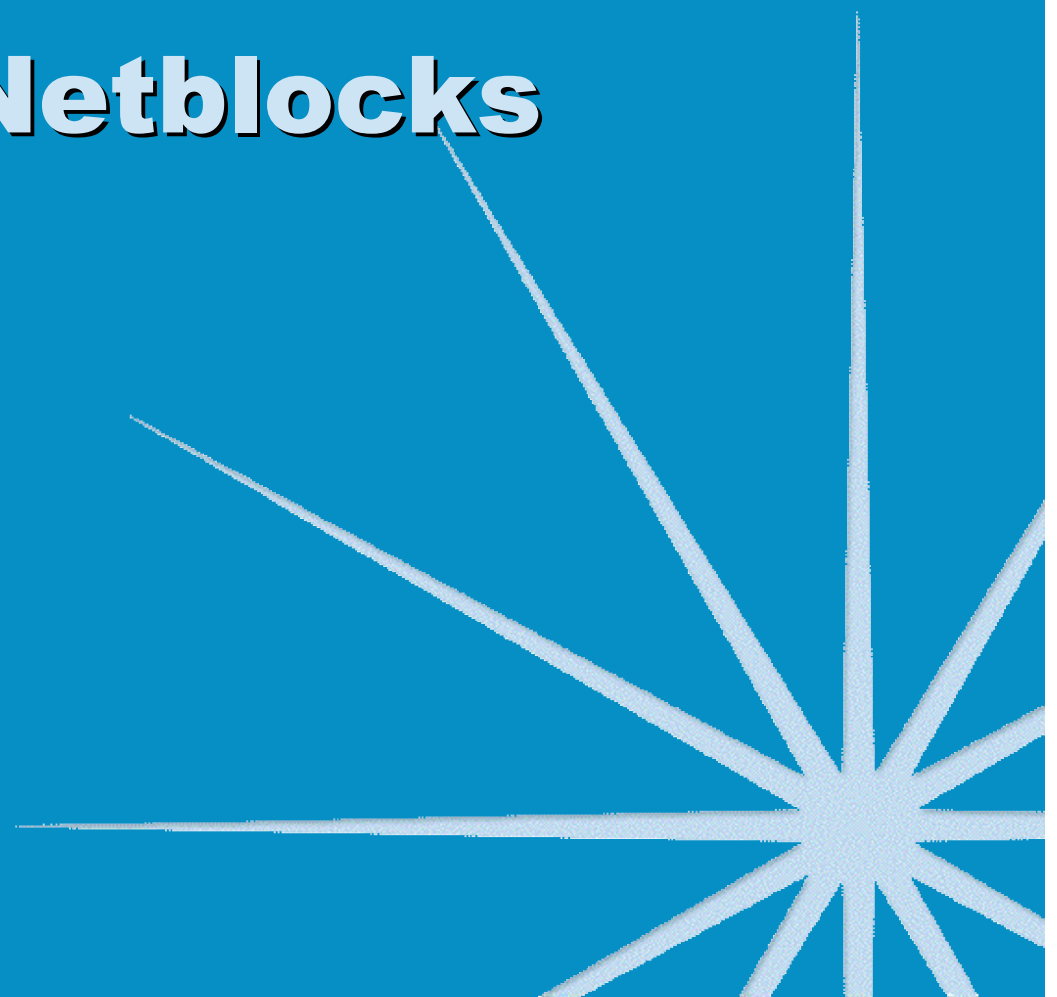# Near-Real-Time Publication of Allocated Netblocks

What is the Problem?

{ **Network and server operators would like to filter / restrict access from unallocated netblocks.**

- 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 blocks.

  - CompleteWhois, www.completewhois.com, produces BGP feeds and DNS zones listing unallocated blocks.

The Existing Workaround

Problems:

- Not all parties are willing to trust these "intermediate" sources of information.

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

- These groups often provide additional information creating "bogon" lists which are not simply unallocated netblock lists.

The Existing Workaround

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

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

What Can ARIN Do?

{ **ARIN could provide the information 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)
  - Correct
- **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?

Questions

{ **Should ARIN proceed with development of a near-real-time proposal?**

{ **What formats should be supported?**

{ **Should ARIN be involved in the standards process for secure routing protocols and other processes that might use this data?**

{ **How do we involve other RIR's? Will other RIR's buy in?**