Policy Proposal 2007-08

Initial Certification Policy for PA Address Space Holders

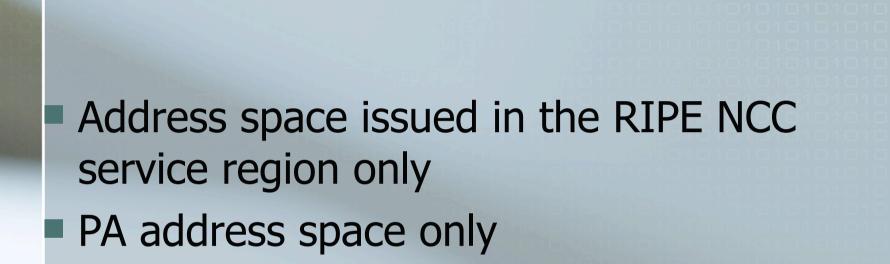
Summary

- The RIPE NCC plans to deploy a certification service that can be used to secure uniqueness of resources.
- This proposal lays out guidelines for how LIRs can receive certificates over their Provider Aggregatable (PA) address space holdings and how these certificates should be maintained.

Mechanics of Certification

Not relevant to the policy proposalDon't intend to discuss here





Details (1)

- The RIPE NCC will issue certificates upon request for Provider Aggregatable (PA) address space allocations.
- The requester must be a RIPE NCC member LIR holding Provider Aggregatable (PA) address space allocations.

Details (2)

- When the RIPE NCC receives a certification request, they may ask for further details to ensure that the requester is the legitimate holder of the resource.
- The certificate will be issued via a secure channel that the RIPE NCC maintains for its members (at the time of this proposal this is the LIR Portal) with a validity period of up to 18 months.

Details (3)

- Renewal or other maintenance of certificates will be available to LIRs with valid RIPE NCC membership or other appropriate contractual relationship.
- Certificates will be revoked when allocations are returned or withdrawn.
- In the event of revocation due to security breach or similar, new certificates will be issued with a validity period equal to the remaining validity of the revoked certificate.

Details (4)

- Maintenance and renewal of certificates will be tied to contractual relationship status of the LIR with the RIPE NCC.
- In cases of continuing non-payment, cessation of contract and/or closing of the LIR, existing certificates may be revoked by the RIPE NCC.
- Notification and a grace period will be provided before the RIPE NCC revokes or ceases renewal of any certificates.

Pros

- Provides definitive "proof" of the right of use of a PA address
- One day may enable secure routing
 - Strengthens the relationship between the RIPE NCC and the member
 - May enable a secure trading market.

Cons

- If secure routing becomes a reality
 - Single point of failure
 - International government implications
 - "We can't pay you that quickly"
- May enable a secure trading market



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