



RIPE Labs

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

An Update



What is RIPE Labs?



- It is a website, 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>



What's New on RIPE Labs – Some Highlights



LIR Growth Statistics

LIR Locator

IPv4 and IPv6 Measurements

DNS Related Tools

RIPE Database API and Tools

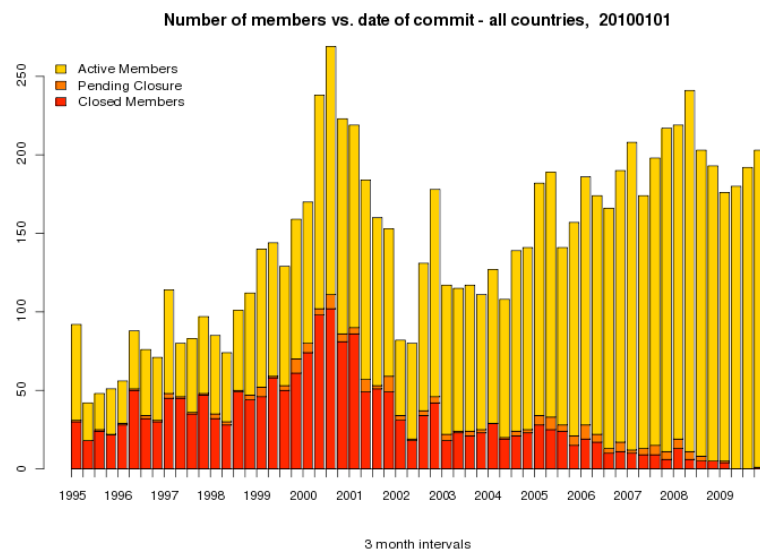
and much more ...



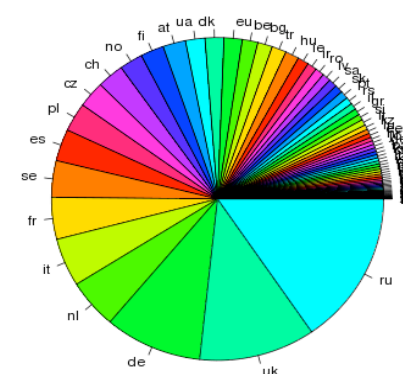
LIR Growth Statistics



- RIPE NCC membership demographics
 - <http://labs.ripe.net/content/ripe-ncc-membership-growth>
- Internet number resources distributed among the membership
 - <http://labs.ripe.net/content/members-and-their-number-resources>



IPv4 allocations to current members, per country - 20100101

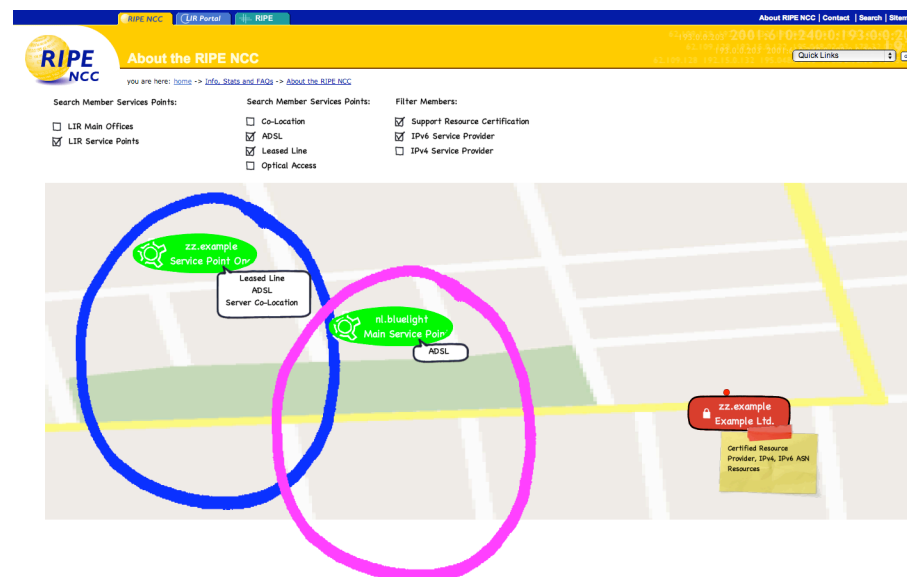
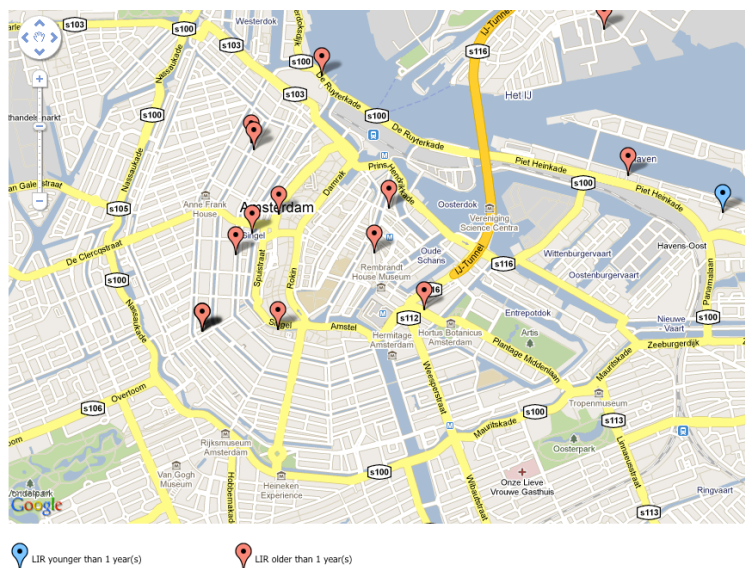




LIR Locator Tool



- Geographical information about LIRs and the services they offer
 - Allows LIR to modify information
 - Launch at RIPE 61 in November 2010



<http://labs.ripe.net/content/lir-locator-tool>



IPv6 Measurements



IPv6 Measurements Compilation
Measuring IPv6 at Web Clients and Caching
Resolvers
Untunneling IPv6
IPv6 Ripeness



A Compilation of IPv6 Measurements



- List of IPv6 measurements and tools from various sources 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>



IPv6 at Web Clients & Resolvers



- When people connect to servers we measure

- IPv4 capability
- IPv6 capability
- IPv4/IPv6 preference

	labs	www
number of measurements	768	8176
web client IPv6 preference	7.2%	1.4%
web client IPv6 capability	9.2%	3.5%
resolver IPv6 capability	11.0%	5.0%

- More resolvers (4.9%) than clients (1.2%) have native IPv6 connectivity
 - Clients will increase over time
 - We will continue measurements

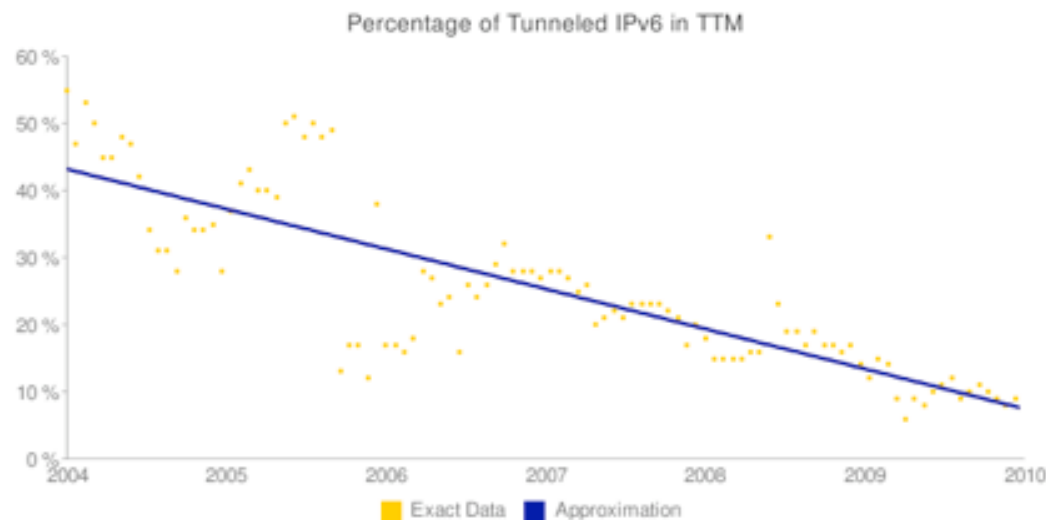
<http://labs.ripe.net/content/measuring-ipv6-web-clients-and-caching-resolvers-part-1>



Untunneling IPv6



- Using the Test Traffic Measurements Network to measure IPv6 native vs. IPv6 tunneled traffic
- Amount of tunneled traffic is decreasing



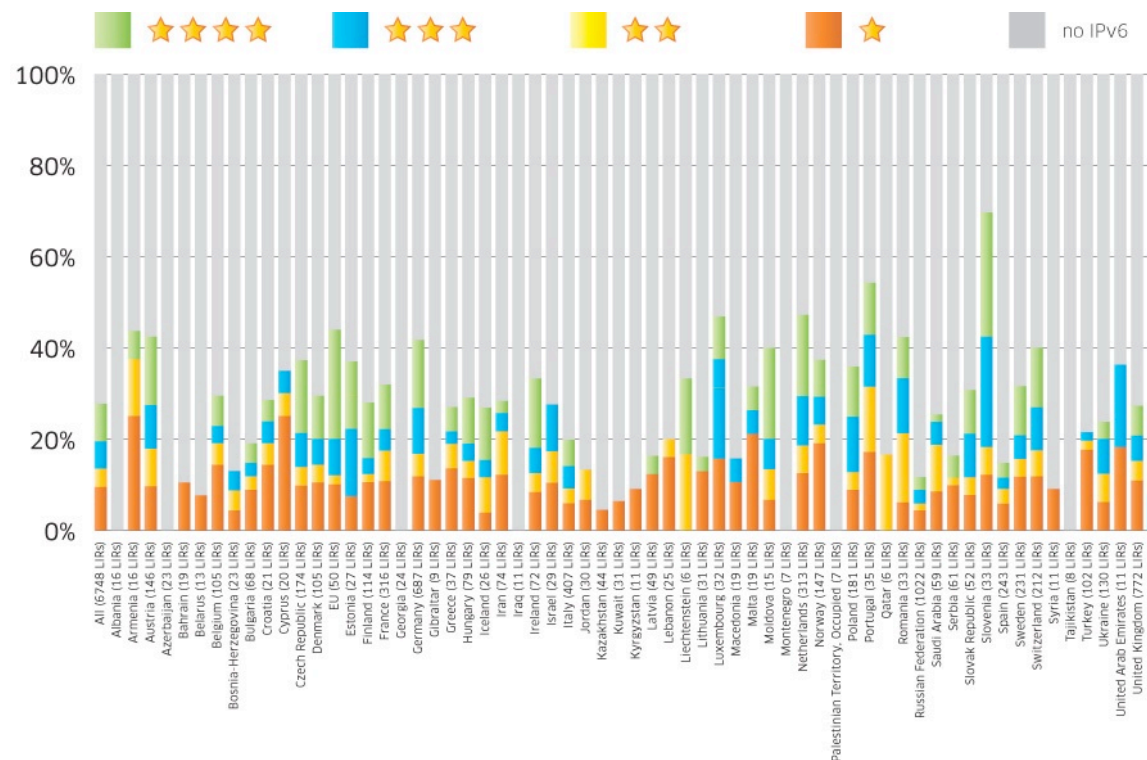
<http://labs.ripe.net/content/untunneling-ipv6>



IPv6 Ripeness



- Rating system for LIRs/ISPs based on criteria
 - IPv6 allocation, reverse DNS, route6 object in RIPE DB



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



DNS Related Tools



- DNSSEC for the root zone
 - Monitoring the signing of K-root
- DNS reply-size tester
 - Easy tool to determine maximum size of DNS response packets your resolver can handle
 - Many people downloaded tool
 - First Results published

<http://labs.ripe.net/content/testing-your-resolver-dns-reply-size-issues>



RIPE Database – New Tools



- Whois data via RESTful Web
 - <http://labs.ripe.net/content/ripe-database-api>
- RIPE Database queries including search
 - <http://labs.ripe.net/content/ripe-database-query-api-including-search>
- Abuse Finder – A tool to find all abuse related contact information: <http://labs.ripe.net/content/abuse-finder>

RIPE Database

This application uses the RIPE Database REST API.
The RIPE Database is subject to Terms and Conditions.
See <http://www.ripe.net/db/support/db-terms-conditions.pdf>

Search (returns max 100 objects per query)

Query string, you can specify up to five comma separated keys:

Sources	Types	Flags	Inverse lookup
<input type="checkbox"/> abuse-mailbox	<input checked="" type="checkbox"/> admin-c	<input type="checkbox"/> auth	<input type="checkbox"/> author
<input type="checkbox"/> irt-nfy	<input type="checkbox"/> local-as	<input type="checkbox"/> mbrs-by-ref	<input type="checkbox"/> member-of
<input type="checkbox"/> mnt-irt	<input type="checkbox"/> mnt-lower	<input type="checkbox"/> mnt-nfy	<input type="checkbox"/> mnt-ref
<input type="checkbox"/> nserver	<input type="checkbox"/> org	<input type="checkbox"/> origin	<input type="checkbox"/> person
<input type="checkbox"/> rev_srv	<input type="checkbox"/> sub-dom	<input checked="" type="checkbox"/> tech-c	<input type="checkbox"/> upd-to
			<input type="checkbox"/> zone-c



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 – Next Steps



- New website design
 - Based on conversation and discussion
 - Includes social media aspects
 - Tag clouds, twitter feeds, comments, ratings
- New structure
 - Project pages for long term topics and tools
 - Better search mechanism



New RIPE Labs



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Current Conversations RSS

25
comments

Updated Reply-Size Tester

Submitted by [Anand Buddhdev](#) on 29 January 2010 - 17:42

Yesterday, we released a newer version of the reply-size test tool. We took feedback from users, and made some changes to the tool. In this newer version, you will now see a drop-down list of all the resolvers that are configured on your system, and you can select one of these to test. You can also enter an IP address of your choice to test.

Tags: [dns](#), [performance](#)

[» Read more](#)

35
comments

2009 - The year before IPv6 took off?

Submitted by [Emile Aben](#) on 22 January 2010 - 13:21

You probably heard it before: "This year is going to be the year IPv6 takes off". You probably won't hear it that much more, because with the imminent IPv4 address space exhaustion either IPv6 needs to be deployed, we figure out something else, or we'll face stagnation of growth of the Internet. There isn't too much time to figure out something else so that bodes well for IPv6 deployment. And fortunately there are some encouraging signs of progress.

Tags: [ipv6](#)

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Tags for RIPE Labs

[address policy](#)
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[policy development](#)
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[ripe meeting](#)
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[routing specs](#)
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Monthly archives

- September 2009 (6)
- October 2009 (8)
- November 2009 (4)
- December 2009 (3)
- January 2010 (2)

Follow us on Twitter

Published a new and improved version of the reply-size tester tool on RIPE Labs. Check it out here: <http://tinyurl.com/yddcfa9>

29 January 2010 17:04

RT @buckthornall: Wonder what the iPad will do to the dwindling IPv4 address space?

29 January 2010 16:55

We are seeing some encouraging #IPv6 growth on RIPE Labs and the RIPE NCC web server. See some measurements here: <http://tinyurl.com/vycjnp1h>

29 January 2010 15:05

RT @APNIC: IPv6 indicator to business leaders: Business leaders can avoid risk by deploying new technology. <http://bit.ly/9cMpnc>

29 January 2010 20:00



Questions or Comments



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