Resource Certificate Profile

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APNIC

IETF 70
Was it only a year ago?

SIDR WG Meeting – November 2006

Next Steps

• Generate an -03 version post IETF 67
• Request WG chair for Last Call on this document
Changes for -09

Added:
- Manifests to the SIA field in the profile of the certificate and the profile of the certificate request

Retained:
- RSYNC as a MUST in the access methods for retrieval of RPKI objects
  - This has been the topic of discussion through various stages of review of this profile

Dropped:
- Subject Alternate Name
Next Steps - Again

• Generate an -10 version post IETF 70
  – Complete manifest description in SIA

• Request WG chair for Last Call on this document – again
Some Musing about Validation

• Section 7.3 of the draft requires that the immediate superior certificate in the validation certificate path has a resource extension that encompasses the subordinate certificate. This is a “nested encompassing” constraint that is placed upon the resource extensions of all certificates in the validation certificate path.
ResCert Validation

Certificate Issued
By Trust Anchor

Validated Certificate

Resource Sets

“nested encompassing”
An Alternate Approach

Warning: All this could well be a **Very Bad Idea**

- Is “nested encompassing” absolutely required in validation?
- Would it be useful to relax this?
Alternate ResCert Validation

Certificate Issued By Trust Anchor

Resource Sets

"relaxed encompassing"

Validated Certificate
Alternate Rescert Validation

- The resources of the certificate being validated are encompassed by the resource extensions in the validation certificate path, but the certificates in this path do not necessarily have to encompass each other.
Alternate Rescert Validation

• Potential use in intersecting private use space contexts
Alternate Rescert Validation

This really could be a Very Bad Idea!

But if you have some opinions on this, it would be interesting to hear them!