



IPv6ActNow & RIPE Labs

Mirjam Kühne



www.IPv6actnow.org



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Your IP: 2001:600:240:13:21b:63ff:fe04:4954

IPv6 ACT NOW [Home](#) [News](#) [Info](#) [Policy](#) [Contact](#) [Forum](#)

How To Act Now

Learn more about what you can do

Small Business

Everything a small business needs to know about IPv6 adoption

Enterprise

Deploying IPv6 within an enterprise

ISP

Implementing IPv6 as an ISP

Government

Information about IPv6 planning for government organisations

Statistics

Interviews

What is IPv6?

IPv6 is the new way the Internet is numbered.

[Click here to find out more](#)

What about IPv4?

IPv4 numbers are running out.

How long have we got left?

Forums

IPv6 Act Now Forums.

[See what people are saying!](#)

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IPv6 Act Now



- One-stop shop for IPv6 information, launched in June 2009
- Audience includes business, government and technical communities
- Sections include:
 - How To Act Now
 - Community interviews
 - Statistics
 - RSS feed of IPv6-related news and developments
 - Forums, links and information



How To Act Now



How To Act Now

Small Business

Enterprise

ISP

Government

Jump to:

Government

Government

High-speed Internet broadband is quickly becoming commonplace worldwide and many national governments have recently pledged to improve the reach of next-generation broadband networks.

There are undeniable socio-economic benefits to ensuring that as many people as possible have access to high-speed broadband. For example, the European Commission's 2009 Digital Competitiveness Report estimates that widespread broadband access would help generate up to two million new jobs in Europe by 2015.

Yet, universal broadband will put heavy strain on the infrastructure of the Internet, as all computers connected to the global network need an IP address. To safeguard the future growth of the digital economy, a timely adoption of IPv6 is essential.

Government organisations are influential forces for Internet growth. Leading by example, they play an important part in supporting the deployment of IPv6. Where governments encourage a landscape for sustainable Internet development, the private sector will follow.

Next: [Access and Availability For All](#)



Constanze Bürger of the German Government



IPv6 Act Now: Interviews



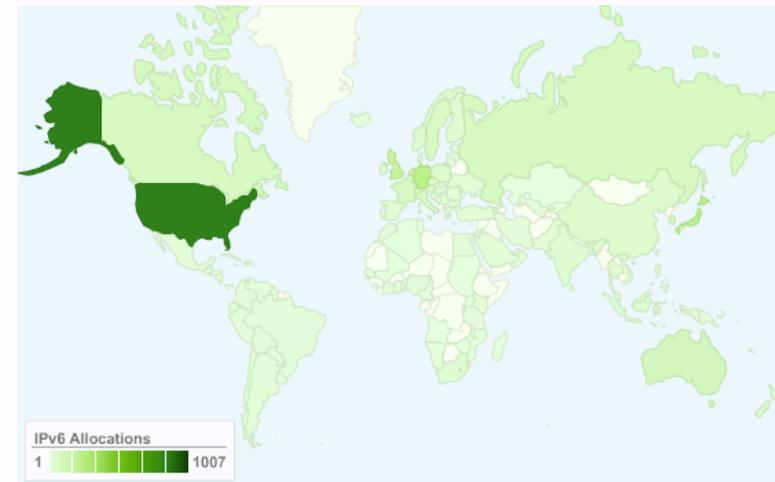
- A growing library of video discussions with community members from around the world



IPv6 Act Now: Statistics

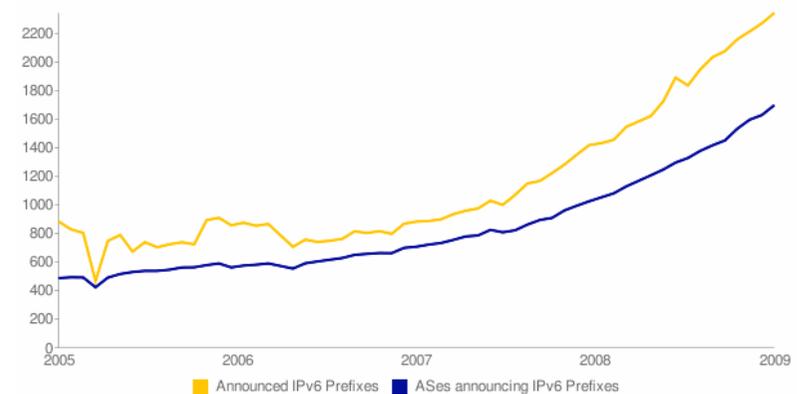


- Statistics for:
 - Allocations
 - Routing
- Near-realtime
 - Draws on on data from NetSense and INRDB
 - Google Chart API



2009-11-23

Global IPv6 allocations



IPv6 routed on the Internet



Operators Tools

RIPE Labs

..illuminating new ideas and tools **from**
the community **for** the community



A Bit of History



- RIPE NCC started as Coordination Center for the RIPE community
 - RIPE Database, mailing lists, meetings
- Only later it became an RIR
 - Once it was accepted as a neutral place
 - Providing platform for operators to coordinate their activities

RIPE Labs – back to the Roots



What is RIPE Labs?



- It is a web site, but more importantly:
 - A platform and a tool for the community
- You can
 - Test and evaluate new tools and prototypes
 - Contribute new ideas and research results
 - Discover and discuss in forums and blogs

<http://labs.ripe.net>



Currently on RIPE Labs

INRDB

IP Allocation Movies

Resource Explainer (REX)

IPv4 & IPv6 Measurements

NetSense

DNS Related Tools



INRDB



The Internet Number Resource Database (INRDB):

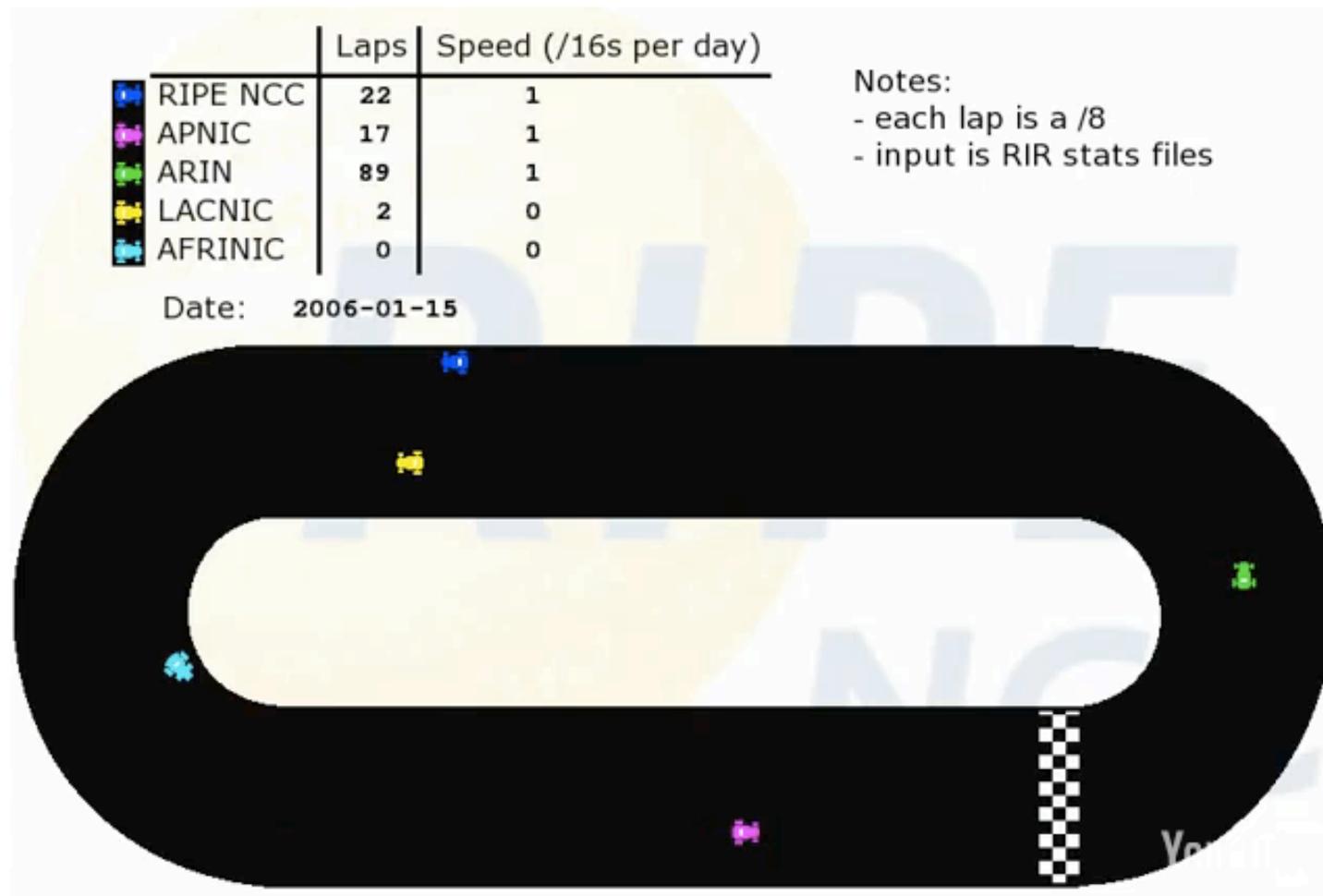
- A system to store and retrieve large amounts of Internet Number Resource related data
- Helps accomplish RIPE NCC to serve the community by enabling efficient access across heterogeneous historical data
- Contains RIS table dumps, IANA assignments, RIR stats files, many external datasets
- Allows us to provide you new types of services...



IP Allocation Movies!



<http://labs.ripe.net/content/were-going-movies>





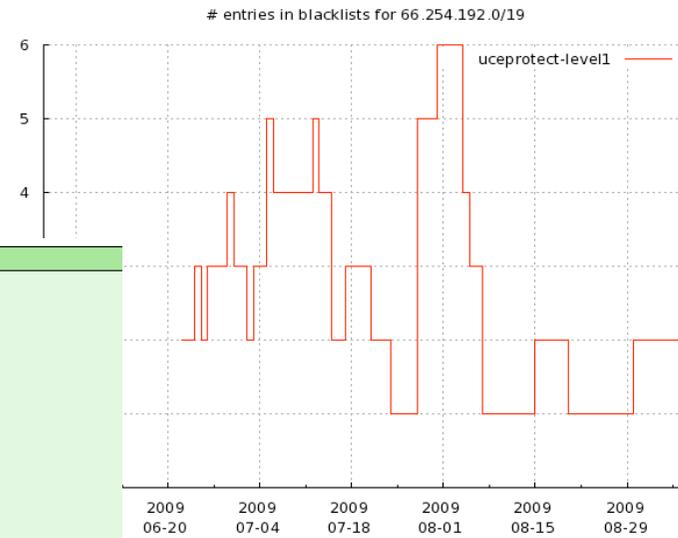
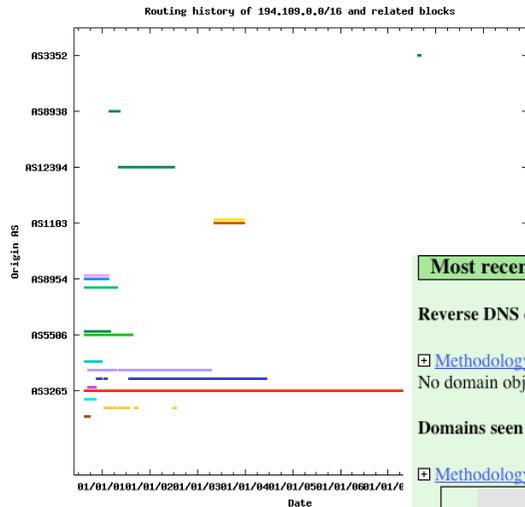
Resource Explainer



- Based on growing community needs, there is a clear need for a service where:
 - History and current **status of resources** can be looked up
 - Information from many sources are **combined** and **explained**
- Some reasons are
 - Growing use of recycled / transferred resources
 - Proliferation of resource abuse
 - Support resource management activities



Resource Explainer live!



Most recent information as of 2009-10-02

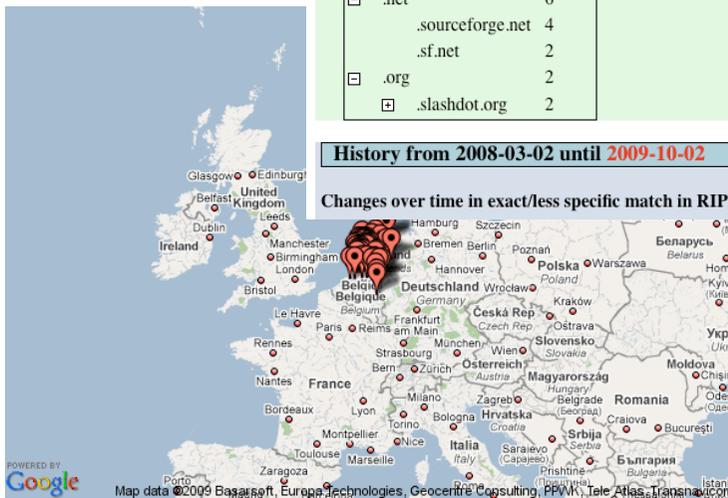
Reverse DNS delegations as seen in RIPE Database domain objects

[Methodology](#)
No domain objects found in the RIPE Database

Domains seen in reverse DNS lookups in the month before 2009-09-30

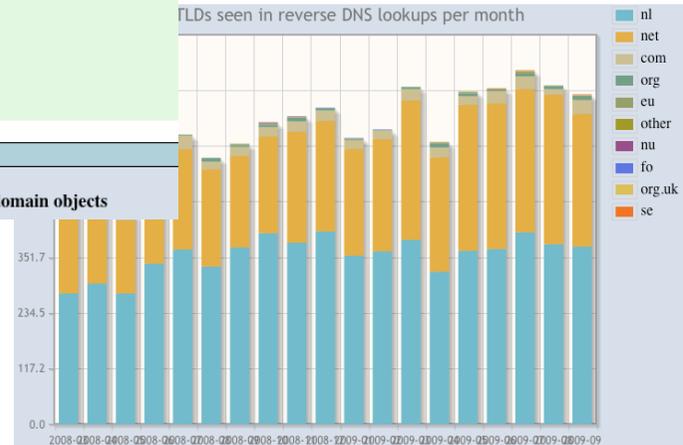
[Methodology](#)

Domain	Count
.com	8
.sourceforge.com	4
.thinkgeek.com	3
.net	6
.sourceforge.net	4
.sf.net	2
.org	2
.slashdot.org	2



History from 2008-03-02 until 2009-10-02

Changes over time in exact/less specific match in RIPE Database domain objects





Resource Explainer Plans



- Recently included IPv6 support and ASNs

Future Plans:

- Add more aspects and more details to existing ones
- Please let us know what else would be useful!



NetSense (netsense.ripe.net)



- Consistent interface integrating various measurement services provided by the RIPE NCC

AS3333 - RIPE-NCC RIPE Network ...

Prefix †	First Seen †	Last Update †
193.0.22.0/23	1 month ago	5 hours ago
193.0.18.0/23	9 months ago	4 hours ago
193.0.12.0/23	9 months ago	4 hours ago
193.0.20.0/23	9 months ago	5 hours ago
2001:610:240::/42	9 months ago	5 hours ago
193.0.0.0/21	9 months ago	4 hours ago

Visibility of AS3333

POWERED BY Google

Terms of Use

Routing Consistency ▶

Don't Filter Missing in routing table
 All inconsistencies Missing in RIPE database
 Present in both

Origin Prefixes ▼

BGP Routing Table †

193.0.18.0/23
193.0.22.0/23
193.0.20.0/23
193.0.12.0/23
2001:610:240::/42
193.0.0.0/21

Import Peers **Export Peers**

RIPE Database †

193.0.18.0/23
193.0.22.0/23
193.0.20.0/23
193.0.12.0/23
Not present
193.0.0.0/21

Status †

Ok	✓
Not present	✗
Ok	✓



IPv6 Measurements



- A compilation of IPv6 measurements
 - List of IPv6 measurements and tools various people are doing with a short description and links to the tools and results
 - Please let us know what type of measurements would be helpful for your operations

<http://labs.ripe.net/content/ipv6-measurement-compilation>



DNS related Tools



- DNS Lameness checker (Shane Kerr)
 - Downloadable tool for DNS operators
- DNSSEC for the root zone
 - Plans for signing K-root
- DNS reply-size tester
 - Easy tool to determine maximum size of DNS response packets your resolver can handle



24 Sep 2009

RIPE Labs - What's it All About?

Submitted by [mirjam](#) on Thu, 09/24/2009 - 12:09

RIPE Labs

is a new platform designed by the RIPE NCC for network operators, developers and industry experts to expose, test and discuss innovative Internet-related tools, ideas and analysis that can benefit the RIPE community and RIPE NCC members.

It's the place to showcase new and interesting things. Anyone can:

- Present research
- Showcase prototype tools
- Share operational experience
- Exchange ideas

Even if you don't have any new ideas at the moment, but are interested in reviewing the ideas and tools of others, please dive in. **RIPE Labs** is a platform **from** the RIPE community **for** the RIPE community.

» [Read more](#)



Discuss this topic here: [RIPE Labs - What's it All About?](#)

18 Sep 2009

Submit Your Ideas Now

RIPE Labs is all about you, and your ideas. You can contribute a new idea or tool by [creating a new topic](#) in the New Ideas forum or by [sending us an email](#).



Recent Articles

- [RIPE Labs Contacts](#)
- [Intro to INRDB - the Internet Number Resource Database](#)
- [REX - the Resource Explainer Disclaimer](#)
- [Launch Date: October 6 2009](#)
- [RIPE Labs - What's it All About?](#)
- [16-bit ASN Exhaustion, Some Data](#)
- [We're going to the movies!](#)
- [RIPE 59 Meeting Plan in Google Calendar](#)
- [Submit Your Ideas Now](#)

Active forum topics

- [RIPE Labs - What's it All About?](#)
- [REX - the Resource Explainer](#)
- [ASN-16 Exhaustion](#)
- [Intro to INRDB](#)
- [IP Address Allocation Movies](#)

[more](#)



Why RIPE Labs?



- Faster, tighter innovation cycle
 - Provide useful prototypes to you earlier
 - Adapt to the changing environment more quickly
- Closer involvement of the community
 - Openness
 - Make feedback and suggestions easier and more effective



RIPE Labs Rules



- Free and civil discussion between individuals
 - Anyone can read RIPE Labs content
 - Please register before contributing

- No service guarantees
 - Content can disappear based on
 - Community feedback
 - Legal or abuse issues
 - Too little resources



Questions or Comments



- Please take a look and participate
- Questions or comments
 - mir@ripe.net or labs@ripe.net