



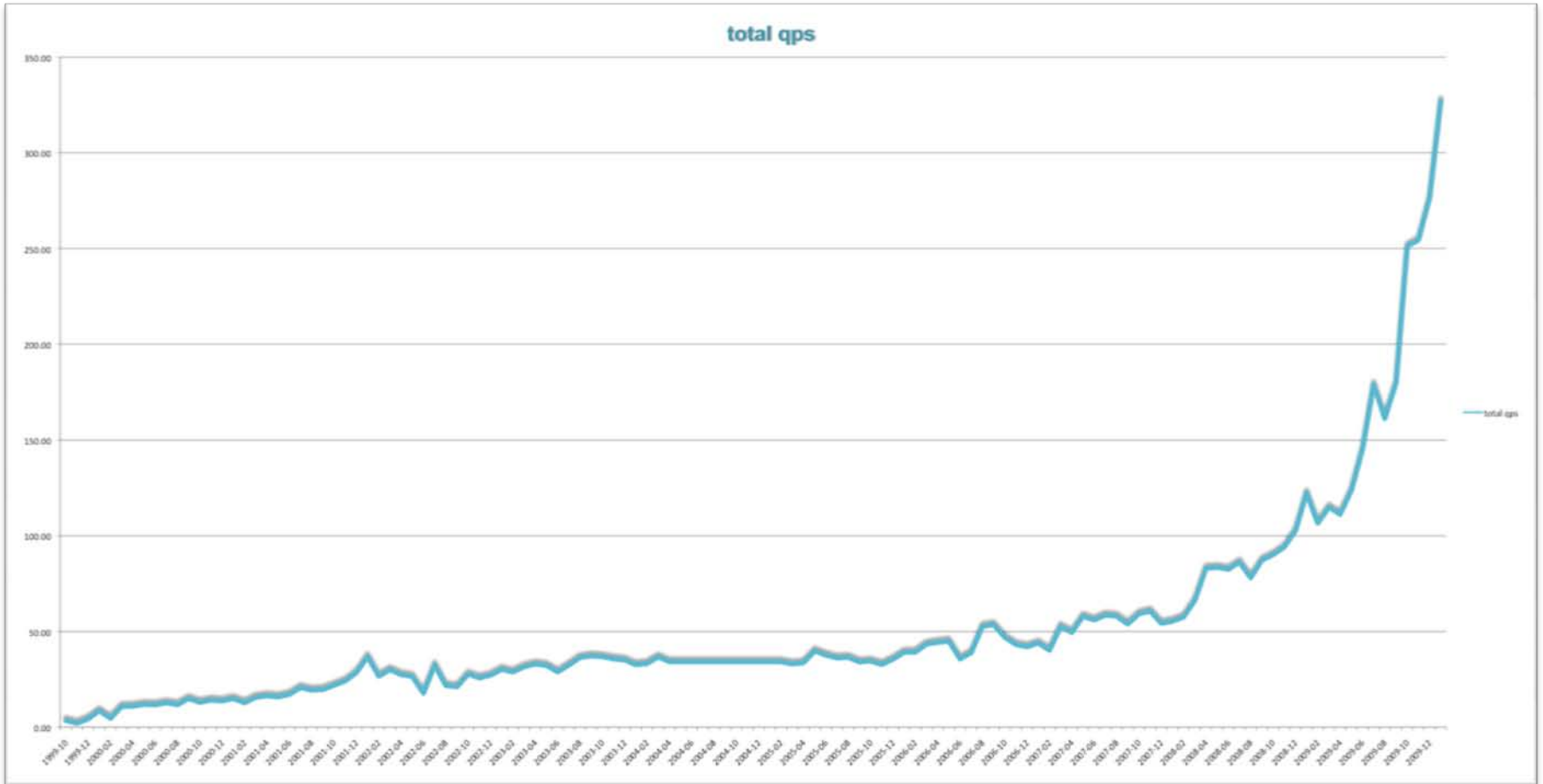
ARIN Update

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RIPE 60
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4-byte ASN Stats

- **In 2009**
 - Received 197 requests for 4-byte ASNs
 - 140 changed request to 2-byte
 - ARIN issued 27 4-byte ASNs
 - 15 exchanged for 2-byte ASNs
 - Total 4-byte ASNs issued in 2009 = 12
- **Typical reason for exchange:**
“Upstream said their router wouldn’t support 4-byte ASN”

WHOIS Traffic





WHOIS Traffic Loads

- Over 50% of the queries are self-referential
 - 192.168.2.5 asking for 192.168.2.5
 - Most are singleton queries
 - Increasing over the last year
- This may be an emerging botnet that uses WHOIS
- Most seem to be windows boxes
- Any ideas on what code is causing this?
- Replacing legacy WHOIS service with whois-rws to help solve this issue

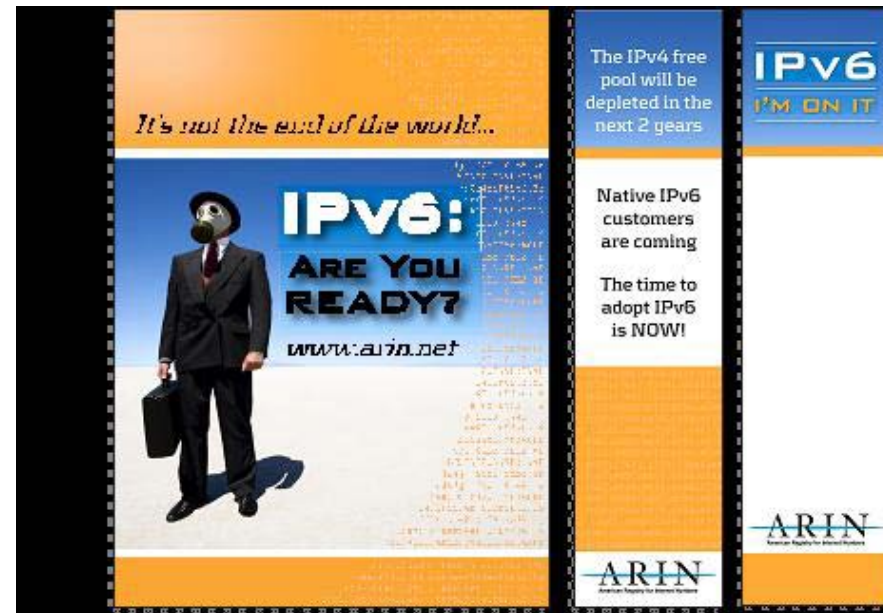


Public-Facing Development Efforts

- **ARIN Online**
- **DNSSEC**
 - Signing zones now
 - Interfaces to allow you to insert DS records in rolled out in 2010
- **RPKI**
 - Will be a production service at the end of 2010
 - Pilot available at <http://rpki-pilot.arin.net>
- **Whois-RWS**
 - Will be a production service in 2010
 - Pilot available at <http://whoisrws-demo.arin.net>

Outreach

- ARIN continues to participate in various regional, national and international forums
 - IPv4 depletion
 - IPv6 adoption
 - 4-Byte ASNs
 - The RIR System
 - Policy Development Process
- Microsite – teamarin.net



Implemented Policy

- **IPv4**
 - Transfers (2009-1)
 - Last /8, 3 month supply maximum (2009-8)
- **IPv6**
 - Removed requirement to route the single aggregate (2009-7)
 - Multiple Discrete Networks (2009-5)
 - Community Networks (2008-3)



Policy Proposal Discussions

- **Last call ended on 12 May**
 1. IPv4 minimum assignment to /24 (renumbering req.)
 2. Initial IPv6 Allocation Criteria – multi-homers to get /32s
 3. M&A Transfer policy – M&As made easier (unused space to be returned)
- **Work to continue**
 1. Waiting list for Unmet IPv4 Requests
 2. IPv6 assignment criteria
- **Abandoned**
 1. Customer Confidentiality
 2. IPv4 minimum allocation to /23 (renumbering req.)
 3. Standard IPv6 allocation sizes /48, /40, /32, /28, /24

New Policy Proposals

1. **Directory Services (Policy Proposal 109)** - Defines “organizational information”, extends current cable address policy to all residential markets, duplicates IPv4 reassignment policy to IPv6
2. **Last /8 (110)** - Creates multiple pools for special purposes, including new entrants, and small and multihomed organizations (for migration to IPv6)
3. **Last /8 (112)** - Reserves all of the last /8 for special requests
4. **End of IPv4 policy (111)** - Four prefix maximum per request
5. **IPv4 Allocations (114)** - Initial requests can count use of RFC 1918 space
6. **IPv6 Rapid Deployment (113)** - IPv6 /32 and larger allocations for provisioning 6rd

ARIN Meetings

(Atlanta and Puerto Rico)



References

- Proposals and adopted policies
 - <https://www.arin.net/policy/proposals/index.html>
- Mailing Lists
 - https://www.arin.net/participate/mailing_lists/index.html

Thank you!