



**RIPE  
NCC**

## **RIPE NCC Update**

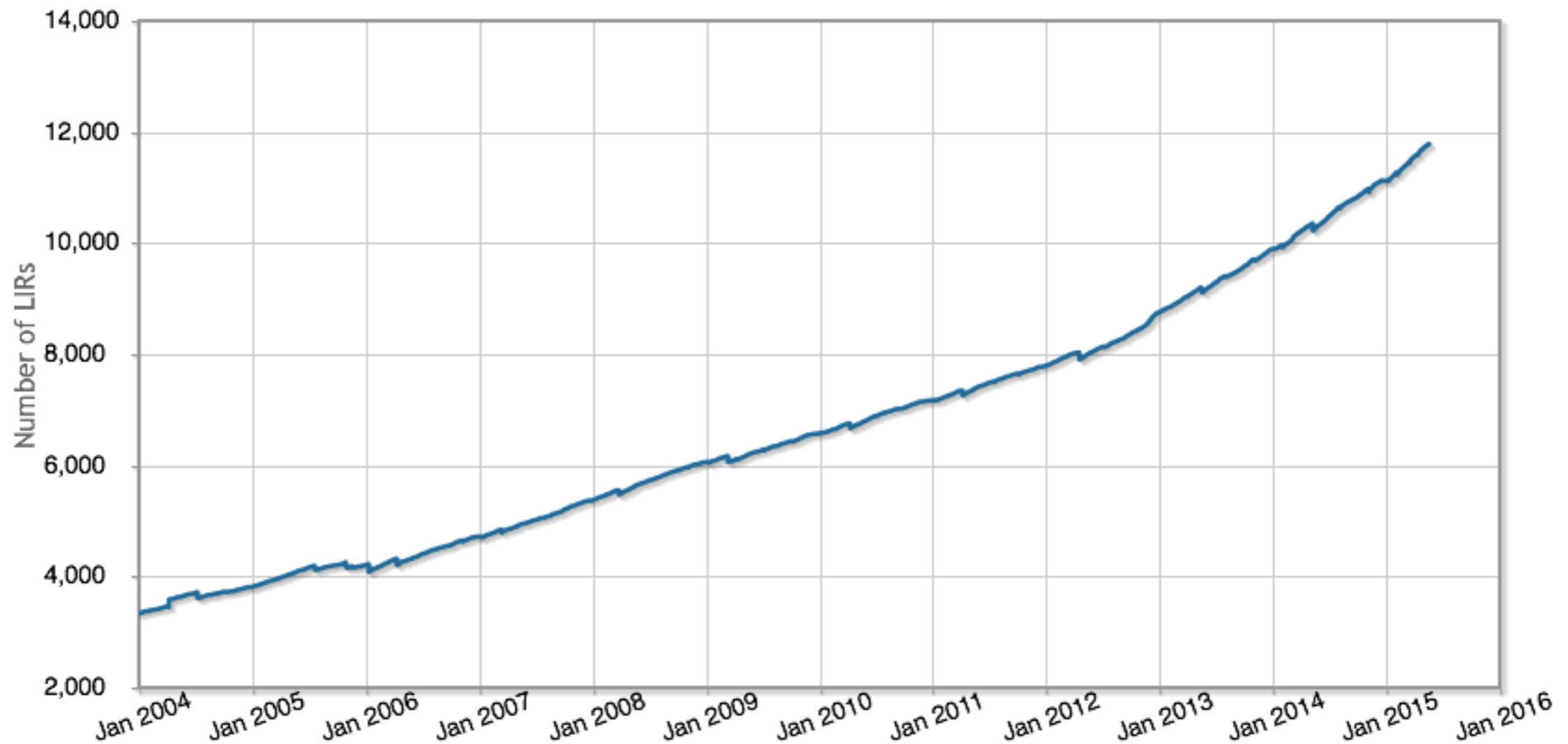
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Ingrid Wijte

Registration Services Assistant Manager

- Membership continuing to grow
- Expanded regional presence
- IPv4 transfers increasing
- IPv6 gaining momentum
- Member consultation
- New website launched
- Policy developments
- LEA interaction, Internet governance, etc.
- And much more to come...

## Total Number of LIRs



**11,781**

- Have expanded in the Middle East and CIS regions:
  - Two new Arabic-speaking staff in Dubai
  - Two new Russian-speaking staff in Moscow
- Improved contact and engagement with regional members, communities and governments
- Smaller, targeted events to meet regional membership needs
- Increasing number of Regional Meetings
  - 2014: Bulgaria, Kazakhstan, Azerbaijan, Iran
  - 2015: Serbia, Georgia, Armenia and others planned

- We still have IPv4 addresses left — more than a /8 in the available pool: 1.09
  - Every member can get 1,024 addresses (/22)
  - Currently 6325 /22s issued
  - /13 reserved for Temporary Assignments
  - /16 reserved for IXP Assignments
  - /16 reserved for Unforeseen Circumstances
- Number of transfers increasing:
  - 919 transfers in 2014 / ~1000 so far in 2015
- “Post depletion adjustments” policy changes reduce bureaucracy

- Over 70% of our members have IPv6 address space
- Providing technical, hands-on IPv6 training courses
- Improving our online IPv6 training and webinars
- IPv6 Roadshows — 10 planned for 2015
- Appointed an IPv6 Program Manager to coordinate our efforts: Nathalie Trenaman



- IPv4 addresses becoming more valuable
- Hijackers try very sophisticated methods to obtain control over (apparently) unused address blocks
  - Faking registration and identity papers
  - Faking entire websites and domains
- RIPE NCC has to do more thorough checks
  - 233 resources investigated in 2014
  - Finding the right balance between due diligence and being overly bureaucratic

*“One of the RIPE NCC’s key responsibilities is to maintain the accuracy and quality of the RIPE Registry”*

- ARC is the new name for the RIPE NCC’s former audit activities that have been improved with feedback from members and the RIPE community

- Maintain periodic contact
- Reduce workload for LIRs

- ± 384 ARCs completed in 2015
  - LIR contact details updated (40%)
  - LIR Resource Registration (50%)
  - Prefix routing consistency (10%)
  - rDNS consistency (30%)

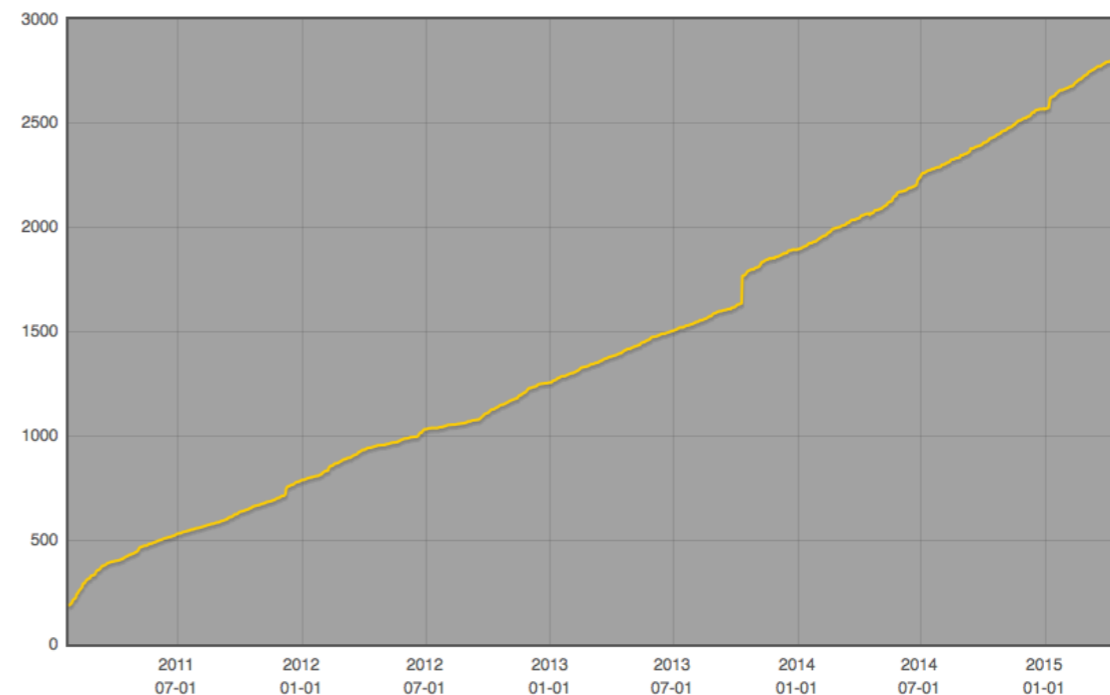


- Face2Face ARCs at RIPE70 big succes



- 2,700+ members have requested a certificate (24%)
- Members created ROAs covering:
  - 2,220 unique ASNs
  - 10,350 IPv4 prefixes; more than eight /8s of address space
  - 1,600 IPv6 prefixes; more than 10,000 /32 blocks
- Functionality progress
  - All address space (PI and Legacy)
  - RPKI software open-source and stand-alone package
  - Resiliency improvements

RIPE NCC Members with Certificates



- A virtual learning environment launched in late 2014
- Allows members to access training resources in their own time, certify their skills, and connect with our trainers and each other through an interactive portal

The screenshot displays the 'RIPE Database Expert Course' portal. The main content area features a grid of course modules, each with a title and a brief description:

- Pre-Test**: Before starting this course, check your knowledge on the RIPE Database.
- 1 - RIPE Database Basics**: Let's get started with the RIPE Database! Learn about the different object types and how they relate to each other.
- 2 - Registering Contact Information**: Create your first RIPE Database objects. Learn how to create a person and role object in the RIPE Database.
- 3 - Querying the RIPE Database**: How can you find information in the RIPE Database? And how can you manage your search results? We will cover that in this module.
- 4 - Protection Mechanisms**: All of your RIPE Database objects must be protected. Learn how to add maintainers to your objects.
- 5 - Creating Assignments**: Learn the concept of hierarchical authorisation and create assignments in the RIPE Database.
- 6 - ROUTE and ROUTE6 Objects**: Learn what route and route6 objects are and how you can create them.
- 7 - Reverse Delegation**: Learn how you can setup reverse DNS delegation in the RIPE Database.
- Final test**: Take this final test to finish the course. The test is worth 25% of the overall evaluation of the course.

On the right side, there is a navigation menu with buttons for: Course Guidelines, Course Objectives, Discussion Forum, Database Objects, Activities, Contact Trainer, and a Navigation dropdown. Below the navigation is a breadcrumb trail: Home > RIPE Database Expert Course > Pre-Test > 1 - RIPE Database Basics > 2 - Registering Contact Information > 3 - Querying the RIPE Database > 4 - Protection Mechanisms > 5 - Creating Assignments > 6 - ROUTE and ROUTE6 Objects > 7 - Reverse Delegation > Final test. There is also an 'Activities Completed' progress bar and a 'Course completion status' section showing: Status: Not yet started, All criteria below are required, Required criteria: Course grade (No grade (70% required)), Activity completion: 0 of 13. A 'More details' link is at the bottom.

- Over 3,600 responses to our survey in 2013
- Identified 48 key findings, took actions on these and reported progress to our members and community
- RIPE NCC Consultation Report 2015
  - Interviewed 34 members from 12 countries in our service region: feedback on our progress addressing survey findings and an intermediary step between surveys
  - Report published in January 2015
  - The RIPE NCC Executive Board published a response to the issues raised during consultations

- Redesign based on user feedback and testing
- Three main areas of improvement:
  - More intuitive navigational structure that makes it easier to find information
  - Improved search functionality
  - Updated, more modern visual design

The screenshot displays the RIPE NCC website's new design. At the top left is the RIPE NCC logo (RIPE NETWORK COORDINATION CENTRE). To the right is a 'Login' link. Below the logo is a navigation menu with 'RIPE Database (Whois)' and 'Website' (highlighted). A search bar contains the text 'Search the content of this website' and a magnifying glass icon. Below the search bar, it displays 'Your IP address is: 2001:67c:2e8:9::c100:14e6'. The main navigation bar features six categories: 'Manage IPs and ASNs', 'Analyse', 'Participate', 'Get Support', 'Publications', and 'About Us', each with a corresponding icon. Below this is a grid of links for each category. The 'News and Announcements' section lists three articles with their titles and publication dates. The 'Meetings' section, under a 'Recent' tab, lists three meetings with their dates and locations. The 'New on RIPE Labs' section lists three articles. The 'Service Announcements' section lists one announcement. The 'NRO News' section lists one announcement. At the bottom, there are social media icons (Facebook, Twitter, LinkedIn, YouTube, RSS) and a footer with links: Home, Sitemap, Contact Us, Service Announcements, Privacy Statement, Cookies, and Copyright Statement.

RIPE NCC RIPE NETWORK COORDINATION CENTRE

RIPE Database (Whois) Website

Search the content of this website

Your IP address is: 2001:67c:2e8:9::c100:14e6

Manage IPs and ASNs > Analyse > Participate > Get Support > Publications > About Us >

IPv4, IPv6 and ASNs  
LIR Portal  
RIPE Database  
Resource Transfers and Mergers

RIPE NCC Statistics  
RIPEstat  
RIPE Atlas  
Raw Datasets

RIPE NCC Membership  
RIPE Community  
Policy Development Process  
Internet Governance

Contact Us  
Training and Education  
Documentation  
Spam, Hacking and Phishing

RIPE Documents  
RIPE Labs  
IPv6 Info Centre  
RIPE NCC Activity Plan

What We Do  
Staff  
Executive Board  
Corporate Governance

News and Announcements

RIPE NCC Participation at MENO G 15  
Publication date: 10 Apr 2015

RIPE NCC IPv4 Address Space Chart - Now Updated  
Publication date: 07 Apr 2015

Meeting with Law Enforcement Agencies  
Publication date: 20 Mar 2015

Meetings Recent

SEE 4/RIPE NCC Regional Meeting  
21 Apr 2015 - 22 Apr 2015 Belgrade, Serbia

RIPE 70 Amsterdam  
11 May 2015 - 15 May 2015 Amsterdam, the Netherlands

RIPE NCC General Meeting May 2015  
13 May 2015 - 15 May 2015 Amsterdam, Netherlands

RIPE NCC Regional Meeting Tbilisi  
19 May 2015 - 20 May 2015 Tbilisi, Georgia

New on RIPE Labs

RIPE Atlas Hackathon Results  
Publication date: 10 Apr 2015

Redesigning the RIPE NCC Website: Template and Visual Design  
Publication date: 09 Apr 2015

How does the MENO G Region Measure up?  
Publication date: 31 Mar 2015

Service Announcements

Planned Network Maintenance  
16 Apr 2015 16:00

NRO News

Comment Phase Open For 2015 ICANN Board Seat 9 Election

f t in YouTube

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- **2014-02 “Allow PI Transfers”**
  - Aligns transfer policy for PI addresses with transfer policy for PA addresses
- **2014-04 “Removing IPv6 Requirement for Receiving Space from the final /8”**
  - Removes the requirement that members must have an IPv6 allocation before they can request an IPv4 /22 from the last /8
  - IPv6 is still necessary for future growth

- **2014-05 “Policy for Inter-RIR Transfers of Internet Resources”**
  - Allows transfers to and from other RIR regions
  - Transfers must comply with the policies in both regions
  - Implementation planned by August
- **2014-12 “Allow IPv6 Transfers”**
  - Aligns transfer policy for IPv6 addresses with transfer policy for IPv4
- **2014-13 “Allow AS Number Transfers”**
  - Aligns transfer policy for AS Numbers with transfer policy for IPv4

- **2015-01 “Alignment of Transfer Requirements for IPv4 Allocations”**
  - Establishes a 24 month holding period before IPv4 /22s from the last /8 can be transferred
- **2015-02 “Keep IPv6 PI When Requesting IPv6 Allocation”**
  - Allows LIRs to keep their IPv6 PI when requesting an IPv6 allocation
- **2015-03 “Assessment Criteria for IPv6 Initial Allocation Size”**
  - Additional criteria for larger allocations



- Implementing ripe-605, “RIPE NCC Services to Legacy Internet Resource Holders”
- Legacy resource holders who are not already members can now choose to:
  - Become a RIPE NCC member
  - Register their resources through a sponsoring LIR
  - Have a direct contract with the RIPE NCC
  - Stay as they are

- Continuing to work with community
  - Discussions take place in RIPE Cooperation Working Group, RIPE Meetings and Regional Meetings
- Consolidated RIR IANA Stewardship Proposal (CRISP) team submitted proposal from numbers community on 15 January 2015
  - Proposed establishing RIRs as stewards of number-related IANA functions, new contract between RIRs and ICANN
- RIR legal staff now drafting SLA contract
  - Update and discussion of this work in RIPE 70 Plenary

<http://ripe.net/iana-oversight-transition>

- Contributing to global and regional Internet governance discussions
  - Contributing to global and regional events: IGF, EuroDIG, Arab IGF, Russian IGF
  - Engaging with industry partners to engage with broader IG developments (WSIS+10, IANA stewardship outreach)
- Regular Government Roundtable Meetings and outreach
- Working with Law Enforcement Agencies (LEAs) on capacity building
  - Interpol (Eurasia group), Europol, police in Arab states, Iran



