ARIN33

POLICY EXPERIENCE REPORT

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Purpose of Policy Experience Report

- Review existing policies
  - Ambiguous text/Inconsistencies/Gaps/Effectiveness
- Identify areas where new or modified policy may be needed
  - Operational experience
  - Customer feedback
- Provide feedback to community and make recommendations when appropriate

Issue Being Reviewed

- Will new/first time ISP requestors be able to qualify for IPv4 space under existing ARIN policies after free pool depletion?

Observations

- Seeing many first time requestors requesting space directly from ARIN
  - Hearing that upstreams are requiring them to renumber and return their space
- About 25-30% of current requestors are first timers to ARIN
- ARIN is the only RIR without a general "austerity" policy

RIR Last /8 "Austerity" Policies

- APNIC and RIPE NCC
  - All LIR's (new and existing) can get a single /22 one time (must qualify under existing policy)
  - A /16 has been reserved in both regions for future undefined use

RIR "Austerity" Policies

- LACNIC
  - /12 reserved for new members: can receive one /24 to /22 ((must qualify under existing policy)
  - /12 reserved for existing members: can receive one /24 to /22 every six months (must qualify under existing policy)
- AFRINIC
  - Last /8: maximum allocation size is /13
  - Last /11: maximum allocation/assignment size is /22
    - Can come back for additional space when needed (must qualify under existing policy)

Potential Pitfalls for New ISPs

- No address space reserved for new organizations
- 8.3 and 8.4 transfers require qualification under existing policy
  - All IPv4 ISP policies (except immediate need), require requestors to already have v4 space to get space
  - Possible that first time ISP requestors won't have/can't get upstream space
- End result: no way for many new ISPs to obtain initial allocation

NRPM 8.3 AND 8.4

- **8.3. Transfers between Specified Recipients within the ARIN Region**
  - Conditions on recipient of the transfer:
    - *The recipient must demonstrate the need for up to a 24-month supply of IP address resources **under current ARIN policies** and sign an RSA.*

- **8.4. Inter-RIR Transfers to Specified Recipients**
  - Conditions on recipient of the transfer:
    - *Recipients within the ARIN region will be **subject to current ARIN policies** and sign an RSA for the resources being received.*

NRPM 4.2.2.1.1 AND 4.2.2.2

- ## 4.2.2.1.1. Use of /20
  - *The **efficient utilization of an entire previously allocated /20** from their upstream ISP*

- ## 4.2.2.2. Multihomed
  - *When requesting a /22, demonstrate the **efficient utilization of a minimum contiguous or noncontiguous /23 (two /24s)** from an upstream.*
  - *When requesting a /21, **demonstrate the efficient utilization of a minimum contiguous or noncontiguous /22 (four /24s)** from an upstream.*
  - *When requesting a /20, **demonstrate the efficient utilization of a minimum contiguous or noncontiguous /21 (eight /24s**) from an upstream.*

Options – Use Existing Policies

- For first time ISP requestors who have no upstream space, only 2 policies they might qualify under:
  - Immediate Need policy
  - /10 to facilitate IPv6 deployment policy

Options - Modify Existing Policies

- 8.3 and 8.4
  - Add clause to allow first time ISPs to get small initial allocation without having provider assigned space

- /10 for IPv6 transition
  - Expand its purpose to include small allocations for first time requestors

Options - Create New Policy

- Set aside a specified prefix size (e.g. a /13 or /14) for first timer ISP requestors
  - The long policy development cycle could be problematic
  - Would this need to be an emergency policy enacted by the Board?