



The Standards People



# Audit Requirements for TSPs Operating a Remote QSCD / SCD

Presented by: **Franck Leroy**

For: **ETSI Security Week:  
Remote Signature Creation Services**

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## TS 119 431-1

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Policy and security requirements for trust service providers; TSP service components operating a remote QSCD / SCDev

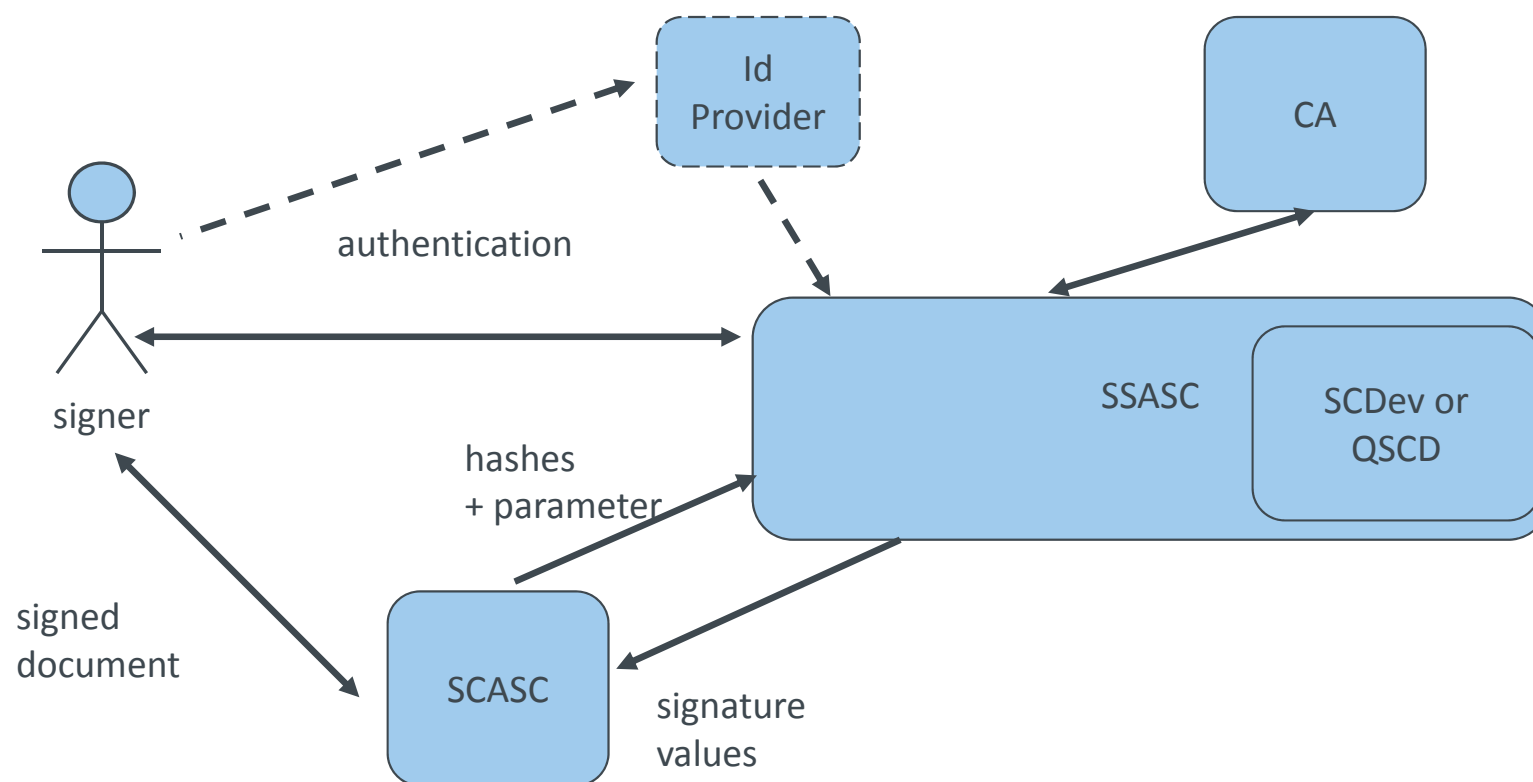
- ✔ Based on ETSI EN 319 401 (General Policy Requirements for Trust Service Providers)
- ✔ References to some requirements of ETSI EN 319 411-1 (Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements )
- ✔ References to many requirements of CEN EN 419 241-1 (Trustworthy Systems Supporting Server Signing Part 1: General System Security Requirements )

## Server signing application service component (SSASC)

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- ✓ In combination with a signature creation device (SCDev)
- ✓ Specifics requirements for uses of an qualified signature creation device (QSCD)
- ✓ Creates/manages signing keys
- ✓ Binds authentication means and certificates to the signing keys.
- ✓ Authenticates remote signers
- ✓ Creates the digital signature (i.e. PKCS#1)

## Architecture (example)



## Different trust service policies

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### Policies defined in the document

- ✓ A Lightweight SSASC Policy (LSCP) offering a quality of service less onerous than the normalized one
- ✓ A Normalized SSASC Policy (NSCP) which meets general recognized best practice for TSPs operating a remote QSCD / SCDev
- ✓ An EU Qualified SSASC Policy (EUQSCP) which offers the same quality as that offered by the NSCP but with specific requirements related to the European eIDAS Regulation

## Relations with CEN EN 419 241 series

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- ✓ Lightweight Policy is related to Sole Control Level 1 of CEN 419 241 part 1
- ✓ Normalized Policy is related to Sole Control Level 2 of CEN 419 241 part 1
- ✓ EU Qualified Policy requires QSCD
  - ✓ could be met by using CEN 419 241 part 2

## eIDAS Challenges

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- ✓ Not a standalone policy
- ✓ It's an additional component to an existing TSP
- ✓ The TSP is not mandatory the CA
- ✓ But strong relation with the CA is needed
  
- ✓ The main challenge is to ensure that the remote signer is the same person that the one that has been enrolled by the CA