DTLS and OSCOAP

Transport layer security and Application layer security

Current state of the draft

- Transport layer security
 - Based on DTLS
- Application layer security
 - Based on OSCOAP and COSE

 Connection to OSCOAP has been loosened slightly saying ObjectSecurity

How to use PoP token key in DTLS

- Use the symmetric PoP key as DTLS PSK
- Use the asymmetric PoP key as RPK for authentication of the client and "client information" RPK attribute for authentication of the RS.
- How to use a client certificates is not defined yet?
- One to one mapping do not mix usage of symmetric and asymmetric keys to keep it simple.

How to use PoP token key in OSCOAP

OSCOAP is object security for CoAP
 Builds on COSE. Works with symmetric keys
 and uses a handshake to establish
 symmetric session keys

- Symmetric PoP keys could be used directly or to establish session keys.
- Asymmetric PoP keys should be used to establish symmetric session key.

Alternatives

- Alternative 1
 Define extension points and specify details for DTLS and OSCOAP in other documents.
- Alternative 2
 Define extension points and specify exact usage for DTLS and specify details OSCOAP in other documents.
- Alternative 3
 Define extension points and specify exact usage for DTLS and OSCOAP in this document.

Questions for the WG

- Which alternative should we proceed with?
 - 1, 2, 3 or Other

- In what WG should object security be in?
 - ACE, CORE or Other

Should we define how to use client certificates?