

Recommended Draft Policy ARIN-2023-7

Clarification of NRPM Sections 4.5 and 6.11 Multiple Discrete Networks

Chris Woodfield and Elizabeth Goodson





Problem Statement

Current Text (19 December 2023)

Section 4.5 and 6.11 of the NRPM does not adhere to the style guide used by the remainder of the document. The numbered lists in these two sections also detracts from the readability and usability of the NRPM.



Policy Statement



Current:

4.5 Multiple Discrete Networks

Organizations with multiple discrete networks desiring to request new or additional address space under a single Organization ID must meet the following criteria:

1. The organization shall be a single entity and not a consortium of smaller independent entities.
2. The organization must have compelling criteria for creating discrete networks. Examples of a discrete network might include:
3. Regulatory restrictions for data transmission,
4. Geographic distance and diversity between networks,
5. Autonomous multihomed discrete networks.

Policy Statement



6. The organization must keep detailed records on how it has allocated space to each location, including the date of each allocation.
7. When applying for additional internet address registrations from ARIN, the organization must demonstrate utilization greater than 50% of both the last block allocated and the aggregate sum of all blocks allocated from ARIN to that organization. If an organization is unable to satisfy this 50% minimum utilization criteria, the organization may alternatively qualify for additional internet address registrations by having all unallocated blocks of addresses smaller than ARIN's current minimum allocation size.

Policy Statement



8. The organization may not allocate additional address space to a location until each of that location's address blocks are 80% utilized.
9. The organization should notify ARIN at the time of the request their desire to apply this policy to their account.
10. Upon verification that the organization has shown evidence of deployment of the new discrete network site, the new network(s) shall be allocated the minimum allocation size under section 4.2.1.5.

Policy Statement



Proposed:

4.5 Multiple Discrete Networks

Organizations with multiple discrete networks desiring to request a new or additional IP address space allocation under a single Organization ID must meet the following criteria:

The organization shall be a single entity and not a consortium of smaller independent entities and must have compelling criteria for creating discrete networks.

Policy Statement



Examples which may result in discrete networks might include:

- Regulatory restrictions for data- transmission;
- Geographic distance and diversity between networks; or
- Autonomous multihomed discrete networks.

Policy Statement



The organization must keep detailed records on how it has allocated IP addresses to each location, including the date of each allocation. When applying for additional Internet Resource allocations from ARIN, the organization must demonstrate utilization greater than 50% of both the last IP addresses allocated and the aggregate sum of all IP addresses allocated from ARIN to that organization. If an organization is unable to satisfy this 50% minimum utilization criteria, the organization may alternatively qualify for additional internet IP address allocations by having all unallocated IP address blocks smaller than ARIN's current minimum allocation size. The organization may not allocate additional IP address space to a location until each of that location's IP address allocations are 80% utilized. The organization should notify ARIN at the time of the request of their desire to apply this policy to their account. Upon verification that the organization has shown evidence of deployment of the new discrete network site, the new network(s) shall be allocated the minimum allocation size under section 4.2.1.5.

Policy Statement



Current:

6.11. IPv6 Multiple Discrete Networks

Organizations with multiple discrete IPv6 networks desiring to request new or additional address space under a single Organization ID must meet the following criteria:

1. The organization shall be a single entity and not a consortium of smaller independent entities.
2. The organization must have compelling criteria for creating discrete networks. Examples of a discrete network might include:
 - Regulatory restrictions for data transmission,
 - Geographic distance and diversity between networks,
 - Autonomous multihomed discrete networks.

Policy Statement



3. The organization must keep detailed records on how it has allocated space to each location, including the date of each allocation.
4. The organization should notify ARIN at the time of the request their desire to apply this policy to their account.
5. Requests for additional space:
6. Organization must specify on the application which discrete network(s) the request applies to
7. Each network will be judged against the existing utilization criteria specified in 6.5.2 and 6.5.3 as if it were a separate organization, rather than collectively as would be done for requests outside of this policy.

Policy Statement



Proposed:

6.11. IPv6 Multiple Discrete Networks

Organizations with multiple discrete IPv6 networks desiring to request new or additional IPv6 address allocations under a single Organization ID must meet the following criteria

The organization shall be a single entity and not a consortium of smaller independent entities. The organization must have compelling criteria for creating discrete networks.

Policy Statement



Examples which may result in discrete networks might include:

- Regulatory restrictions for data transmission;
- Geographic distance and diversity between networks; or
- Autonomous multihomed discrete networks.

Policy Statement



The organization must keep detailed records on how it has allocated IPv6 addresses to each location, including the date of each IPv6 address allocation. The organization should notify ARIN at the time of the request their desire to apply this policy to their account.

Requests for additional space:

- Organization must specify on the application which discrete network(s) the IPv6 address request applies to
- Each network will be judged against the existing utilization criteria specified in 6.5.2 and 6.5.3 as if it were a separate organization, rather than collectively as would be done for requests outside of this policy.

History



Action	Date
Accepted as Draft by AC	Sept 21, 2023
Presented at ARIN 52	Oct 19, 2023
Revised Policy Language Published	Dec 19, 2023
Advanced to Recommended Draft Policy	Feb 21, 2024

Staff and Legal Review



Staff and Legal Review (14 February 2024)

Staff Understanding:

This policy corrects and reorganizes the numbered bullets in section 4.5 and 6.11 for clarity. Additional edits were made to include “Allocation”, reflecting ARIN’s deprecation of “Assignment”. This policy is editorial if relevant edits to the definition of Allocation in ARIN Draft Policy 2022-12: Direct Assignment Language Update are adopted as written (or a substantially similar version) and implemented.



Staff and Legal Review

Implementable as Written?: Yes

Impact on ARIN Registry Operations and Services: None

Legal Review: No material legal issue

Implementation Timeframe Estimate: 3 months

Implementation Requirements:

- Updates to public documentation
- Updates to internal procedures and guidelines

Proposal/Draft Policy Text Assessed: 19 December 2023

AC Assessment of Conformance with the Principles of Internet Number Resource Policy

Based on community feedback and AC discussion, we motion to move ARIN-2023-7: Clarification of NRPM Sections 4.5 and 6.11 Multiple Discrete Networks to Recommended Draft Policy. This Draft Policy is fair, impartially, and technically sound; it will add clarity and readability to the references NRPM sections.

Policy Impact



This is **almost** an Editorial Policy. Almost.

- References to allocations reflect the deprecation of the word "Assignment" in separate policy proposal (2022-12).
- If 2022-12 is implemented alongside, this is 100% editorial. If not, this could have the effect of only supporting Allocations (and no longer supporting Assignments) under this policy.

Policy Impact



Strong preference to adopt only if ARIN-2022-12 is also adopted; otherwise revise to reimplement Assignment language to avoid unintentional impacts to policy

Community Feedback



- Original language presented at ARIN 52
- Feedback strongly recommended removing definition of "Org ID" included in original proposal. *(This has been updated)*
- Revised policy language supported on Public Policy Mailing List



QUESTION(S) FOR THE COMMUNITY

- Do you support this policy as written?
- Does this new language add clarity to the NRPM sections being revised?

Thank You

Questions or Comments?

