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# 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

# Subject Policies



- **NRPM 5:** AS Number Policy
- **NRPM 8.3:** Some Sources Desire to Qualify as Recipient Before Acting as a Source
- **NRPM 8.3:** Some Recipients Later Complain About Problems with their New IPv4 Block
- **NRPM 8.4:** Some Desire Transfer of AS Numbers

# NRPM 5: AS Number Policy



- Existing criteria:
  - “In order to be assigned an AS Number, each requesting organization must provide ARIN with verification that it has one of the following:
    - **A unique routing policy (its policy differs from its border gateway peers)**
    - **A multihomed site.”**
- Some requests that may not fit into these criteria:
  - **Cloud services (customer indicates cloud service provider requires they have public AS number to participate in service)**
  - **Distributed DoS -or- Disaster Recovery purposes**

# NRPM 5: AS Number Policy (cont.)



- For these atypical requests:
  - ***We inform requesting organizations their requests do not meet the criteria and restate the criteria from NRPM to them.***
  - ***Many modify their requests to comply with the multi-homed criteria and produce agreements/letters from two providers to successfully complete the request process. Some drop their request.***
  - ***The frequency of these requests have increased in the last year (5-10% of AS number requests in a given month mention one of these atypical uses)***
- Considerations
  - ***Is ARIN staff acting correctly by initially rejecting these atypical cases?***
  - ***These cases are becoming less atypical as time passes.***

# NRPM 8.3: Sources Desire To First Be Pre-Qualified as Recipient



- Scenario
  - Company plans to transfer per NRPM 8.3 their existing Class B (/16) IP address block
  - They will still need a /24 IPv4 block after they transfer their /16, but their specified recipient wants the complete /16 block
  - Source wants to pre-qualify for /24 IPv4 block before they act as /16 source, but can't qualify until after the /16 is out of their control.
- Issues
  - Organization can't pre-qualify for a /24 if they currently hold an unused /16, although qualification is highly likely given existing usage
  - Organizations are attempting to time their 8.3 recipient (getting new /24) ticket to happen within minutes of their 8.3 source ticket (releasing their /16)

# NRPM 8.3: Recipient Complaints



- Issue
  - **Customers are receiving IPv4 blocks through NRPM 8.3 transfer and then sometimes later noticing that their received block is being filtered as a result of being listed by SPAM mitigation service providers**
- Considerations
  - **ARIN staff verifies the authority of NRPM 8.3 transfer sources and conducts a needs-assessment for 8.3 transfer recipients**
  - **ARIN staff does not review or advise 8.3 recipients of IPv4 block “quality”, and the quality of a given block is subjective based on the recipient and their intended use.**

# NRPM 8.4: Desire to Transfer AS Numbers



- Issue
  - **Some customers attempt to transfer (via NRPM 8.4) AS numbers**
  - **ARIN staff interprets NRPM section 8.4 to only pertain to IPv4 blocks**
- Considerations
  - **Is ARIN staff properly interpreting NRPM 8.4?**
  - **Is it desired by the policy community AS numbers be transferrable via NRPM 8.4?**



