Dedicated Security Components (DSC)



Introducing The DSC PP iTC

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Shawn Geddis

Chair, DSC iTC geddis@apple.com



Shawn Pinet

Deputy Chair, DSC iTC shawn.pinet@gemalto.com

How the iTC came to be

- 2014 CCRA updated to cPP and EAL2
- 2015 ICCC Windsor: HSM TC + NIAP Mobile
- 2016 CCUF Reading: ESR Drafted
- 2017 CCUF Amsterdam: Survey of PPs, Use Cases, Vendor Diagrams, Services, Assets, Threats Defined
- 2017/2018 Version 1?

DSC iTC

Community Working Together — 77



Schemes

- DE Germany
- · IN India
- · JP Japan
- NL Netherlands
- SE Sweden
- UK United Kingdom
- US United States

Vendors

- Phones
- Tablets
- Wearables
- Smart Cards
- Semiconductors
- HSMs

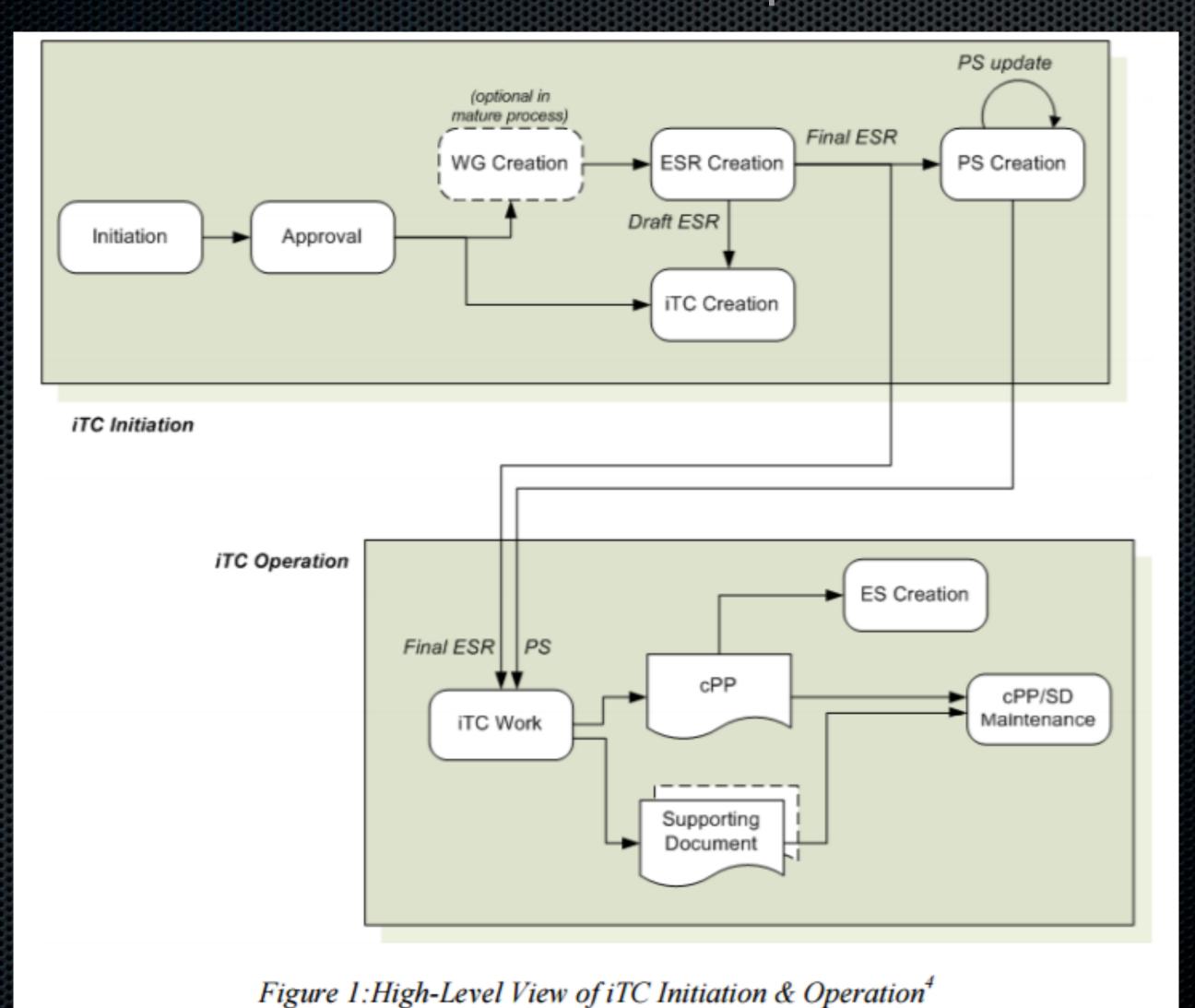
Schemes — 7 (25 people)

Labs — 12 (19 people)

Vendors — 12 (19 people)

SMEs — 14 people

Where are we in the process?

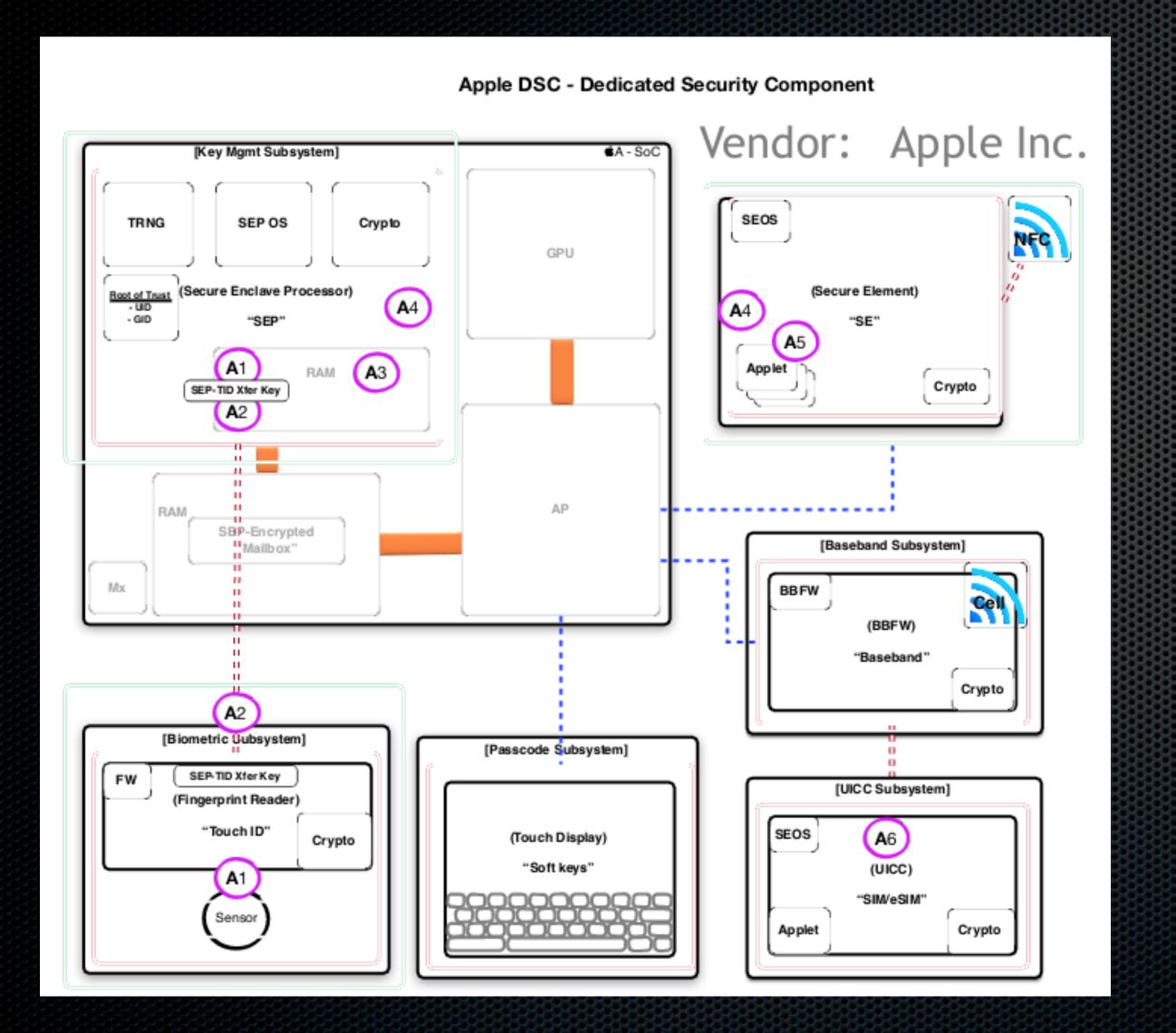


What are the use cases?

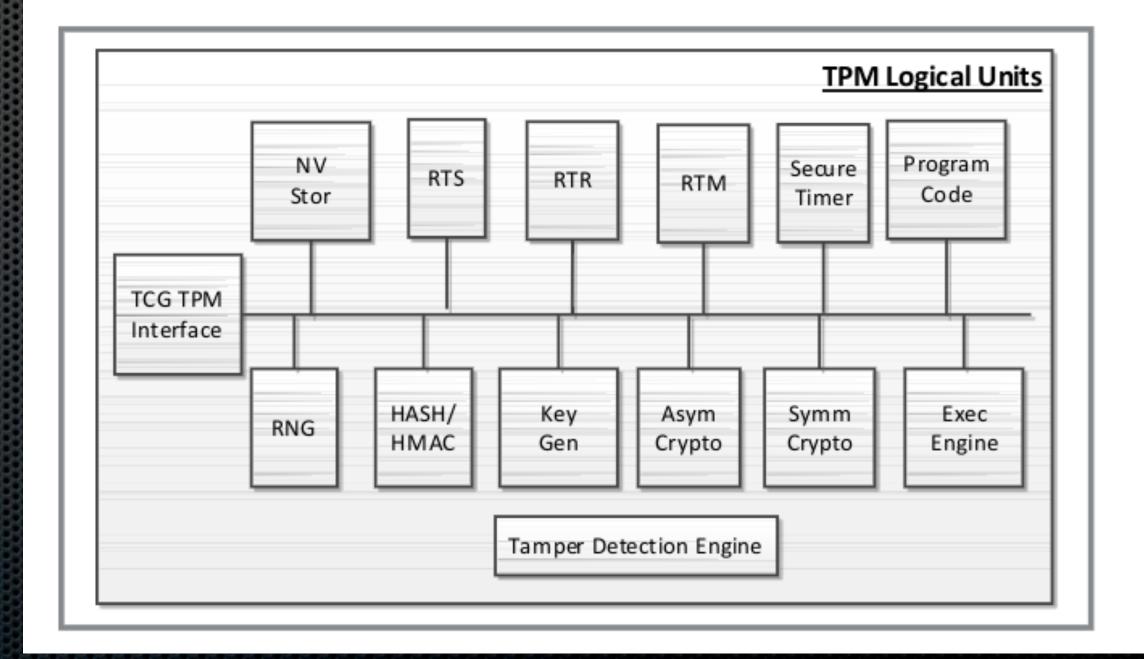
- User Managed Credentials (Passwords)
- Mutually Managed Credentials (P2P identities)
- Enterprise Managed Credentials (Device Authentication, High-value data)
- Multi-Party Credentials (Payments, Digital Signature)

Credentials are the ultimate security data elements to be protected. Threats and objectives will map back to the use cases

Vendor Reference Diagrams



Vendor: Intel

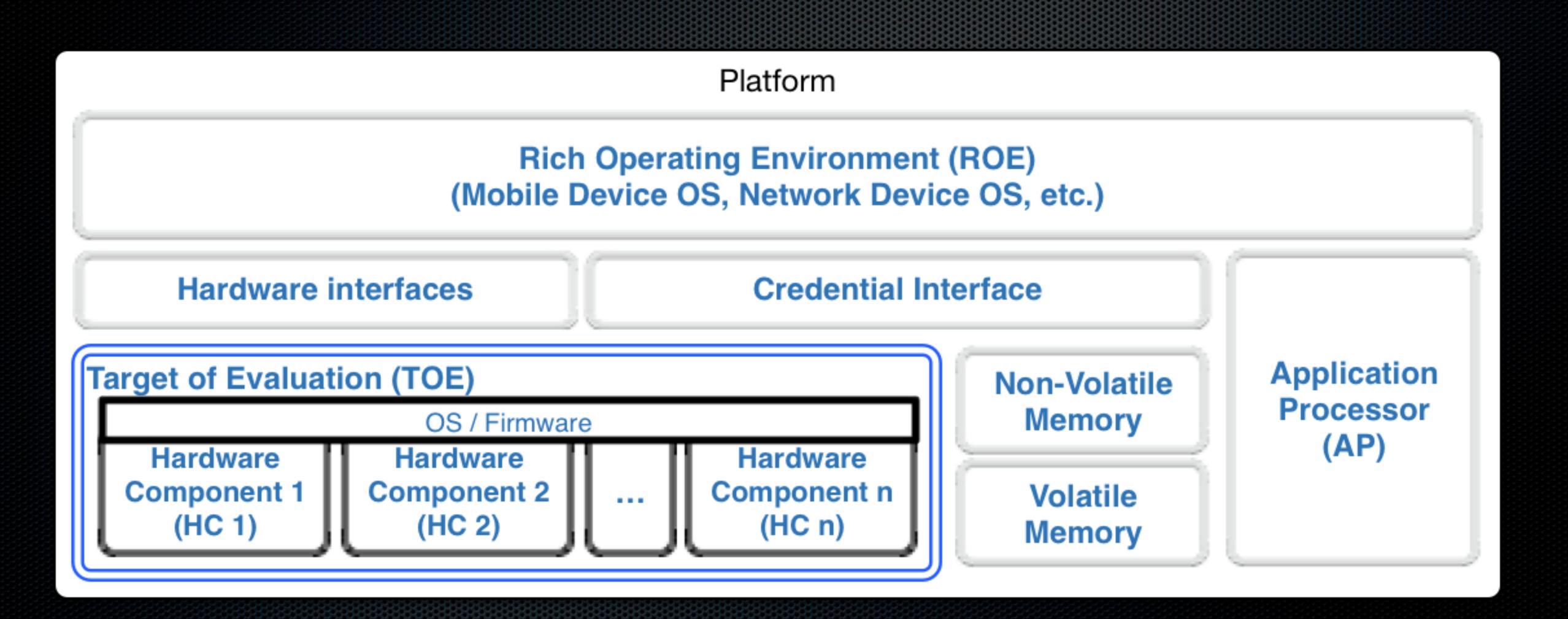


DSC defined

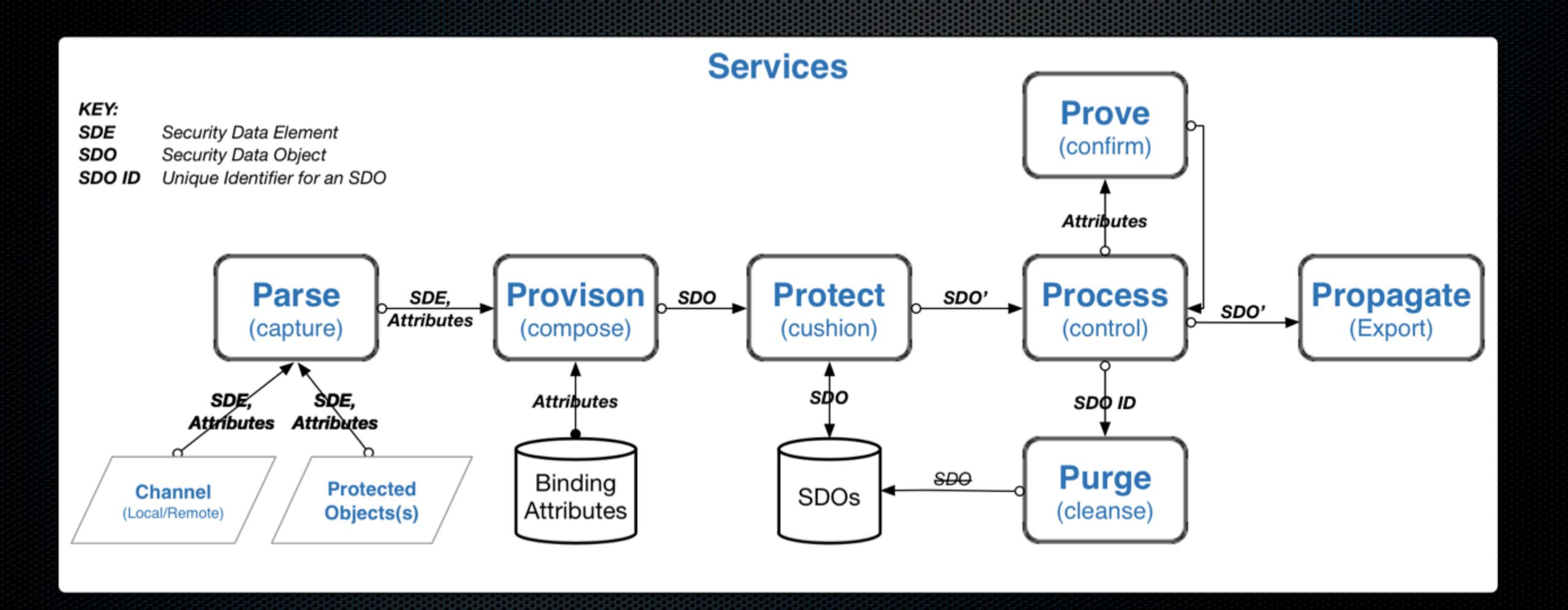
"A composition of one or more discrete hardware components dedicated to managing the protection and use of credentials."

Credentials are the ultimate security data elements to be protected.

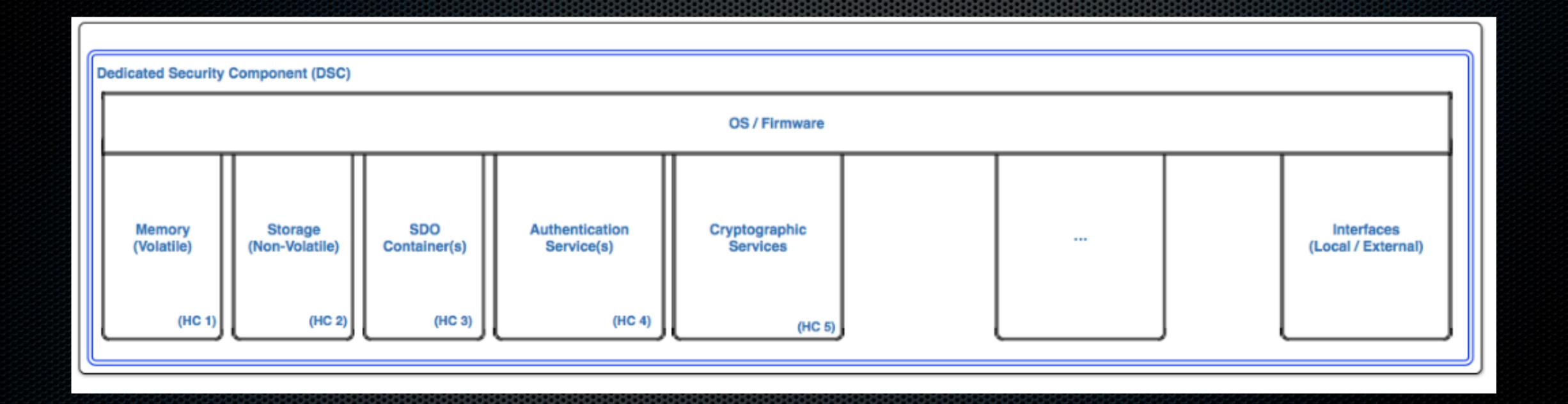
The TOE – a collection of one or more hardware components



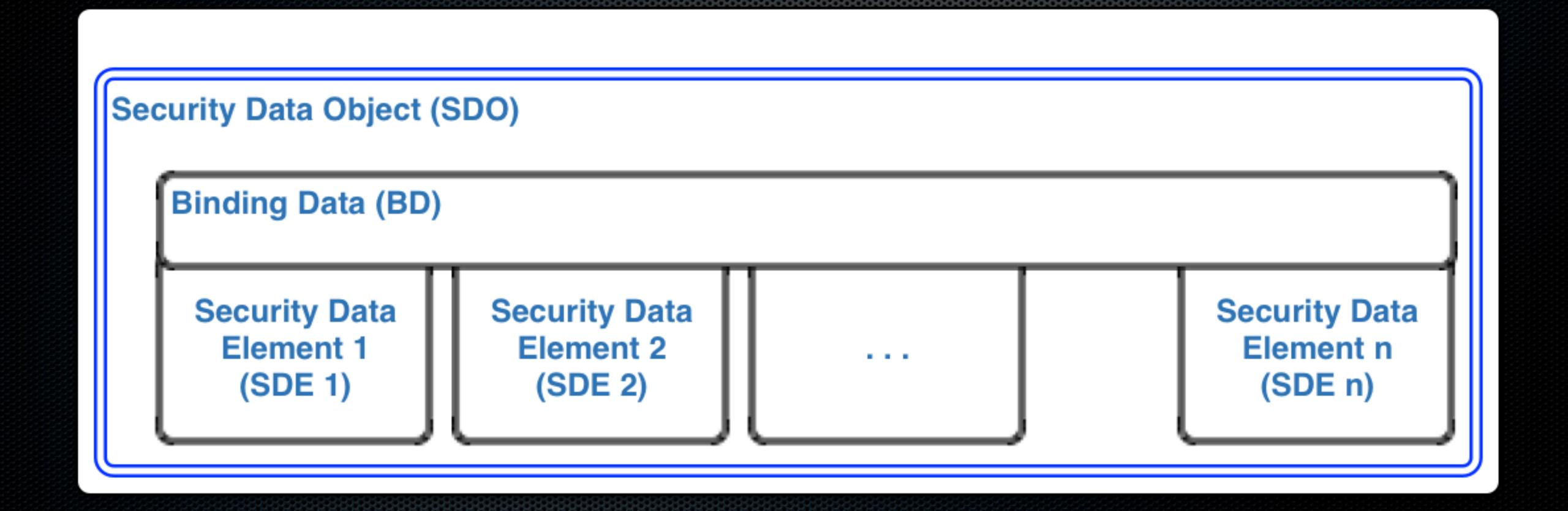
The 7 Common Services



Dedicated Security Components — DSC TOE – Components and functionality



Binding data objects



DSC cPP

Driving global requirements

Bridging (some of the) IT Security Certification chasm

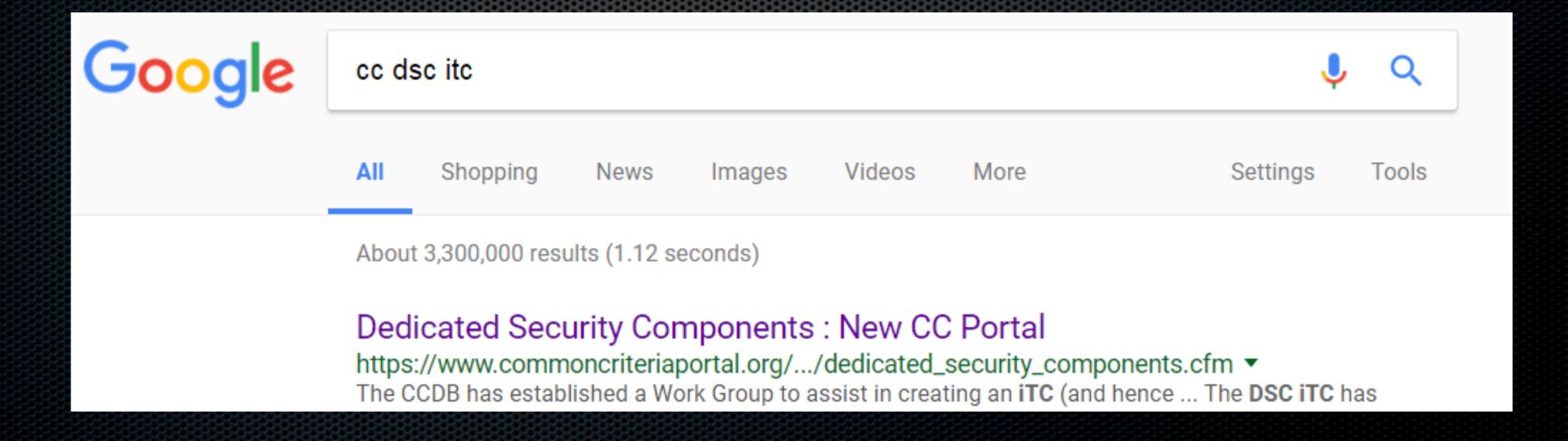
- Not a replacement, but rather additive to existing PPs
 - DSC PP will be a modular approach with other PPs
- Speed of Certification
 - Goal is to complete in ~90 days leveraging automation
 - Maximum re-use of pre-existing tests
- DSC PP will be a modular approach with other PPs Aligning with existing PPs (i.e., MD PP, FDE, ND PP, ...)
- Already certified components leverage existing certifications activities where possible to reduce the time to completion to 90d
- Mutual Recognition (cPP) FIPS is not mutually recognized

DSC cPP How do I join?

iTC-DSC@niap-ccevs.org.

https://ccusersforum.onlyoffice.com "Dedicated Security Components iTC"

https://www.commoncriteriaportal.org/communities/dedicated security components.cfm





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