



# Policy Experience Report

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# IPv6 for 3X-Small ISPs

Service Category	Fee	IPv4 Block Size	IPv6 Block Size
3X-Small	\$250	/24 or smaller	/40 or smaller
2X-Small	\$500	Larger than /24, up to and including /22	Larger than /40, up to and including /36
X-Small	\$1,000	Larger than /22, up to and including /20	Larger than /36, up to and including /32

- IPv4 ISPs currently in the:
  - X-Small category can receive a /32 by policy – no increase in fees
  - 2X-Small category can receive a /36 by policy – no increase in fees
  - 3X-Small category cannot receive IPv6 without a fee increase of double or more.

# RSD Observations

- New/small ISPs say they only need a /40 of IPv6
- No policy for an allocation that would be in the 3X-Small service category similar to IPv4
- Those who apply for and are approved for a /32 or /36 either:
  - Don't complete payment/RSA after they receive an invoice or
  - Are an existing ISP, receive a /32 or /36 and at annual renewal return the block because their annual fee has doubled or more

## 4.1.8 ARIN Waitlist

“Only organizations holding a /20 or less of IPv4 address space may apply and be approved.”

“Address space distributed from the waitlist will not be eligible for transfer for a period of 60 months.”

# Problem Statement

- Both statements are confusing and unclear to customers.
  - RSD has encountered customers indicating they don't hold a single block in excess of a /20 (they hold multiple /21s, /22s, etc.)
  - RSD has received numerous queries about whether this includes to 8.2 transfers

# Implementation

- ARIN Implementation:
  - More than a /20 in aggregate
  - This does not apply to 8.2 transfers

# Consideration

- Could be made a little clearer by specifying:

“Only organizations holding **an aggregate of a /20 or less** of IPv4 address space may apply and be approved.”

“Address space distributed from the waitlist will not be eligible for transfer **under section 8.3 or 8.4** for a period of 60 months.”

## 4.2.1.2 Annual Renewal

An annual fee for registered space is due by the anniversary date of the ISP's first allocation from ARIN. ISPs should take care to ensure that their annual renewal payment is made by their anniversary due date in accordance with the Registration Services Agreement. If not paid by the anniversary date, the address space may be revoked. Please review the Annual Renewal/Maintenance Fees Page for more details.



# Problem Statement

- Fees are not considered as usage/qualifications
- Not really community policy

# Questions

- Is this something that may be considered for removal

# 4.2.3.6 Reassignments to Multihomed Downstream Customers

# Problem Statement

- Very verbose
- References RFC 2050 which is obsolete
  - Replaced by RFC 7020 Aug-2013
- Seen as not being user friendly
- Requirement of 50% usage in one year differs from 24-months outlined in section 4.3.3

# 8.3 Specified Recipient Transfers – Side Stepping to Get Around Policy

# Problem Statement

- Organizations holding larger blocks have no need for the entire block
- They do require a smaller block first to renumber out of larger block
- Problem is that as soon the organization receives a transfer of a smaller block, they are then on a 12-month restriction from becoming a Source

# Example:

- XYZ Manufacturing holds a /16
- They are only using a /23 from the /16
- They have contracted with ABC Corporation to transfer the /16 in whole
- XYZ Manufacturing will **first** need to be the Recipient of a /23 so they can renumber
- As soon as XYZ receives the /23 via transfer, they are restricted for 12 months from becoming a Source for the /16.

# Additional Information

- To sidestep this policy, organizations will:
  - Create a new Org ID and receive the /23 into that new Org ID
  - Complete their renumbering
  - Become a Source of the /16 under the original Org ID
- RSD endeavors to curb the creation of additional Org IDs in an effort to alleviate the same organization from receiving IP addresses from the waiting list
- RSD currently processes "block swaps" as long as there is **no net gain** on either side



# Questions

- Is this new scenario something that requires new policy

OR

- Does this fall under “ARIN is tasked with making prudent decisions on whether to approve the transfer of number resources.”