

RIPEstat

Public Demo, s3e01@RIPE66
13 May 2013

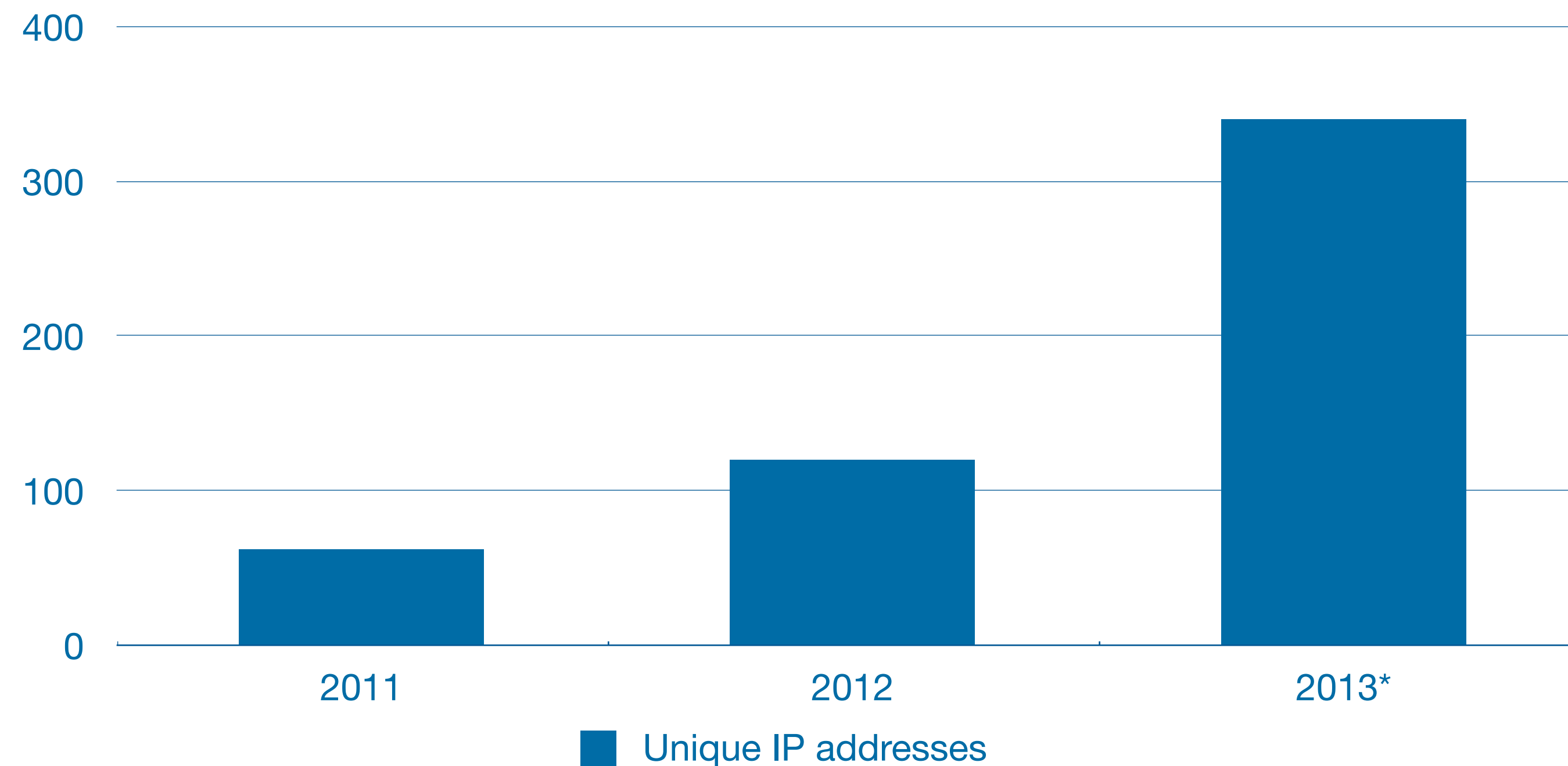
Christian Teuschel

- 1) Introduction
- 2) New features since RIPE65
- 4) Future outlook
- 5) Feedback



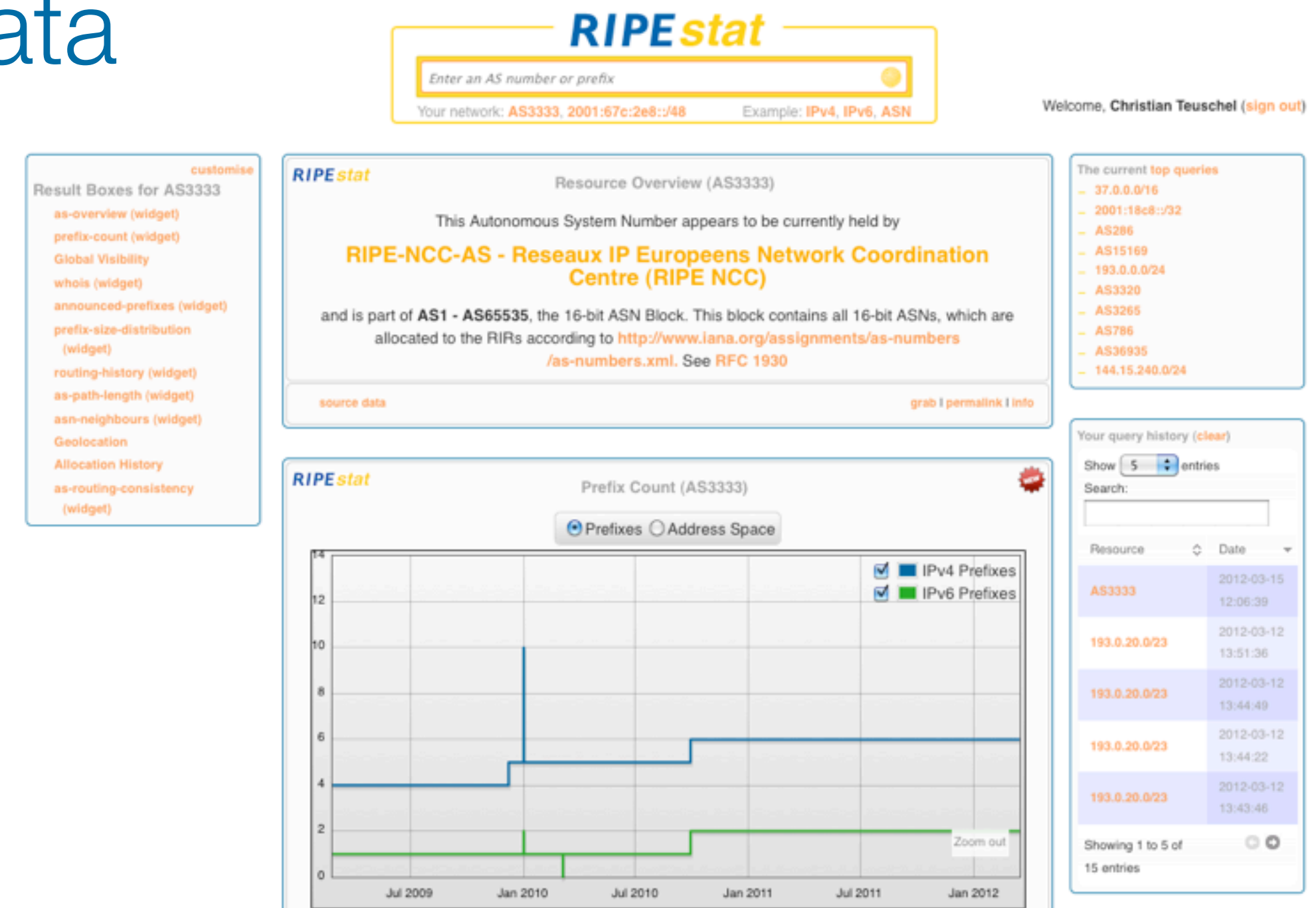
Usage Statistics (Unique IP Addresses)

- 2011: 62k IPs
- 2012: 120k IPs
- since beginning of 2013: 340k IPs (* by May 2013)



Introduction to RIPEstat

- Modular & extendable toolbox
- Single interface to Internet related data
 - Network trouble-shooting
 - Data analysis
 - Scientific research
- RIPEstat is your tool
 - Work in progress
 - Development driven by user feedback
 - Periodic, public demos
 - **GET INVOLVED**



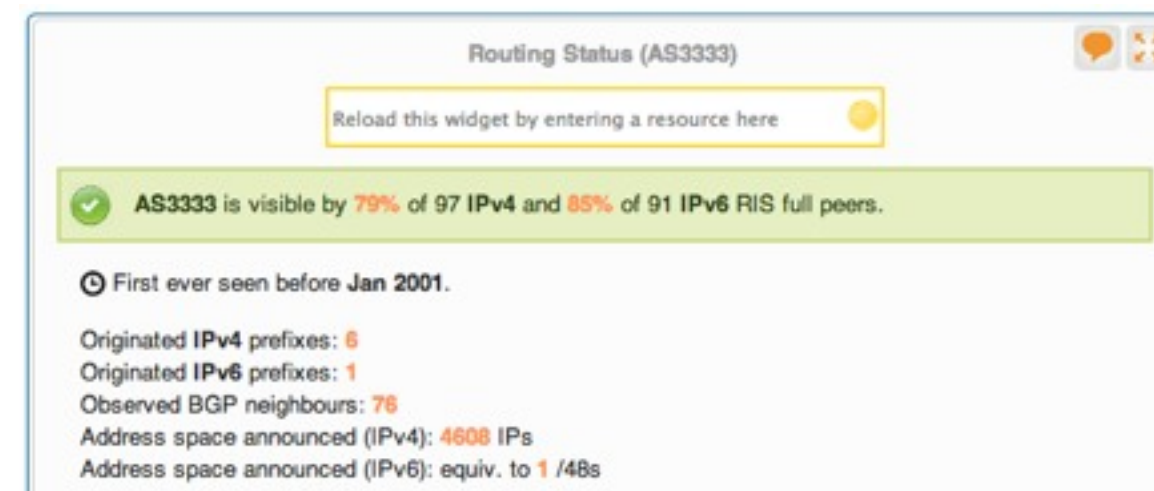
<https://stat.ripe.net>

Introduction to RIPEstat

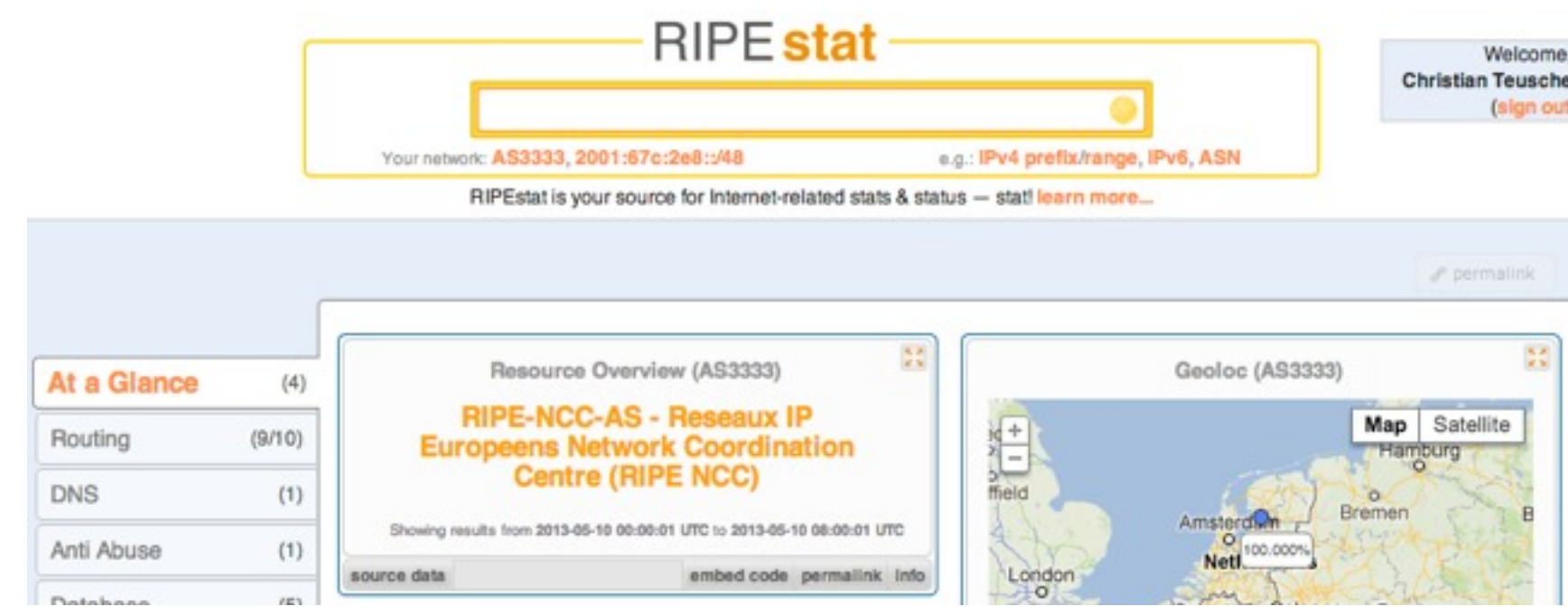
- RIPEstat Data API / RIPEstat Text API

<https://stat.ripe.net/data/routing-status/data.json?resource=AS3333>

- RIPEstat Widget API



- <https://stat.ripe.net>



What's New?

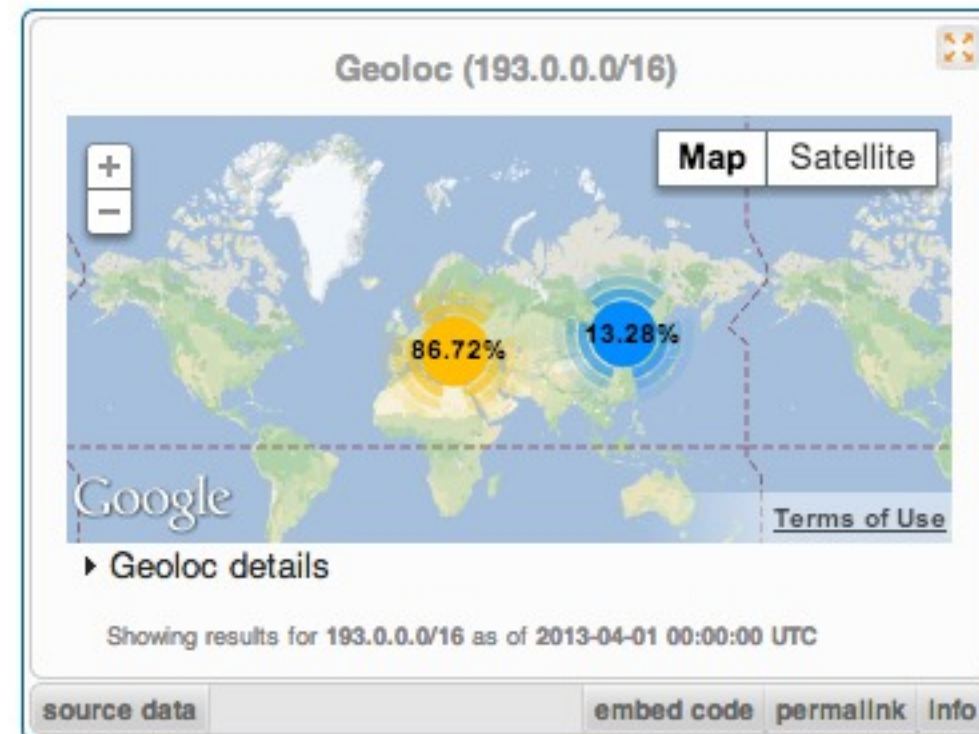
New Features (1/5)

- Full screen support



New Features (1/5)

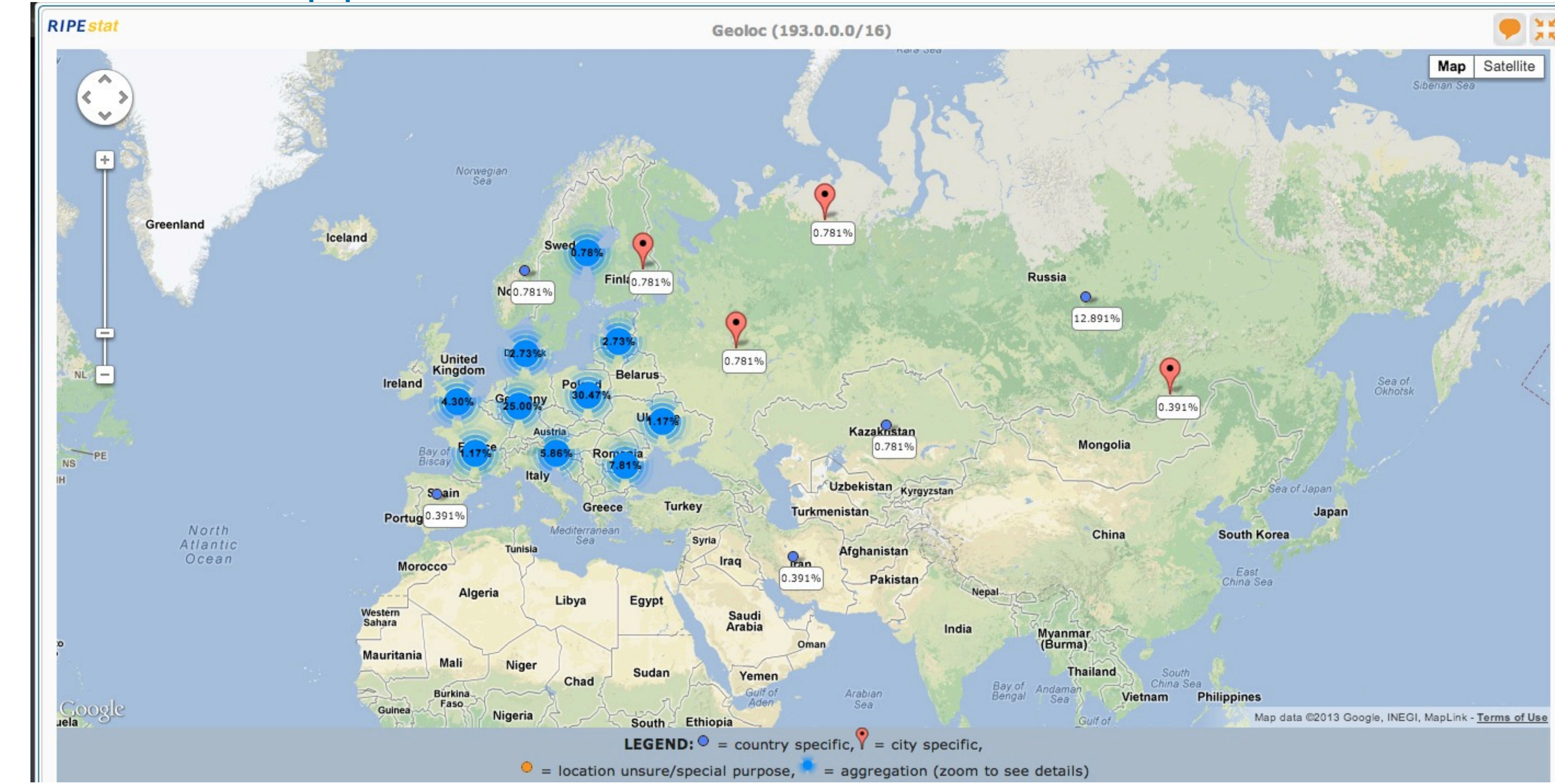
- Full screen support



Click to go full screen!

New Features (1/5)

- Full screen support



New Features (1/5)

- Resource type support

- Single IP addresses

193.0.20.50 $\neq$ 193.0.20.50/32

single IP address vs. IP prefix

- Support for hostnames

e.g. ripe.net, google.com

- Support for countries (2-digit ISO code)

e.g. de, nl

New Features (1/5)

- Abuse Contact Finder

Abuse Contact Finder (193.0.0.138) BETA

Reload this widget by entering a resource here

Email-Contact

abuse@ripe.net

Contact-Quality-Rating

★★★★☆ (4/5)

You can use this contact to report abuse. It is very likely to be the correct abuse contact.

☐ Show Complete Details
☐ Info for Resource Holders

Showing results for 193.0.0.138 as of 2013-05-10 13:40:00 UTC

BETA

Beta status: Please note that even highly rated contacts can be incorrect

New Features (1/5)

- Mobile page

<https://stat.ripe.net/m>

RIPE **stat** Mobile

Switch to [Standard Version](#)

Abuse Contact Finder

Abuse Contact Finder

Address Space Hierarchy

Address Space Usage

Allocation History

Announced Prefixes

AS Path Length

AS Routing Consistency

New Widgets (2/5)

- Routing Status widget

Routing Status (AS3333)

Reload this widget by entering a resource here

 **AS3333** is visible by **79%** of 97 **IPv4** and **85%** of 91 **IPv6** RIS full peers.

 First ever seen before **Jan 2001**.

Originated **IPv4** prefixes: **6**

Originated **IPv6** prefixes: **1**

Observed BGP neighbours: **76**

Address space announced (IPv4): **4608** IPs

Address space announced (IPv6): equiv. to **1** /48s

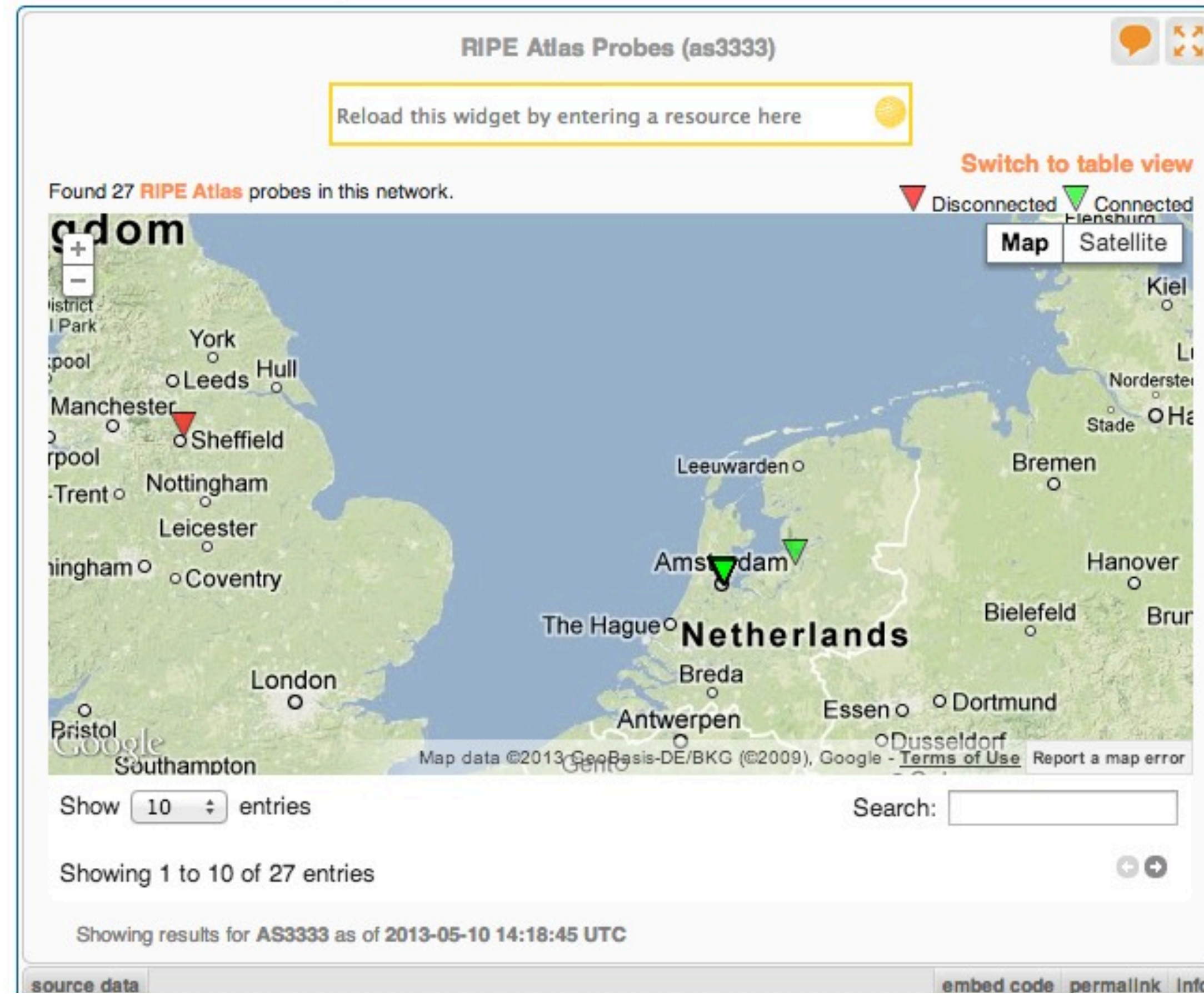
Compare to 1 week earlier

Showing results for **AS3333** as of 2013-05-09 00:00:00 UTC

source data embed code permalink info

New Widgets (2/5)

- Atlas Probes widget



New Widgets (2/5)

- Atlas Measurements widget

RIPE Atlas Measurement Targets (193/12)

Reload this widget by entering a resource here 

Show targets/page Search:

Measurement ID	Type	Target IP	Target Hostname	Graphs
1004044 	ping	193.0.10.1	not specified	
1004045 	dns	193.0.14.129	not specified	
1004925 	traceroute	193.0.6.139	ripe.net	
1006562 	traceroute	193.0.19.107	nl-ams-as3333.anchors.atlas.ripe.net	
1006563 	ping	193.0.19.107	nl-ams-as3333.anchors.atlas.ripe.net	
1007238 	ping	193.0.19.107	nl-ams-as3333.anchors.atlas.ripe.net	
1008313 	ping	193.10.5.79	zoidberg.farscape.se	
1008374 	ping	193.0.19.107	nl-ams-as3333.anchors.atlas.ripe.net	

Showing 1 to 8 of 8 active measurements targeting this network.

Showing results for 193.0.0.0/12 as of 2013-05-10 14:20:20 UTC

New Widgets (2/5)

- Forward DNS widget (for hostnames)



The screenshot shows a web widget titled "Forward DNS (ripe.net)". It displays the following information:

- IPv4:** 193.0.6.139
- IPv6:** 2001:67c:2e8:22::c100:68b

Below the IP addresses, it states: "Showing results for ripe.net as of 2013-05-10 14:22:00 UTC". It then lists the resolution path: "resolved via: 193.0.19.6, 193.0.19.101, 193.0.19.102" and the authoritative nameservers: "authoritative nameservers: tinnie.arin.net., prl.authdns.ripe.net., sec3.apnic.net., sns-pb.isc.org., sec1.apnic.net., ns3.nic.fr." At the bottom of the widget, there are four tabs: "source data", "embed code", "permalink", and "info".

New Widgets (2/5)

- Reverse DNS Consistency / DNS Checker widget

Reverse DNS Consistency (193.0.20.0/23)

Reload this widget by entering a resource here

Show 10 entries Search:

Prefix	Reverse DNS domain	In RIPE Registry	DNS Check result	Last DNS Check
193.0.20.0/24	20.0.193.in-addr.arpa	Yes	OK	2013-03-12
193.0.21.0/24	21.0.193.in-addr.arpa	Yes	OK	2013-03-15

Showing 1 to 2 of 2 entries

Showing results for 193.0.20.0/23

source data embed code permalink info

New Widgets (2/5)

- Reverse DNS Consistency / DNS Checker widget

The image shows two side-by-side screenshots of web widgets. The left widget is titled 'Reverse DNS Consistency' and displays a table of DNS records. The right widget is titled 'DNS Check (20.0.193.in-addr.arpa)' and shows a status message 'All tests are ok.' along with a list of nameservers and various test categories.

Reverse DNS Consistency Widget:

Reload this widget by entering a resource here

Show 10 entries

Prefix	Reverse DNS domain	In RIR Regis
193.0.20.0/24	20.0.193.in-addr.arpa	✓
193.0.21.0/24	21.0.193.in-addr.arpa	✓

Showing 1 to 2 of 2 entries

Showing results for 193.0.20.0/23

source data

DNS Check (20.0.193.in-addr.arpa) Widget:

Reload this widget by entering a resource here

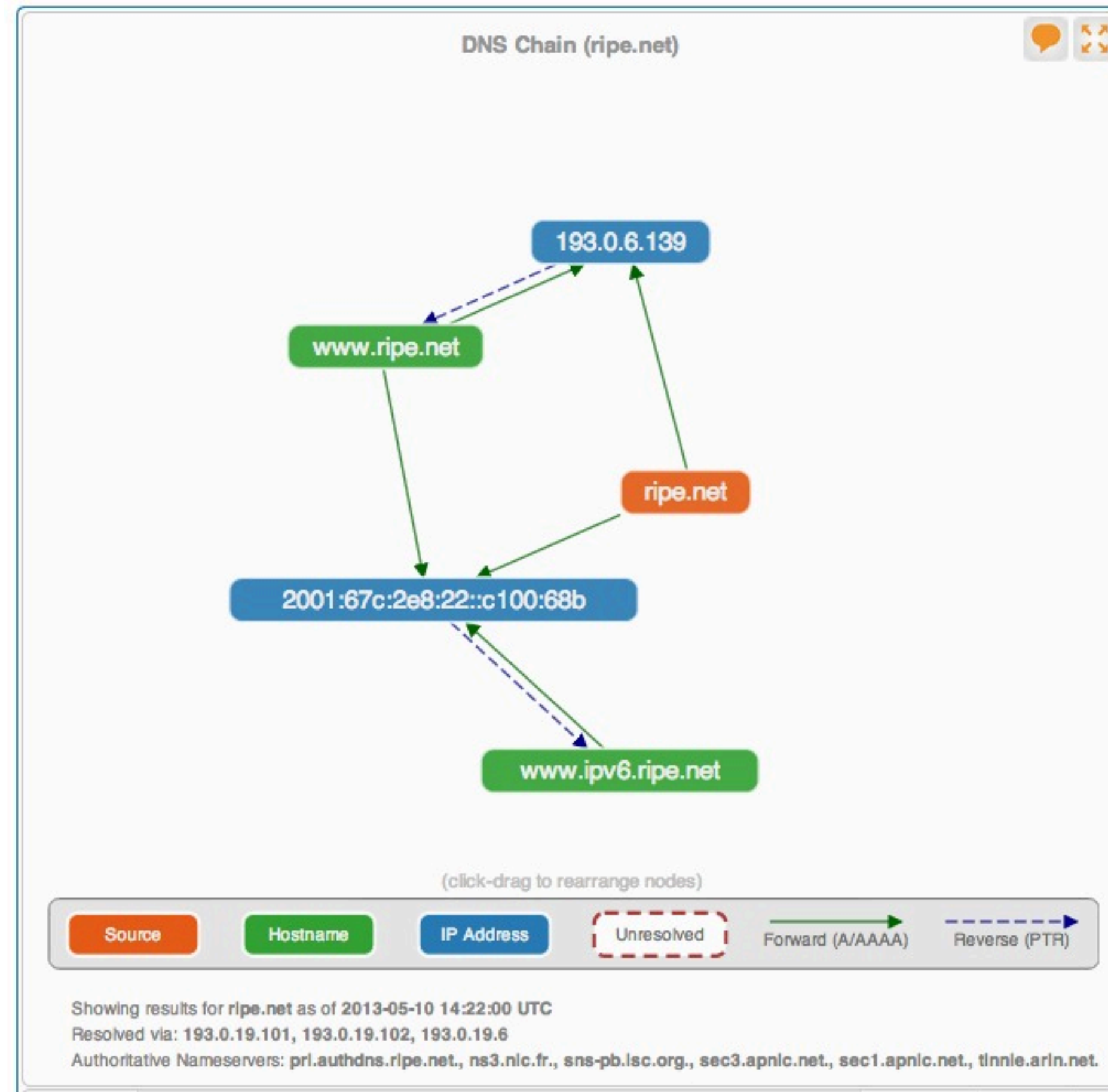
All tests are ok.
Last checked at 2013-03-12 08:58:31 UTC.

Check now

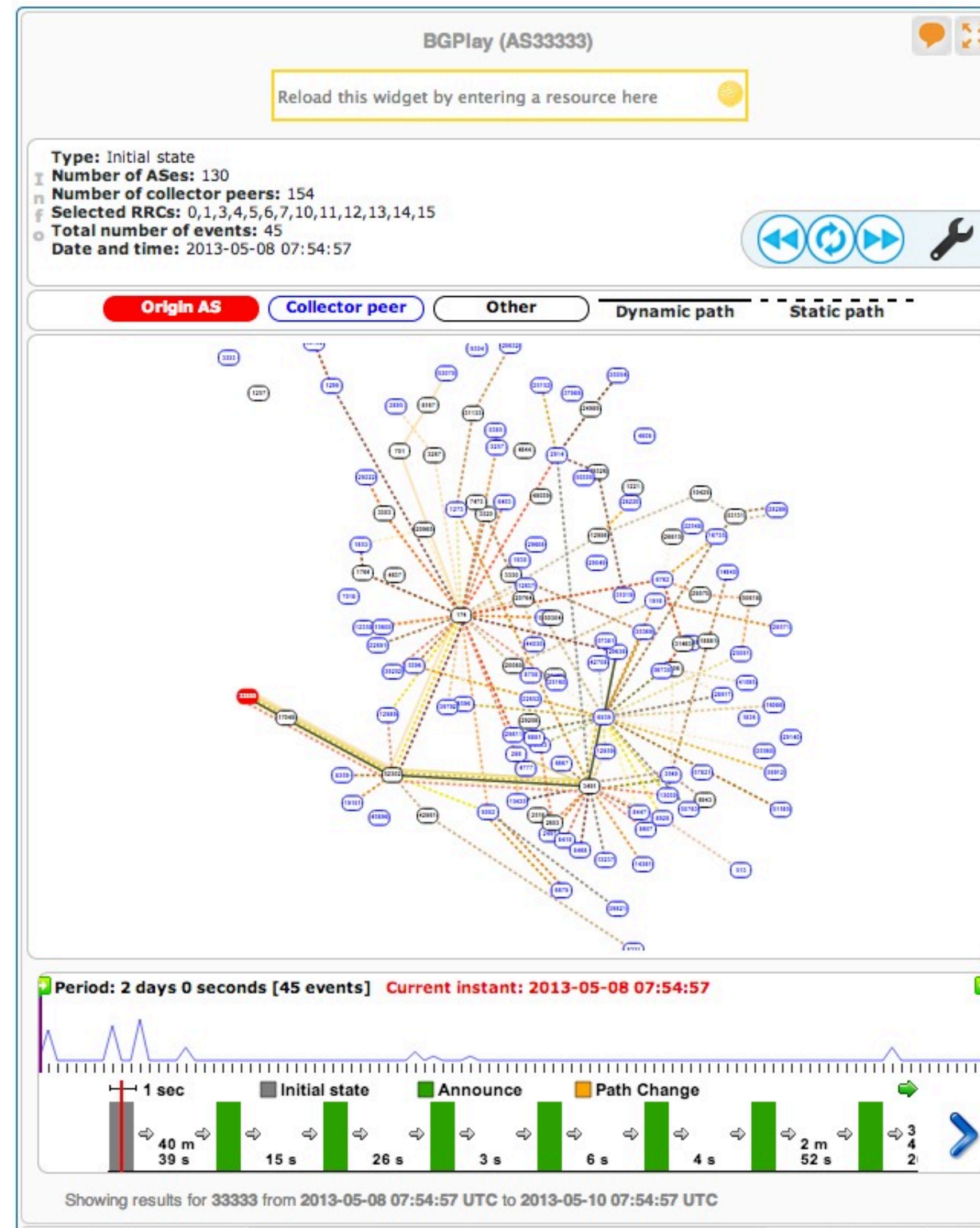
- Delegation
- Nameserver
 - Nameserver ns3.nic.fr
 - Nameserver pr1.authdns.ripe.net
 - Nameserver sec1.apnic.net
 - Nameserver sec3.apnic.net
 - Nameserver sns-pb.isc.org
 - Nameserver tinnie.arln.net
- Consistency
- SOA
- Connectivity
- DNSSEC

New Widgets (2/5)

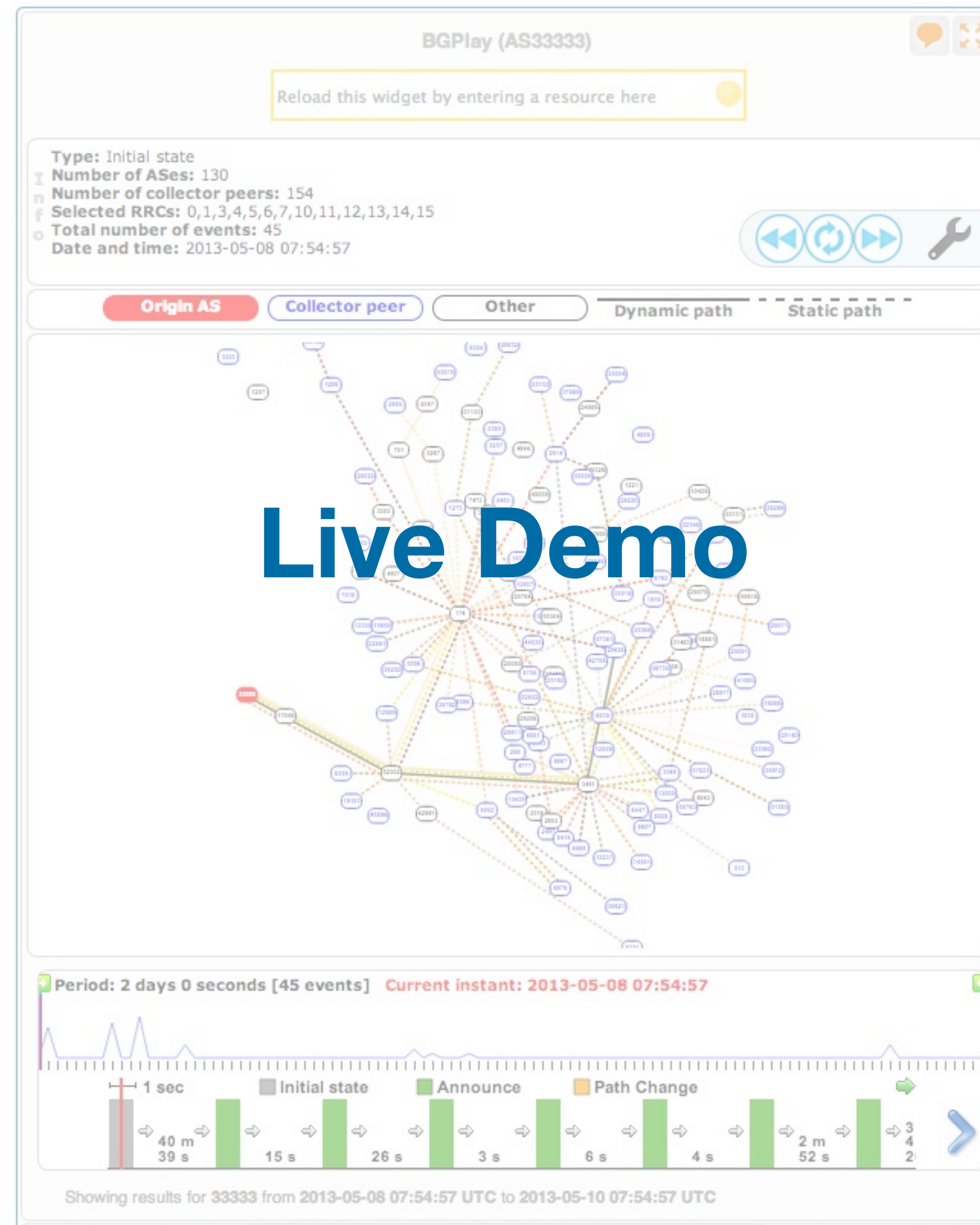
- DNS Chain widget



BGPlay (3/5)



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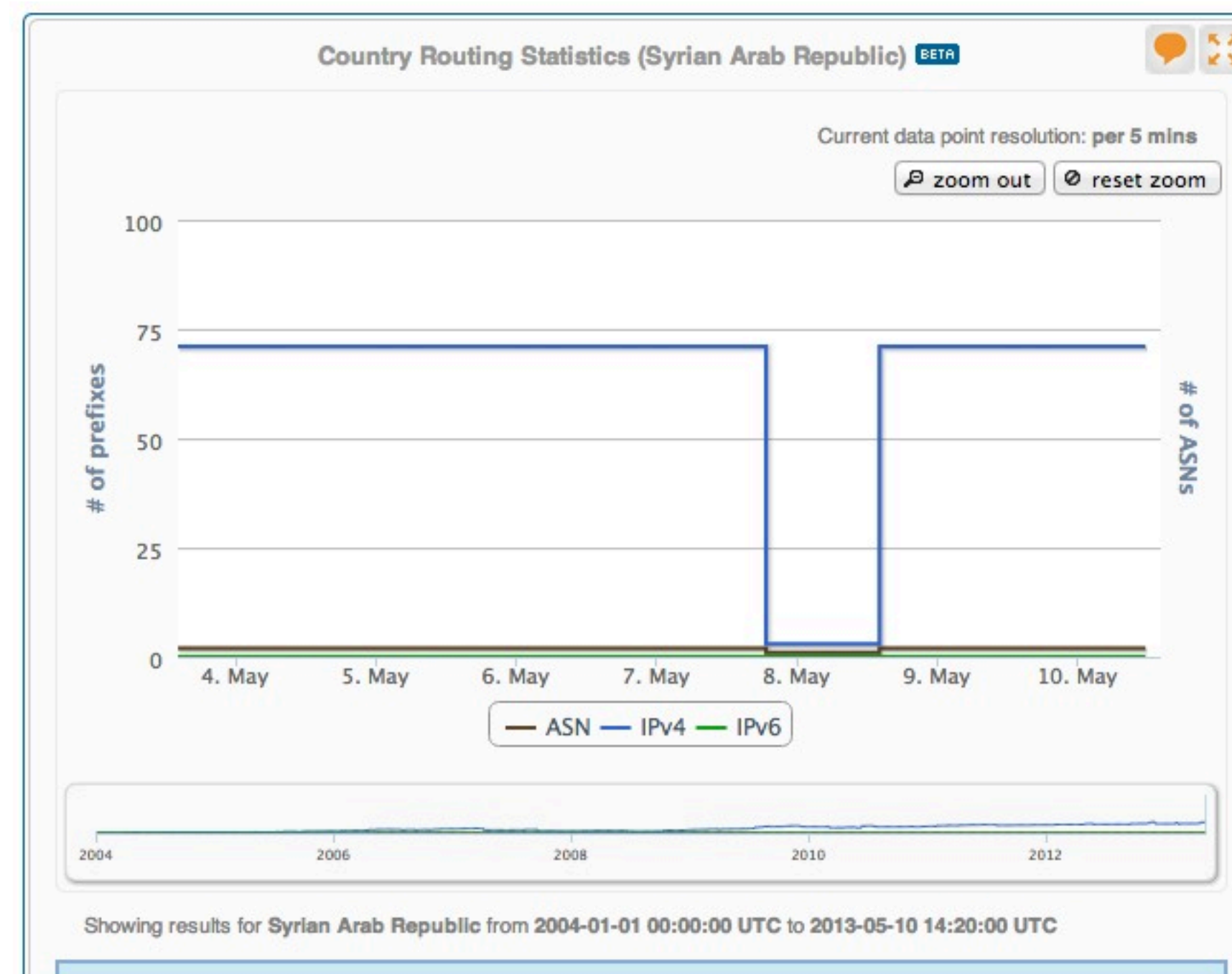


Country Support (4/5)

- Internet blackout in Syria December 2012
- New data set for country routing statistics
- Country Routing Stats widget

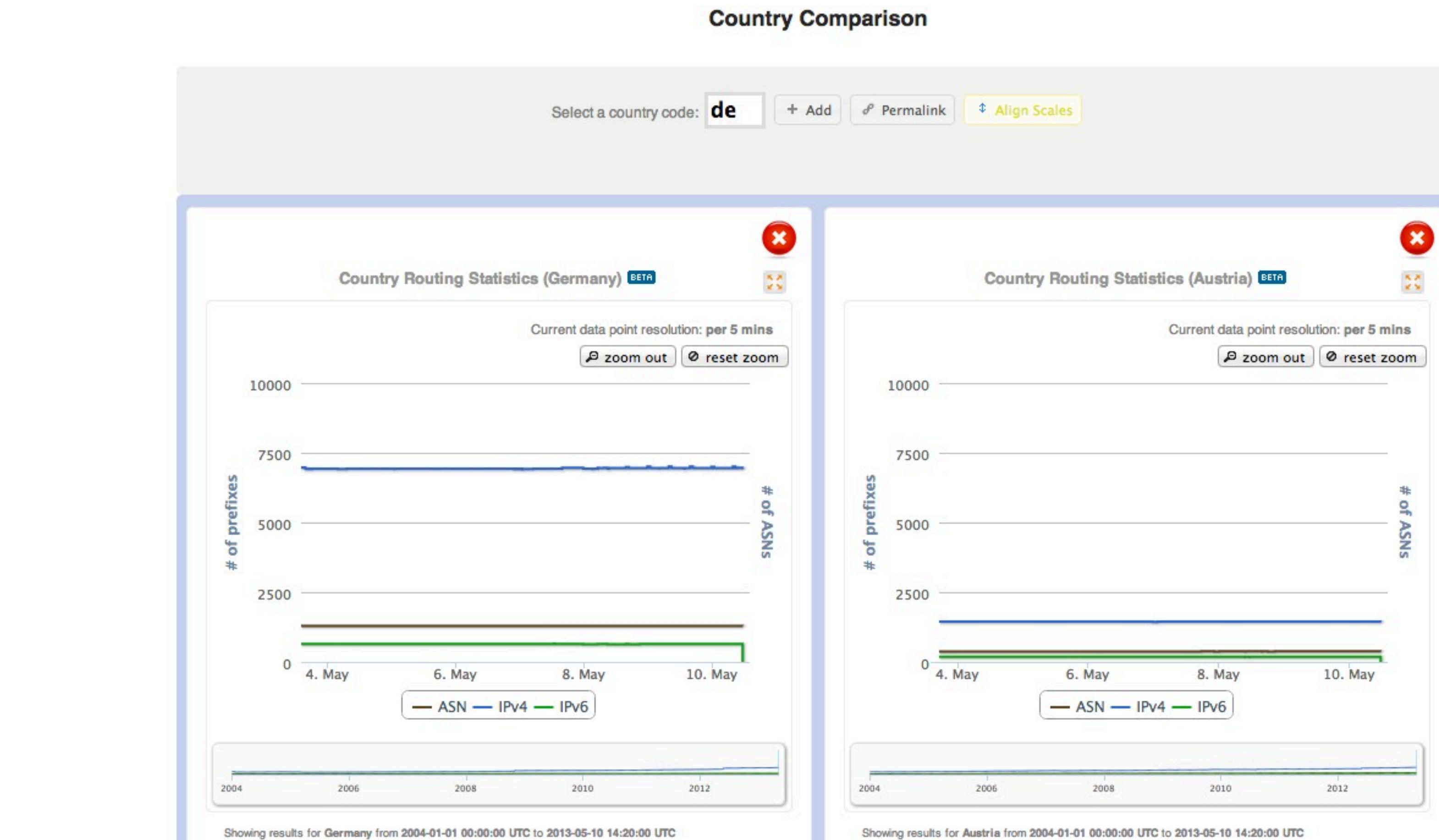
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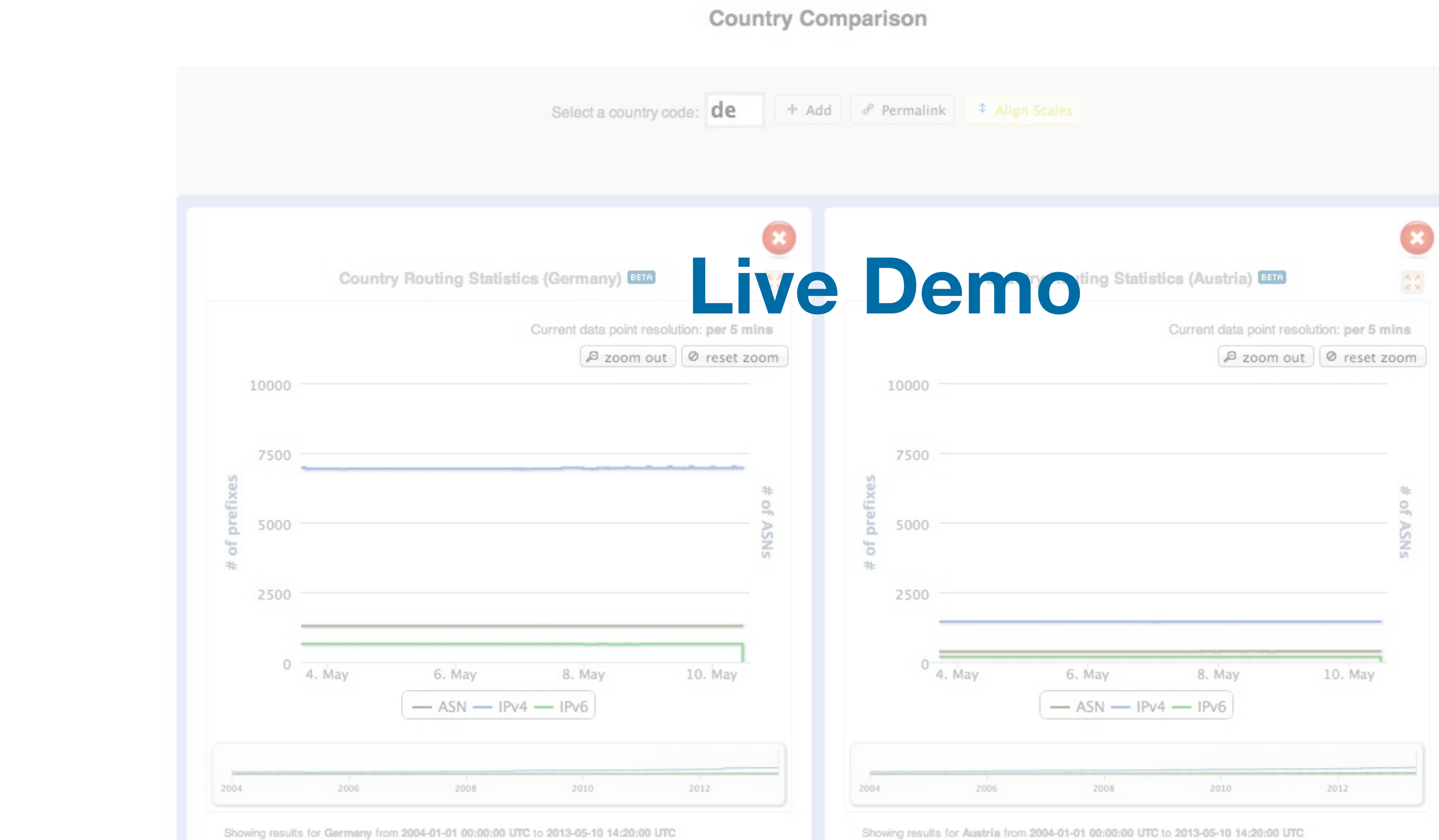
Country Support (4/5)

- Comparison of multiple Country Routing Stats widgets



Country Support (4/5)

- Comparison of multiple Country Routing Stats widgets



Country Support (4/5)

- In-widget comparison



Custom Views (5/5)

- Next:
 - Phase 2: Widget controls
 - Phase 3: User-defined views

The screenshot displays a web interface for RIPEstat. On the left, a sidebar contains a list of widgets: 'At a Glance' (4), 'Routing' (9), 'Anti Abuse' (1), 'Database' (5), and 'Geographic' (2). Below this list is a section titled 'My View'. The main content area shows three widgets: 'Resource Overview (as3333)', 'Geoloc (as3333)', and 'Object Browser (as3333)'. The 'Resource Overview' widget displays the text 'RIPE-NCC-AS - Reseaux IP Europeens Network Coordination Centre (RIPE NCC)' and 'This ASN is part of AS1-65535, the 16-bit ASN Block.' The 'Geoloc' widget shows a map of Europe with a location marker in Germany. The 'Object Browser' widget displays a table of attributes for AS3333.

Object Browser (as3333)	
aut-num:	AS3333
as-name	RIPE-NCC-AS
descr	Reseaux IP Europeens Network Coordination Centre (RIPE NCC)
org	ORG-RIEN1-RIPE

- Drag&drop widgets
- Reorder, rename widgets
- Dashboard functionality
- Possibility to share

Custom Views (5/5)

- MyViews

permalink

At a Glance (4)

Routing (10/11)

DNS (1)

Anti Abuse (1)

Database (5)

Geographic (2)

Activity (2)

+ MyView ?

Monitor (2)

Routing Status (AS3333)

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Compare to 1 week earlier

Showing results for **AS3333** as of 2013-05-09 00:00:00 UTC

source data embed code permalink info

Geoloc (AS3333)

Map Satellite

Custom Views (5/5)

- MyViews

At a Glance (4)

Routing (10/11)

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Geoloc (AS3333)

Map Satellite

Lubeck

Norderstedt

Future Focus Points

- In-widget comparison
- More country based data sets (e.g. IPv6 RIPEness per country)
- NG UI Dashboard
- Incorporate various small tools
- Webinars

Discussion/Feedback

- ...questions?
- Feedback after RIPE66
 - stat.ripe.net/feedback
 - Let other's know! - use comments
 - **stat@ripe.net**
 - and Twitter (#ripestat)

The End

Next demo will be published on RIPEstat

This session and the slides will be archived on RIPE labs:
<http://labs.ripe.net/>

See previous demos and other videos on:
<http://www.youtube.com/user/RIPENCC/>

