RSD Team

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Recent Trends

- IPv4:
  - **No measurable increase in total space issued**
  - **Slight increase in requests, particularly end user**
- Transfers:
  - **No measurable increase in requested transfers**
- IPv6:
  - **Slight increase in IPv6 ISP requests, decrease in end user**
- ASNs:
  - **Slight increase in total ASNs issued**
    - 32 4-byte ASNs issued, none returned

Recent Trends…

- POCs of legacy resources registered to companies dissolved long ago requesting to transfer these resources; not always clear they are authorized

- Increase in out of region requests from both APNIC and RIPE regions

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Customer Transaction Survey Results

Overall, how satisfied were you with the entire request process?
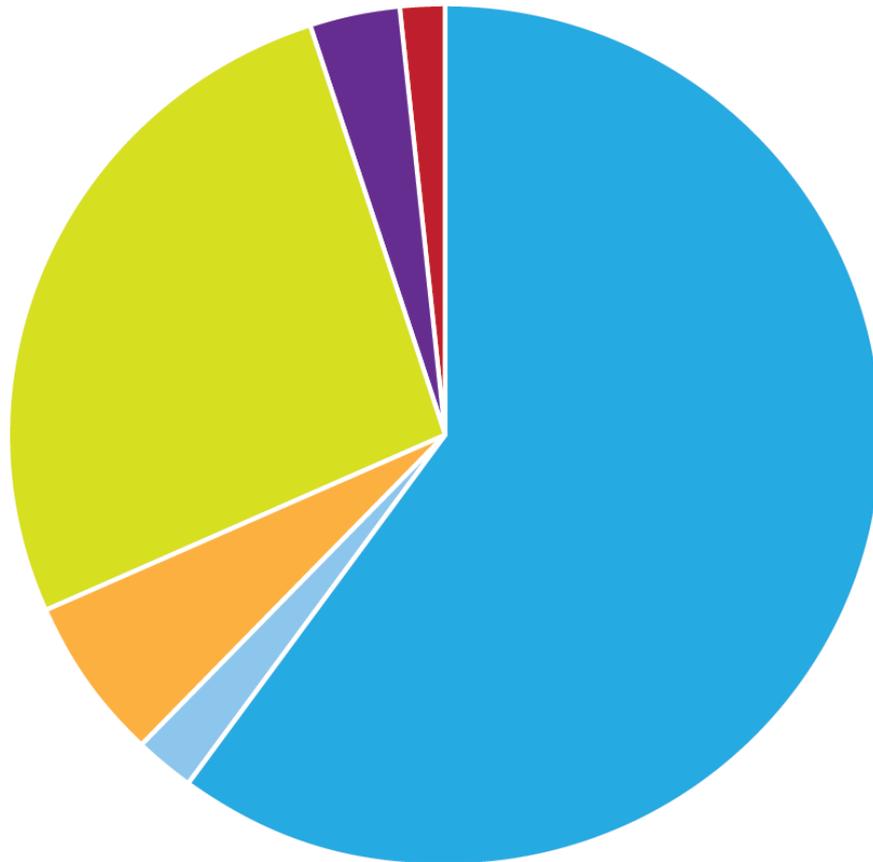
Very Satisfied

Satisfied

Somewhat Satisfied

Somewhat Dissatisfied

Dissatisfied

Very Dissatisfied

*93.1% were either very satisfied, satisfied or somewhat satisfied

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Current IPv4 Inventory

ARIN IPv4 SPACE AVAILABLE
1.74
/8s IN AGGREGATE

1.74 /8 equivalents in the pool of available addresses

7.02 /16 equivalents in the "RRH" bucket (number fluctuates)

(RRH = returned, revoked, held)

1 /10 reserved

For NRPM 4.10 "Dedicated IPv4 block to facilitate IPv6 Deployment"

*As of Oct 1, 2013

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Block Size Distribution of Remaining IPv4 Inventory

Total /8: 1
Total /10: 2
Total /13: 2
Total /14: 2
Total /15: 1
Total /16: 9
Total /17: 11
Total /18: 16
Total /19: 24
Total /20: 10
Total /21: 97
Total /22: 72
Total /23: 623
Total /24: 1372

- **When Might ARIN break into the last /8?**

  - ~.74 /8 equivalents remaining not including the last /8
  - Based on current issuance rates of blocks /22 and larger, It could be 6-7 months before we need to break up the last /8
    - Dependent upon the number of larger prefixes issued

  https://www.arin.net/resources/request/ipv4_countdown.html

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ARIN's IPv4 Countdown Plan

- Defined process for final IPv4 requests, divided into 4 phases
  - **Currently in Phase 3; will move into Phase 4 once ARIN has one /8 equivalent remaining**
    - First in, first out
    - All IPv4 requests team reviewed
    - Hold period for recovered resources moves to 30 days
    - 60 days from approval to complete payment and RSA

https://www.arin.net/resources/request/ipv4_countdown.html

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Recovered Resources

Year	IPv4 blocks (/16 equivalents)		ASNs	
2007	101.2	(85% returns)	1552	(12% returns)
2008	178.6	(87% returns)	704	(28% returns)
2009	133.10	(86% returns)	462	(40% returns)
2010	44.5	(49% returns)	1446	(32% returns)
2011	284.4	(96% returns)	365	(39% returns)
2012	7	(45% returns)	852	(41% returns)
2013*	4.4	(4% returns)	390	(33% returns)

*As of Sep 30, 2013

Common Problems with Resource Requests

- First time requestors don't have IPs reassigned (swipped) to them by their upstream(s)

- /24s being requested for anycast/multi-homing requirements with no host counts to support the request (no policy to support this)

- Not multi-homed or won't be for many months, want IP addresses in advance in order to be ready to deploy
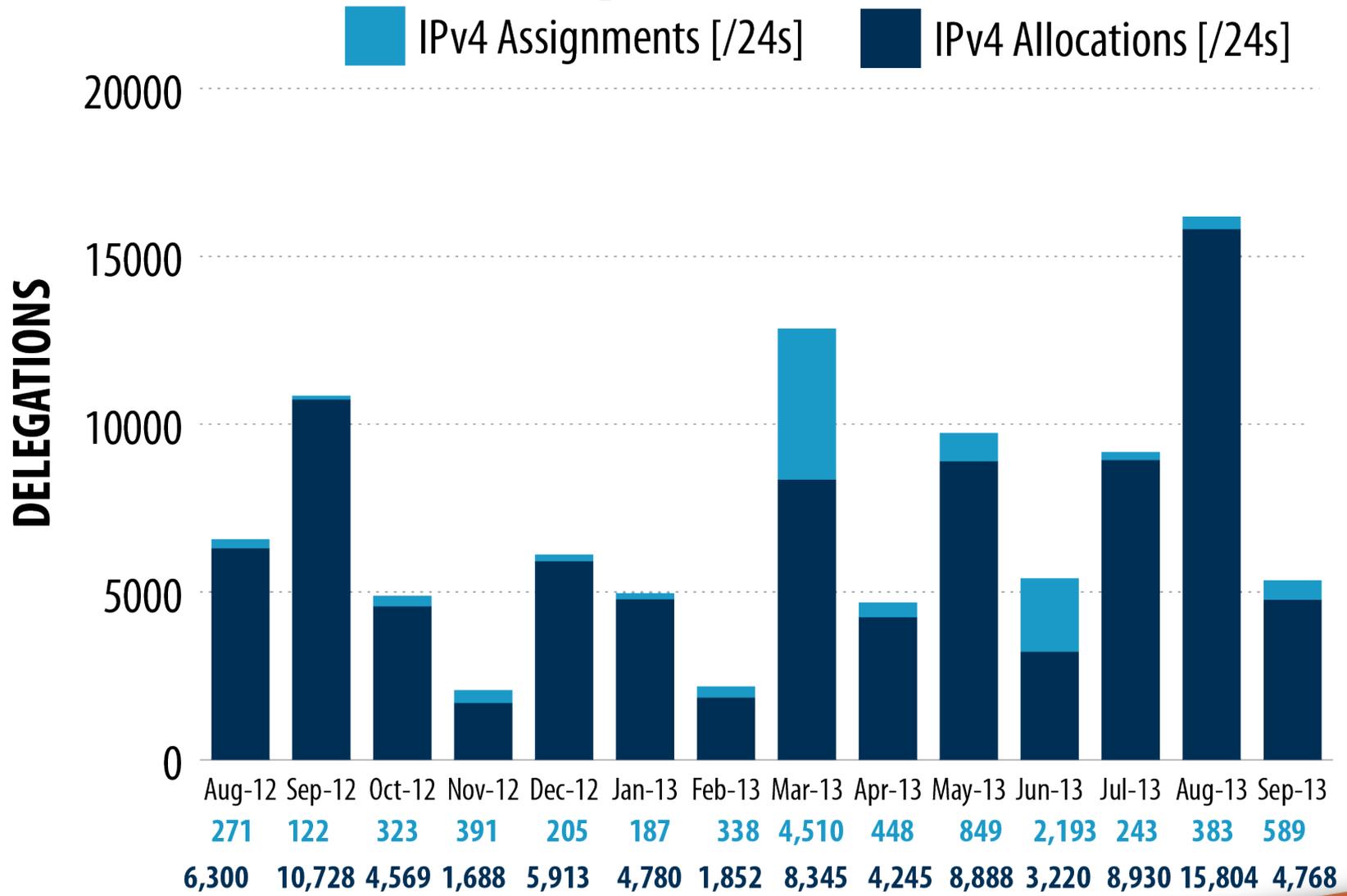
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Common Problems…

- Block size requested is larger than justified for three month need based on demonstrated historical utilization rate

- Customer justification data not well understood (they would like a standard form)

- Don't want to provide customer information due to privacy concerns

- Customers want their requests expedited

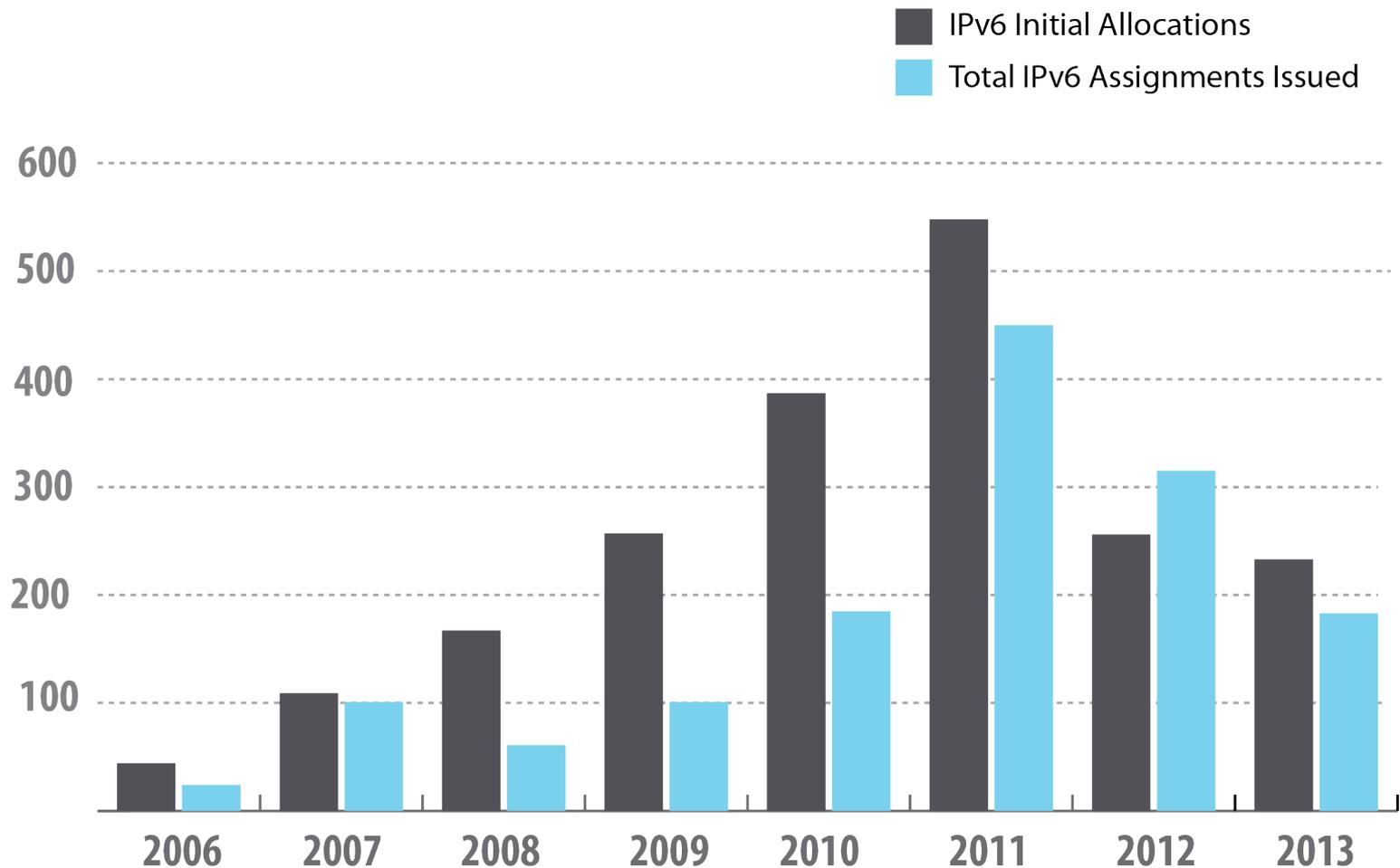aRiN 32

Phone Stats
(Jan-Sept 2013)

- Phones staffed **7am to 7pm ET**
- Average # of calls per month: **776**
- Highest call volume time: **2:00 – 3pm**
- Lowest call volume time: **7:00 – 8am**
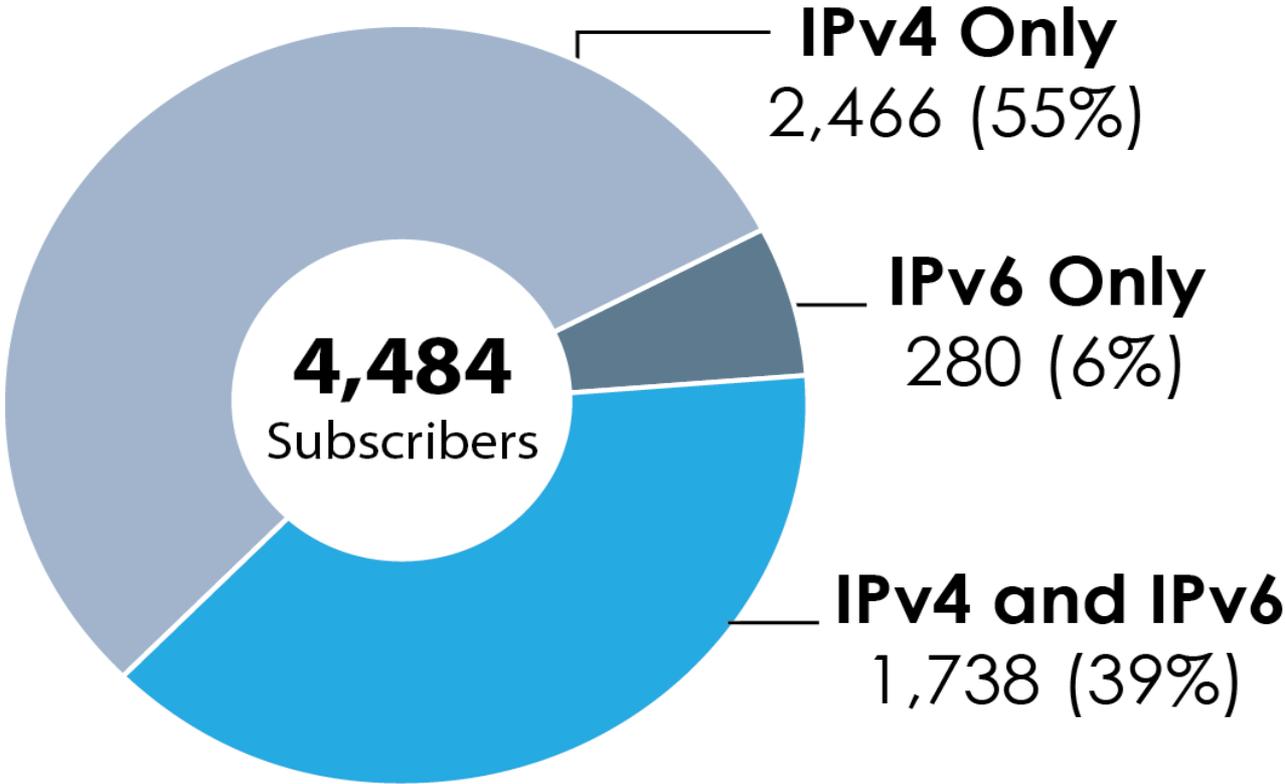- Busiest call day of the week: **Tuesday**
- Least busy day: **Friday**

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IPv4 Space Issued

Legend: ▇ IPv4 Assignments [/24s] ▇ IPv4 Allocations [/24s]

	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13
Assignments	271	122	323	391	205	187	338	4,510	448	849	2,193	243	383	589
Allocations	6,300	10,728	4,569	1,688	5,913	4,780	1,852	8,345	4,245	8,888	3,220	8,930	15,804	4,768

*1.07 /8s issued as of Sept 30, 2013

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IPv6 Space Issued

IPv6 Initial Allocations
Total IPv6 Assignments Issued

*2013 data through Sept 30

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IPv4 vs IPv6 Subscribers

IPv4 Only
2,466 (55%)

IPv6 Only
280 (6%)

4,484
Subscribers

IPv4 and IPv6
1,738 (39%)

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8.3 (Specified) & 8.4 (Inter-RIR) Transfers

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

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