Post-IPv4 Depletion Observations

- The need for IPv4 is still great
  - More people seeking IPv4 space in the transfer market
  - Increase in specified and inter-rir transfers
- Seeing more attempted hijackings (mostly legacy space)
  - Important to keep resource and POC records up to date
- Starting to get more requests for /24s from the /10 block reserved for IPv6 deployment
- Hearing lots of questions and confusion around transfers, waiting list, pre-approvals and STLS

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Transfers of IPv4 Addresses

3 ARIN Transfer Policies Available:

– Mergers and Acquisitions (NRPM 8.2)
  - Traditional transfer based on change in business structure, including company reorganizations, supported by legal documentation

– Transfers to Specified Recipients (NRPM 8.3)
  - IPv4 market transfer based on financial transaction, supported by justified need (within region)

– Inter-RIR transfers to Specified Recipients (NRPM 8.4)
  - IPv4 market transfer based on financial transaction, supported by justified need (outside region)

Transfers to Specified Recipients (NRPM 8.3)

- Allows orgs with unused IPv4 resources to transfer them to orgs in need of IPv4 resources

- **Source**
  - Must be current registrant, no disputes
  - Not have received addresses from ARIN for 12 months prior

- **Recipient**
  - Must demonstrate need for 24-month supply under current ARIN policy
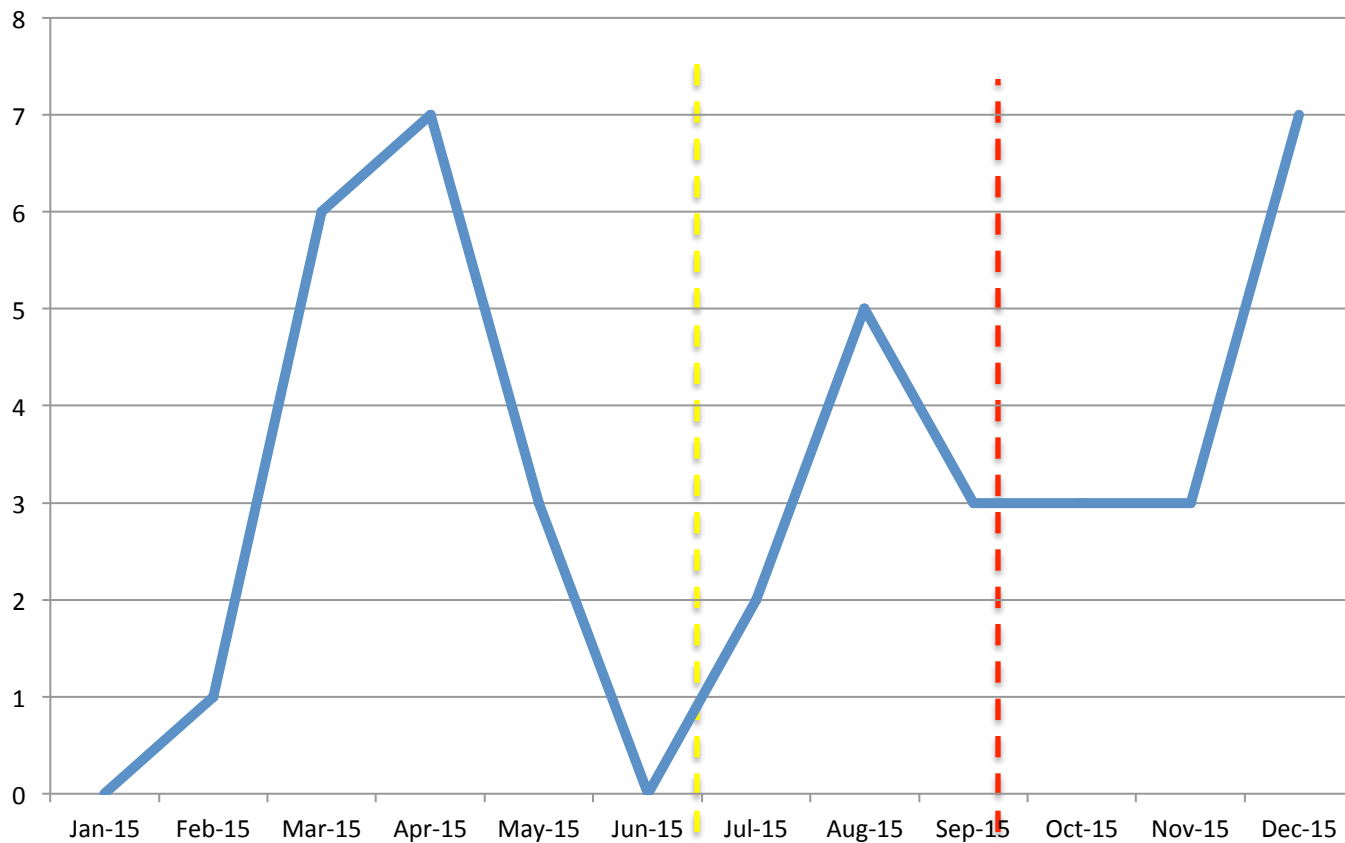
Specified Recipient Transfers
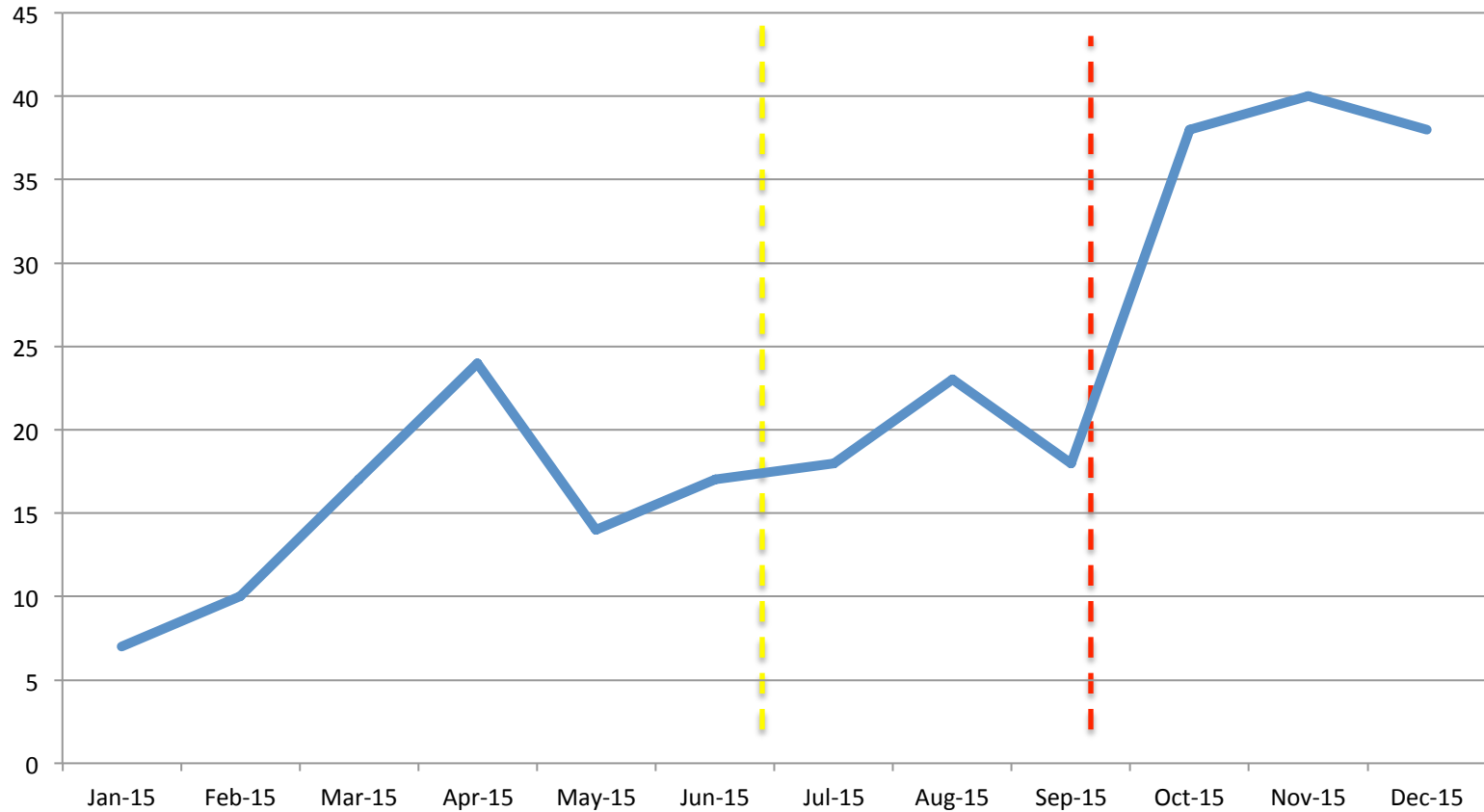
------ = waiting list initiated
------ = IPv4 depletion

Inter-RIR Transfers (NRPM 8.4)

- RIR must have reciprocal, compatible needs-based policies
  - Currently APNIC and RIPE NCC
- **Transfers from ARIN**
  - Source cannot have received IPv4 from ARIN 12 months prior to transfer
  - Must be current registrant, no disputes
  - Recipient meets destination RIR policies
- **Transfers to ARIN**
  - Must demonstrate need for 24-month supply under current ARIN policy

Inter-RIR Transfers

------- = waiting list initiated
------- = IPv4 depletion
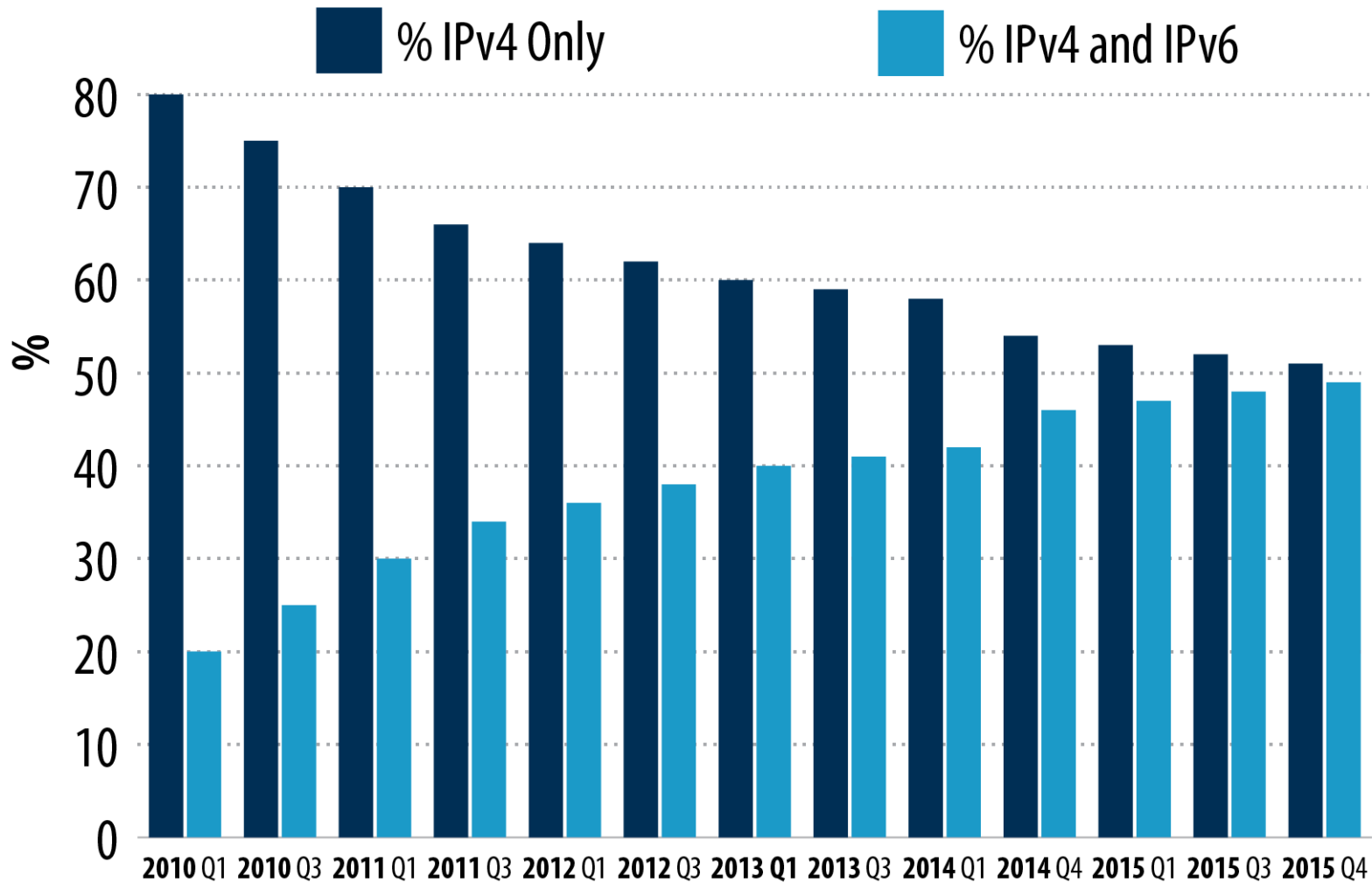
IPv4 Resources Transferred (8.3 & 8.4)

- **Transfers to Specified Recipients (8.3)**
  - 452 prefixes, ranging from /24s to a /10
    - In July 2015 this was 170 prefixes
  - 23 ASNs
- **Inter-RIR Transfers (8.4)**
  - 201 prefixes, from /24s to /13s
    - In July 2015 this was 45 prefixes to APNIC
    - 188 ARIN to APNIC
    - 10 ARIN to RIPE NCC
    - 3 APNIC to ARIN

https://www.arin.net/knowledge/statistics/transfers.html

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Reserved IPv4 Block for IPv6 Deployment

- /10 reserved under policy in April 2009 (23.128.0.0/10)
  - 12 /24s issued to date

- Must be used to facilitate IPv6 deployment
  - Examples include IPv4 addresses for key dual stack DNS servers, and NAT-PT or NAT464 translators

- You must already have your IPv6 allocation or assignment in order receive a /24 from this block

- One per organization every six months, /24 maximum size

- Should be enough to last several years
  - Good interim option if IPv4 needs are small

ISP Members with IPv4 and IPv6

- % IPv4 Only
- % IPv4 and IPv6

5,284 total members as of 31 January 2016

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