

IANA Update at ARIN XXI

Denver, CO
April 2008

Leo Vegoda
leo.vegoda@icann.org

Denver, April 2008



Overview

- ▶ IPv4 Address Space Registry
- ▶ Research
- ▶ IETF work
- ▶ DNS work

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IPv4 Address Space Registry

New IPv4 Address Space Registry Format

- ▶ No more “Various Registries”
- ▶ Clearer status field status
 - ▶ Unallocated != Reserved

XML

XML

- ▶ All registries to be published in XML this summer
- ▶ Plan to have the IPv4 registry lead the way
 - ▶ Multiple publication formats
 - ▶ Easy for computers to read

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Research

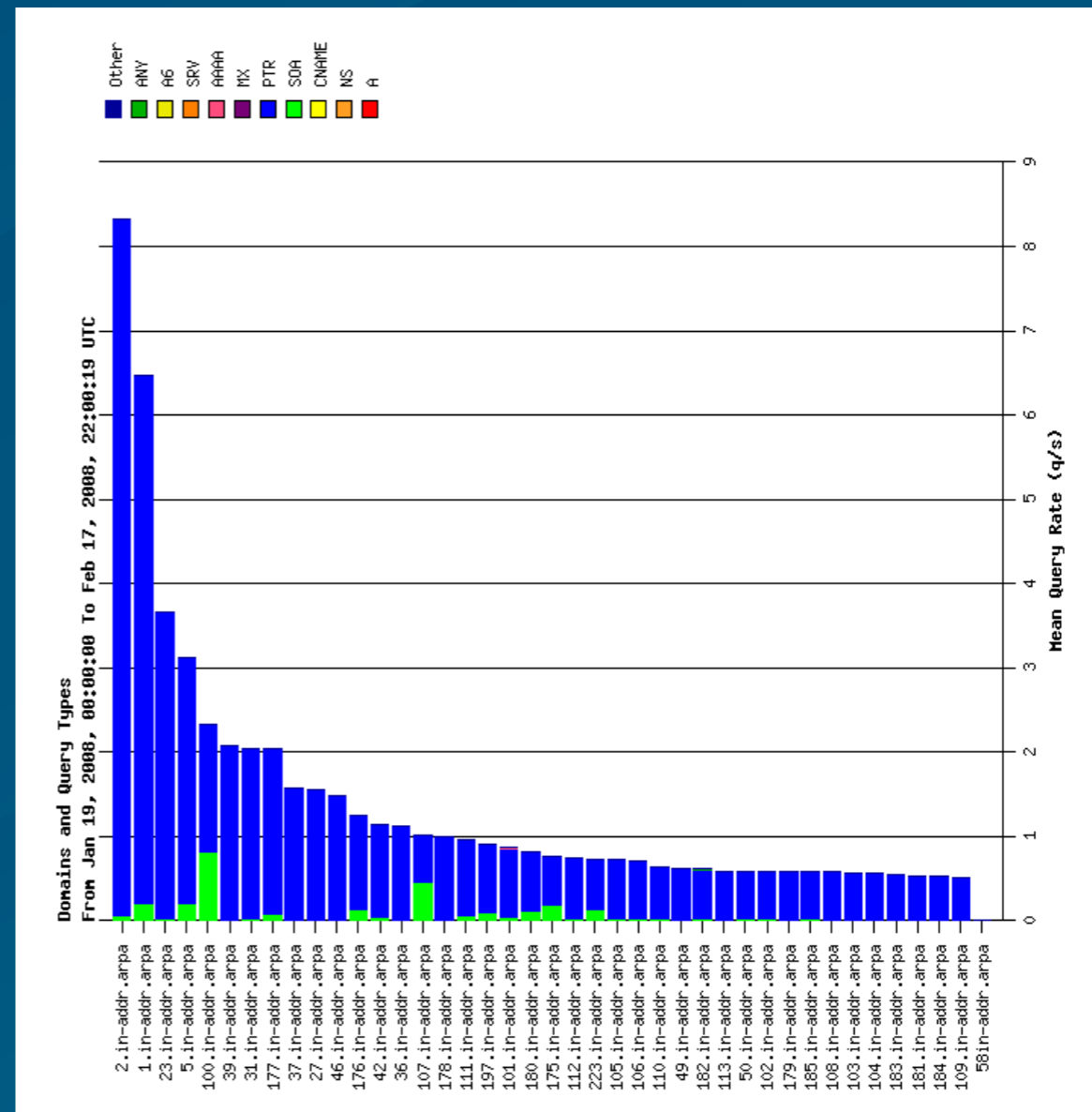
Used but unallocated

- ▶ Some unallocated IPv4 space is used already
 - ▶ Which ranges?
 - ▶ How widely?



Initial Measurements

- ▶ Networks might leak DNS queries for unallocated IPv4 addresses
- ▶ These queries will end up at the in-addr.arpa DNS servers
- ▶ Lets's have a look



Looking more closely

- ▶ Engage a professional researcher
- ▶ Use the DITL data

<http://www.caida.org/projects/ditl/>

- ▶ Results will be shared

IETF Work

draft-iana-rfc3330bis-00

- ▶ RFC 3330 needs to be updated
 - ▶ 14.0.0.0/8 was reclaimed
 - ▶ A few other changes
- ▶ -01 draft is being produced

<http://tools.ietf.org/html/draft-iana-rfc3330bis>

draft-cotton-v4mcast-guidelines-00

- ▶ RFC 3171 need to be updated
- ▶ The IPv4 Multicast Registry needs improvements
- ▶ Updated draft is being produced
 - ▶ Hopefully as a WG document

<http://tools.ietf.org/html/draft-cotton-v4mcast-guidelines>

DNS Work

IPv6 in the root

- ▶ IPv6 addresses for 4 servers added in February
 - ▶ L-root now IPv6 accessible
 - ▶ To be added to named.root soon

Reverse DNS delegation

- ▶ Exploring strategies to automate reverse DNS delegation management with the five RIRs
- ▶ Discussions started at IETF in Philadelphia
- ▶ Hope to enable a smooth process for...

DNSSEC update

- ▶ ... DNSSEC in in-addr.arpa and ip6.arpa as requested by the IAB
- ▶ Working on DNSSEC systems and processes that can be used for all IANA managed zones

The next ICANN meeting

- ▶ Join us in Paris in June

<http://par.icann.org/>



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Thank You!

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