



# 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

# Policies Reviewed



- **NRPM 5:** AS Number Policy
- **NRPM 4.2.3.6:** Reassignments to multihomed downstream customers

# NRPM 5: AS Number Policy



Policy text:

“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.**

AS Numbers are issued based on current need. An organization should request an AS Number only when it is already multi-homed or will **immediately** become multi-homed.”

# NRPM 5: AS Number Policy



Current practice:

- Confirm connectivity with two upstream providers
  - **Connectivity contracts, invoices, or address reassignments with the two providers**
- Confirm deployment within **30 days**

Are these correct given that ASNs are no longer scarce?

# NRPM 5: AS Number Policy



## Customer Feedback

- 30 days is too short of a timeframe
  - **“I want to have everything needed to deploy my multi-homed site 3 months before turning it up.”**
- Requirement to have connectivity with two upstream providers immediately is burdensome
  - **“I don’t want to spend money on a second connection until I know I have an AS number so I can multi-home.”**
  - **“I need to have established customer base in order to spend money on a second upstream provider.”**

# NRPM 5: AS Number Policy



## Options:

- Leave existing policy/procedure as-is
- Procedure change
  - **Interpret immediate to be longer (90 days? 180 days?)**
  - **Allow verification by identifying two upstream providers and confirming multi-homing will be turned up with them**
- Policy change
  - **Insert specific timeframe and verification requirements**

# NRPM 4.2.3.6: Reassignments to multihomed downstream customers



Policy text:

“This policy allows a downstream customer's multihoming requirement to serve as justification for a /24 reassignment from their upstream ISP, regardless of host requirements.”



# NRPM 4.2.3.6: Reassignments to multihomed downstream customers

Networks may be unable to obtain a /24 to multi-home post-depletion

- May be unable to find an ISP willing to assign them a /24 under NRPM 4.2.3.6 due to IPv4 depletion
- No policy to allow the network to obtain a /24 on the transfer market since 4.2.3.6 applies only to ISPs and not to ARIN

# NRPM 4.2.3.6: Reassignments to multihomed downstream customers

Customers have expressed frustration with not being able to justify and obtain a /24 based on multi-homing

- **“I don’t understand why an ISP can assign me a /24 but ARIN can’t”**
- **“I can’t use anything smaller than a /24 – you don’t seem to understand that”**
- **“How am I supposed to multi-home if I cannot obtain a /24?”**

# NRPM 4.2.3.6: Reassignments to multihomed downstream customers

## Options:

- Leave as-is
- Change NRPM section 4 to allow multi-homing to suffice as justification for a /24
  - **Would apply to waiting list and transfer requests**
- Change NRPM section 8 (Transfers) to allow multi-homing to suffice as justification for a /24
  - **Would apply only to transfer requests**