

It's Time To Make The Move

Ray Plzak
President Emeritus

Agenda

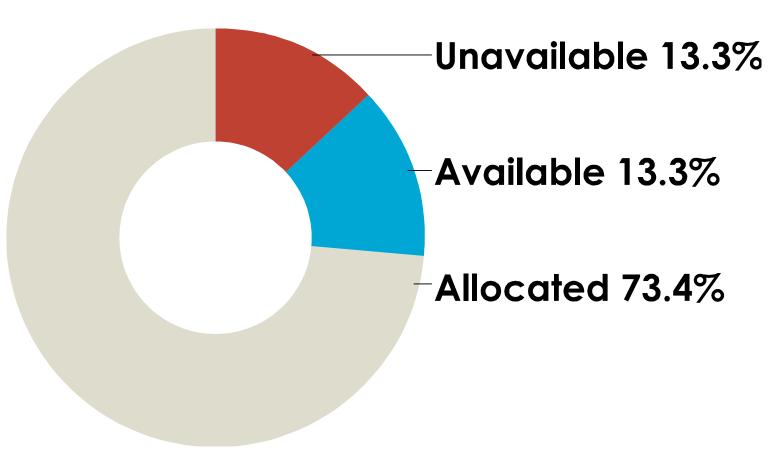
- IPv4 Depletion Trends
- Community Efforts
- Get Involved
- Q & A





Statistics

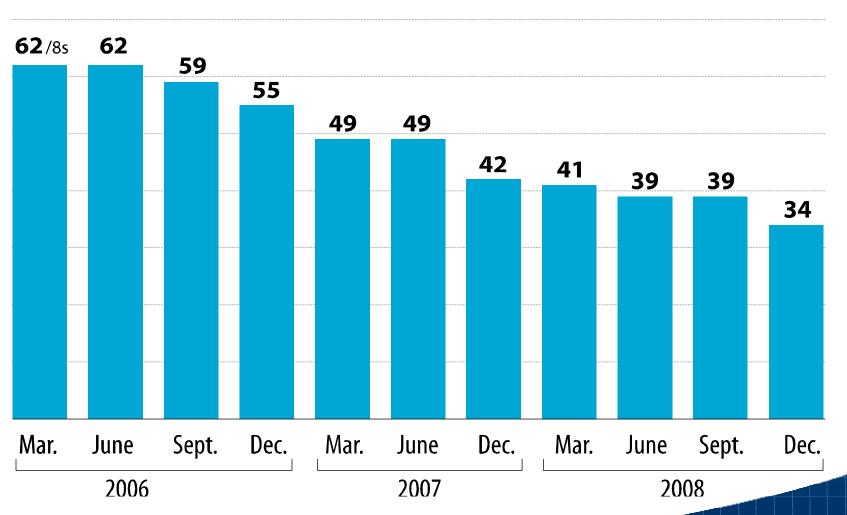
Available IPv4 /8s from IANA*



* as of December 31, 2008



Remaining IPv4 /8s from IANA





RIRs are consistently allocating over 12 /8s per year

RIRs collectively allocated over 12 /8s for the first time in 2007

Number of /8s remaining in IANA's unallocated pool:

34 *







Community Actions

What Else To Do?

Raise Public Awareness

Facilitate IPv6 Deployment

Implement IPv6 Accessible Services



ARIN Actions

Community Outreach

Educational Materials

Policy Actions

Public Policy Mailing List

Facilitate IPv6 Deployment



Board Resolution

Encourages transition to IPv6

Orders more scrutiny of IPv4 resource requests

Requests Advisory Council to consider policy changes

ARIN Board Advises Internet Community on Transition to IPv6

RIN and the other Regional Internet Registries have distributed Internet Protocol version 6, IPv6, alongaide

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IPv4 since IPv9. To date, ARIN has issued both protocol versions in tendem and has not advocated one over

the other. ARIN has closely monitored trends in demand and distribution for both protocol versions with the

understanding that the IPv4 available resource pool would continue to diministi.

The available IPv4 resource pool has now been reduced to the point that ARIN is compelled to advise the Internet community that transition to IPv6 is necessary for any applications that require ongoing availability from ARIN of contiguous IP number resources.

On 7 May 2007, the ARIN Board of Trustees passed the following resolution:

RESOLUTION OF THE BOARD OF TRUSTEES OF ARIN ON INTERNET PROTOCOL NUMBERING RESOURCE AVAILABILITY

WHEREAS, community access to Internet Protocol (IP) numbering Resources has proved essential to the successful growth of the Internet; and,

WHEREAS, ongoing community access to Internet Protocol version 4 (IPv4) numbering

WHEREAS, Internet Protocol version 6 (IPv6) numbering resources are available and suitable for many Internet applications,

BE IT RESOLVED, that this Board of Trustees hereby advises the Internet community that migration to IPv6 numbering resources is necessary for any optications which require ongoing availability from ARIN of contiguous IP numbering resources; and,

BE IT ORDERED, that this Board of Trustees hereby directs ARIN staff to take any and all measures necessary to assure veracity of applications to ARIN for IPv4 numbering resources; and,

BE IT RESOLVED, that this Board of Trustees hereby requests the ARIN Advisory Council to consider Internet Numbering Resource Policy changes advisable to encourage migration to IPv6 numbering resources where possible.

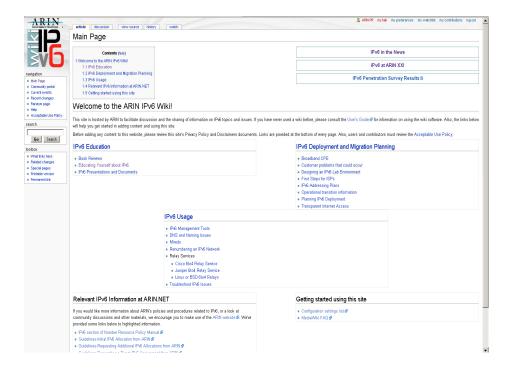
Implementation of this resolution will include both internal and external components. Internally, ARIN will review its resource request procedures and continue to provide policy experience reports to the Addisory Council. Externally, ARIN will send progress announcements to the ARIN community as well as the wider technical audience, government agencies, and media outlets. ARIN will produce new documentation, from basic introductory fact sheets to FAQs on how this resolution will affect users in the region. ARIN will focus on IPv6 in many of its general outreach activities, such as speeding engagements, trade shows, and technical community meetings.

Visit the IPv6 Information Center at www.arin.net/v6/v6-info.html, or visit the ARIN IPv6 wiki at www.getipv6.info.



ARIN IPv6 Wiki www.getipv6.info

- Facilitate
 discussion
 and information
 sharing on IPv6
- Includes realworld experience about adopting IPv6





RIR Actions

Allocation Policy Liberalization

Waiver of IPv6-related Service Fees

Training, Workshops, Projects

Recovering IPv4 Space



Government Actions

Awareness

Coordinate with Industry

Adopt Incentives

- Regulatory
- Economic

Support and Promote Activities

Officially Adopt IPv6



Transition Needs

IPv6 address space

IPv6 connectivity

Operating systems, software, and network management tool upgrades

Router, firewall, and other hardware upgrades

IT staff and customer service training





Get Involved

Policy Development Process

The regional community decides how ARIN will manage and administer Internet number resources.

Anyone may participate in the process.

The ARIN Board of Trustees ratifies policies only after:

- discussion on mailing lists and during biannual Public Policy meetings;
- the ARIN Advisory Council recommends adoption after finding consensus in favor of a proposal.



Policy Development Process

Participation includes:

- Subscribing to the Public Policy Mailing List (PPML) and joining in the discussions
- Attending Biannual Public Policy Meeting
 - Remotely via Webcast and Chat [www.arin.net]
 - In Person
- Submitting a policy proposal to create new policy or revise current policy



Draft Policies and Proposals Under Discussion

- 1. 2009-4: IPv4 Recovery Fund
- 2. 2009-3 (Global): Allocation of IPv4 Blocks to Regional Internet Registries
- 3. 2009-2: Depleted IPv4 reserves
- 4. 2009-1: Transfer Policy
- 5. 2008-7: Identify Invalid WHOIS POC's
- 6. 2008-3: Community Networks IPv6 Assignment



Markets - Recent Policy Discussion

NOW: Internet numbers are leased-based resources and recorded in a public database

Proposals (beginning in 2008) call for:

- Allowable transfers between registrants without requiring legal documentation
- Recognition of financial market for Internet number resources



Learn More and Get Involved

Learn more about IPv6

www.arin.net

www.getipv6.info

Get Involved in ARIN

Public Policy Mailing List

Attend a Meeting [Remotely or in Person]

ARIN XXIII, San Antonio, TX, USA 26-29 April 2009



Thank you!

For more information, see:

http://www.arin.net/media

