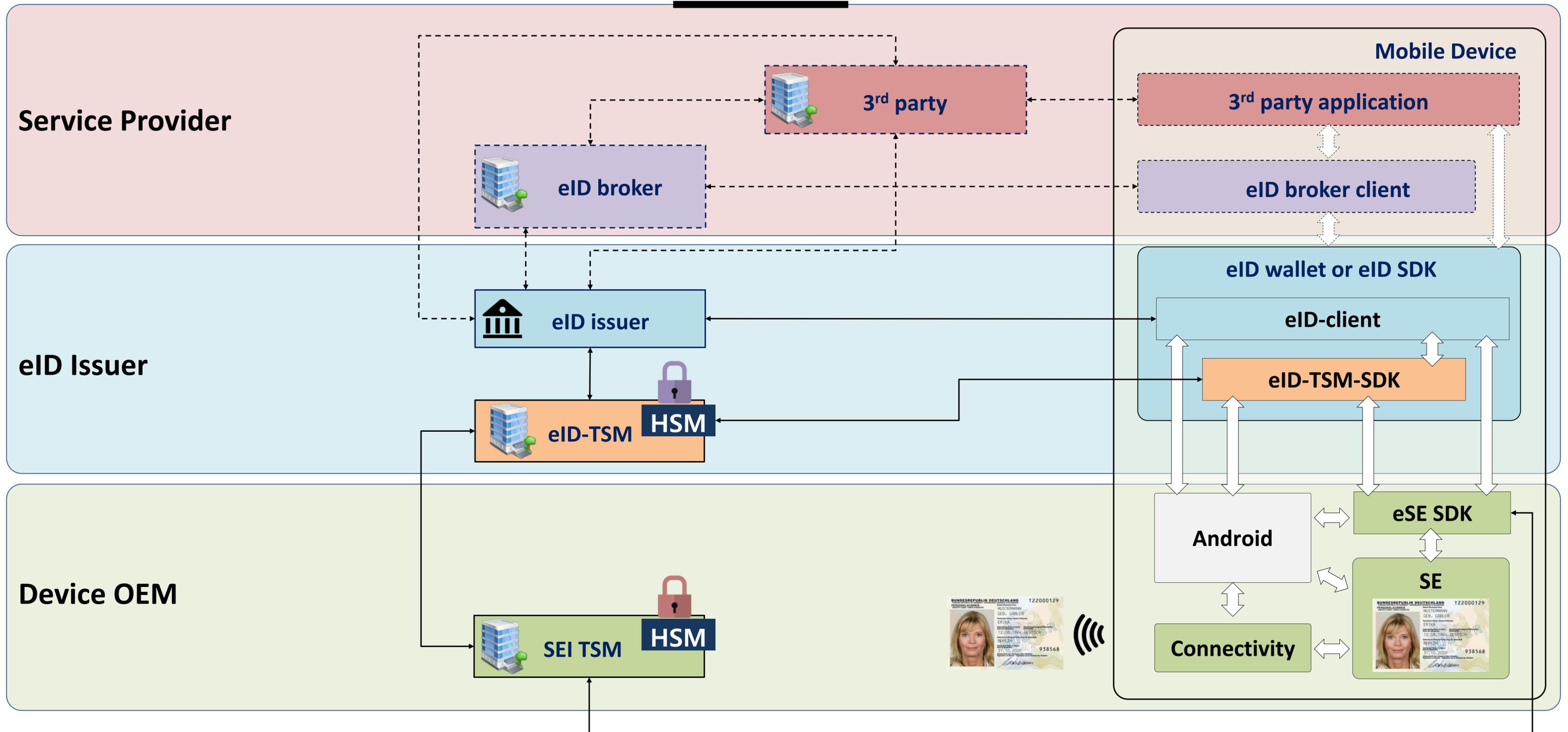
### Transportation services

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

**SAMSUNG**

**Thank you**