

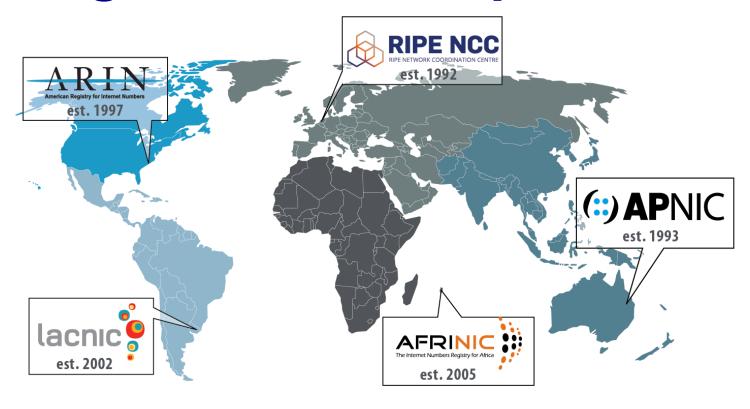
"Life After IPv4 Depletion"

CANTO
San Juan, Puerto Rico
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Regional IPv4 Depletion



*3 out of the 5 RIRs are working from their last /8 *ARIN reached full depletion on Sept 24, 2015



ARIN Reserved IPv4 Space

- Space reserved per policy
 - /10 to facilitate IPv6 deployment
 - 2 /16s for exchange points/critical infrastructure (DNS providers excluding new gTLDs, IANA, RIRs)
- Held space (minimum 60 days)
 - Space returned to ARIN or revoked for non-payment
 - Held for at least 60 days
 - Research required to verify ARIN can reissue



Recent Observations

- Still strong demand for IPv4
 - Seeing increased activity in IPv4 transfers/transfer market, decrease in IPv4 requests themselves
 - Getting lots of questions from customers about postdepletion options
 - Not all aware we've reach full IPv4 depletion
- Seeing increase in # of blocks targeted for hijacking
 - Blocks with outdated org/contact info, especially legacy, are the biggest target
 - Hijackers target dormant registration records, go through series of registration record modifications pretending to be the original registrant
 - Reports of more route hijackings (unauthorized use of IP addresses)
- IPv6 requests remain steady



Post-IPv4 Depletion Options

- IPv4 Waiting List
 - IPv4 requestors who qualify for address space can choose to be added to the list and hope that space comes back to the free pool
- IPv4 Transfer Market
 - Transfers based on financial transactions, supported by justified need under ARIN policy (within region or outside the region))
- Dedicated IPv4 block to facilitate IPv6 deployment
 - One /24 every 3 months, must be used for IPv6 transition
- Adopt IPv6
 - Only way to ensure future business growth and drive innovation

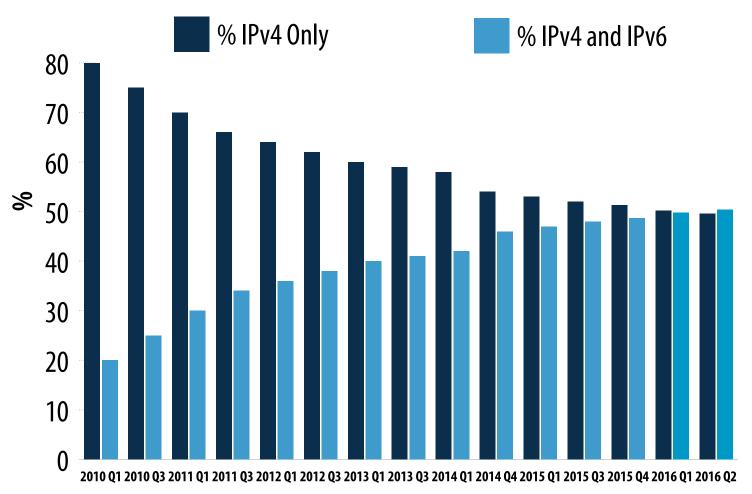


Why Move to IPv6 Now?

- IPv4 free pool is depleted
- IPv4 Transfer Market = \$\$\$\$\$
- How will you continue to grow your network? Alternatives?
 - Large Scale/Carrier-Grade NAT
 - Equipment costs to consider
 - Degraded services: increased latency, certain applications don't work well, law enforcement compliance issues, geo-location, etc.
- The public Internet is moving to IPv6



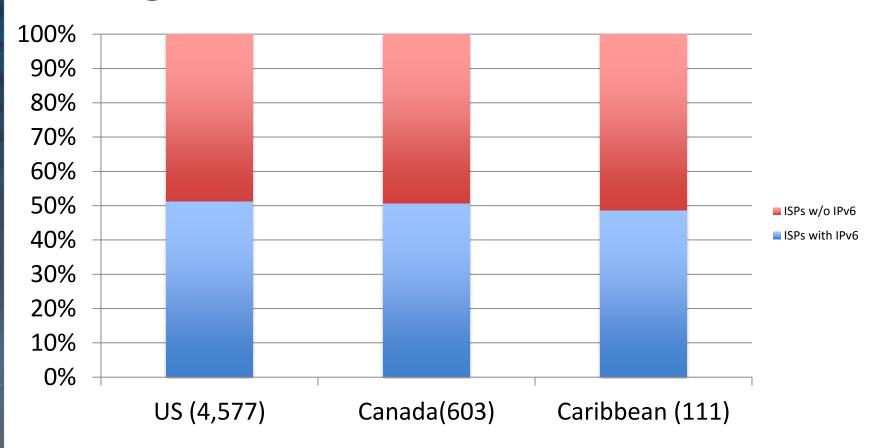
ISP Members with IPv4 and IPv6



*5,346 total members as of 30 June 2016



Regional ISP IPv6 Adoption





Learn More





www.GetIPv6.info

IPv6 Info Center

www.arin.net/knowledge/ipv6_i nfo_center.html



www.hpc.mil/cms2/index.php/ipv6-knowledge-base-general-info



www.InternetSociety.org/Deploy360



ARIN Public Policy and Member's Meetings

- 2 meetings per year held across region (Canada, Caribbean and US)
 - Past meetings in Barbados, Puerto Rico, the Bahamas, and most recently Jamaica
 - Fellowships available apply to attend, all expenses included
- Upcoming meetings in Dallas and New Orleans



ARIN on the Road

 One-day educational event that covers a range of topics



- Past events in Dominica and Grenada
- Looking for other Caribbean locations
 - Let us know if you'd like to see one in your area (email info@arin.net)



Caribbean Industry Events

ARIN also regularly participates in



in Puerto Rico this year!



most recently in the British Virgin Islands and St. Lucia



most recently in Jamaica & upcoming in St. Maarten



coming up next week in Belize

