

RPKI Publication in Parent

Hosted and Delegated RPKI



- Hosted CA
 - Parent (RIR) maintains all keys and objects and publishes them.
 - It's easy.
 - We store your private keys.

- Delegated CA
 - Child CA maintains all keys and objects and publishes them.
 - No extra trust required
 - You have to maintain objects and publish them.

What is publication in parent?



- Service for delegated CAs.
- Also known as
 - Hybrid RPKI
 - 'Publish in Parent' from APNIC
 - ARIN Publication Service for Delegated RP
- The delegated CA creates objects and sends them to the parent.
- Parent CA keeps the objects in its repository.

Why use this service?



- Good availability, can withstand high load
- ~25 delegated repositories under RIPE NCC trust anchor
 - Statistically, some of them are broken at any time
- RIPE NCC RRDP repository is cached by two CDNs
- Having a delegated CA does not imply maintaining infrastructure

Some Technical Details



- Not currently planning for many CAs APNIC has 4 clients, ARIN has 5
- MVP is based on Krill as a publication server
- Redundancy using primary-standby setup
- Will reconsider the implementation based on the uptake

Status



- Being tested in staging environment
- Production launch is planned for Q2
- If you want to be included in the friendly-customer trial, let us know (<u>rpki@ripe.net</u>)



Questions



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