

IPv4 Final Distribution

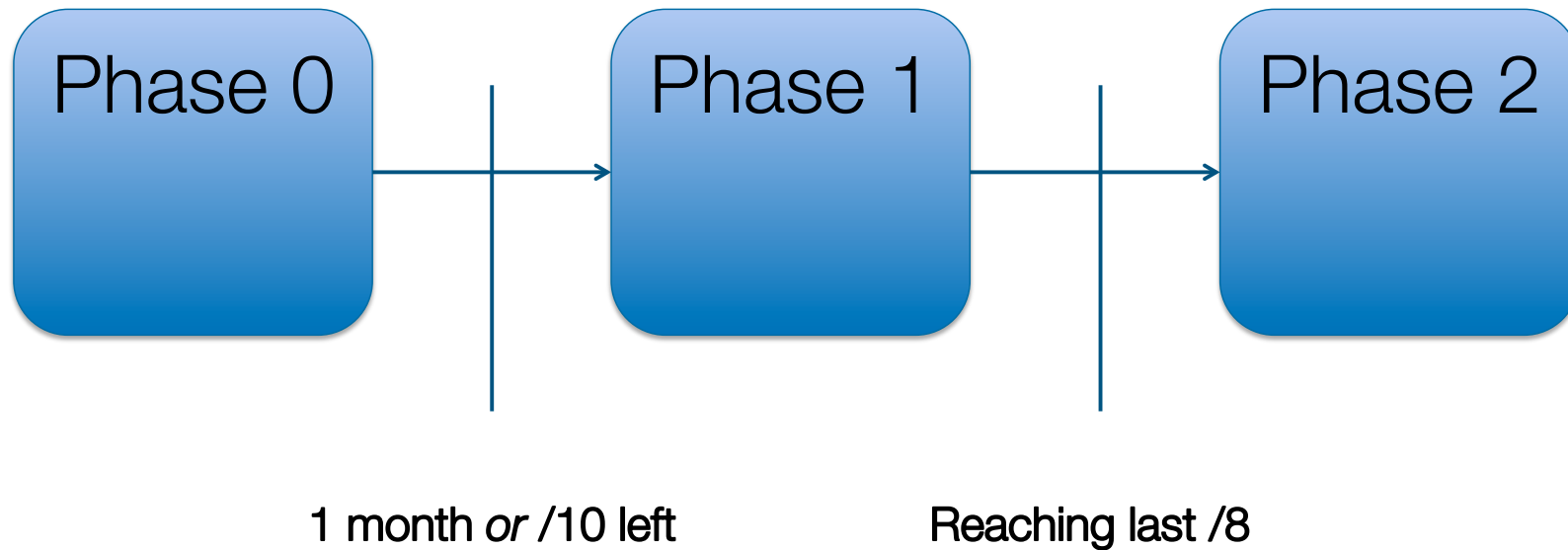
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Registration Services



Current Situation

- IANA depleted its available pool of IPv4 address space in February 2011
- APNIC reached the last /8 in April 2011
- RIPE NCC reached the last /8 on 14th September 2012

Phased Approach



Phase 0

- Due Diligence
 - Escalation evaluation process for large requests
 - Two IP Resource Analysts (IPRAs)
 - The Registration Services Manager
 - The Policy Development Officer
 - Two Senior Managers
 - New and ongoing requests for IPv4 space routed to a dedicated ticket queue

Phase 0

- Transparency
 - IPv4 graphs on www.ripe.net
 - IPv4 available pool
 - Number of requests for IPv4 addresses in the wait queue
 - Number of hours a request for IPv4 addresses is waiting for a reply
 - Informed all requesters, members and potential members of the current situation

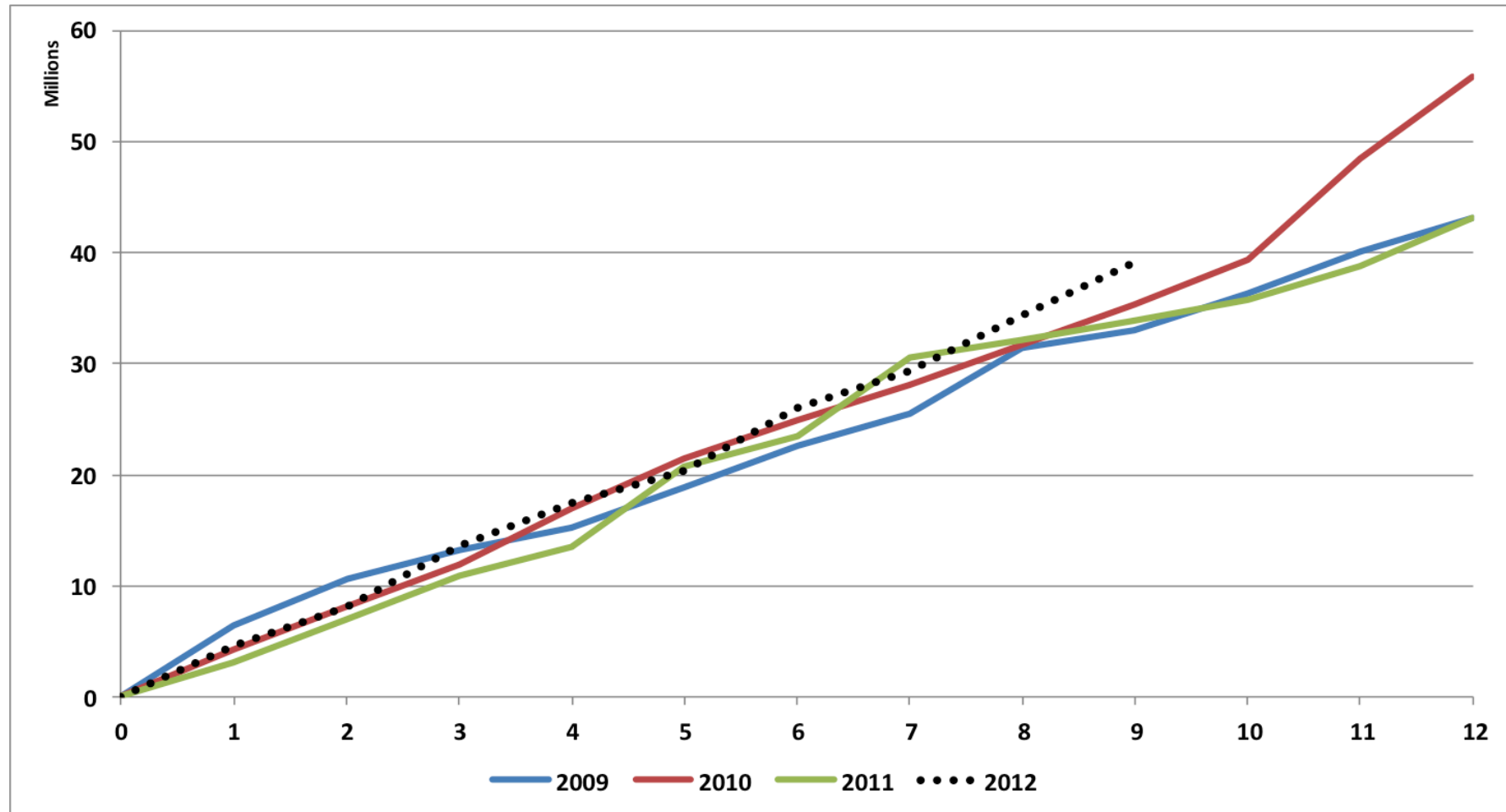
Phase 1

- Started on 4th September 2012
- When 1 month *or* a /10 left of IPv4 address space available
- Due Diligence
 - IPRAs working in pairs
 - Fairness, consistency
 - Approvals artificially delayed until 9:00 next morning
 - Allowed for additional checks

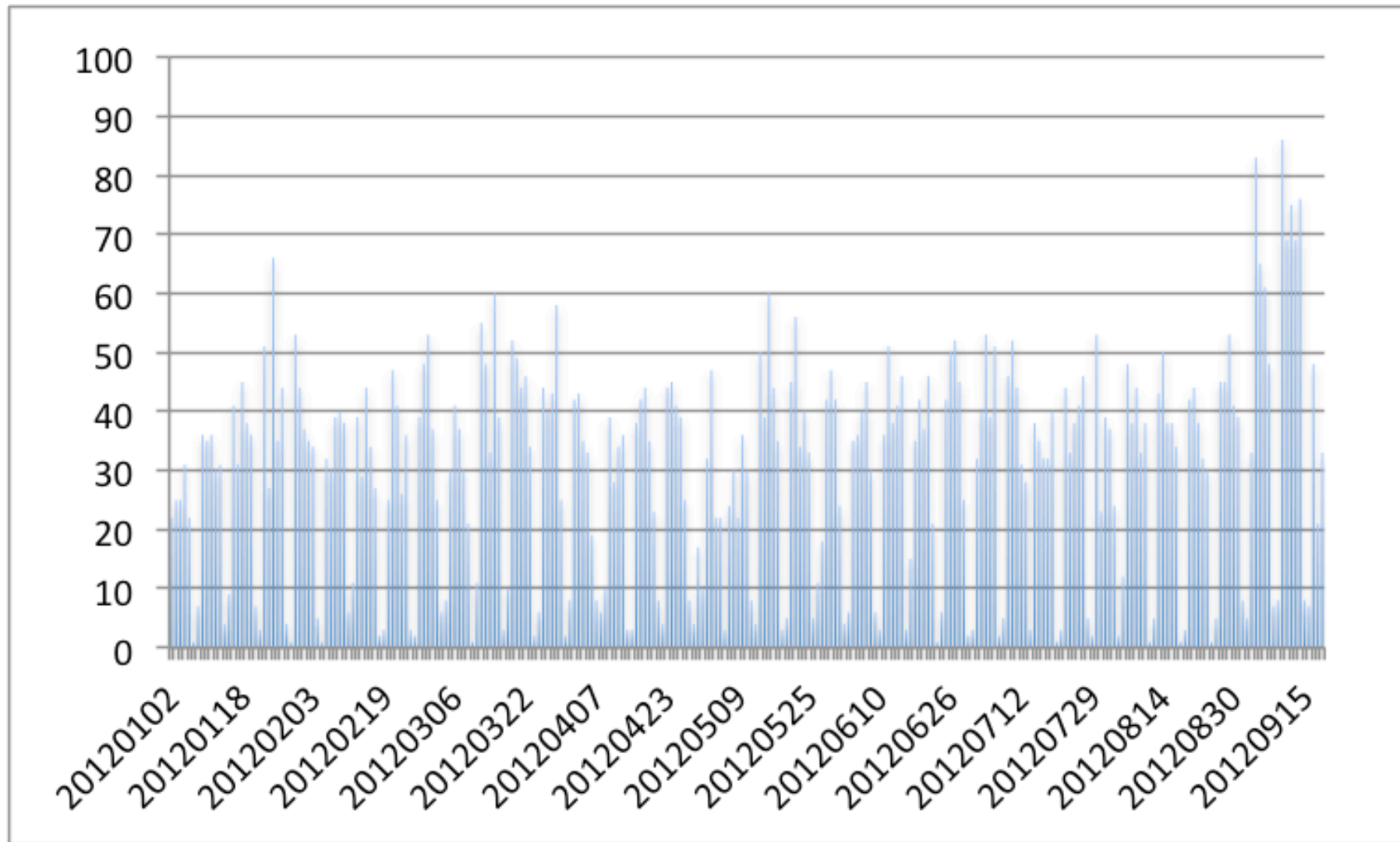
Phase 2

- Started on 14th September 2012
- When the RIPE NCC reached the last /8
- Members can receive **one** /22 (1,024 IPv4 addresses), even if they can justify a larger allocation
 - LIRs must already have an IPv6 allocation from an upstream LIR or the RIPE NCC
- No new IPv4 Provider Independent (PI) address space is being assigned

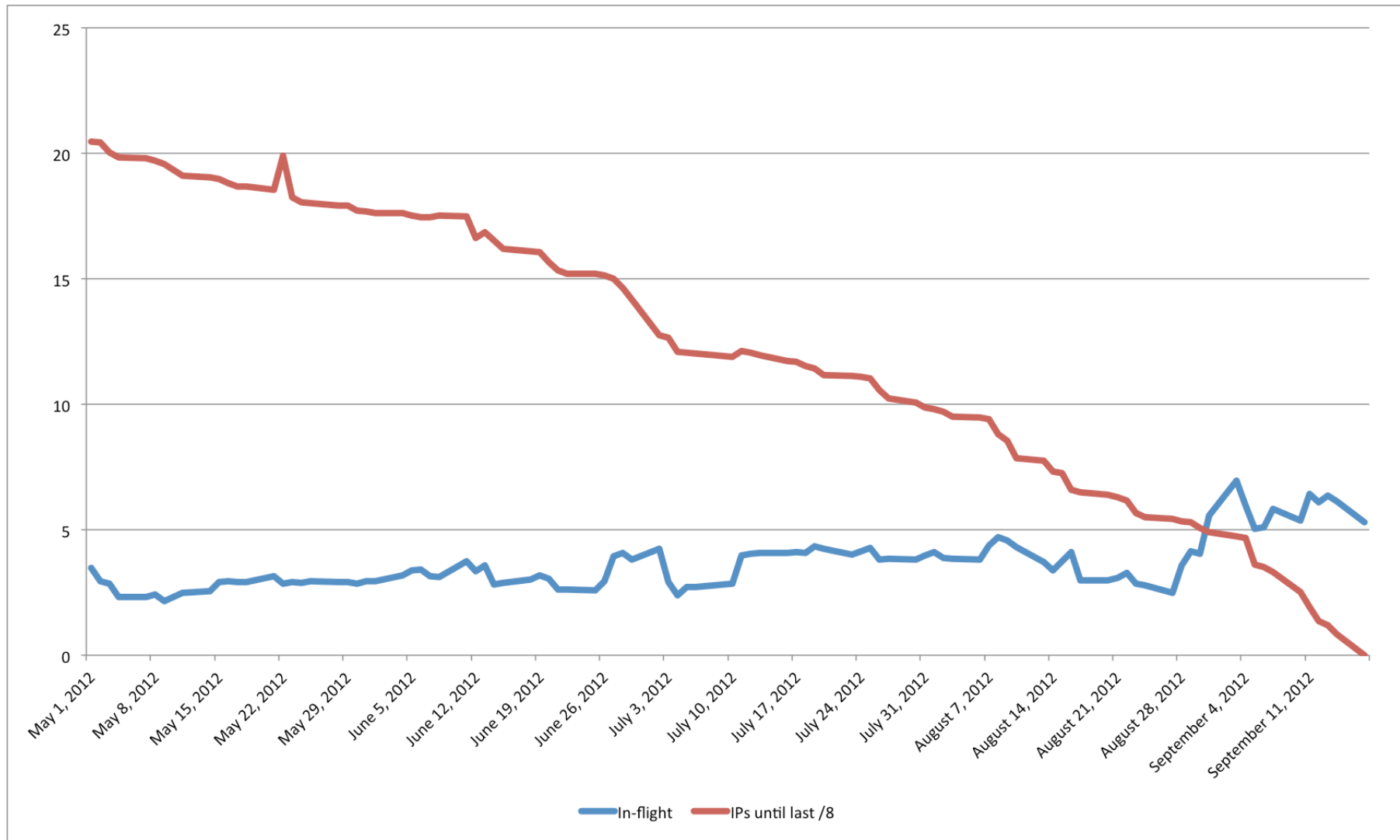
Cumulative IPv4 Address Space



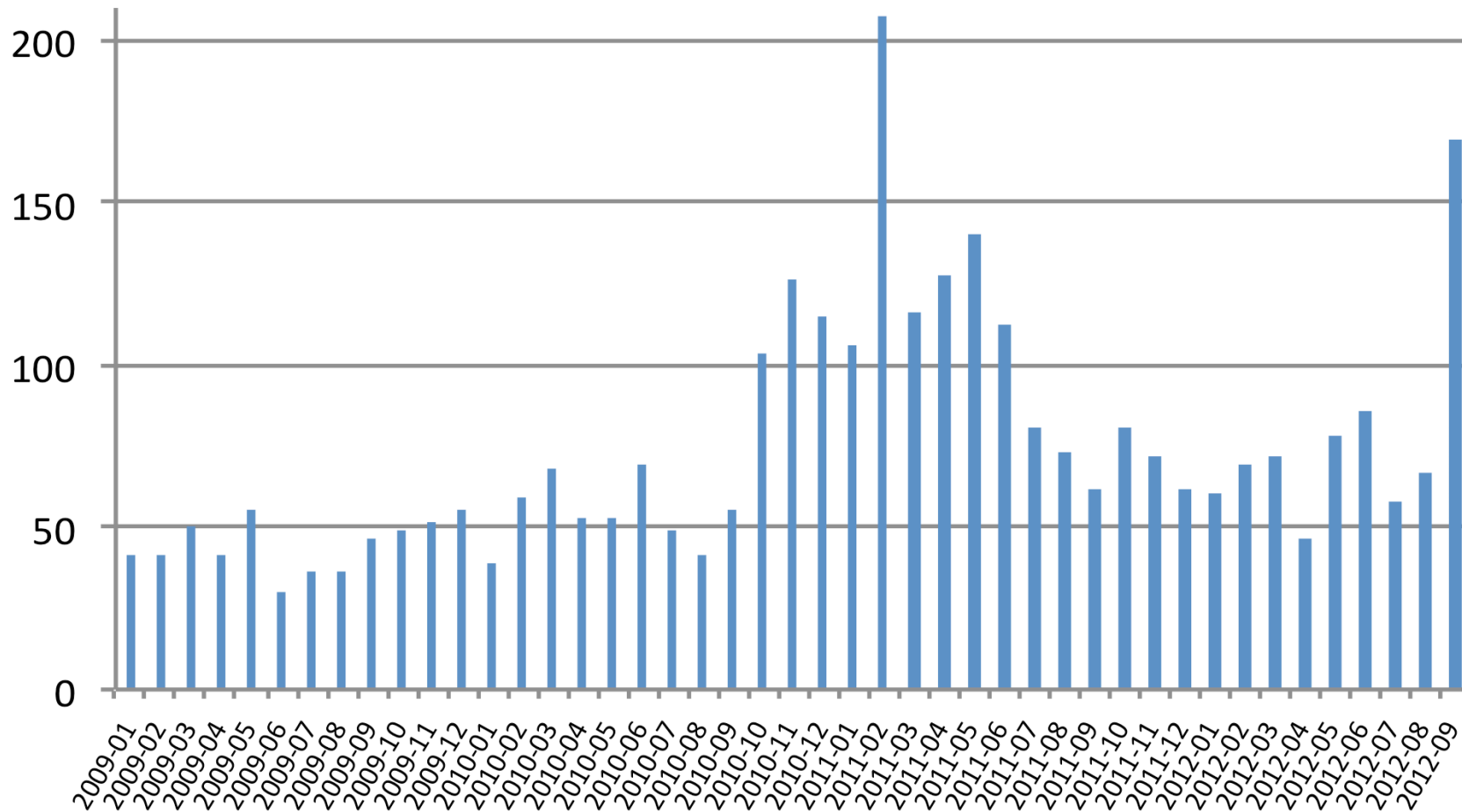
New IPv4 Requests



Requested Vs. Available IPv4 Addresses



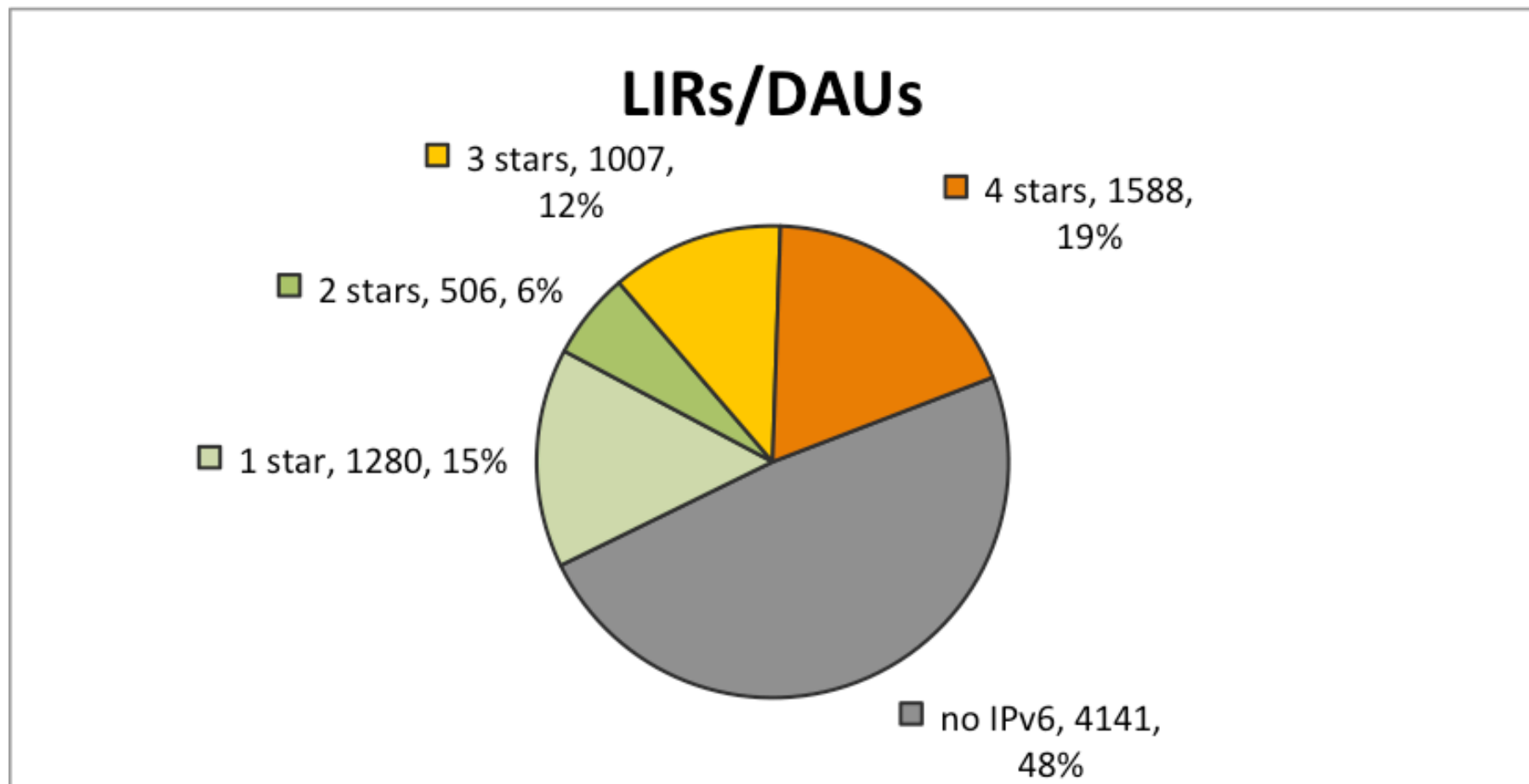
IPv6 Allocations per month



IPv6 (RIPEness) deployment

- Rating system:
 - One star if the LIR has an IPv6 allocation
- Additional stars if:
 - A route6 object is in the RIPE Database
 - Reverse DNS is set up
 - IPv6 Prefix is announced
- A list of all 4 star LIRs: <http://ripeness.ripe.net/>

IPv6 RIPEness: 8522 LIRs



Questions?

