Recommended Draft Policy
ARIN-2014-12
Anti-hijack Policy

- **2014-12 History**
  - Origin: ARIN-prop-202 (Feb 2014)
  - AC Shepherd: David Farmer, Cathy Aronson
  - AC accepted as Draft Policy in March
  - Presented at ARIN 33
  - AC made recommended in May
  - Text Online & in Discussion Guide
    - https://www.arin.net/policy/proposals/2014_12.html

- **Staff Understanding**
  - This policy would clarify expectations for experimental allocations by requiring that all experimental allocations come from ARIN's Internet Resource space, do not overlap any existing registrations, not be private or otherwise un-routable space, and be registered in Whois with a designation indicating that the registration is experimental with a comment indicating the end date of the experiment.

- **Staff Comments**
  - This policy could be implemented as written.

- **Legal Assessment**
  – The policy poses no significant legal issues.

- **Presentation by the AC**

Recommended Draft Policy ARIN-2014-12 Anti-hijack Policy

Problem Statement

- ARIN should not give research organizations permission to hijack prefixes that have already been allocated. Research organizations announcing lit aggregates may receive sensitive production traffic belonging to live networks during periods of instability.

- Section 11.7 describes more than allocation size therefore updating the section heading to something more accurate is appropriate.

Recommended Policy Statement

Modify the section 11.7 heading to be more accurate. Modify the first sentence to prohibit overlapping assignments. Add text at the end to define how research allocations should be designated.

Recommended Policy Text

11.7 Resource Allocation Guidelines

The Numbering Resources requested come from the global Internet Resource space, do not overlap currently assigned space, and are not from private or other non-routable Internet Resource space. The allocation size should be consistent with the existing ARIN minimum allocation sizes, unless small allocations are intended to be explicitly part of the experiment. If an organization requires more resource than stipulated by the minimum allocation sizes in force at the time of their request, their experimental documentation should have clearly described and justified why this is required.

All research allocations must be registered publicly in Whois. Each research allocation will be designated as a research allocation with a comment indicating when the allocation will end.

Recent Discussions on PPML

- Have focused on the 3rd sentence, which is not related to the problem statement, and has not been modified by the policy proposal. However, the text does seem awkward.

  If an organization requires more resource than stipulated by the minimum allocation sizes in force at the time of their request, their experimental documentation should have clearly described and justified why this is required.

Proposed Editorial Changes

- Even though not associated with the problem statement at hand, an Editorial Change would seem to be in order to clarify the original intent of the policy.

  If an organization requires more ~~resource~~ resources than stipulated by the applicable minimum allocation ~~sizes~~ size in force at the time of ~~their~~ its request, ~~their experimental documentation should have~~ the request must clearly ~~described~~ describe and ~~justified~~ justify why ~~this~~ a larger allocation is required.

Policy Statement w/Editorial Changes

Modify the section 11.7 heading to be more accurate. Modify the first sentence to prohibit overlapping assignments. Add text at the end to define how research allocations should be designated.

Modify the third sentence to clarify the original policy intent regarding justification for allocations larger than the applicable minimum.

Policy Text w/Editorial Changes

Blue New or Changed Text

11.7 Resource Allocation Guidelines

The Numbering Resources requested come from the global Internet Resource space, do not overlap currently assigned space, and are not from private or other non-routable Internet Resource space. The allocation size should be consistent with the existing ARIN minimum allocation sizes, unless small allocations are intended to be explicitly part of the experiment. If an organization requires more resources than stipulated by the applicable minimum allocation size in force at the time of its request, the request must clearly describe and justify why a larger allocation is required.

All research allocations must be registered publicly in Whois. Each research allocation will be designated as a research allocation with a comment indicating when the allocation will end.

Discussion

- Do you object the AC incorporating the Proposed Editorial Changes based on PPML feedback prior to Last Call?

Additional Context

- Proposal prompted by presentation at NANOG 60 "Understanding IPv6 Internet Background Radiation"
- With an LOA from each RIR, the project announced covering /12s for each RIR's IPv6 space
- Also related to; ACSP Suggestion 2014.3: Publish Information and Supporting Documents for Experimental Allocations
  - … Information published will include a description of the experiment/research project, the resources issued, and a link to the public documentation if one exists.
- Discussed at ARIN 33, minor changes to text suggested

Useful Links

- NANOG Presentation of the Research Project

  https://www.nanog.org/meetings/abstract?id=2289

- Published Research Paper

  http://www.merit.edu/research/pdf/2013/ipv6_darknet_paper_r6098.pdf

- ACSP Suggestion 2014.3: Publish Information and Supporting Documents for Experimental Allocations

  https://www.arin.net/participate/acsp/suggestions/2014-3.html