

draft-friel-acme-integrations

ACME BRSKI integration

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Summary

- EST (which BRSKI leverages) defines the protocol that clients use to enrol with an EST Registration Authority (RA) using PKCS#10 / PKCS#7 payloads
- EST does not define the mechanism that the RA uses to talk to the CA
- ACME “describes a protocol that a CA and an applicant can use to automate the process of ... certificate issuance.”
- draft-friel-acme-integrations describes how an EST RA can leverage ACME to integrate with a CA for automated certificate issuance
 - No changes required to existing ACME, EST or BRSKI drafts (probably)

draft-friel-acme-integrations Use Cases

- ACME issuance of sub-domain certificates
- Multiple client / device certificate integrations
 1. EST
 - RFC 7030 - Enrollment over Secure Transport
 2. **BRSKI**
 - **draft-ietf-anima-bootstrapping-keyinfra - Bootstrapping Remote Key Infrastructures**
 3. TEAP
 - RFC 7170 - Tunnel Extensible Authentication Protocol
 4. TEAP-BRSKI
 - draft-lear-eap-teap-brski - Bootstrapping Key Infrastructure over EAP

Related Drafts

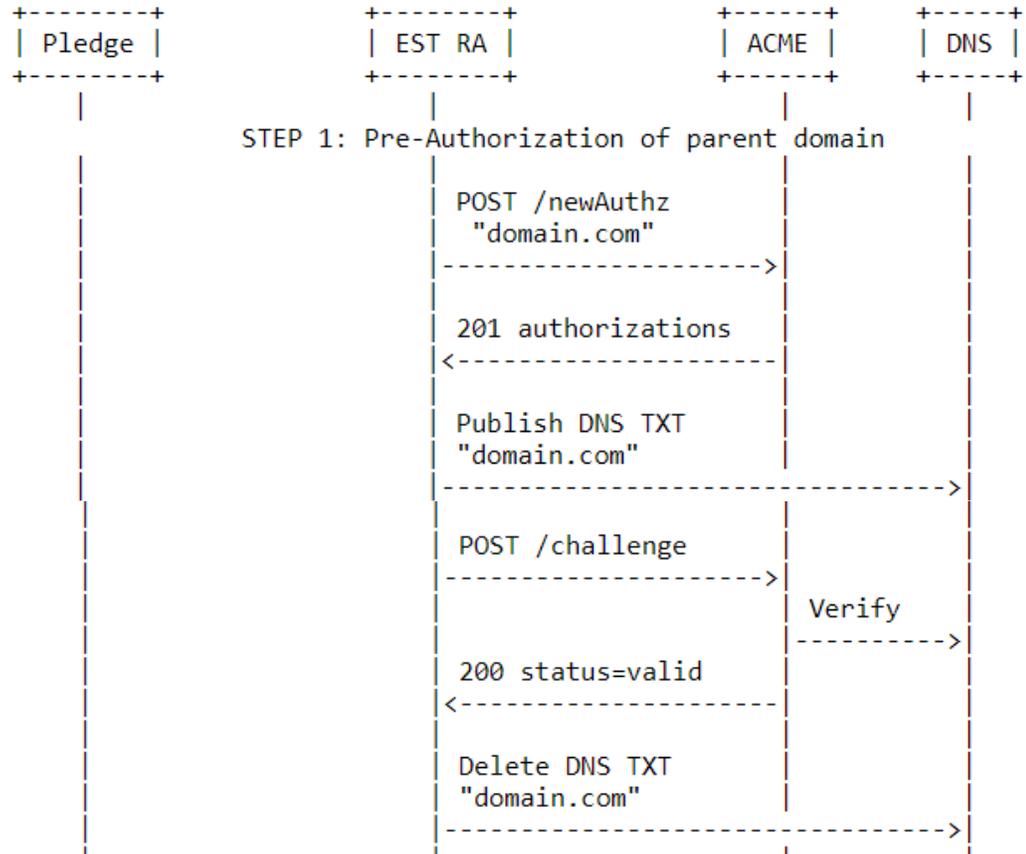
- draft-yusef-acme-3rd-party-device-attestation
- draft-moriarty-acme-client

- Preliminary discussions about alignment have taken place
- Side meeting scheduled
 - Coller meeting room
 - 9am Wednesday morning

BRSKI -> ACME

1 of 4

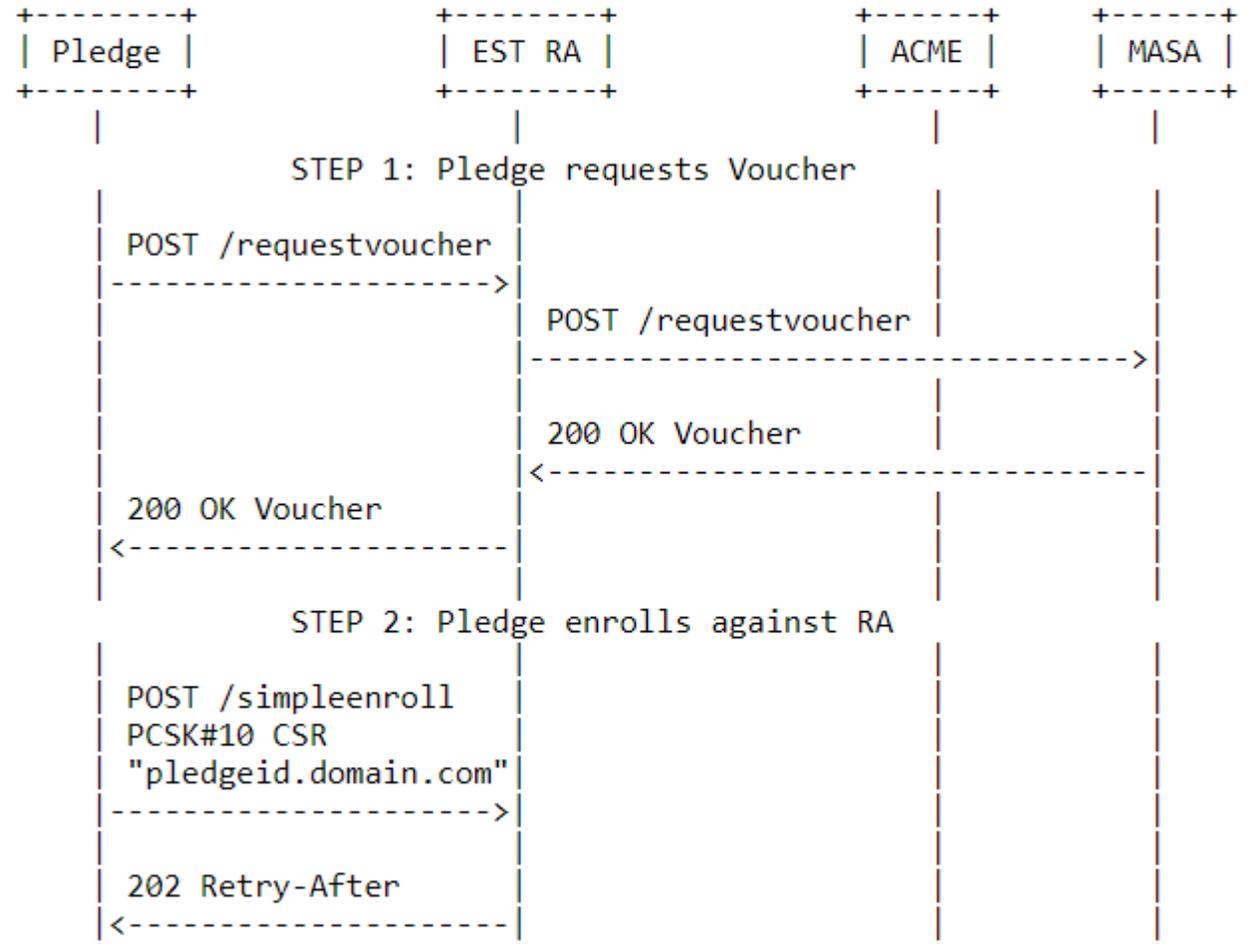
- ACME domain authorization



BRSKI -> ACME

2 of 4

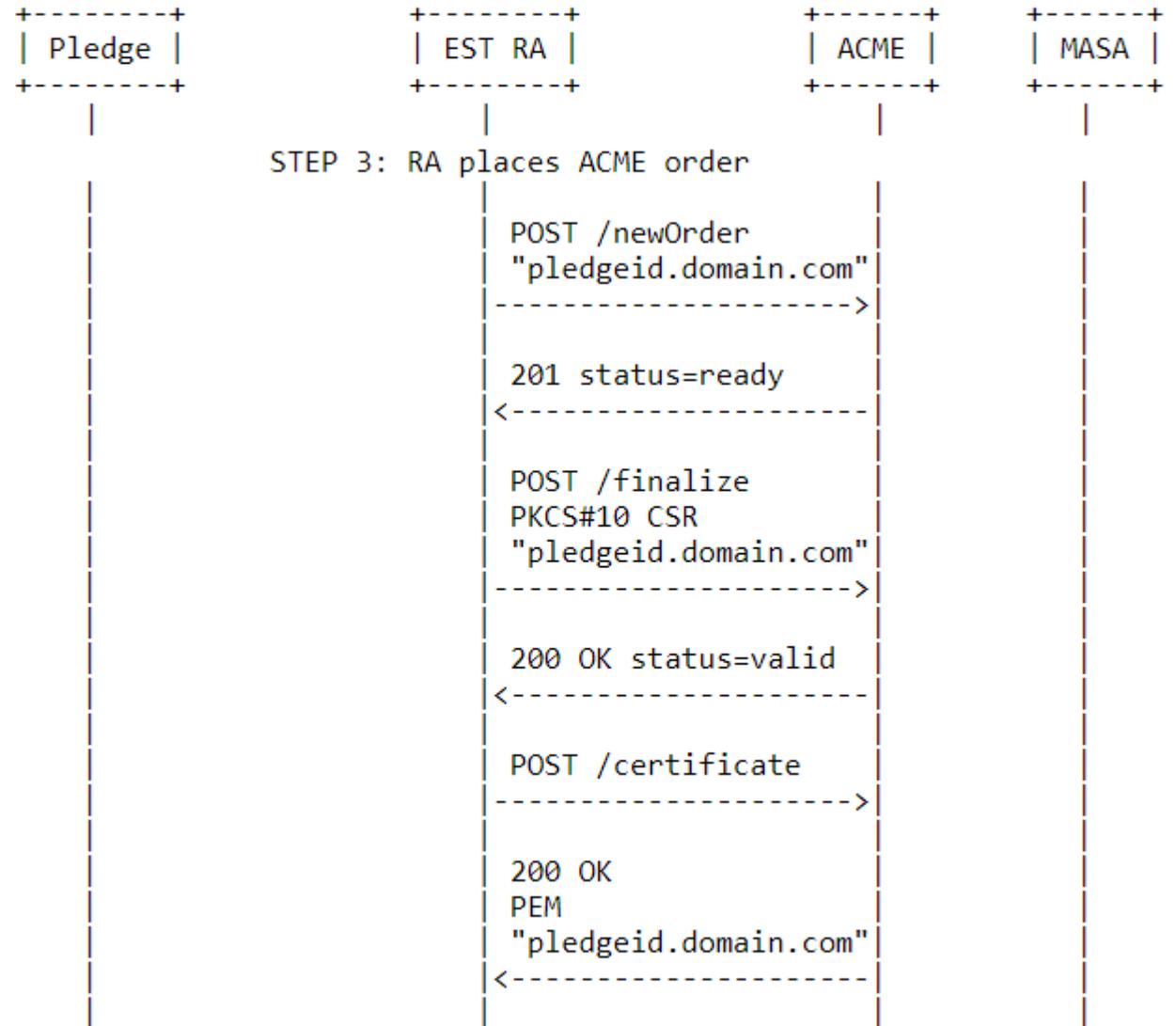
- Pledge requests voucher
- Pledge starts enrol process



BRSKI -> ACME

3 of 4

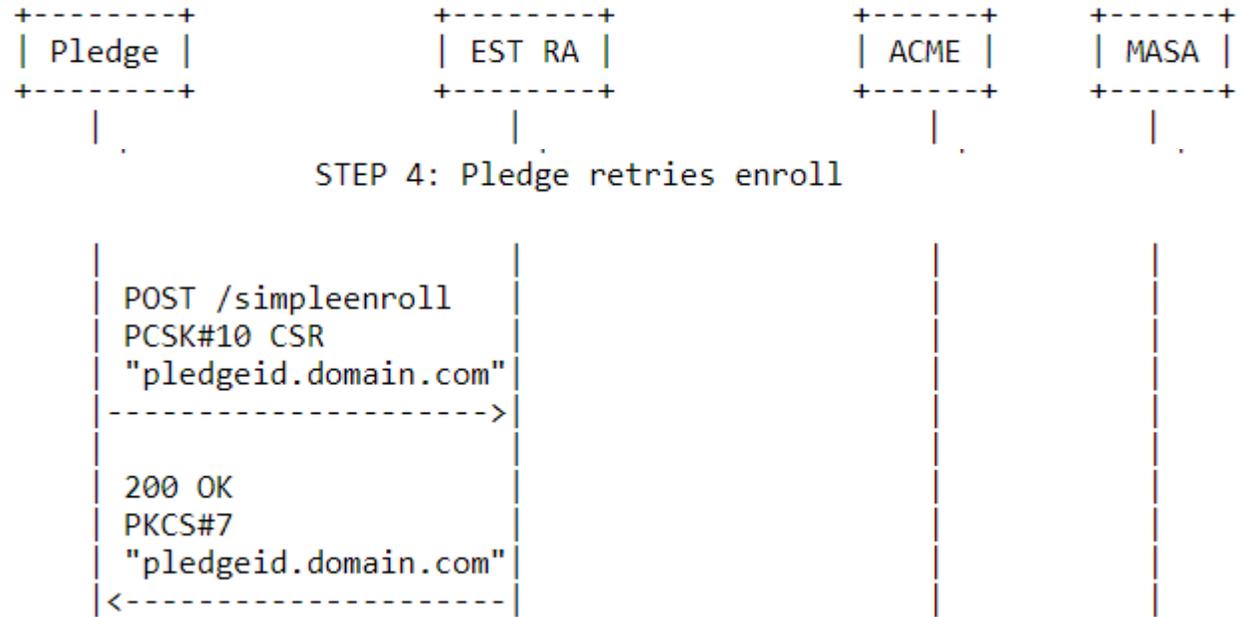
- RA completes ACME order



BRSKI -> ACME

4 of 4

- Pledge retries and completes enrol



Discussion

- Is this of broader interest?
- Note: this short presentation will be given at ACME, ANIMA and EMU sessions
- Side meeting reminder: Coller, 9am Wednesday