



ARIN Update

RIPE 66

Leslie Nobile
Director, Registration Services

2013 Focus

- **IPv4 Depletion & IPv6 Uptake**
 - Developing, adapting, and enhancing processes and procedures
 - IPv4 Depletion Plan
 - Continuing IPv6 outreach
 - IPv4 Transfers
- **Continued development and integration of web-based system (ARIN Online)**
- **Continuing migration from legacy systems by deploying new functionality**
- **RPKI deployment**
- **Continued participation in Internet Governance forums**

Current IPv4 Inventory



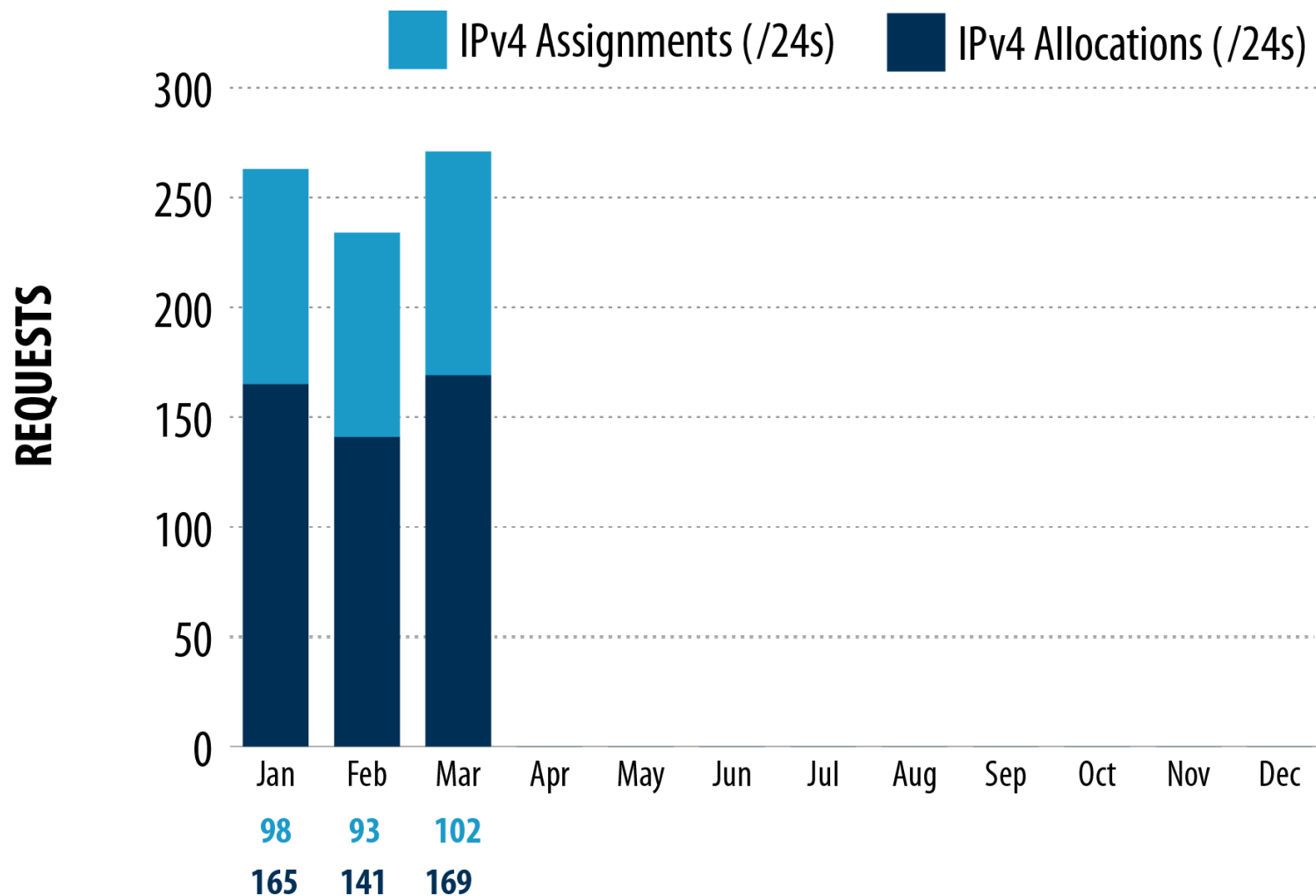
2.41 /8 equivalents
in the pool of
“available addresses”

~6 /16 equivalents in the “RRH” bucket
(RRH = returned, revoked, held)

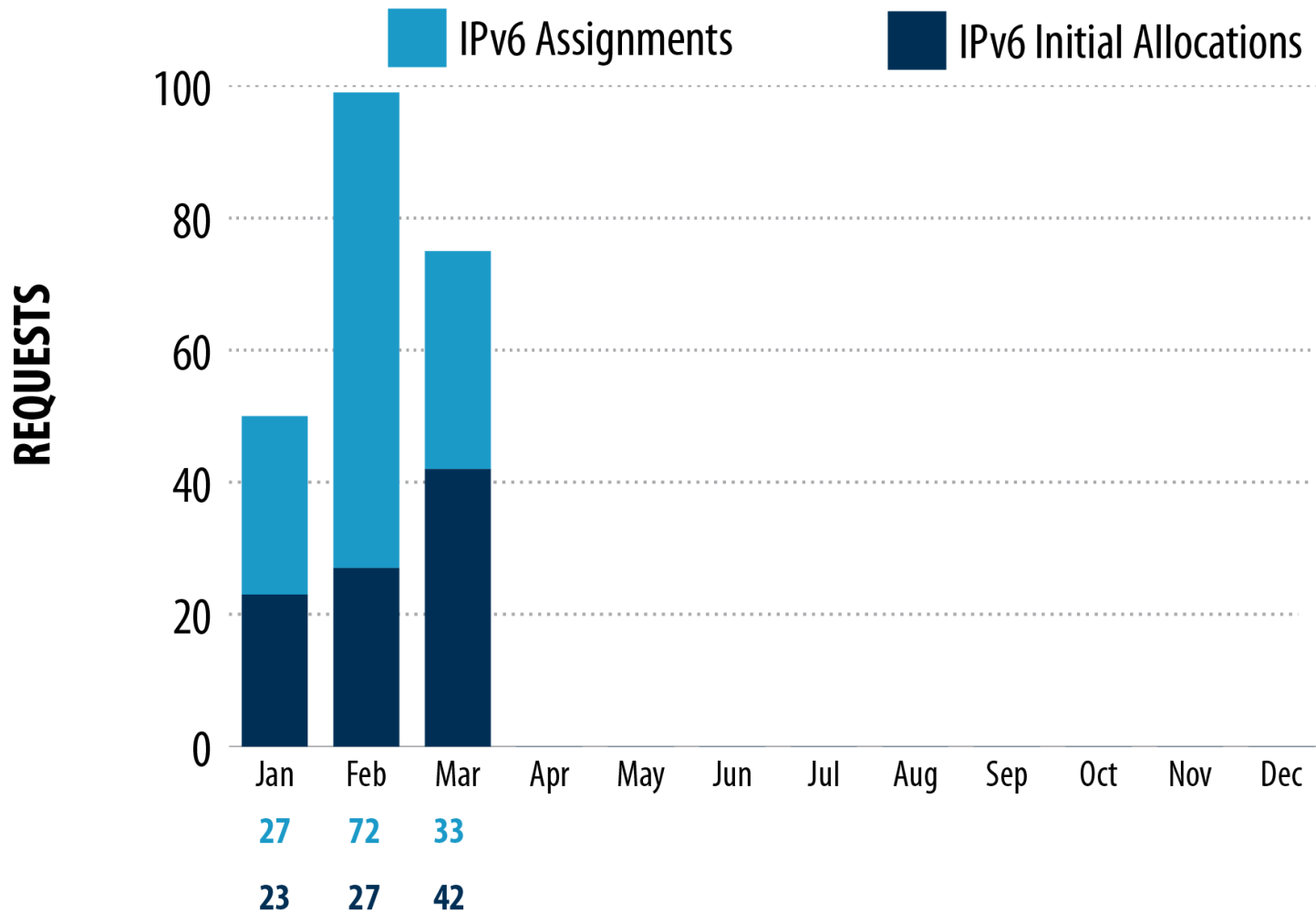
1 /10 reserved

- For NRPM 4.10 “Dedicated IPv4 block to facilitate IPv6 Deployment”

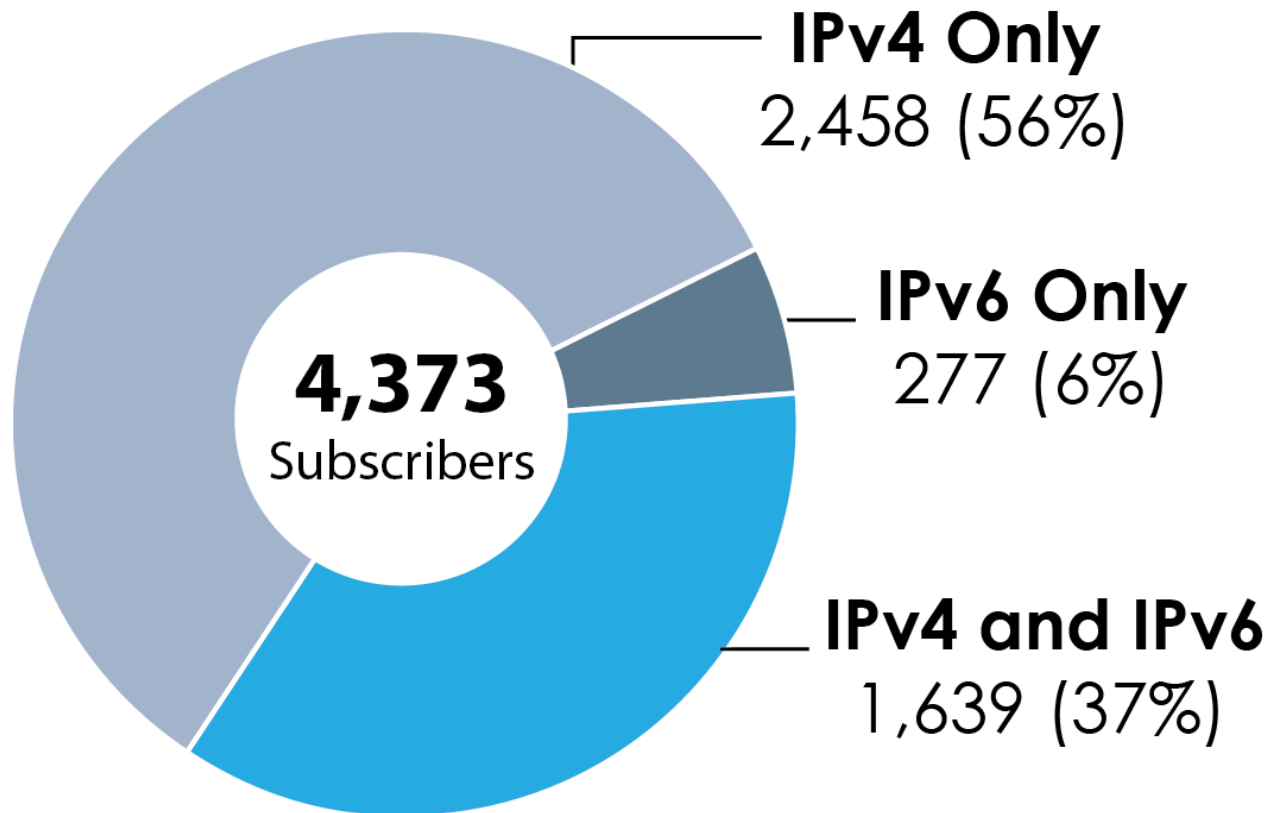
2013 IPv4 Address Space Issued (Assignments & Allocations)



2013 IPv6 Address Space Issued (Assignments & Allocations)



IPv4 vs IPv6 Subscribers



Recently Implemented Policies

ARIN-2012-5: Removal of Renumbering Requirement for Small Multihomers

End user /24 and /23s no longer need to renumber if they

ARIN-2012-7: Reassignments for Third Party Internet Access (TPIA) over Cable

Address space assigned to equipment is counted as utilized (smallest subnet that works, and 80% use for more)

ARIN-2012-6: Revising Section 4.4 C/I Reserved Pool Size

gTLDs may not draw from reserved C/I space, but can have a /23 from regular space

ARIN-2012-8: Aligning 8.2 and 8.3 Transfer Policy

Updated M&A transfer policy with criteria from the Transfers to Specified Recipient policy

ARIN Number Resource Policy Manual:

<https://www.arin.net/policy/nrpm.html>

Policy Proposals

ARIN-2012-2: IPv6 Subsequent Allocations Utilization Requirement

- Would allow ISPs to request IPv6 address space when their plans have changed and they need more
- Last call

ARIN-2013-1: Section 8.4 Inter-RIR Transfers of ASNs

- Would allow inter-RIR transfer of ASNs to RIRs that have a similar policy
- Needs more work

ARIN-2013-2: 3GPP Network IP Resource Policy

- Would expand current policy which requires a fixed line to a residence
- Needs more work

ARIN-2013-3: Tiny IPv6 Allocations for ISPs

- Would reduce allocation minimum from /36 to /40
- Abandoned

Text available at: <https://www.arin.net/policy/proposals/>

IPv4 Inter-RIR Transfers (NRPM 8.4)

205.166.177.0/24	APNIC	October 2012
198.180.142.0/24	APNIC	December 2012
199.43.18.0/23	APNIC	December 2012
199.43.45.0/24	APNIC	December 2012
199.43.63.0/24	APNIC	December 2012
204.75.142.0/24	APNIC	December 2012
157.250.64.0/18	APNIC	January 2013
132.147.64.0/18	APNIC	January 2013

[<https://www.arin.net/knowledge/statistics/transfers.html>](https://www.arin.net/knowledge/statistics/transfers.html)

Public Facing Development Efforts

- **Accomplishments**

- Hosted RPKI since Sep 2012
 - 15 Orgs as of 2/11/13
 - 41 ROA's as of 2/11/13
 - 61 Relying Parties
- Web-based Delegated RPKI as of 2/16/2013
- Integrated Payments
- Extended Statistics Reports that are now consistent with other RIR's
- Invoice Calculator

- **Upcoming Near-term Work**

- Automated Invoicing
- Up/Down work on Delegated RPKI
- Oracle to Postgres Conversion

Upcoming ARIN Meetings



