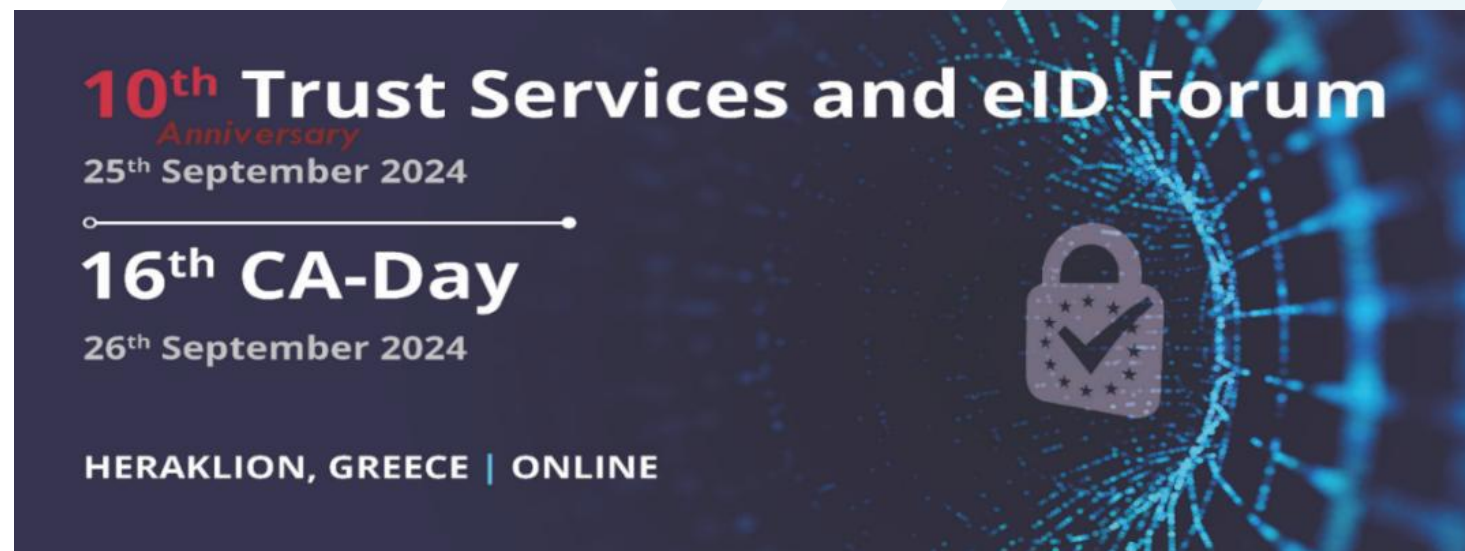


Qualified Electronic Signature for the wallet


Michał Tabor



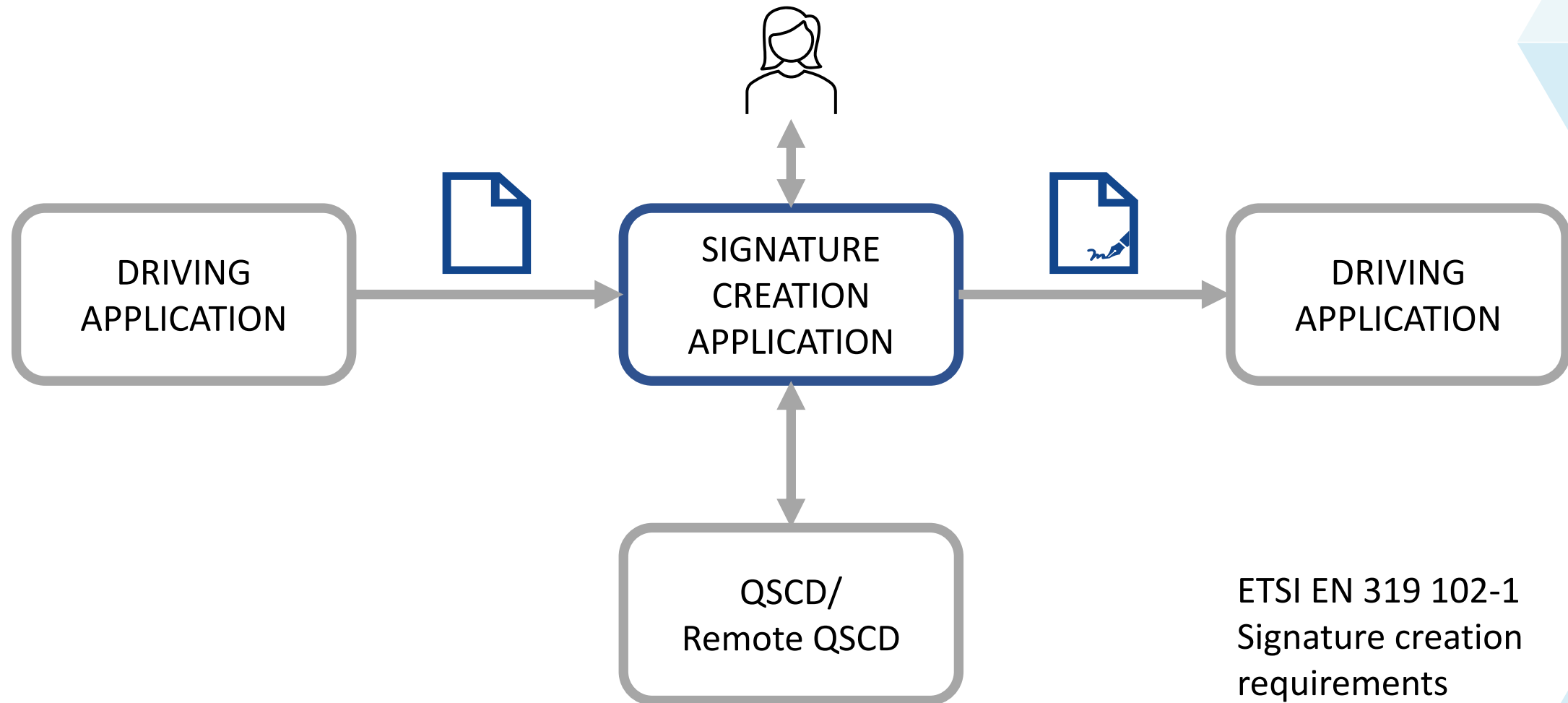
10th Anniversary Trust Services and eID Forum
25th September 2024

16th CA-Day
26th September 2024

HERAKLION, GREECE | ONLINE

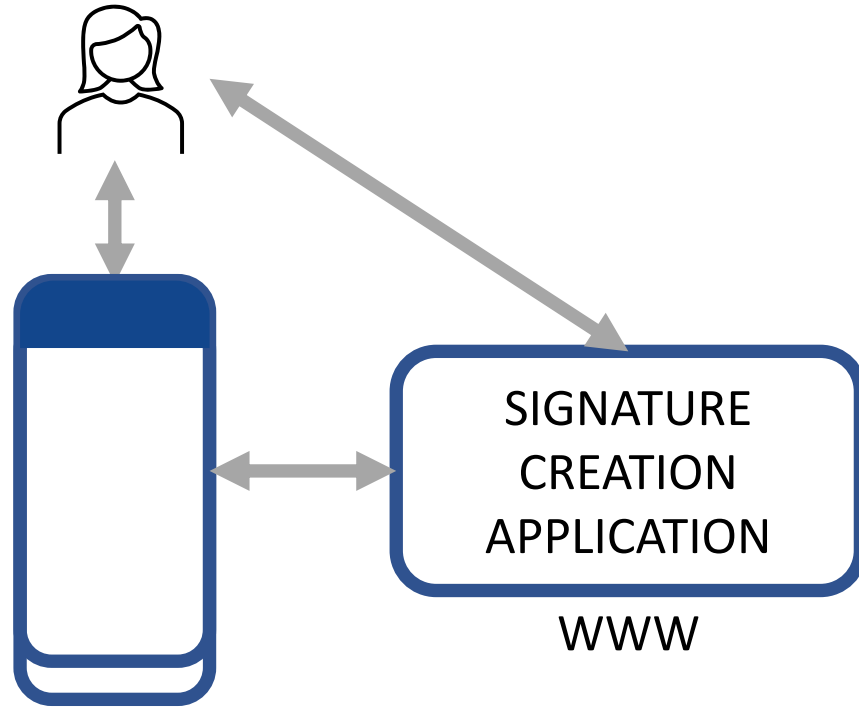


Signature Creation Application

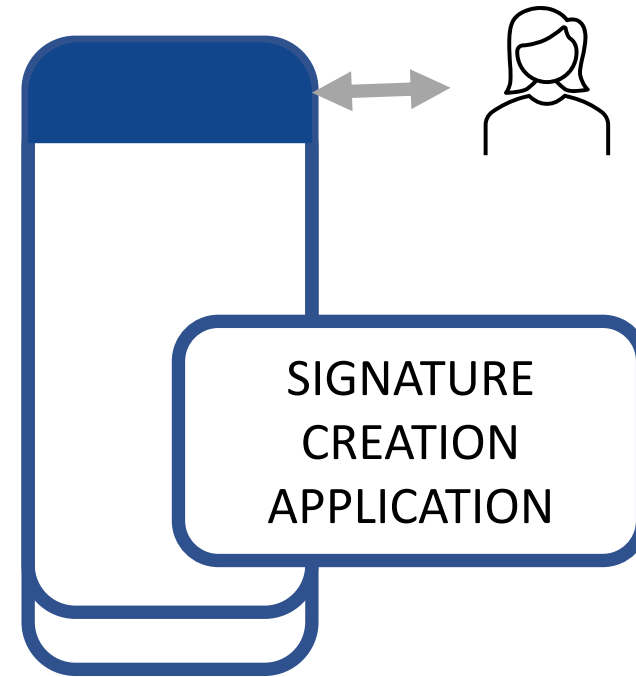


ETSI EN 319 102-1
Signature creation
requirements

Signature Creation Application models

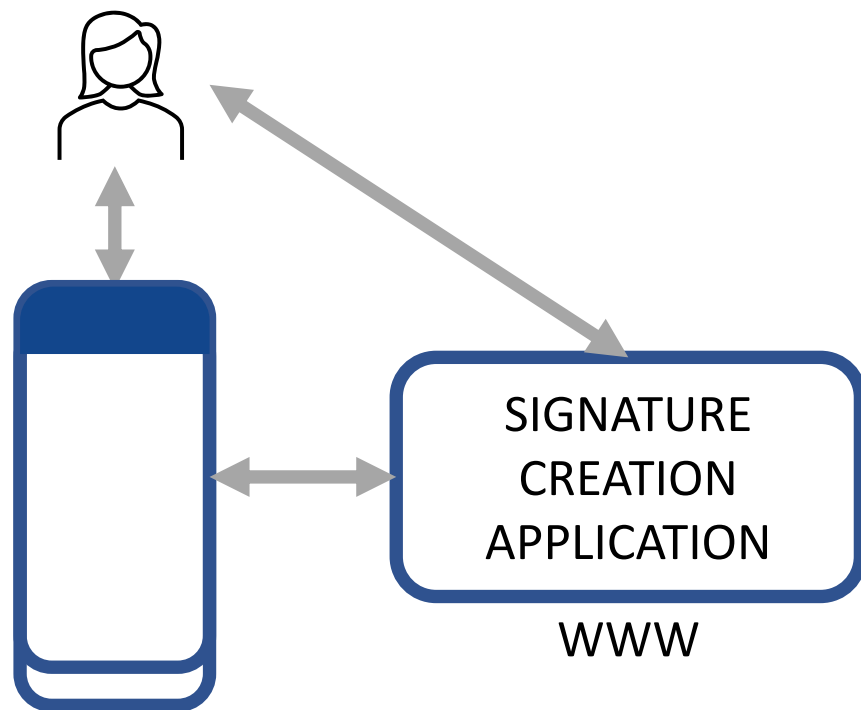


SCA as a service
independent from the wallet
solution

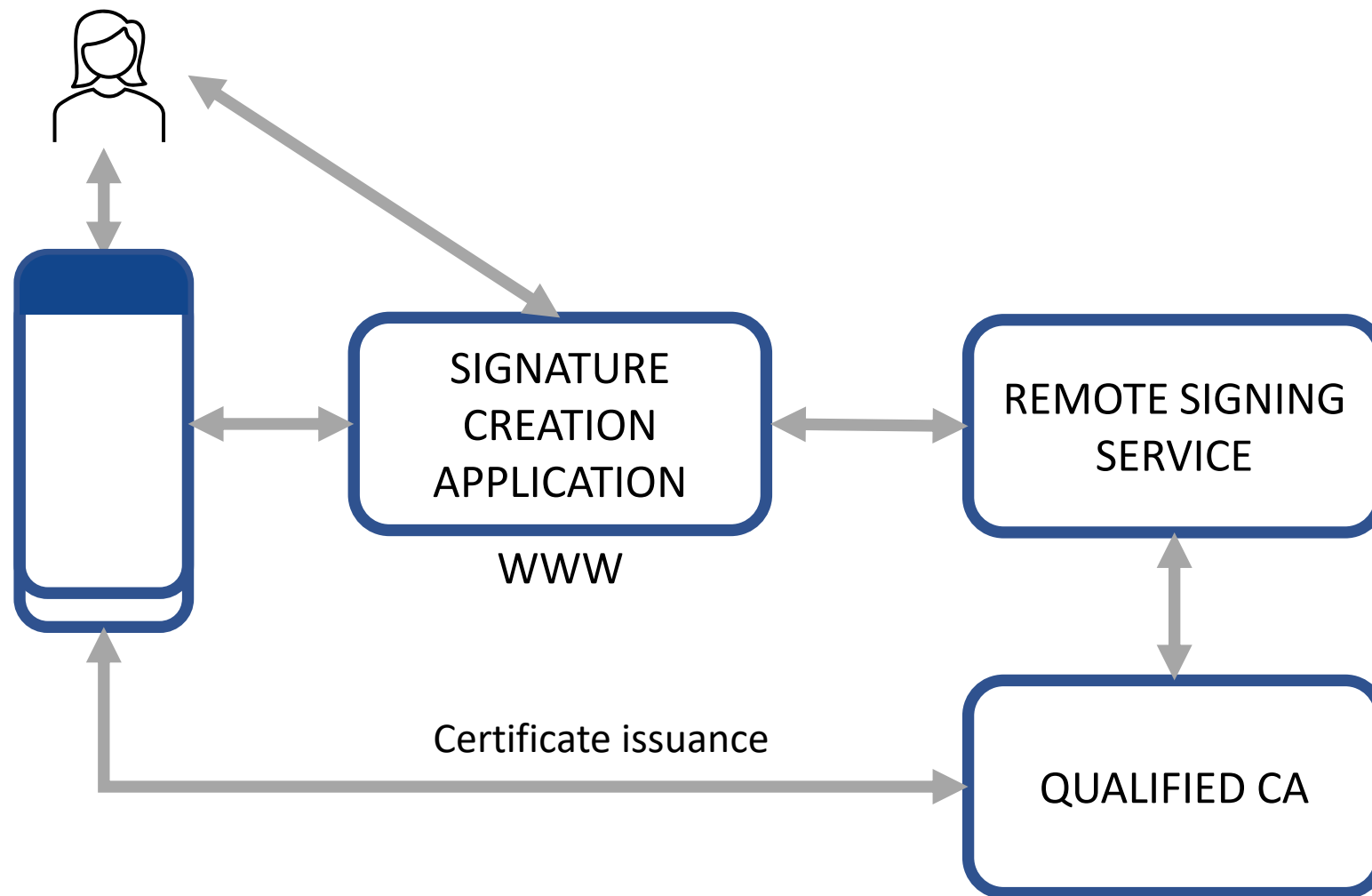


SCA as software included or
connected to the wallet
solution directly

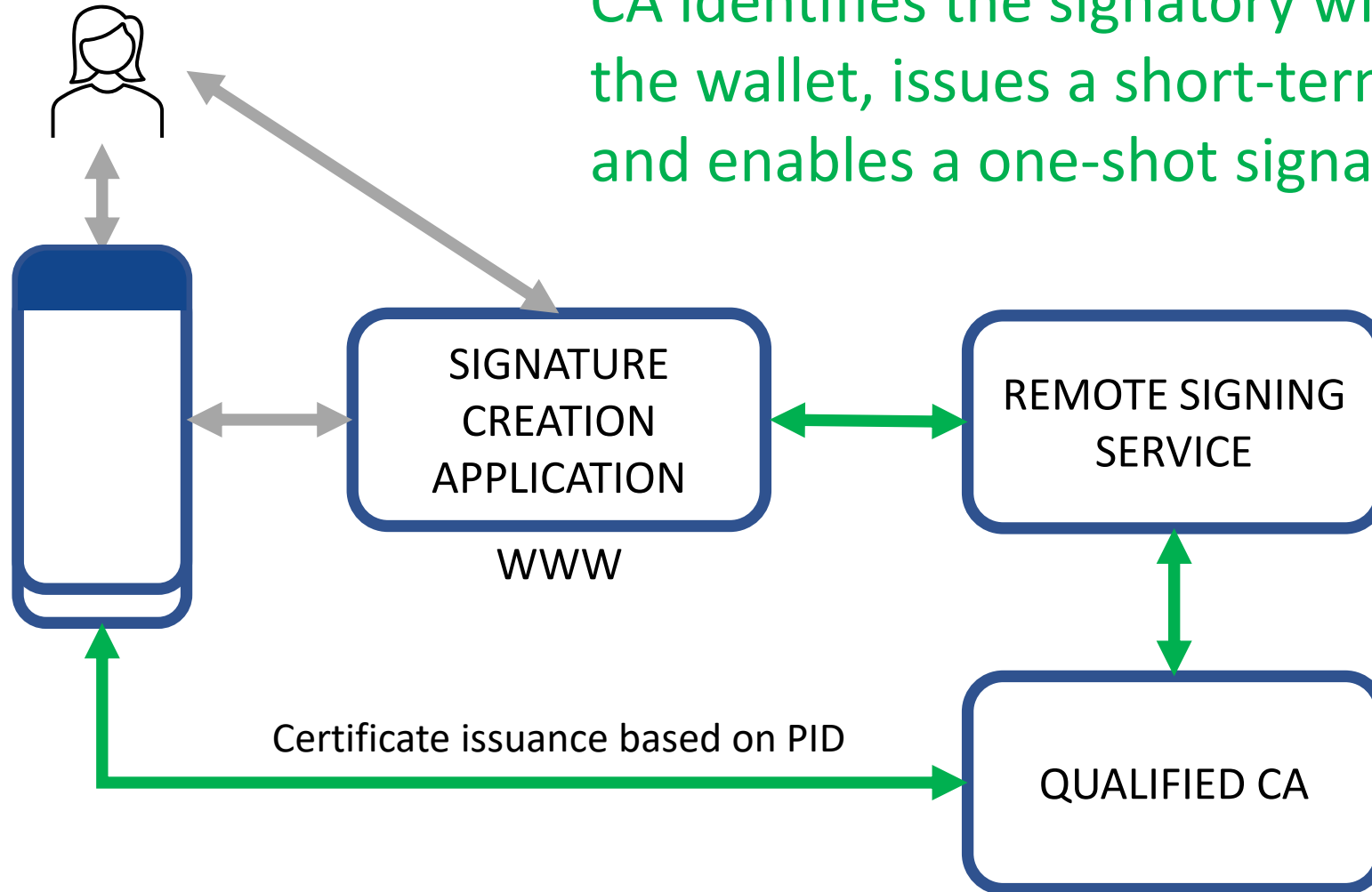
Independent SCA



Remote QES with the wallet

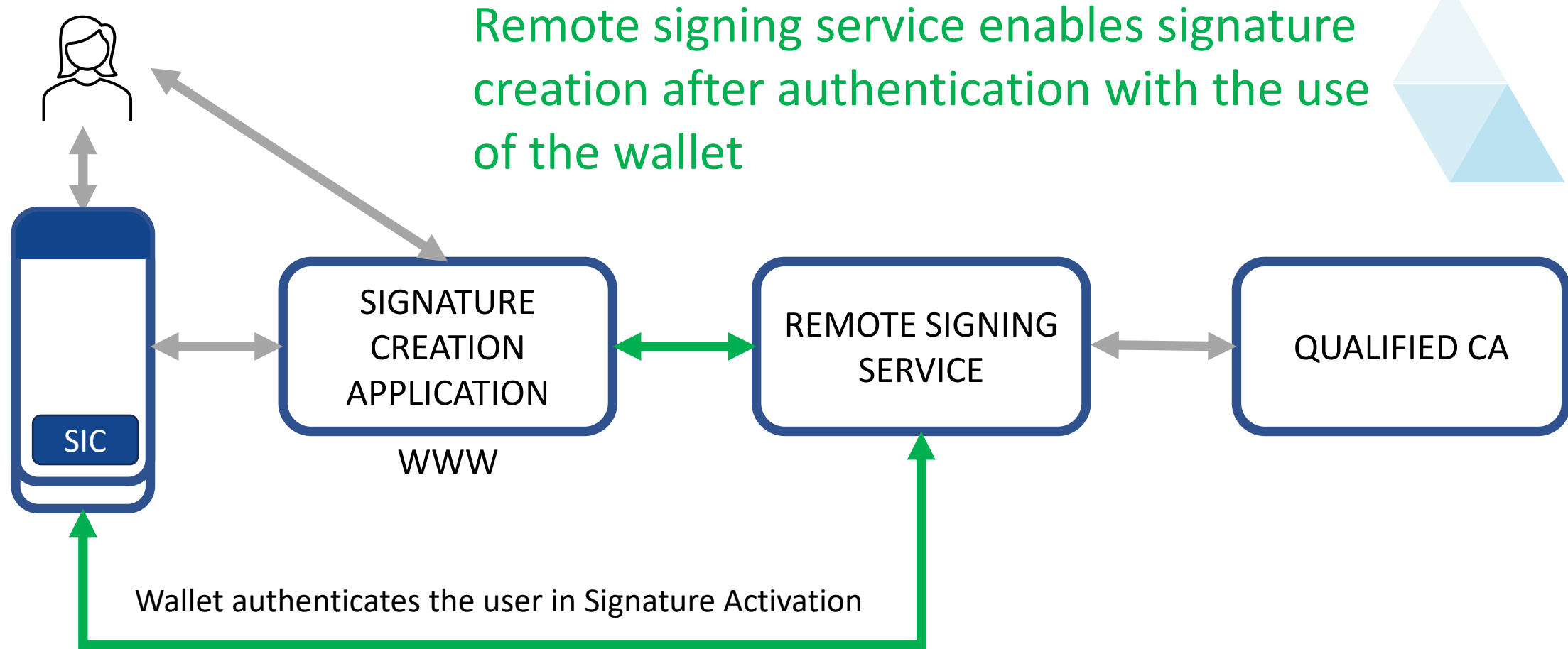


Remote QES on the fly

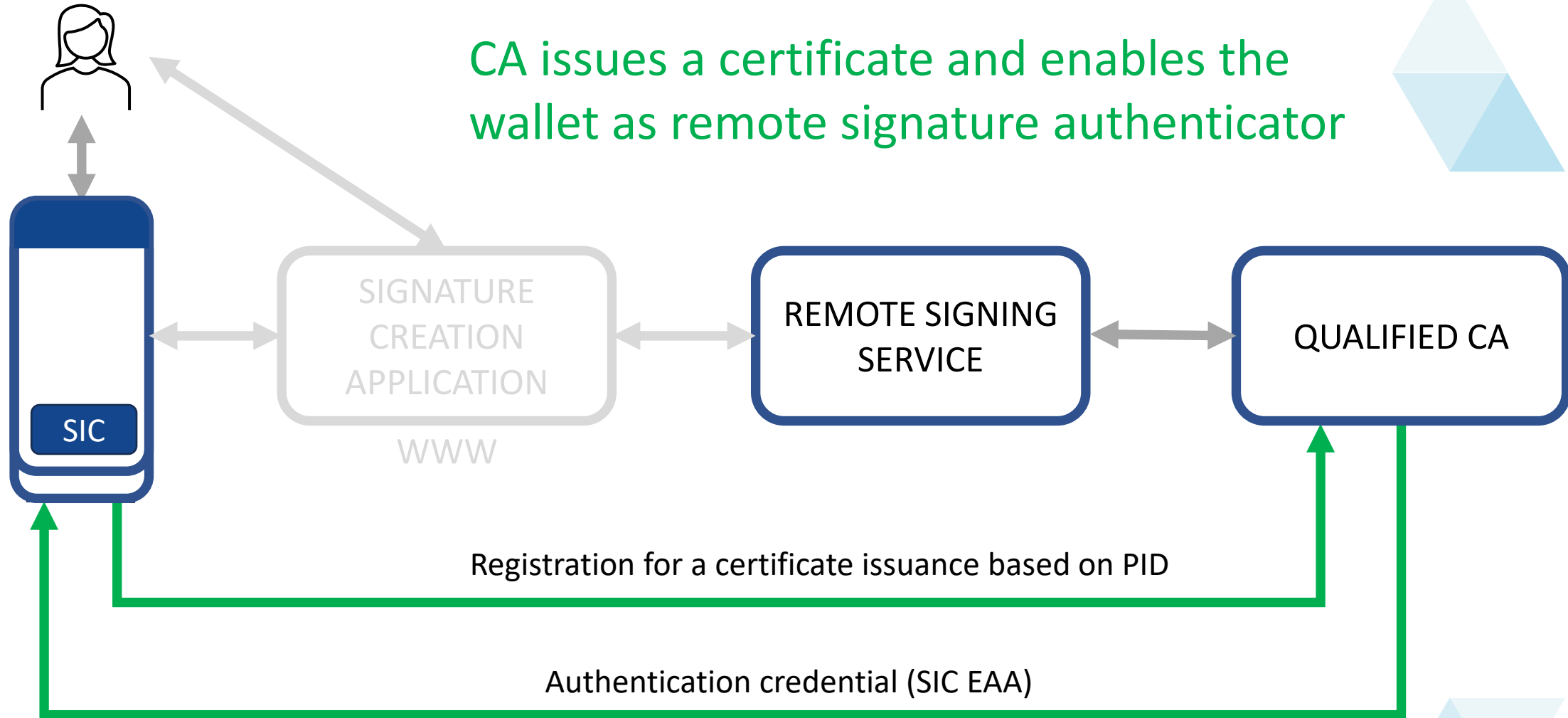


CA identifies the signatory with PID on the wallet, issues a short-term certificate, and enables a one-shot signature

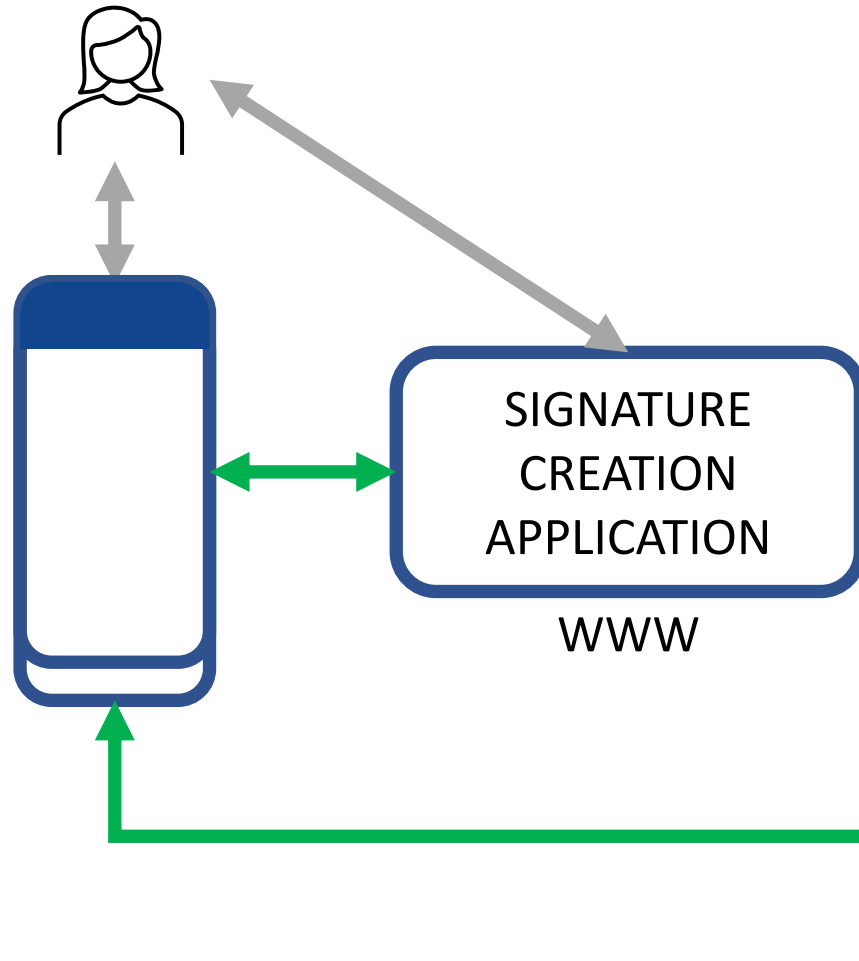
Remote QES with long term certificate



Long term Remote QES certificate issuance



Local (and remote) signature

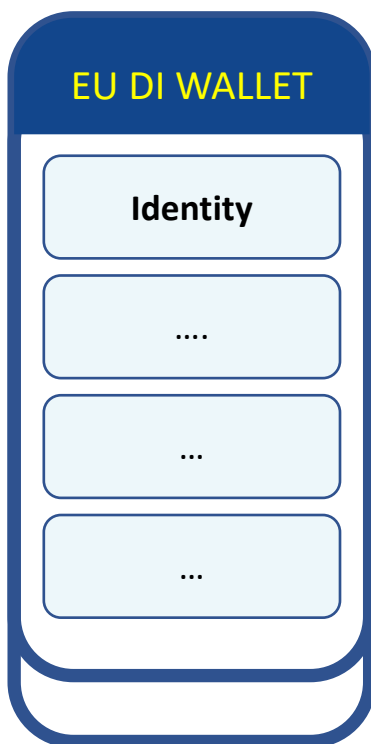


Local QSCD included or connected to the wallet directly.
Wallet acts as a proxy for QSCD
Remote QSCD may use the same model if directly linked to wallet



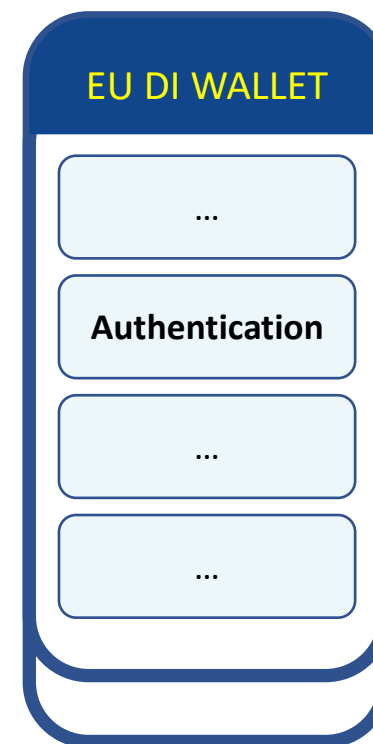
Creation of Qualified Electronic Signature

One time



- Short term certificate
- One time signature
- Wallet provides identification

Multi use



- Long term certificate
- Signature Activation for Remote QSCD
- Wallet provides authentication

Remote signature standards



Architectures and
protocols for remote
signature applications

ETSI TS 119 431-1 V1.2.3



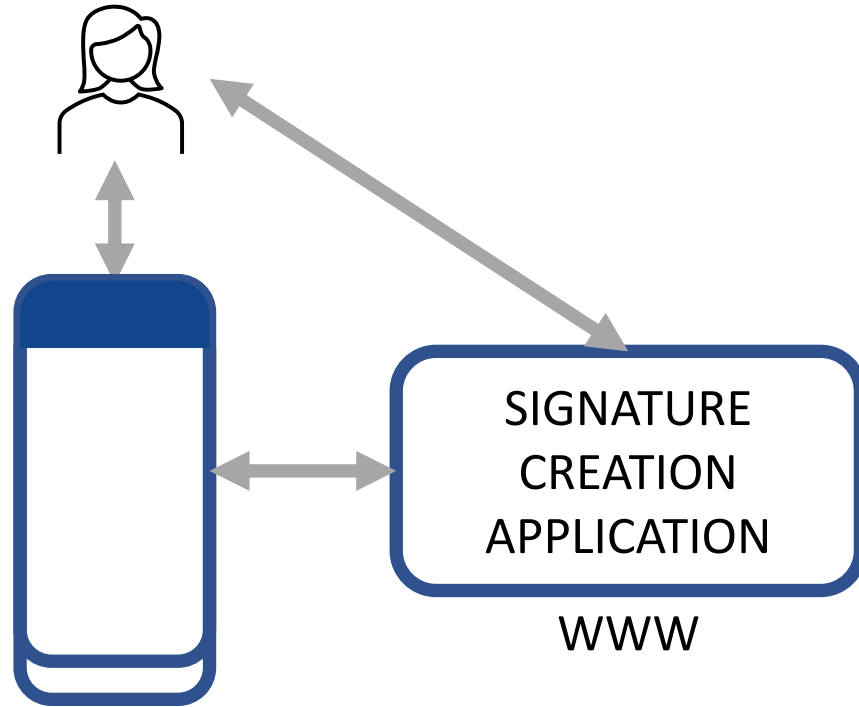
Electronic Signatures and Infrastructures (ESI);
Policy and security requirements for trust service providers;
Part 1: TSP services operating a remote QSCD / SCDev

Draft ETSI TS 119 462 0.0.4e (2024-07)

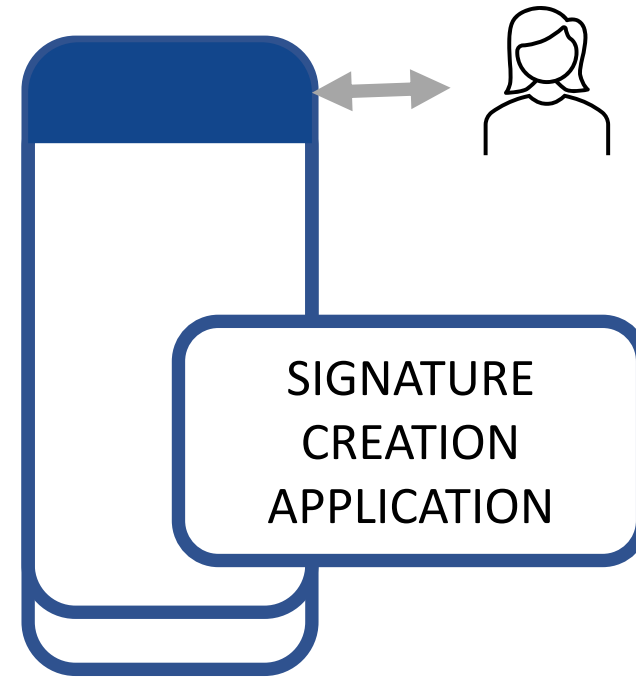


Electronic Signatures and Infrastructures (ESI);
Wallet interfaces for trust services and signing

Signature Creation Application models

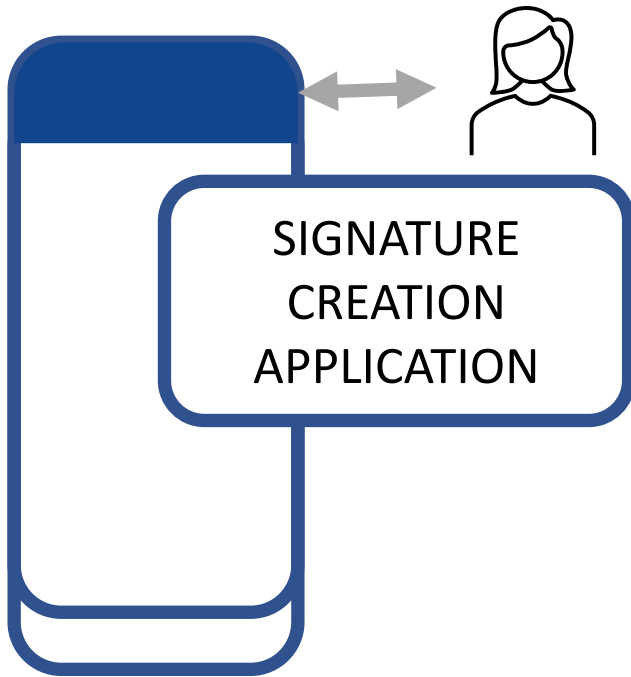


SCA as a service
independent from the wallet
solution



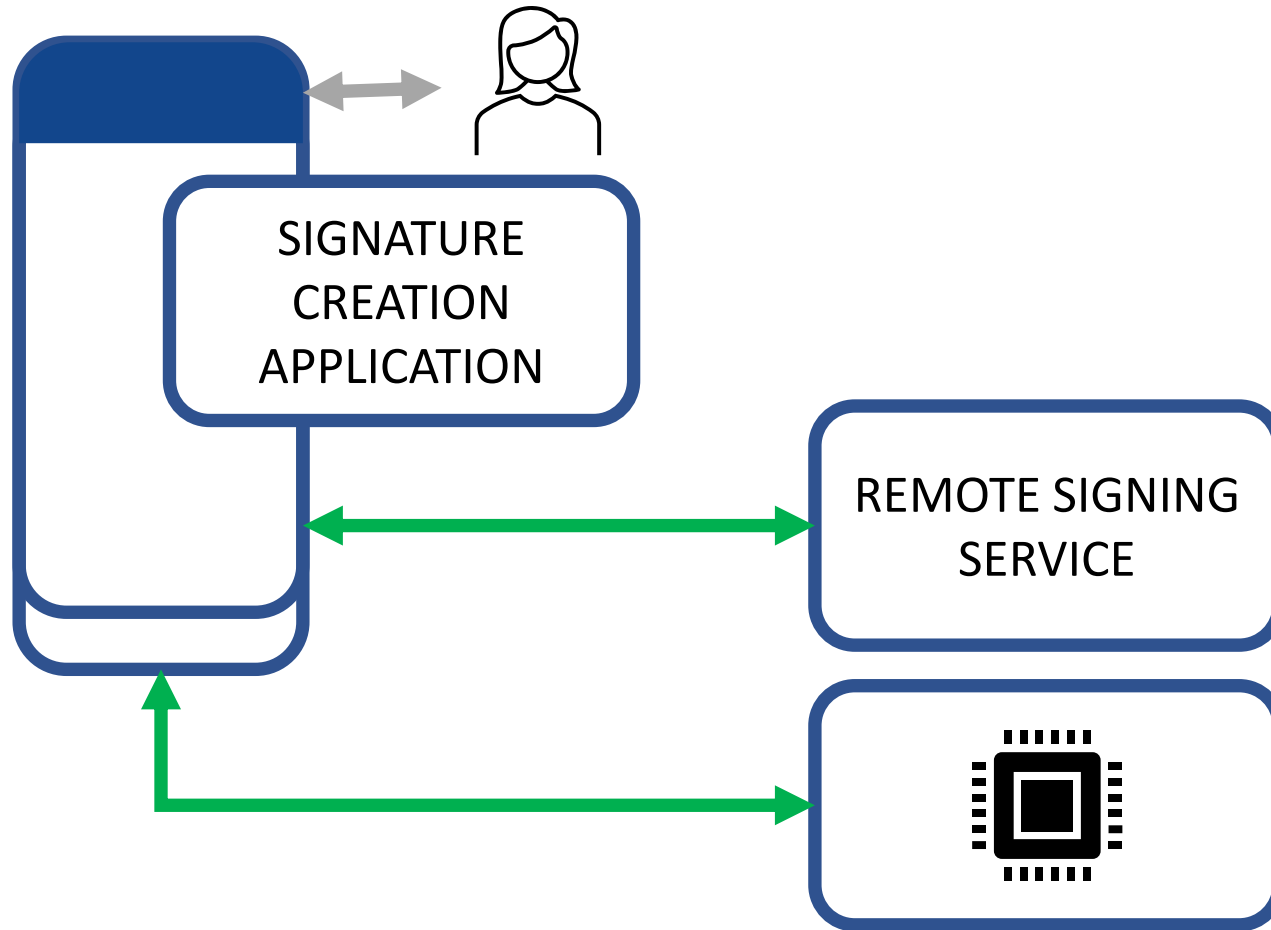
SCA as software included or
connected to the wallet
solution directly

Signature Creation Application models



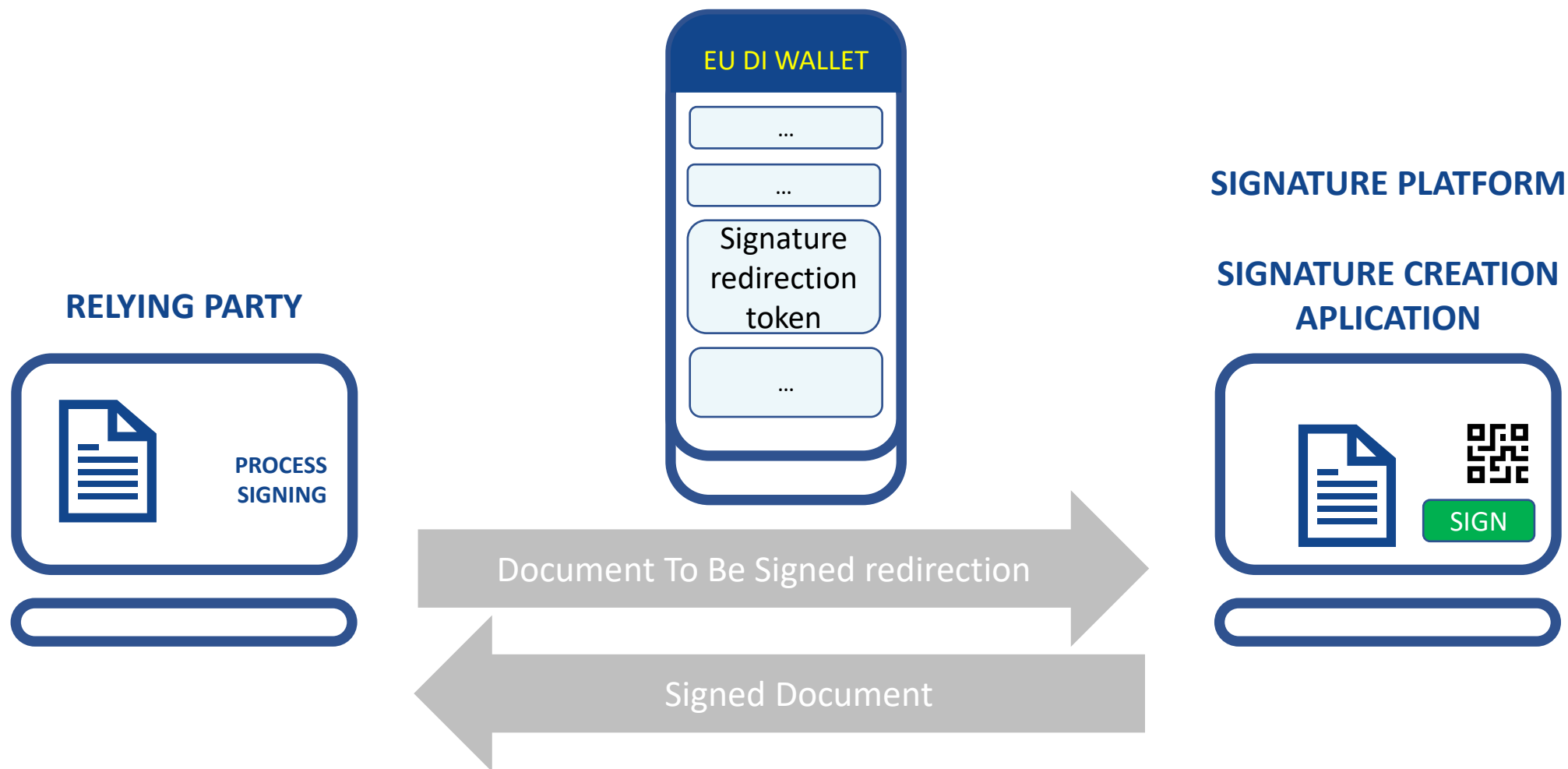
SCA as software included or
connected to the wallet
solution directly

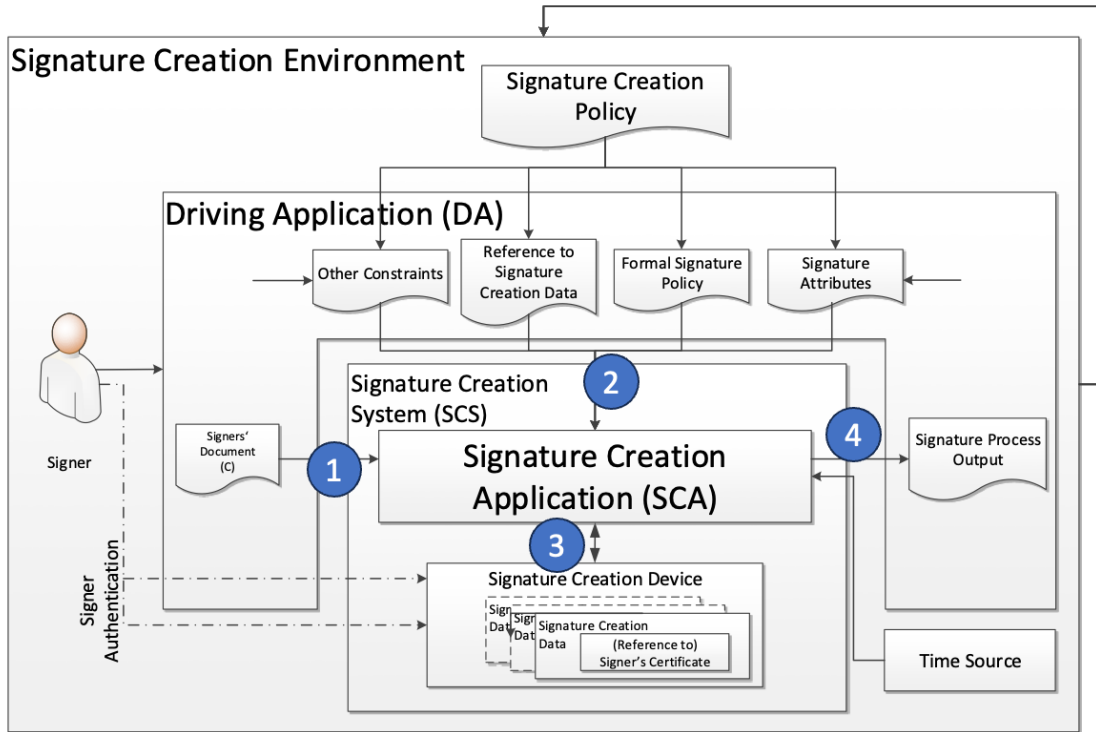
Local and remote signature



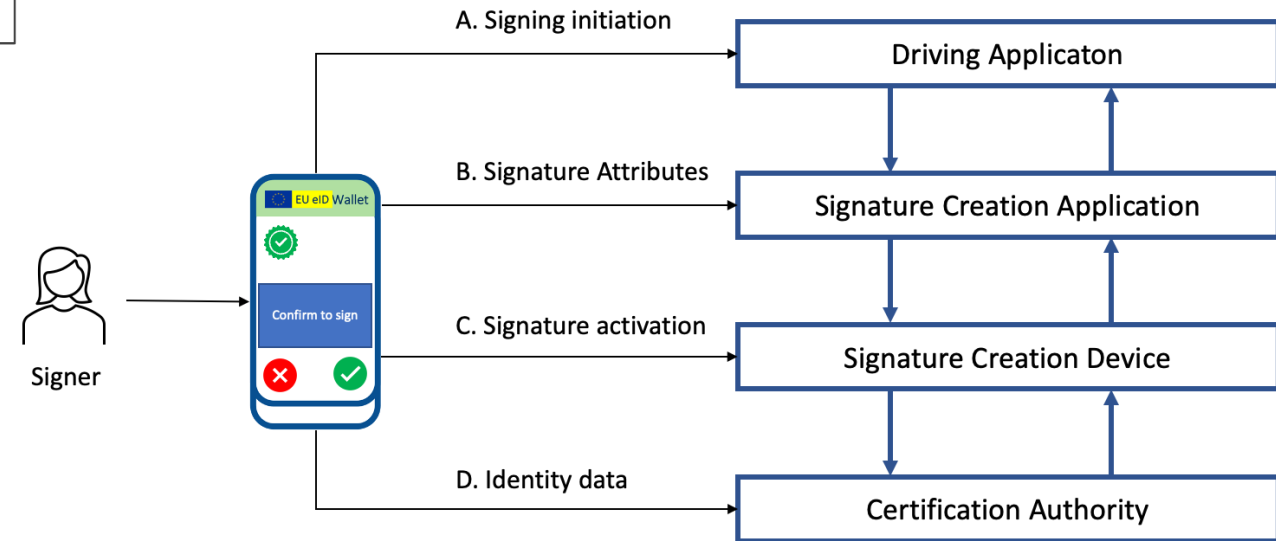
SCA on the wallet
uses wallet to
interact with QSCD

Document to be signed redirection to SCA

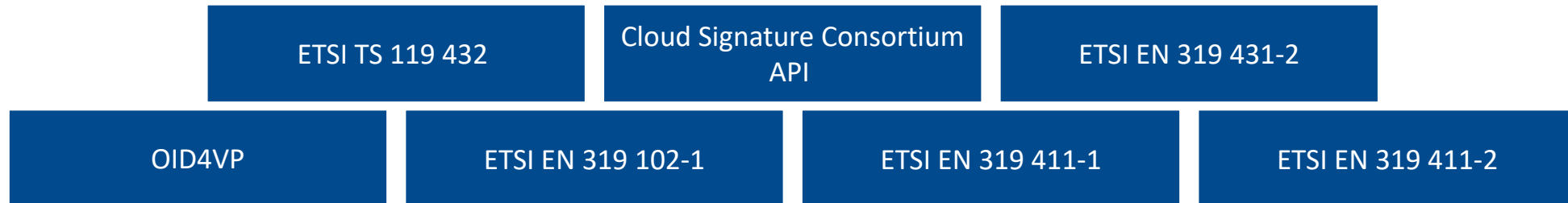




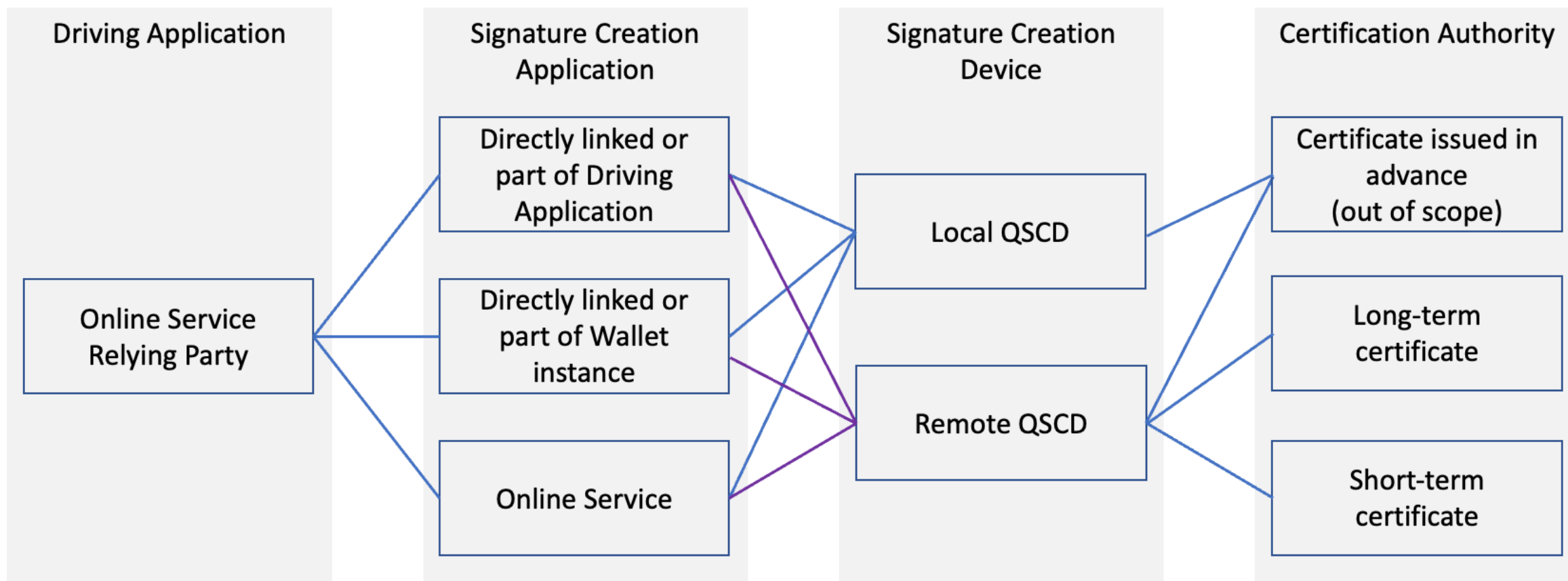
Signature creation data data



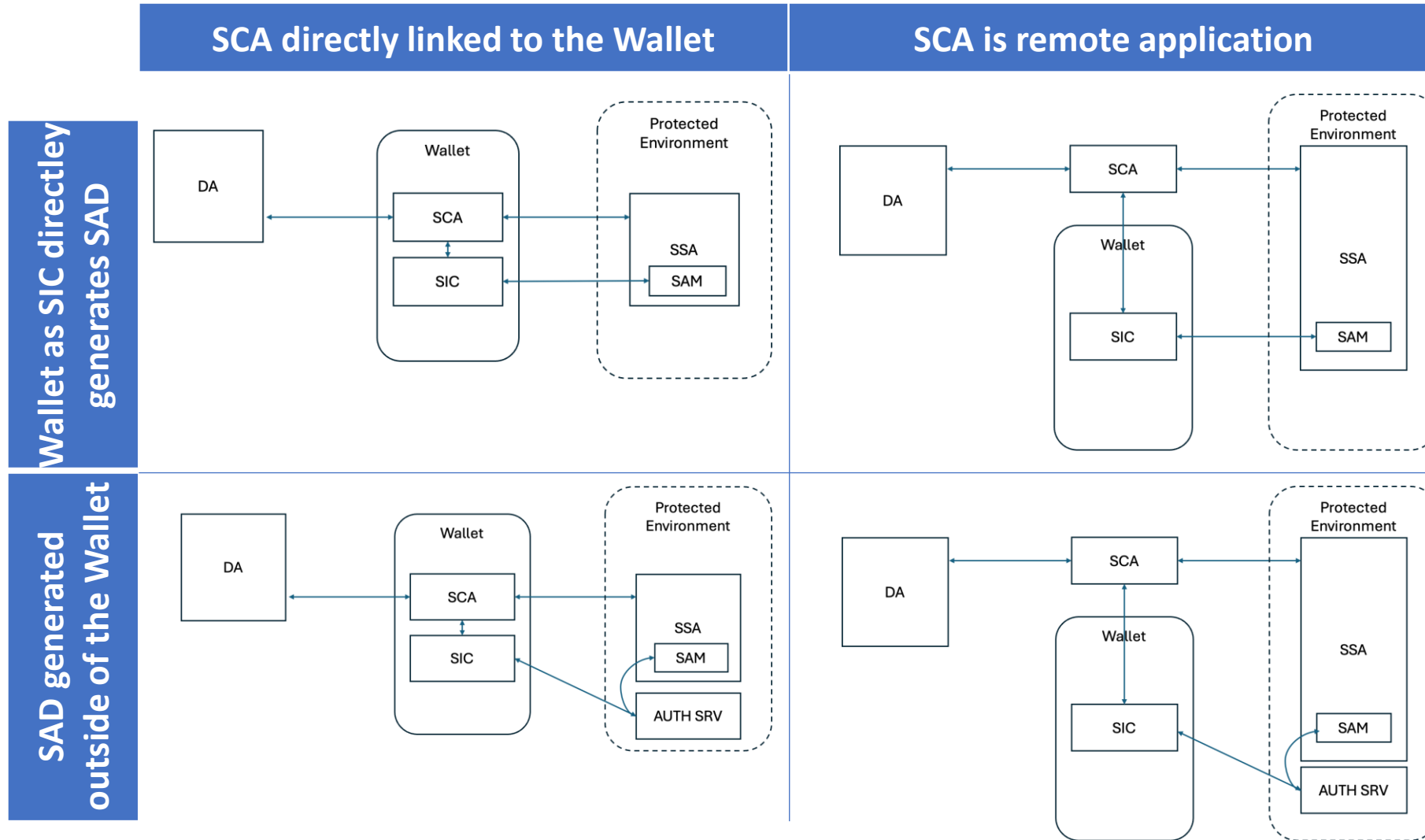
Functional Model of Signature Creation
(Source: ETSI EN 319 102-1)



Signature creation scenarios



Remote signature creation models



Thank you!



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