

A Profile for Trust Anchor Material for the Resource Certificate PKI

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SIDR WG

IETF 74

Background

- This has been the topic of WG discussion
 - who should be putative TA for the RPKI
 - how should TA material be published
- Focus the discussion by creating a document to address Trust Anchors for the RPKI
 - Removed section 6.3 from Res Cert profile draft
 - Created a new draft with this material
 - draft-ietf-sidr-ta-00.txt

Who?

- Draft is silent on prescribing roles for bodies:

`"This document does not nominate any organizations as default trust anchors for the RPKI."`

- Reasons for this position:

- This task falls outside of IETF WG direction relating to conventional protocol parameter registry functions
- The standard technology specification should encompass use in a broad spectrum of contexts including various forms of private use as well as public

- However, the document does observe that:

`"for most RPs, the IANA is in a unique role as the default TA for representing public address space and public AS numbers."`

How?

- No change from previous TA specification in draft-ietf-sidr-res-certs
 - (aside from some terminology clarifications)
- Two-Tier Model of Trust Anchor
 - Allows for variation in resources held at the “root” while keeping the trust anchor material constant
 - Can be used in a variety of contexts, both public and private
 - Aligns with the TA work in PKIX WG (draft-ietf-pkix-ta-format-01)

ETA TA Certificate

Issuer: ETA

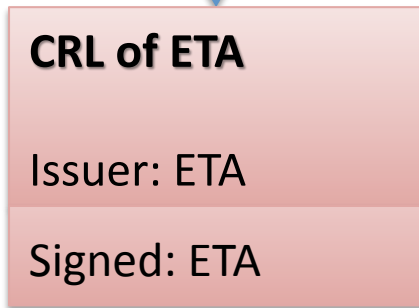
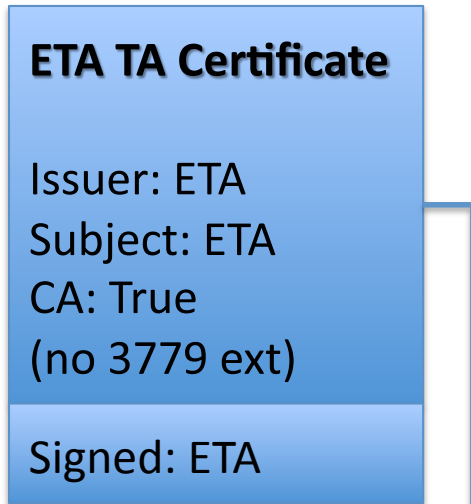
Subject: ETA

CA: True

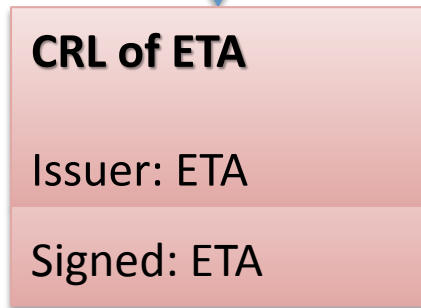
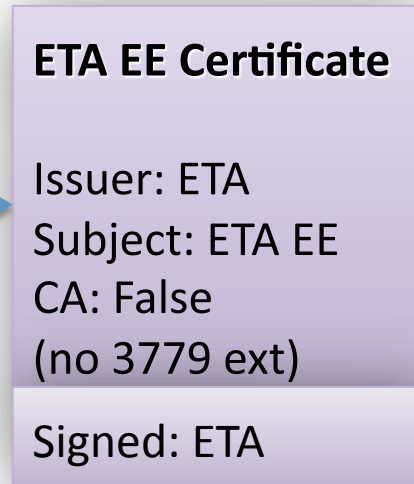
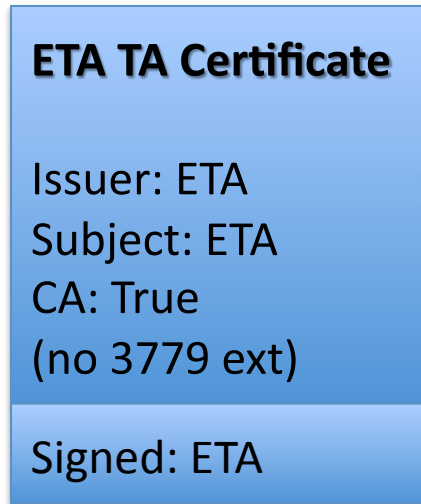
(no 3779 ext)

Signed: ETA

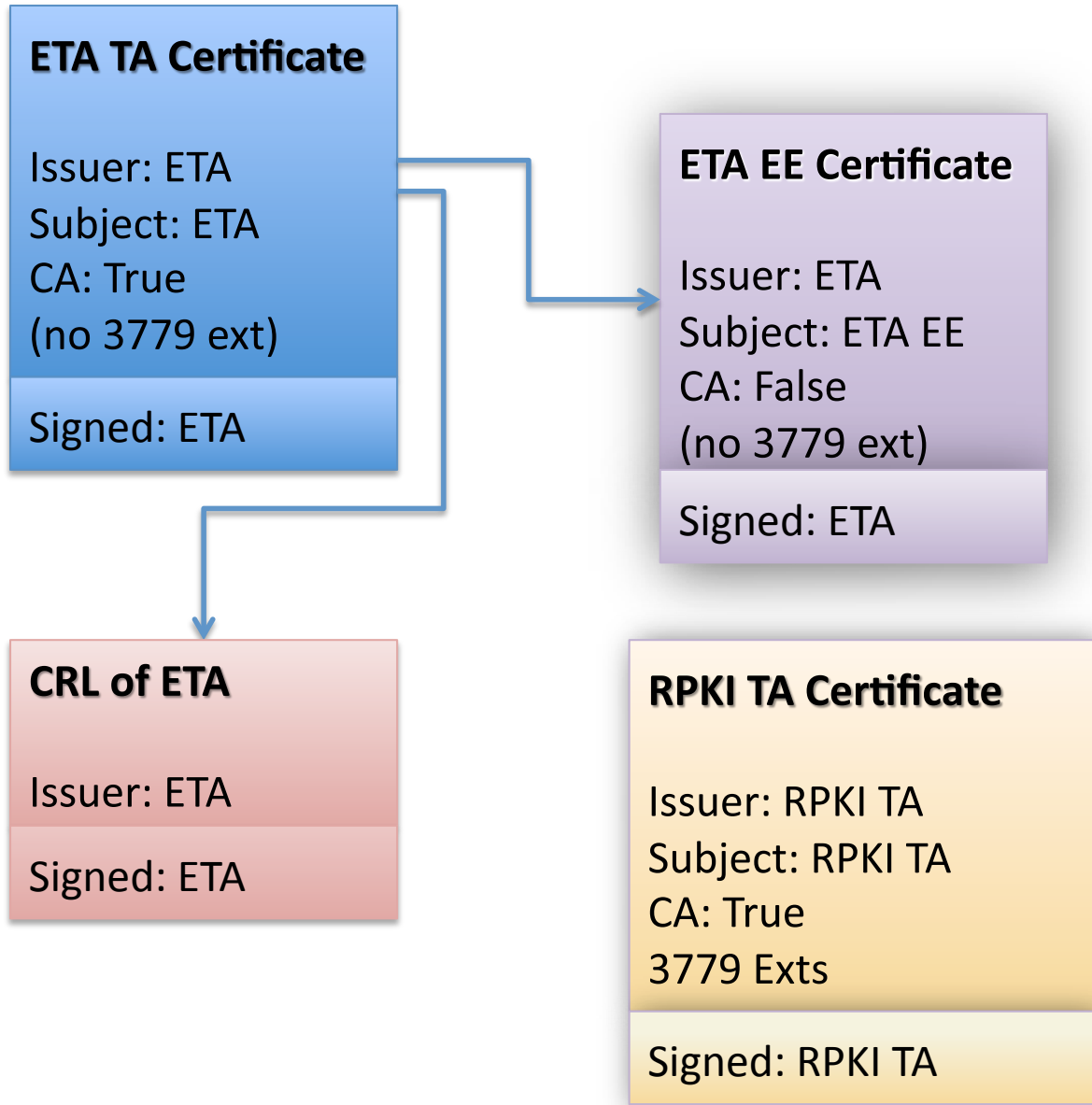
1. External Trust Anchor Certificate - ETA



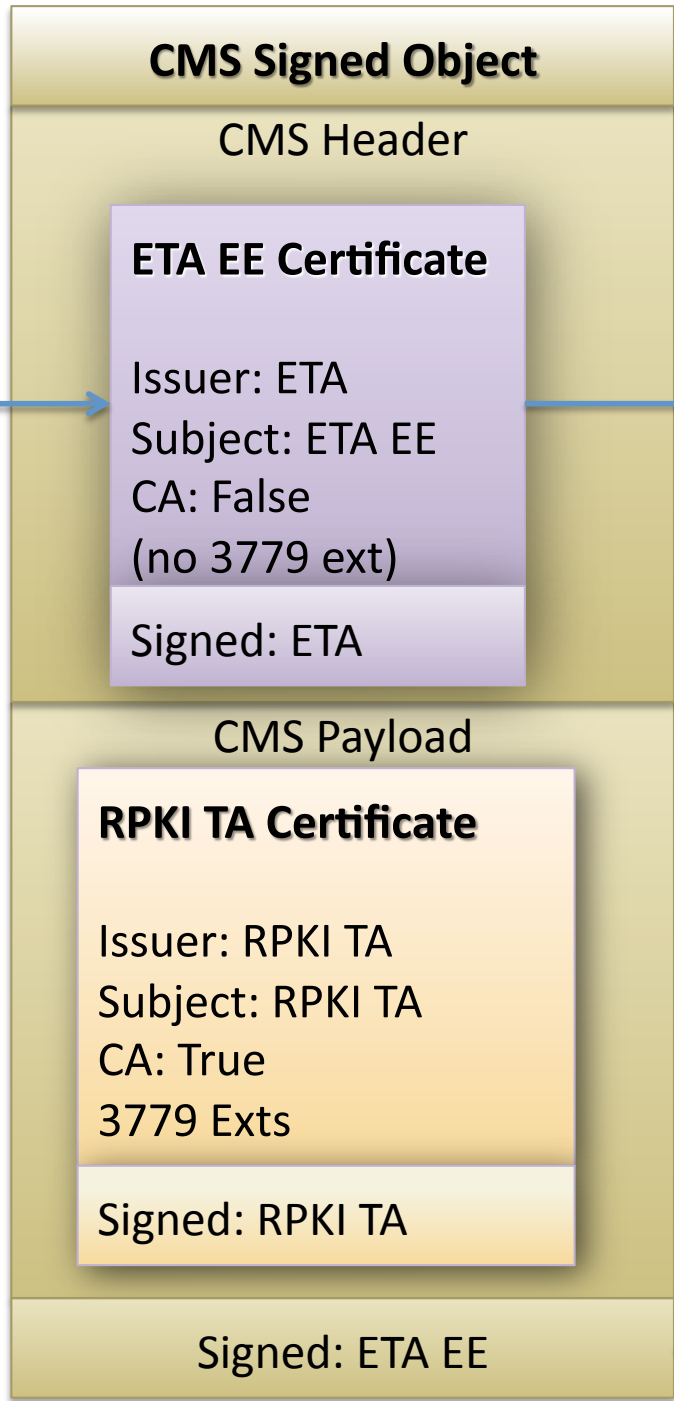
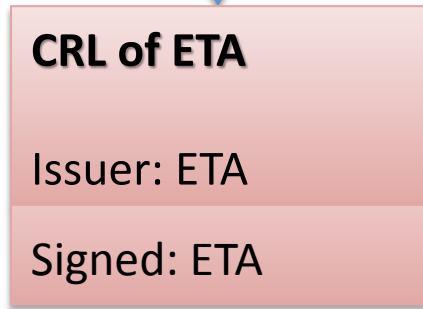
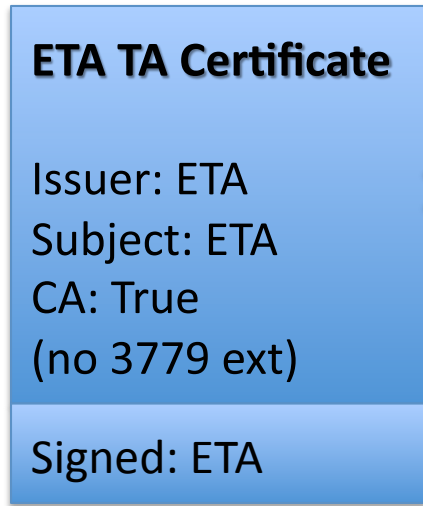
2. Certificate Revocation List for ETA



3. ETA EE Certificate (for CMS Object Verification)



4. RPKI TA Certificate



5. CMS packaging of the RPKI TA Certificate

