
**83rd IETF
Paris, France, March 25-30, 2012**

“EAP support in smartcards”

draft-urien-eap-smartcard-22.txt

Pascal.Urien@Telecom-ParisTech.fr

- **EAP Methods for Secure Elements**

- Client and Server

- **What are Secure Elements**

- Tamper resistant microcontrollers.
 - Small computing resources (typically RAM 10KB, E²PROM 72KB).
 - Most of them run a Java Virtual Machine, .NET is also supported.
 - SIM/USIM, Smart card, Secure Controller, NFC Controller.

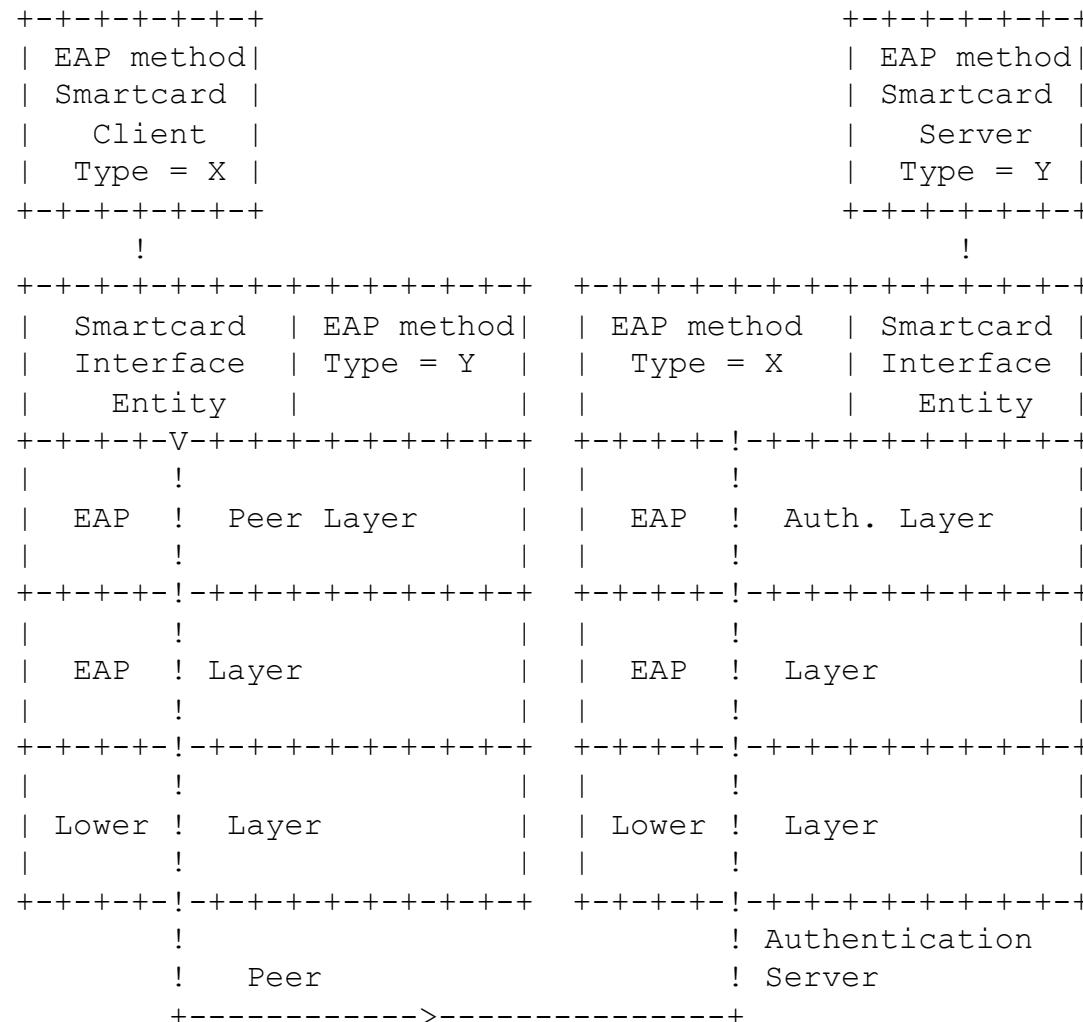
- **Resource constraints**

- Small memory footprint (typically < 32KB).

- **ISO7816 interface**

- Generic EAP Method interface
 - Three use cases, with detailed test vectors.
 - EAP-SIM, EAP-AKA, EAP-TLS

General Architecture



Conclusion

- Open Implementation
- Tested with multiple Secure Elements.
- Proposed as experimental RFC