# RIPE NCC Update

Jochem de Ruig – Chief Financial Officer

# Contents

- Membership developments

- Legal and Corporate governance

- Member feedback

- RIPE NCC Services

- Cooperation and outreach

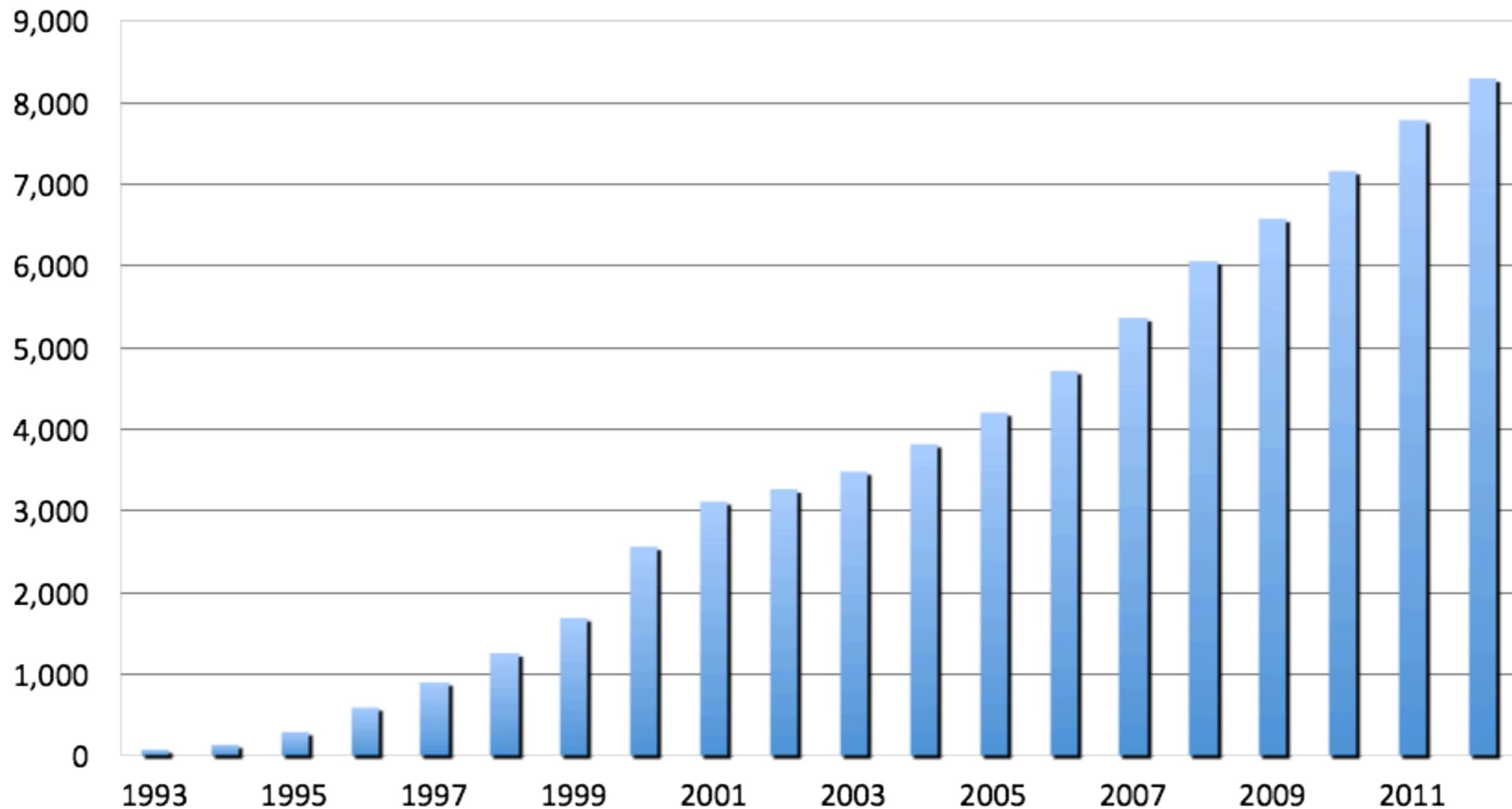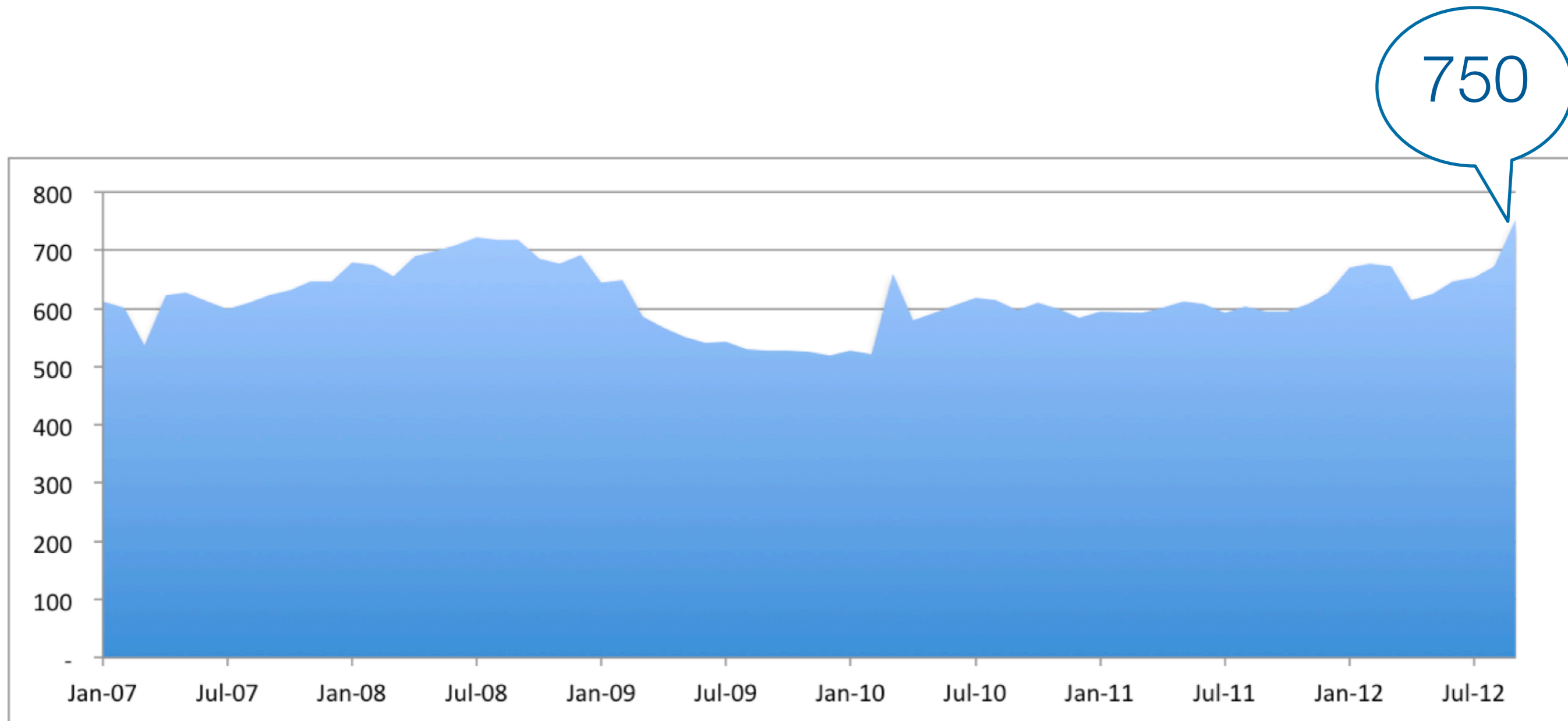- RIPE NCC Charging Scheme 2013 and administration

# Contents

- Membership developments

# Membership Development

## Total number of members 8,386

# Members development 2007 - 2012

# RIPE NCC members in ENOG region

## Members 8,386 +10%; growth ENOG region+1%

# Contents

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# RIPE NCC members with Multiple LIRs

- After carrying out regular due diligence audit, we found that some legal entities are responsible for multiple LIRs

- This means these entities have multiple memberships and thus multiple voting rights

- Under Dutch Civil Law a legal entity can only have *one voting right in an association*

- *Affected members have been contacted*

- *Policy implications on use of last /8*

# Dutch Police Order Update

- On 8 November 2011, Dutch police presented an order to "lock" registrations in the RIPE DB

- RIPE NCC is seeking clarification on the legal basis

    – Hearing 29 November

    – Decision in 2013

- Two affected blocks of IPv4 address space were de-registered after non-payment

- These blocks were then re-allocated in August, according to procedures
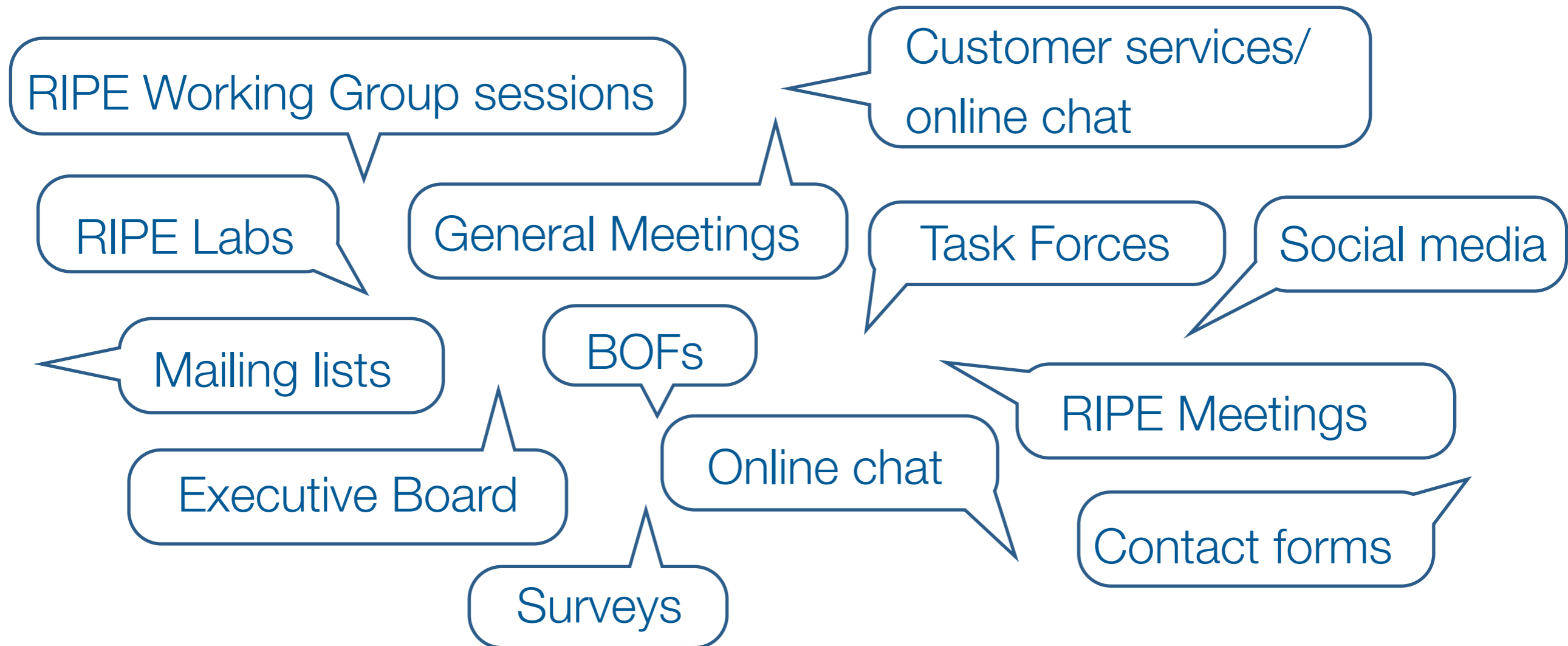
RIPE NCC

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# Feedback Mechanisms

- Multiple feedback mechanisms include:

RIPE Working Group sessions

Customer services/ online chat

RIPE Labs

General Meetings

Task Forces

Social media

Mailing lists

BOFs

RIPE Meetings

Executive Board

Online chat

Contact forms

Surveys

- Tailored for different sectors of the community...

# Customer Contact

- 3-Question post-contact survey since January
  - 93 responses, 83% of customers satisfied



Chat with Customer Services
LIVE CHAT
Click to launch in new window

- Live Chat from 13:00 to 17:00 CET
  - doubled availability
  - very happy customers (5 out of 5 stars)
  - 314 sessions since August 2011

- Live chat for Registration Services in Q1 2013

# Membership and Stakeholder Survey (1)

- Membership and Stakeholder Surveys give **valuable** feedback: 825 respondents in 2011

- Enables us to gauge membership and key stakeholders' opinions to help formulate long-term organisation strategy

- 2011 survey identified more than 50 key areas that we could improve on

- Over the last 12 months we have been actively working to improve these key areas and will publicly document these developments shortly

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# Membership and Stakeholder Survey (2)

- Now planning to conduct surveys approximately every two years
  - In loose coordination with APNIC

- Dynamic nature of the industry and speed of developments
  - Membership community and other stakeholder groups change regularly

- Preparing for our next survey
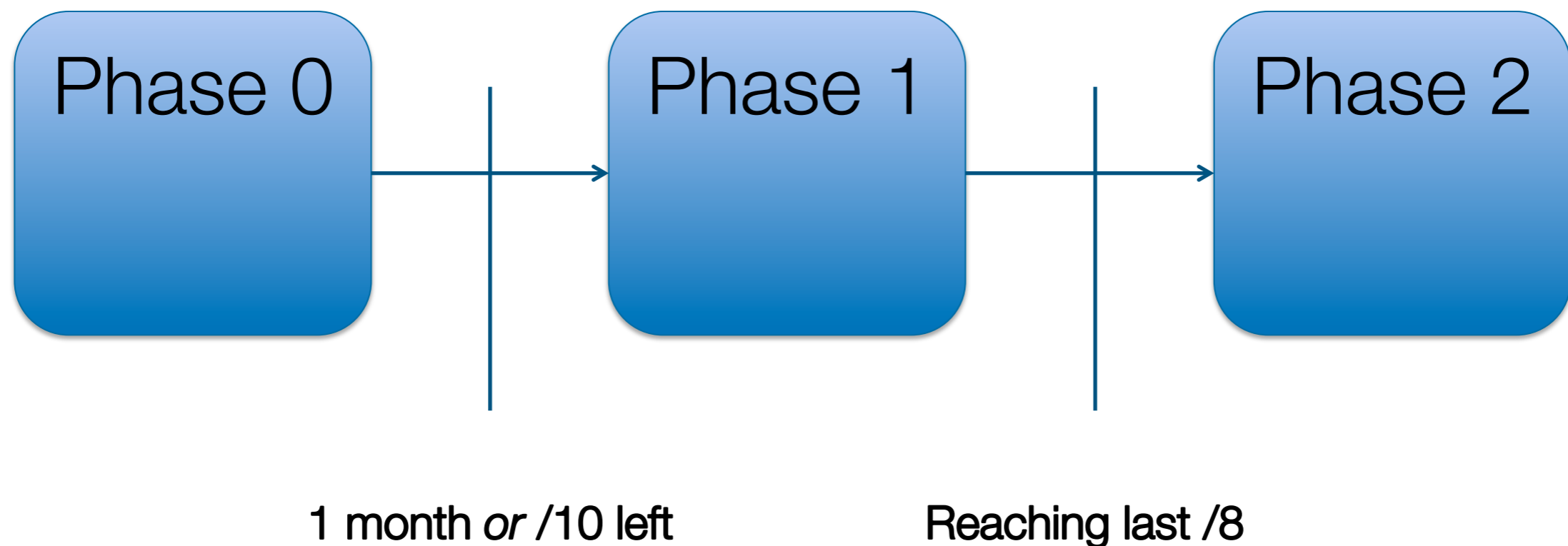  - to be launched at the RIPE 66 Meeting, Dublin, May 2013

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# IPv4 run out - Phased Approach

| Phase 0 | | Phase 1 | | Phase 2 |
|---------|---|---------|---|---------|

1 month *or* /10 left          Reaching last /8

# IPv4 run out - 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
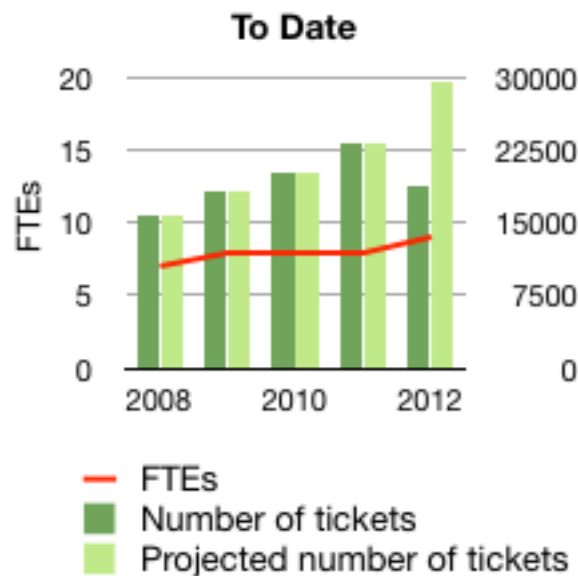
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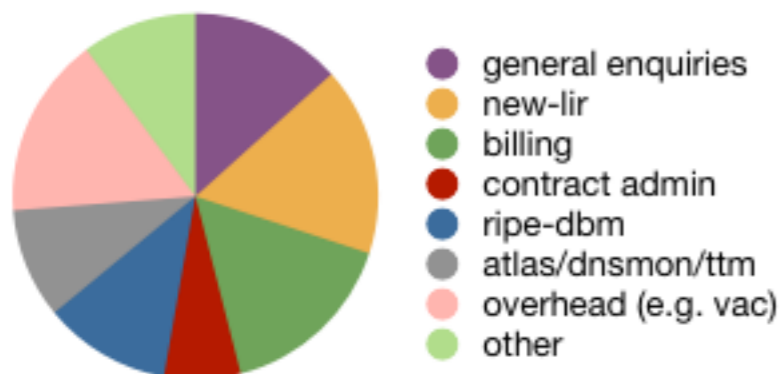# New IPv4 Requests
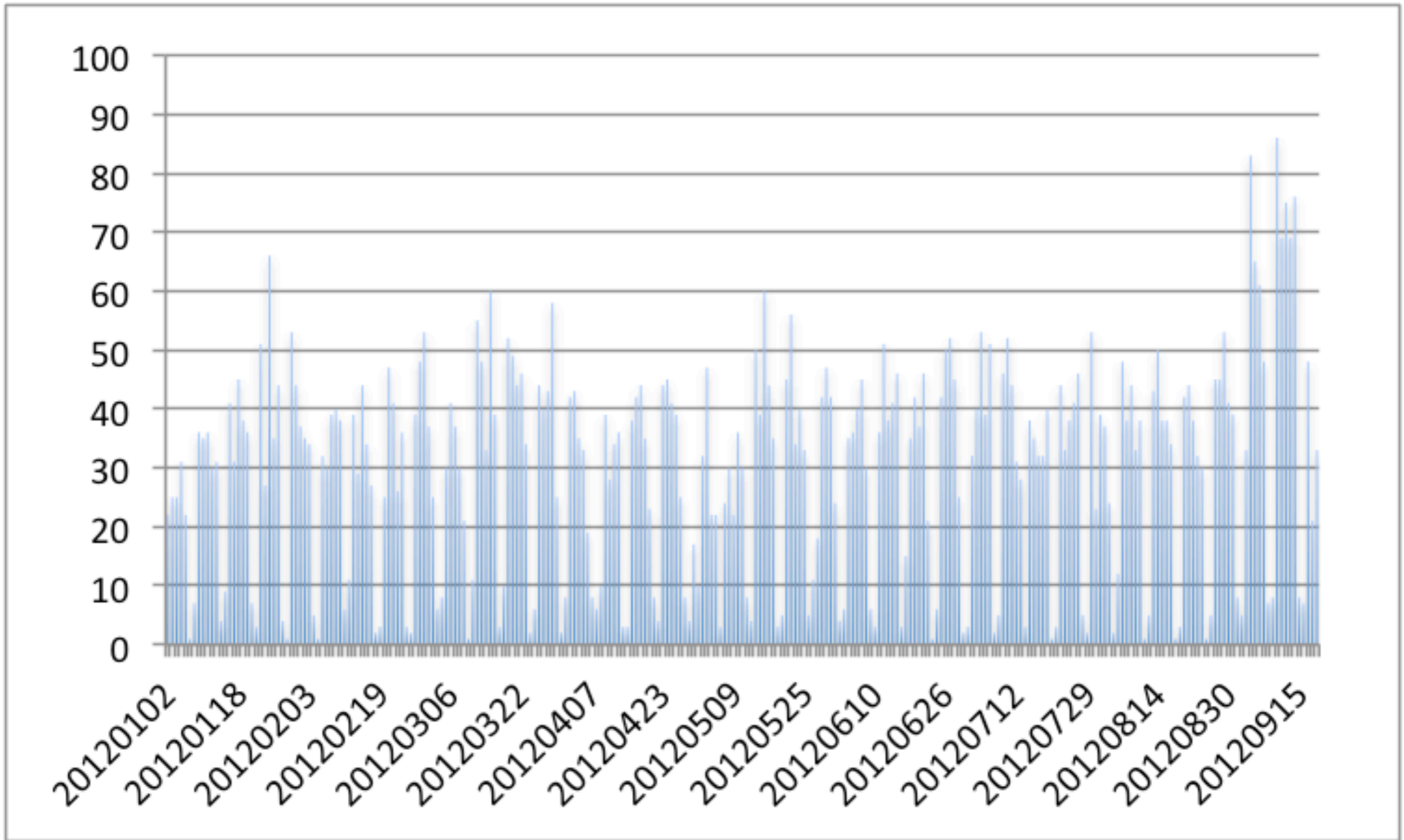
# Cumulative IPv4 Address Space
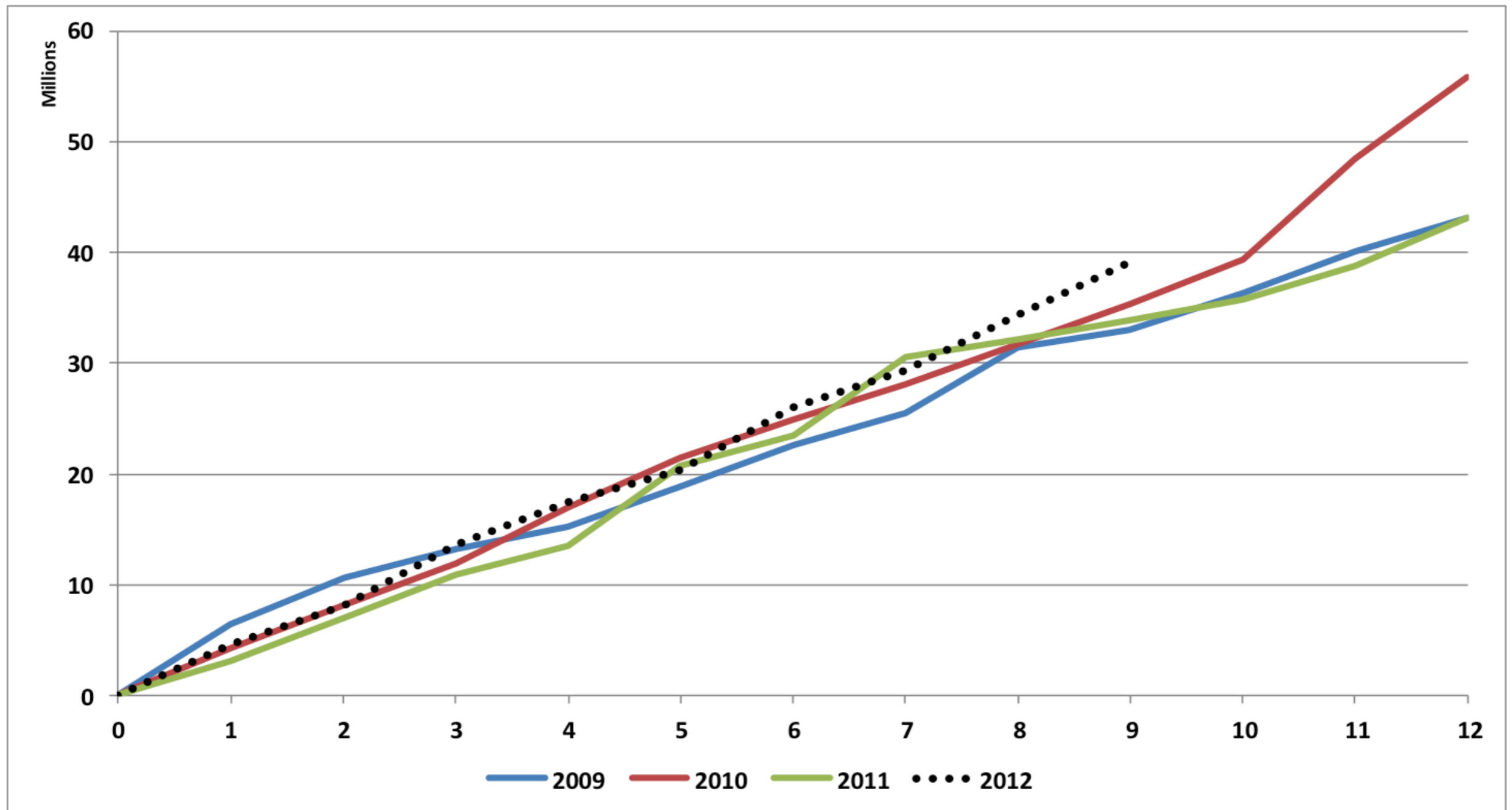
# Operational Statistics

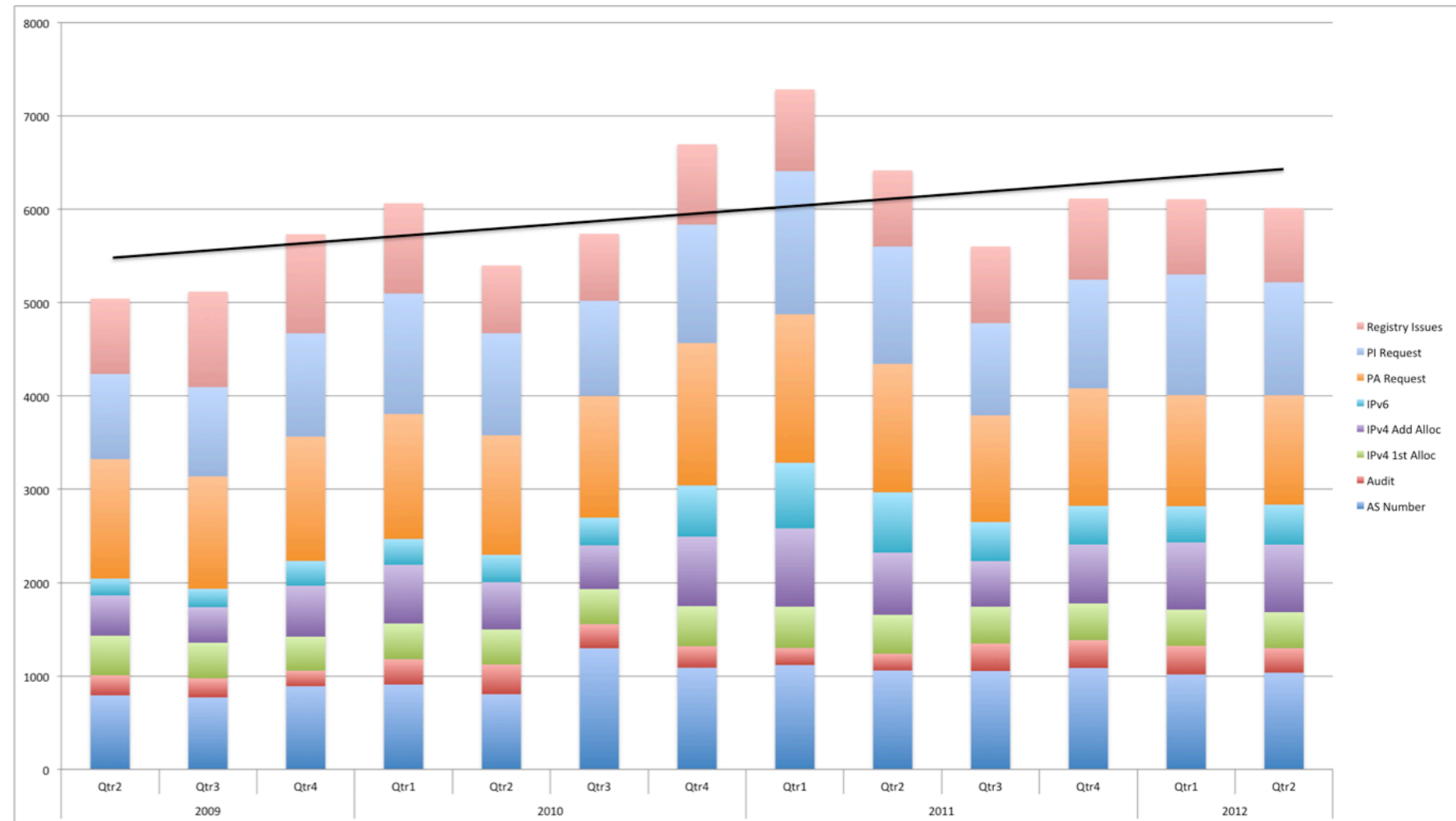- Increasing ticket-load Customer Services and Registration Services

**CS tickets**



**RS tickets**

# Creating Value For Members

- RIPE Database

  – Focus on developing new whois backend software

    – Opens up options for new functionality later

  – RESTful API is very popular: >500,000 queries per day

- RIPE NCC RPKI Service and Validation Toolset

  – BGP Origin Validation: more reliable routing decisions

  – 1,147 members certified their resources

  – Route Origin Authorisations cover around five /8 blocks

# New Service: IP Analyser

- IPv4 feature set:
  - Shows all your allocations and assignments
  - Shows free space, makes suggestions for assignments
  - Notifications of invalid assignments and steps to solve

- Data presented as:
  - User friendly web page in the LIR Portal
  - JSON and Plain Text (asused style report)

- Visit  lirportal.ripe.net/ipanalyser/  (requires LIR login)

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# IP Analyser

## My LIR

LIR Contacts >
Communication Preferences >
Manage Users >
Add Users >

## My Resources

IP Analyser >
IPv4 >
IPv6 >
ASN >
Resource Certification (RPKI) >
Request Forms >
Object Editors >

## Listing Service

Browse Resources >
List Resources >

## Tools

LIR Locator >
Training >
E-Learning >
API Access Keys >
Glossary >
Events >
Other Tools >

## IPv4 Analysis

Q Filter using address, range or netname...

### Allocations (42)

| Range | % |
|---|---|
| 62.142.0.0 - 62.142.255.255 | 82.8% |
| 62.248.128.0 - 62.248.255.255 | 0.8% |
| 80.81.160.0 - 80.81.191.255 | 57.4% |
| 80.186.0.0 - 80.186.255.255 | 100% |
| 81.197.0.0 - 81.197.255.255 | 100% |
| 82.103.192.0 - 82.103.255.255 | 1.6% |
| 82.118.192.0 - 82.118.223.255 | 93.4% |
| 83.245.128.0 - 83.245.255.255 | 0% |
| 84.230.0.0 - 84.231.255.255 | 50% |
| 85.76.0.0 - 85.79.255.255 | 75% |
| 85.156.0.0 - 85.156.255.255 | 100% |
| 88.112.0.0 - 88.115.255.255 | 100% |
| 91.152.0.0 - 91.159.255.255 | 100% |
| 193.64.0.0 - 193.66.255.255 | 36.3% |
| 193.94.0.0 - 193.94.255.255 | 19.5% |
| 193.184.0.0 - 193.185.255.255 | 92.4% |
| 193.199.0.0 - 193.199.255.255 | 18.7% |
| 193.229.0.0 - 193.229.255.255 | 34% |
| 194.86.0.0 - 194.86.255.255 | 68.5% |
| 194.136.0.0 - 194.136.255.255 | 40.5% |
| 194.157.0.0 - 194.157.255.255 | 25.7% |
| 194.188.0.0 - 194.188.255.255 | 58.2% |
| 194.211.0.0 - 194.211.255.255 | 73.8% |
| 194.240.0.0 - 194.241.255.255 | 66.1% |

## Grand Totals

| | Total Addresses | Infra | Used | Free |
|---|---|---|---|---|
| | 3,088,384 | 7.0% | 69.6% | 30.4% |
| | In 42 Allocations | 215,323 Addresses | 2,149,128 Addresses | 939,256 Addresses |

## Free Space

Want to assign a free block? Select the desired prefix size in the drop-down below for a suggestion.

Size  /20

Using a conservative algorithm the best suggestion is 193.64.80.0 - 193.64.95.255, this prefix matches one of your free blocks exactly in size.  ✕

## Notifications

You currently have no notifications.

Feedback

API Access

# RIPE NCC Developer APIs

- RIPE Database API

  – RESTful API to query and update RIPE DB

- My Resources API

  – All your resource data (IPv4, IPv6, ASN, PI, Legacy)

- IP Analyser API

  – Address space usage, invalid and overlapping blocks

- RIPEStat and RIPE Atlas APIs

- Visit  ripe.net/developers

# Measurement & publications

- RIPE Atlas

- RIPE Stat

- Other measurements

- RIPE Labs

- See presentation by Victor from yesterday

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# RIR Cooperation

- Longstanding friendly cooperation and help
  - Software development, staff exchange, ...

- NRO as vehicle for joint activities of all RIRs

- New: MoU with APNIC on "Common Interest" projects
  - avoiding replication
  - increasing efficiency and service

- MoU open to other RIRs

# External Relations Activities

- Goals of RIPE NCC External Relations

  - Build relationships with all public and private sector Internet stakeholder groups

  - Defend the open, bottom-up policy development processes of the Internet community

  - Grow the influence of the RIPE NCC, particularly in government circles

  - Inform the RIPE community of relevant developments in Internet governance discussions

  - Showcase RIPE NCC capacity-building efforts

# External Relations Activities

- Capacity building
  - IPv6 Roadshow
    - Four events in 2012, two more planned
    - Plans for expansion to Russian region in 2013

- Internet governance
  - RIPE NCC instrumental in establishing the first Arab IGF event in Kuwait, Oct 2012
  - Preparing for global IGF in Baku, Azerbaijan, Nov 2012
    - Issues to include RPKI, IPv4 trading

# External Relations Activities

- Working with government and public sector
  - Preparation for ITU WTSA and WCIT events, Dec 2012
    - Working with CEPT (European administrations),
      Arab Regional Group, other regional and industry groups
  - Cooperation with Law Enforcement
    - Annual meeting in London, March 2012
    - Middle East LEA meeting planned for Nov 2012
    - Targeted training events with specific agencies
  - Participation in OECD, APEC TEL

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# The law of one price…

www.wikipedia.org

"The intuition for this law is that all sellers will flock
to the highest prevailing price, and all buyers to the lowest current market price."



**ONE PRICE FITS ALL**

This pricing is valid until the 31st of October 2012, but it can be extended due to demand

| 4 Mbps | 5 Mbps | 6 Mbps | 8 Mbps | 10 Mbps |
|--------|--------|--------|--------|---------|
| R496.00 | R496.00 | R496.00 | R496.00 | R496.00 |

Come on over. The grass is always greener on this side :-)

# Charging Scheme & administration 2013

- EUR 1,800 for all LIRs

- Additional EUR 50 per PI assignment


- In November e-mail to all members on Fee 2013

- In January 2013 invoice for the year 2013

# Russian documents on-line

Questions?