

# 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 proposal
- Don't intend to discuss here



# Scope

- Address space issued in the RIPE NCC service region only
- PA address space only



# 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- Certificates will be revoked when allocations are returned or withdrawn.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



# Questions?

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