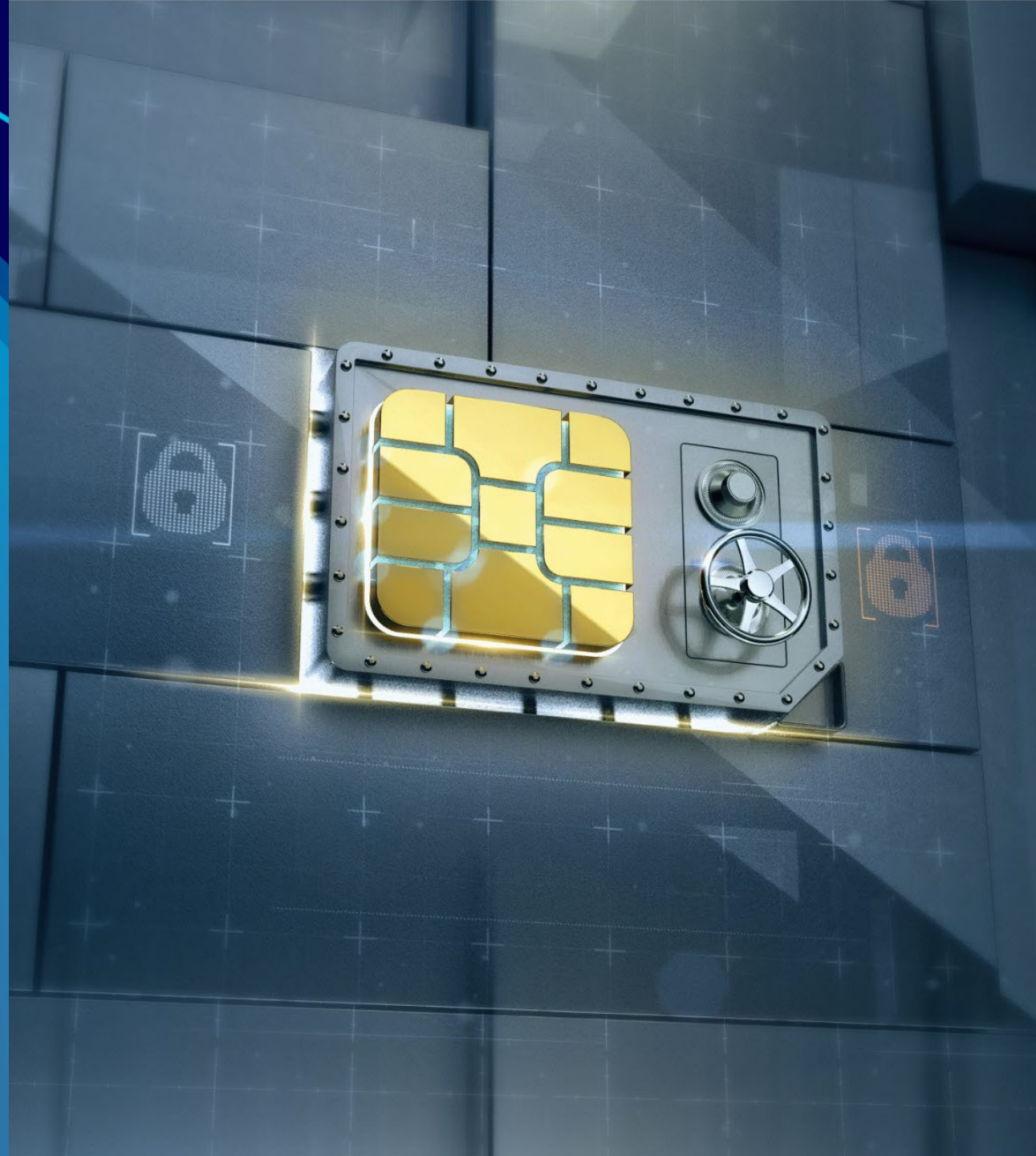
The eSIM and it’s role for Secure Applications

12.5.23, Jan Eichholz



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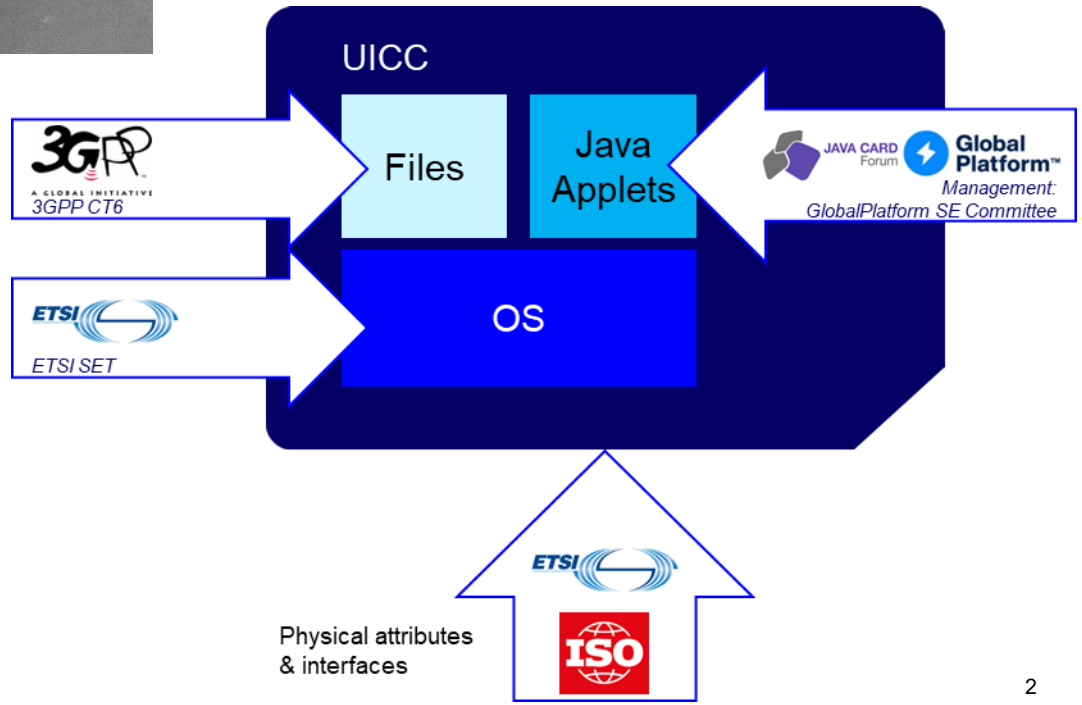
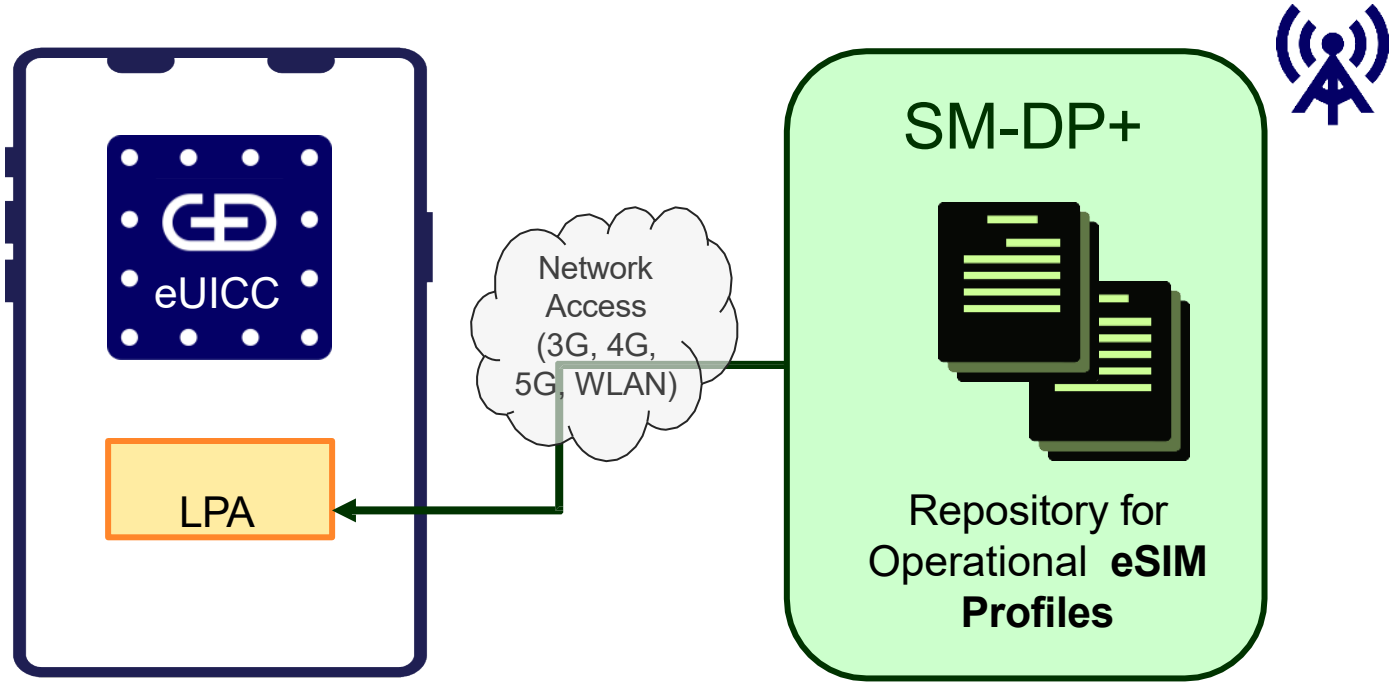
1991 - “Classical” SIM-Card

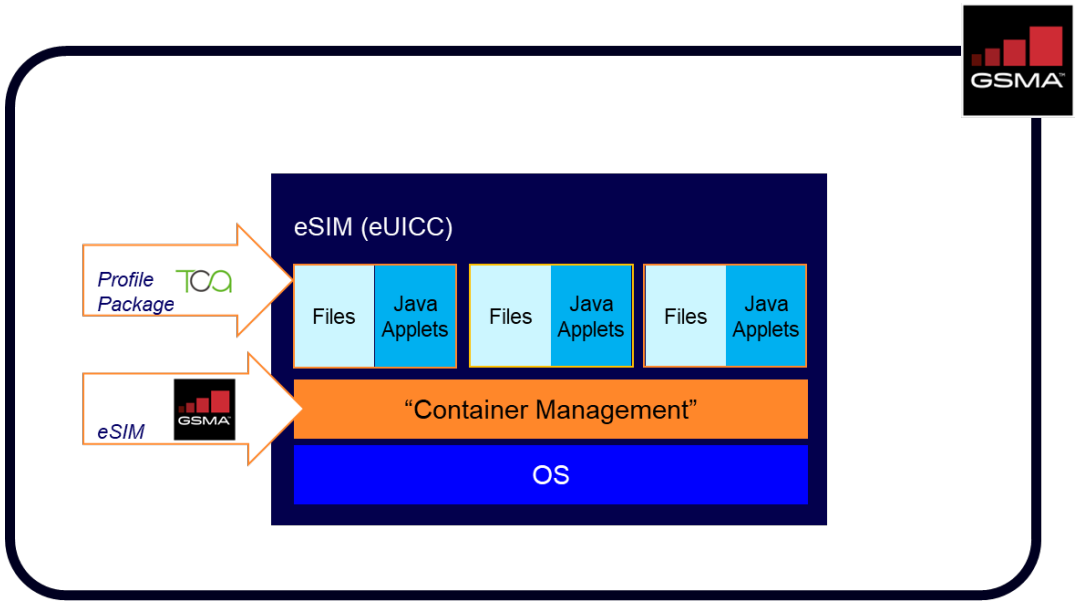
- Pluggable SIM card
- Dedicated smartcard controller
- Typically, fixed and preconfigured MNO/connectivity profile
- Complete product, smartcard incl. operating system (OS)



2012 - Embedded SIM (eSIM)

- Solderable surface-mounted device (SMD)
- Dedicated smartcard controller
- Supports flexible connectivity via eSIM management
- End-to-end solution incl. hardware, smartcard OS and eSIM management





The eSIM will be dominant in 2030 in Europe

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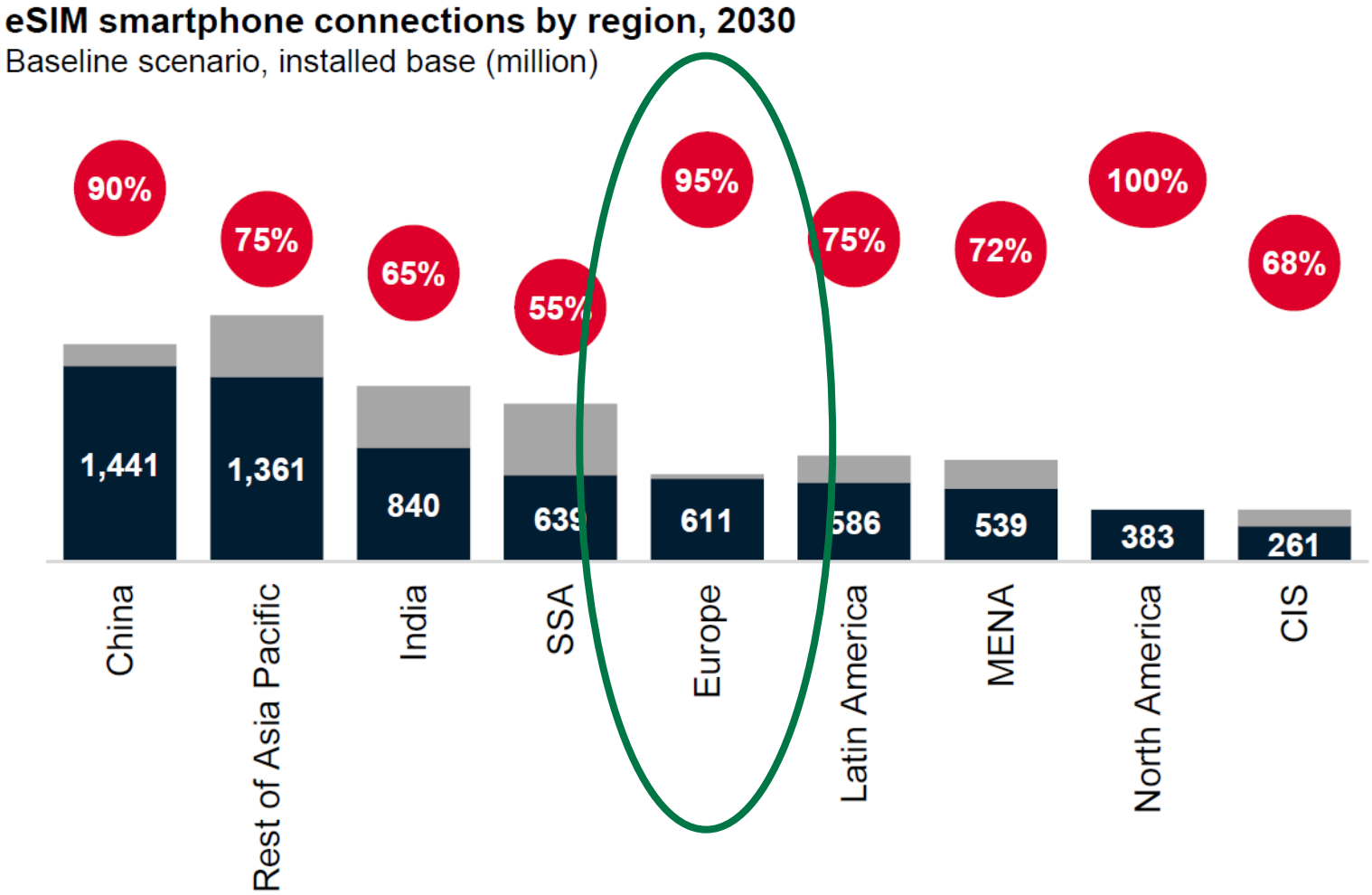

Source: GSMA Intelligence

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The world of eSIM enabled Devices is growing rapidly

Source: https://www.gsmarena.com

eSIM Success Factors

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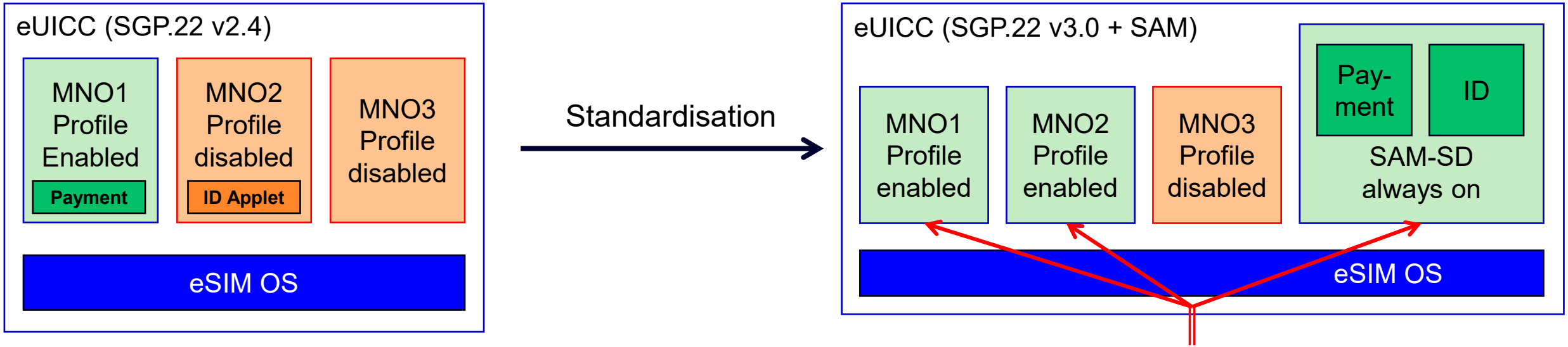
Additional Applications on the eSIM - GSMA Secured Applications for Mobile (SAM)



- Support for multiple enabled profiles (“Dual SIM”)
- Support for additional - eSIM independent – applications within the SAM Security Domain
- Reflection of the new features in compliance and security certification standards

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Questions?

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