EST over coaps

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IETF 104 - ACE Working Group
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Enrollment over Secure Transport (EST) [RFC7030] uses HTTP and TLS

This draft proposes CoAP and DTLS to support constrained devices

Application areas:
• Secure bootstrapping devices
• Distribution of identity (certificates)
WGLC updates

Many thanks to Jim, Esko, Klaus, and Carsten

1. Discovery and content-format negotiations clarified and corrected
2. Added application/pkix-cert Content-Format TBD287
3. Removed text that duplicates or contradicts RFC7252
4. Examples updated:
   • Accept options added, nits removed, inaccuracies fixed
5. Merged DTLS sections
6. In general: cleaned up text and removed inaccuracies
The addition of application/pkix-cert necessitates negotiation of PKCS#7 or application/pkix-cert.

Currently impossible for serverkeygen function that returns content-format 62 that includes two content formats

An additional path “/skc” has been generated such that:
/skg returns application/pkcs7 and application/pkcs8
/skc returns application/pkix-cert and application/pkcs8
Continuation

Authors think they are done
All WGLC comments have been handled.

application/pkix, TBD287, still needs to be registered
REMINDER
Application areas

pledge → Join proxy → CA

BRSKI also for 6tisch
Pledge and EST server exchange Certificates and Vouchers

BRSKI [anima]: Bootstrapping Remote Secure Key Infrastructures

Authenticated/authorized endpoint cert enrollment (and optionally key provisioning) through a CA or Registration Authority.