Near-Real-Time Publication of Allocated Netblocks

A Request to NANOG for Input

What is the Problem?

- **Network and server operators would like to restrict access from unallocated IP space.**

  - E-mail should not come from unallocated addresses.

  - Packets should not come from unallocated addresses.

  - Route announcements should not be generated for unallocated addresses.

The Existing Workaround

✴ **Services exist that take RIR data and produce near-real-time reports in other formats.**

Team Cymru, www.cymru.com, produces BGP feeds containing unallocated IP space.

CompleteWhois, www.completewhois.com, produces BGP feeds and DNS zones listing unallocated IP space.

The Existing Workaround

✸ Problems:

Some are not willing to trust these "intermediate" sources of information.

These services must translate existing RIR formats (eg, bulk whois, ftp files of allocation statistics) which delays the updates and can introduce errors.

These services often provide additional information creating "bogon" lists which are not simply unallocated IP space lists.

The Existing Workaround

✳ **Many ISP's filter routing announcements for unallocated IP space. Today these filters are often static.**

Recent allocations from previously unallocated IP space (/8's) have been filtered from a significant portion of the Internet until manual updates were performed to the filters.

What Can ARIN Do?

☀ **ARIN could provide information about ARIN assigned and unassigned IP space in additional formats:**

BGP – Good for network filtering.

LDAP – Good for general purpose lookups.

DNS – Existing uses for SPAM filtering that would be easy to build upon.

Custom new protocol for "realtime whois"?

Others?

Why ARIN Might Not Want to Act

- **Because filtering is real time, it must be**
    - Reliable (24x7)
    - Accurate
- **ARIN Will have to expend resources to run servers and update the data.**
- **ARIN may have liability, particularly in the case of mistakes.**
- **Any solution will have to be supported "forever".**

Coordination with other RIR's.

* **Unless other RIR's offer a similar, or coordinated service it's unlikely those who want the data would bother with "ARIN Only" data.**
* **Does ARIN want to take the lead in developing such a system?**
  What other groups might take the lead?

How NANOG Can Help

- **ARIN has an open policy process based on community consensus.**
- **Many ARIN meeting attendees have background in the policy and administrative space. More technical input on issues like this would be helpful.**
    - ARIN and NANOG have started joint meetings which help both groups.

How NANOG Can Help

* **Technical specifications of protocols and what data should be supplied need to be developed and presented.**

  The ARIN community is very concerned with:

  Long term support.

  Staff time impact.

  Cost to run the service (hardware, co-location, etc).

  Providing only data that ARIN maintains.

  Consistency with other RIR's.

Forums

* **NANOG Mailing List**
* **PPML – Public Policy Mailing List**

  See www.arin.net/mailing_lists/ for more information.

* **Joint NANOG/ARIN Meeting, October 18-22**
* **Other RIR's (RIPE, APNIC, LACNIC, AFRINIC) meetings and mailing lists.**