



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPEstat

One-Stop-Shop For Internet
Data

Christian Teuschel | 2017-05-24 | SINOg 4.0



- The source for Internet data and statistics





Data Sets

Registry Data



- Registry of Internet number resources (INR)
- Five Regional Internet Registries

ARIN
American Registry for Internet Numbers

5,379 members

https://www.arin.net/about_us/membership/index.html - Nov 2016

~6k members

<http://www.lacnic.net/en/web/lacnic/listado-miembros> - Nov 2016

lacnic

RIPE
NCC

14,699 members

<https://labs.ripe.net/statistics/number-of-lirs> - Nov 2016

APNIC

5,794 members

<https://www.apnic.net/get-ip/apnic-membership/who-are-our-members> - Nov 2016

AFRINIC
The network to connect the world

1,419 members

<http://www.afrinic.net/en/about/our-members> - Nov 2016

Registry Data



- Internet Routing Registry (IRR)
- Purpose to facilitate routing (RPSL)

IRR
Internet Routing Registry™

List of Routing Registries

This list was designed for the Internet community. It enables users to coordinate their contact information.

- AFRINIC
- ALTDB
- AOLTW
- APNIC
- ARIN
- BELL
- BBOI
- CANARIE
- EASYNET
- EPOCH
- GT
- HOST
- JPIRR
- LEVEL3
- NESTEGG
- NTTCOM
- OPENFACE
- OTTIX
- PANIX
- RADB
- REACH
- RGNET
- RIPE
- RISQ
- ROGERS
- TC

List of Routing Registries

Overview of the IRR

RPSL Reference Guide

FAQ: Why Use a Routing Registry?

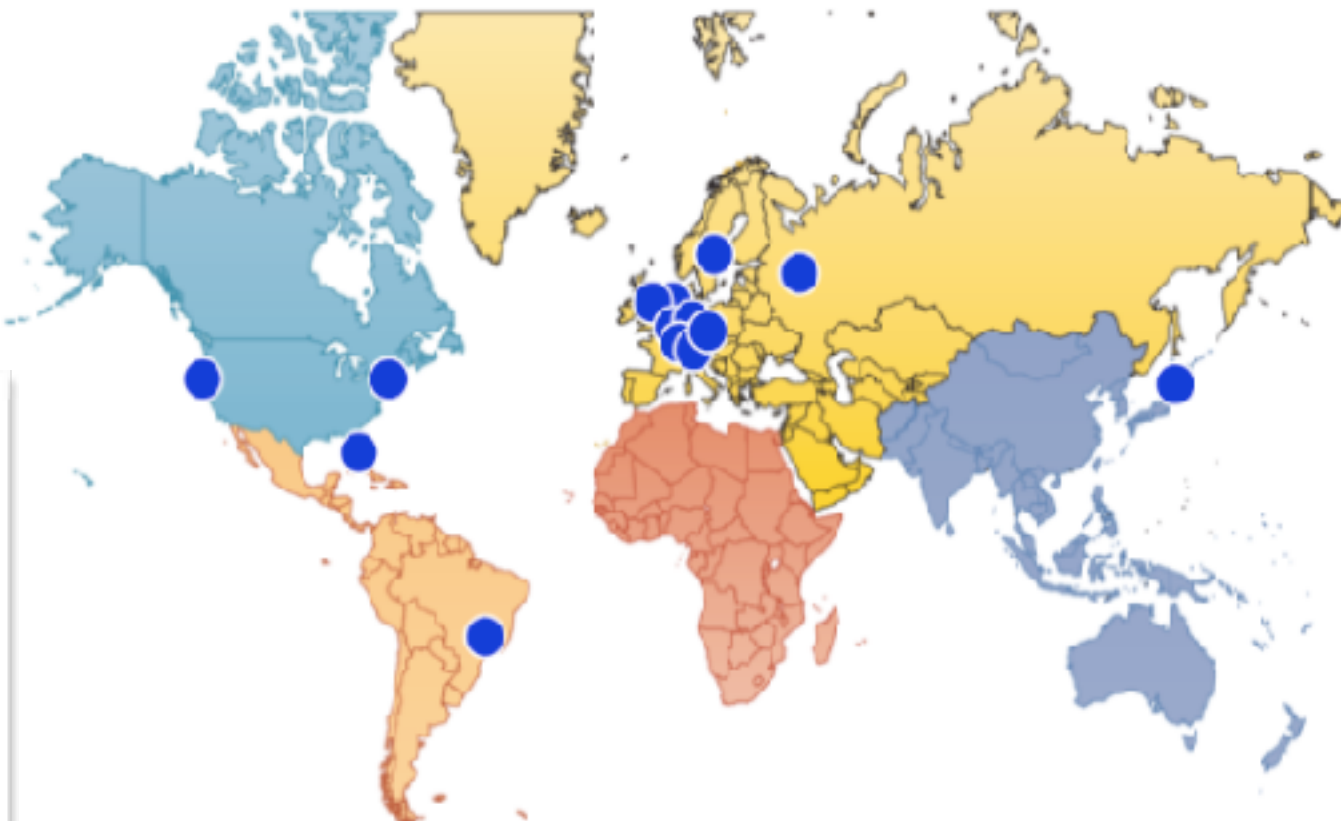
<http://www.irr.net/docs/list.html>

Routing Data



- RIS

- The RIPE NCC has been collecting BGP data since 1999
- 18 collectors and growing
- 160+ full-feed peers
- <http://ris.ripe.net>



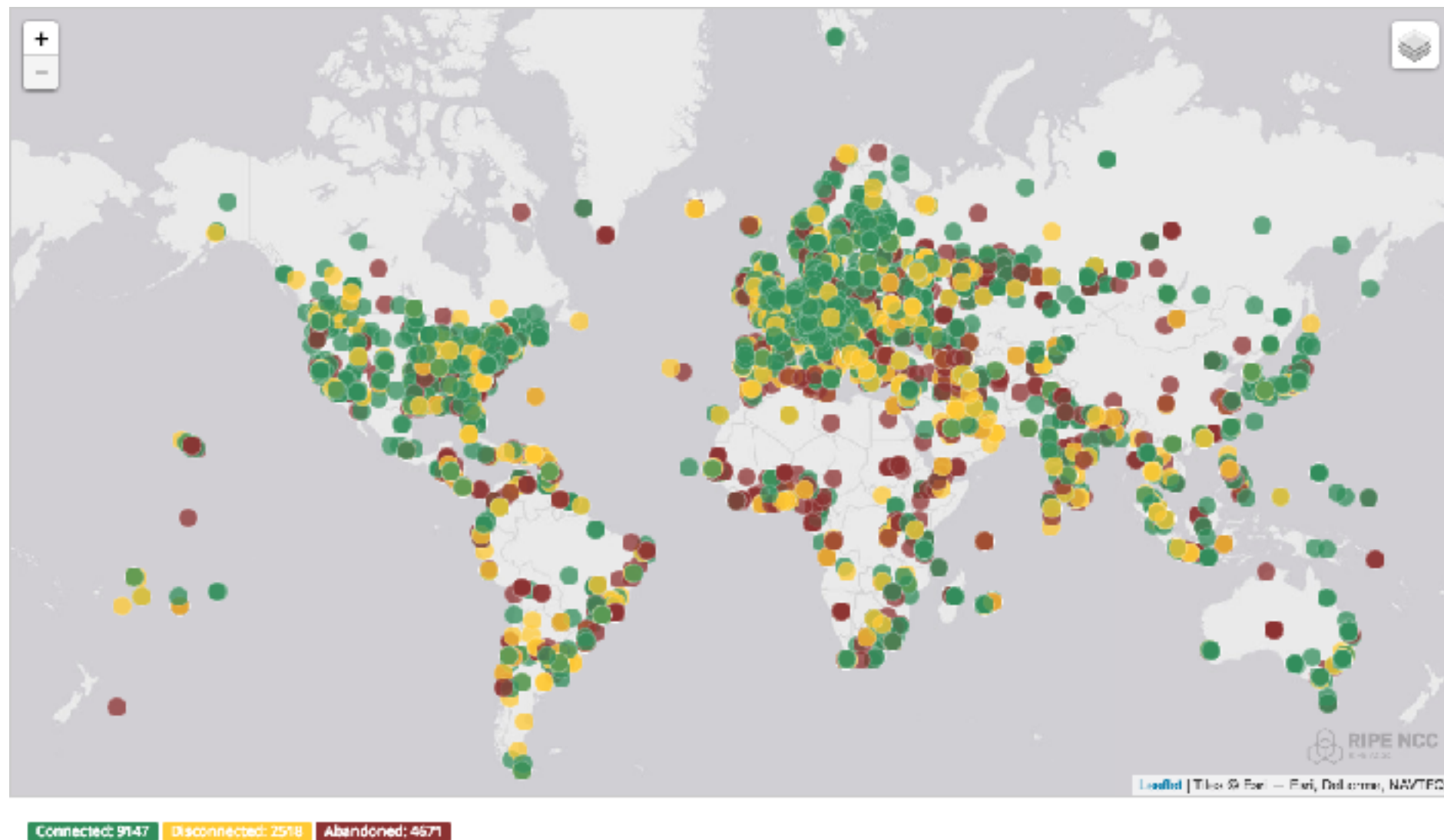
Index of /rrc00

Name	Last modified	Size	Description
 Parent Directory		-	
 logs/	30-Aug-2016 12:55	-	
 latest-update.gz	06-Nov-2016 17:00	261K	
 latest-bview.gz	06-Nov-2016 16:05	53M	
 invalid/	03-Oct-2013 13:54	-	
 2016.12/	31-Oct-2016 00:00	-	
 2016.11/	06-Nov-2016 17:05	-	
 2016.10/	01-Nov-2016 00:05	-	
 2016.09/	01-Oct-2016 00:03	-	

RIPE Atlas

active ✓

- Global network for Internet measurements

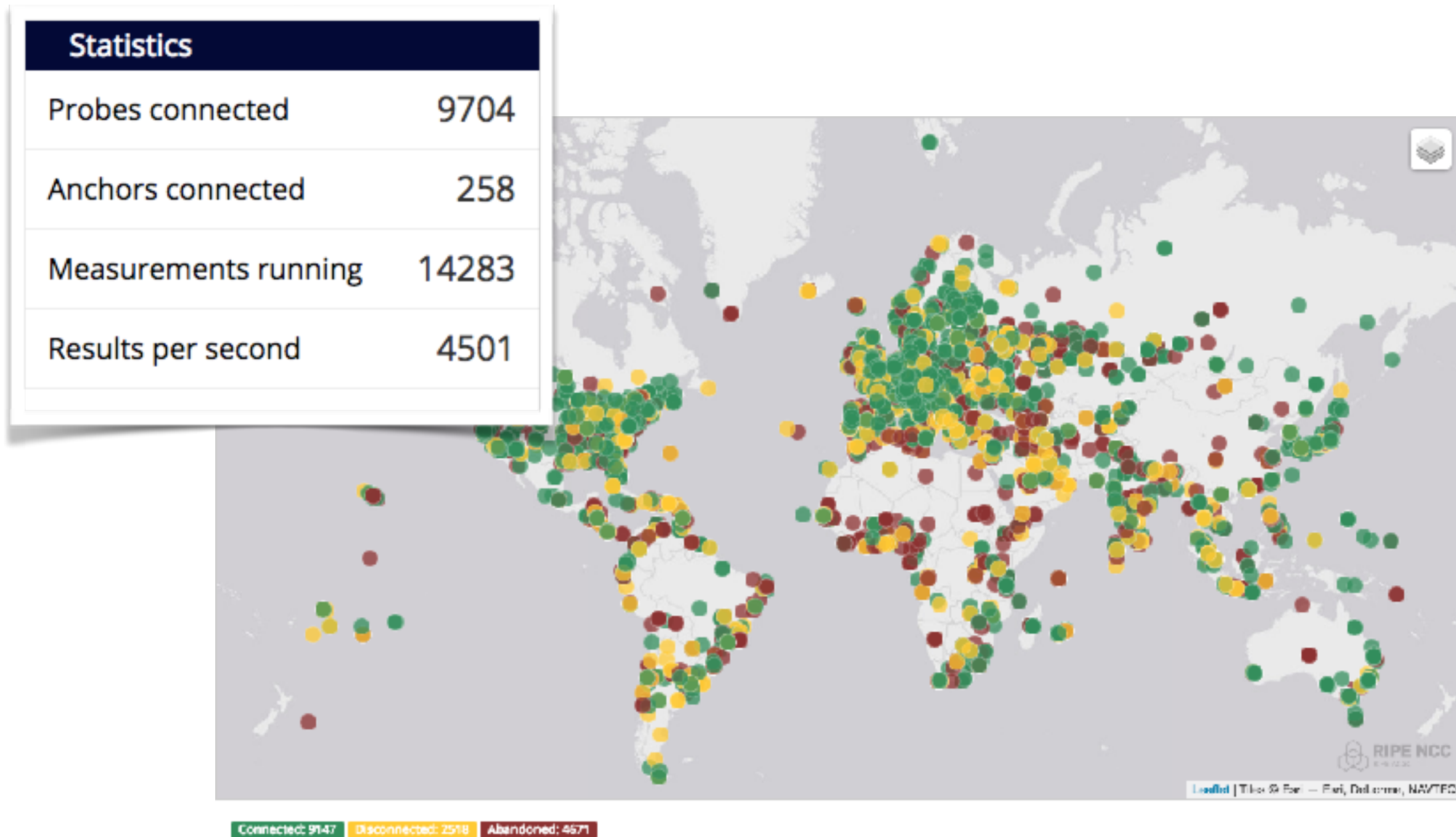


RIPE Atlas

active
✓



- Global network for Internet measurements



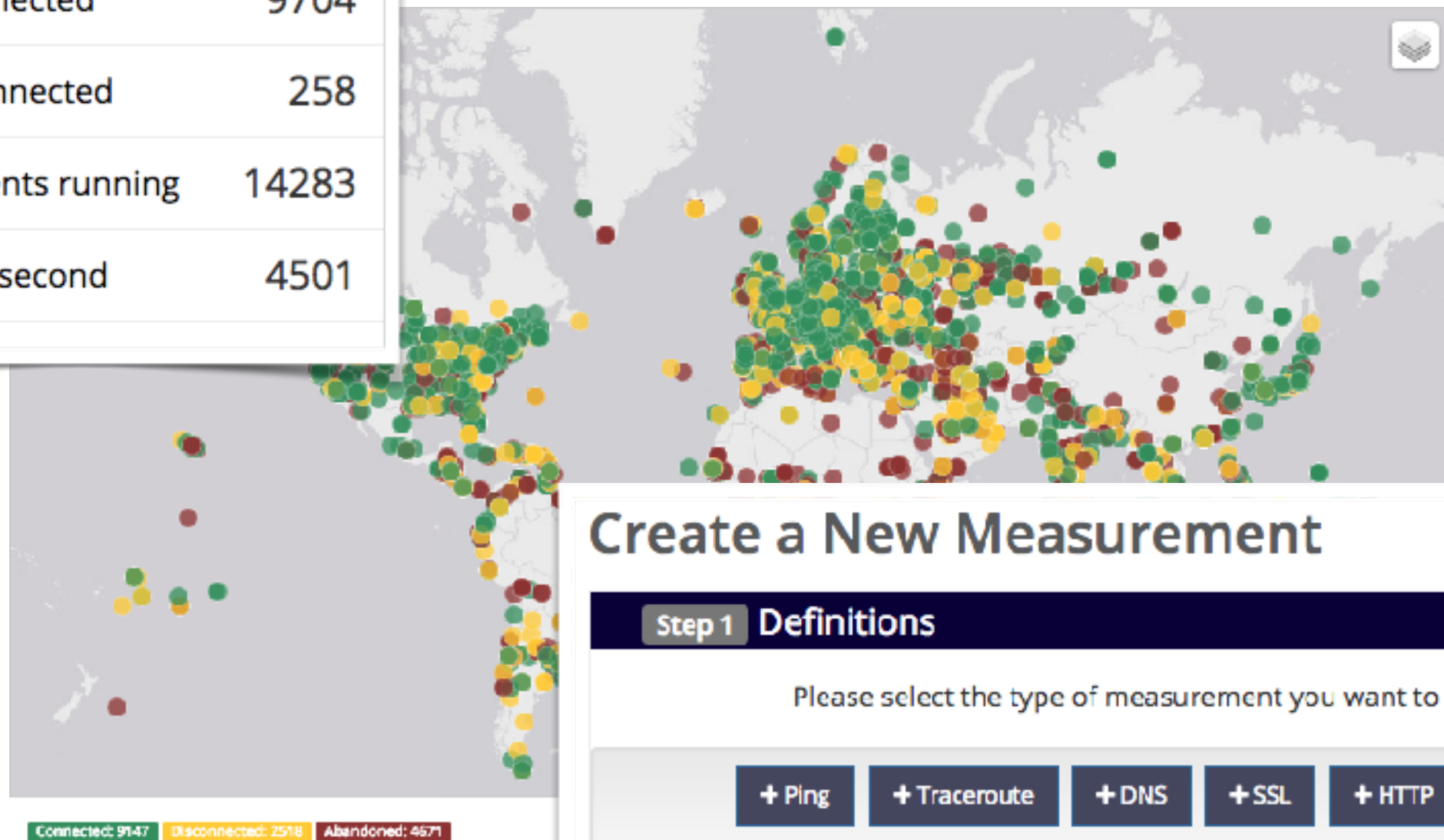
RIPE Atlas

active
✓



- Global network for Internet measurements

Statistics	
Probes connected	9704
Anchors connected	258
Measurements running	14283
Results per second	4501



Create a New Measurement

Step 1 Definitions

Please select the type of measurement you want to create

+ Ping

+ Traceroute

+ DNS

+ SSL

+ HTTP

+ NTP

RIPEstat



- Access to these datasets:
 - RIPE Database (INR, IRR) and other RIRs
 - BGP routing data (RIS)
 - RIPE Atlas, M-Lab, Speedchecker, etc.
 - Geolocation
 - Blacklist
- New datasets are constantly added!

The logo features the text "MLAB" in a bold, sans-serif font, with the "M" underlined. It is enclosed in a white rectangular box with a subtle drop shadow.

MLAB

The logo features the word "BROADBAND" in a large, bold, black sans-serif font, with a stylized speedometer icon integrated into the letter "O". Below it, the word "speedchecker" is written in a smaller, red, lowercase sans-serif font. The entire logo is enclosed in a white rectangular box with a subtle drop shadow.

BROADBAND
speedchecker

The logo features a network diagram with several blue nodes connected by thin grey lines. Below the diagram, the word "MAXMIND" is written in a blue, sans-serif font, with the "M" and "I" in a lighter blue shade. The entire logo is enclosed in a white rectangular box with a subtle drop shadow.

MAXMIND

The logo features the word "SPAMHAUS" in a bold, blue, sans-serif font. It is enclosed in a white rectangular box with a subtle drop shadow.

SPAMHAUS

...

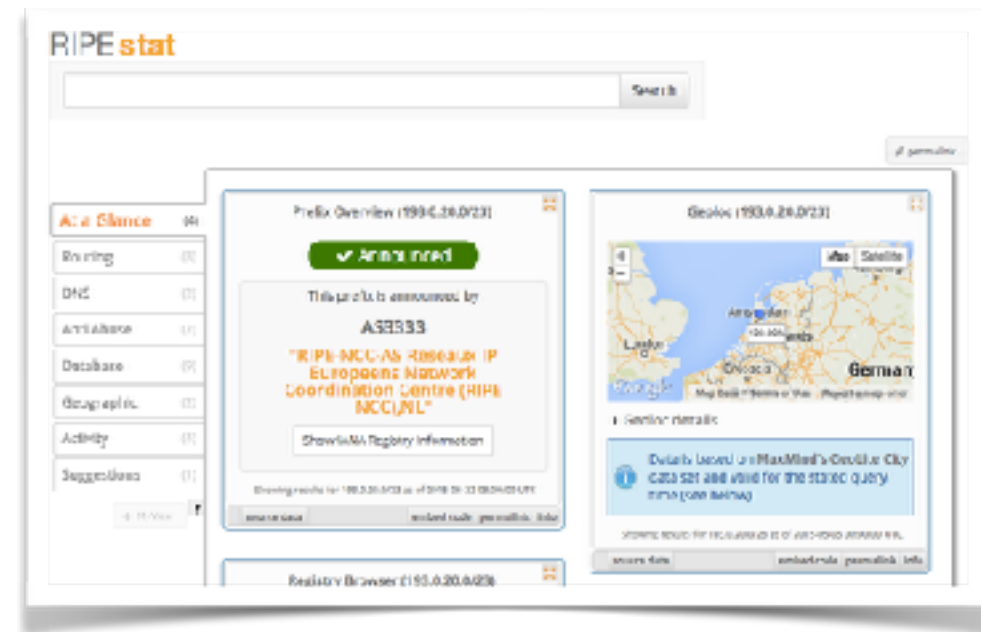


APIs

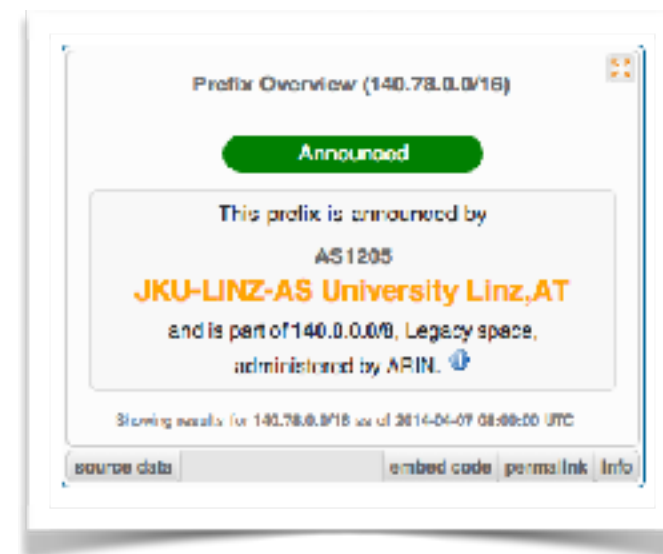
RIPEstat



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



- RIPEstat widget API



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



You are here: [Home](#) > [Analyse](#) > [Statistics](#) > RIPEstat

[RIPEstat Home](#)[About RIPEstat](#)[Documentation](#)[Use Cases](#)

Your IP address is:

2001:67c:2e8:9::c100:14e6

System Statistics

1,429,622

Requests seen in the last full hour on RIPEstat

On RIPE Labs

New Feature: Easily Embed your
RIPEstat Widgets in RIPE Labs
Articles

Search RIPEstat

[Search](#)

Your network: [AS3333](#), [2001:67c:2e8::/48](#)

e.g.: [IPv4 prefix/range](#), [IPv5](#), [ASN](#)

RIPEstat Data API
RESTful. Versatile.
And all about data.



RIPEstat



Login

RIPE NCC

RIPE Database (Whois)

Website

On average 30+ million requests/day!



1,429,622

Requests seen in the last full hour on RIPEstat

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RIPEstat



Login



About Us

Search

Your network: [AS3333](#), [2001:67c:2e8::/48](#)

e.g.: [IPv4 prefix/range](#), [IPv5](#), [ASN](#)

Supported resources:

- * IP address/prefix (v4/v6)
- * ASN
- * Domain names
- * Country

Manage IPs and ASNs

Analyse

You are here: [Home](#) > [Analyse](#) > [Statistics](#) > [RIPEstat](#)

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[Use Cases](#)



Your IP address is:

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System Statistics

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RIPEstat **Data API**

RESTful. Versatile.
And all about data.





» You are here: [Home](#) > [Analyse](#) > [Statistics](#) > [RIPEstat](#) > 193.0.20.0/23

[permalink](#)

At a Glance (4)

[Routing \(9\)](#)[DNS \(2\)](#)[Anti Abuse \(2\)](#)[Database \(9\)](#)[Geographic \(2\)](#)[Activity \(4\)](#)[Suggestions \(1\)](#)

Prefix Overview (193.0.20.0/23)

✓ **Announced**

This prefix is announced by

AS3333

"RIPE-NCC-AS , NL"

RIR	Status	Registration	Country
RIPE NCC	ALLOCATED	1993-09-01	NL

Geoloc (193.0.20.0/23)



► **Geoloc details**

RIPEstat - Data API



- More than 50 data calls
- Ideal if you build applications/visualisations
- “True value lies in combining data”
- Documentation:

https://stat.ripe.net/docs/data_api

```
- meta: {
  time: "2017-05-24T08:07:25"
},
- data: [
  - {
    iso3166_alpha2_code: "SI",
    - _id: {
      $oid: "58f7489ae9f9e43ee7bf6a36"
    },
    capital: "Ljubljana",
    formal_name: "Republic of Slovenia",
    sort_order: 157,
    sub_type: "",
    type: "Independent State",
    iso3166_number: 705,
    common_name: "Slovenia",
    itu_telephone_code: "386",
    iso4217_currency_name: "Euro",
    iso4217_currency_code: "EUR",
    iso3166_alpha3_code: "SVN"
```

RIPEstat - Widget API



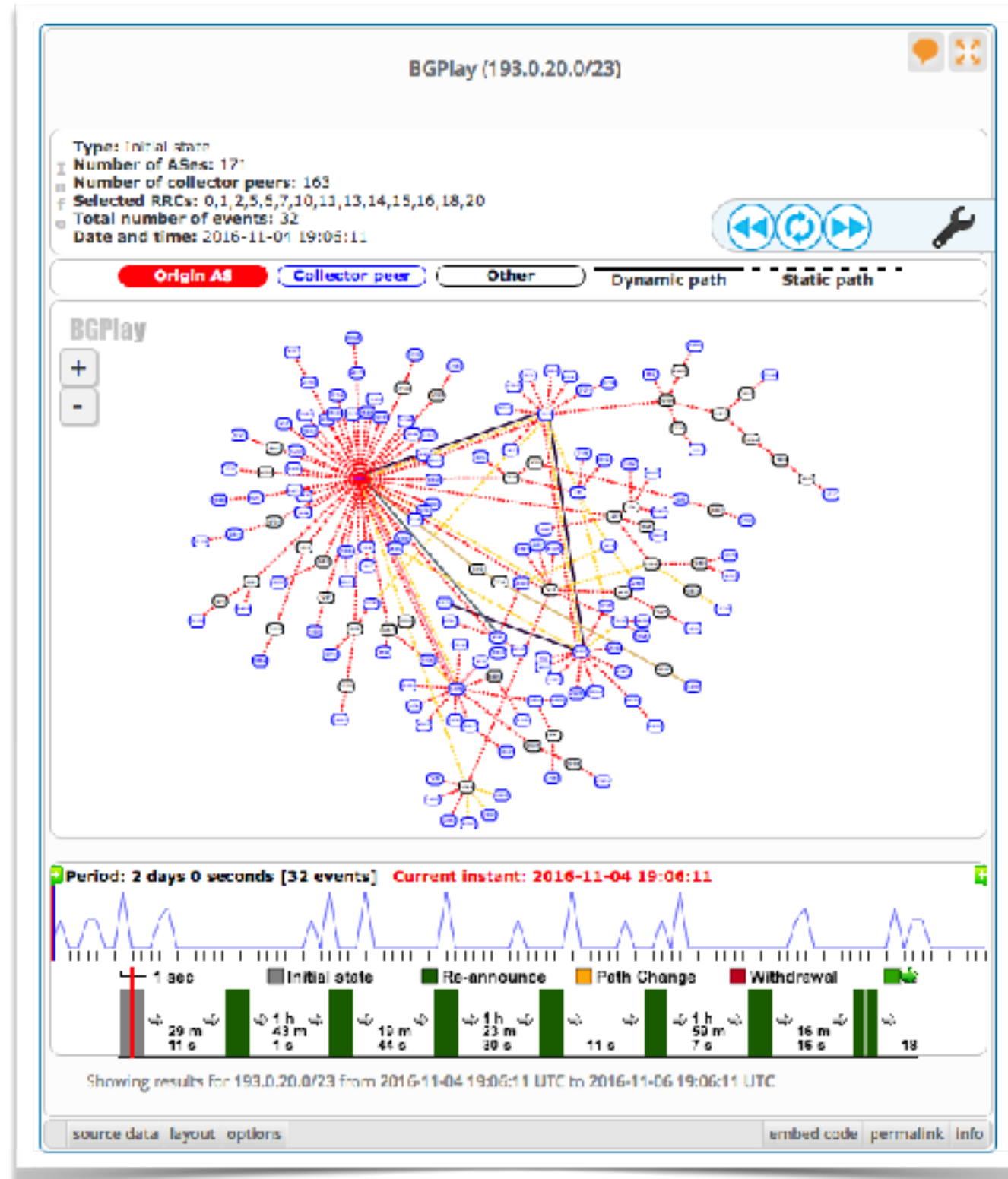
- HTML5/CSS/JS applications
- Standard Javascript
 - JQuery
 - Require.js
- More than 50 widgets
- Documentation
 - https://stat.ripe.net/docs/widget_api



Use Cases

Routing

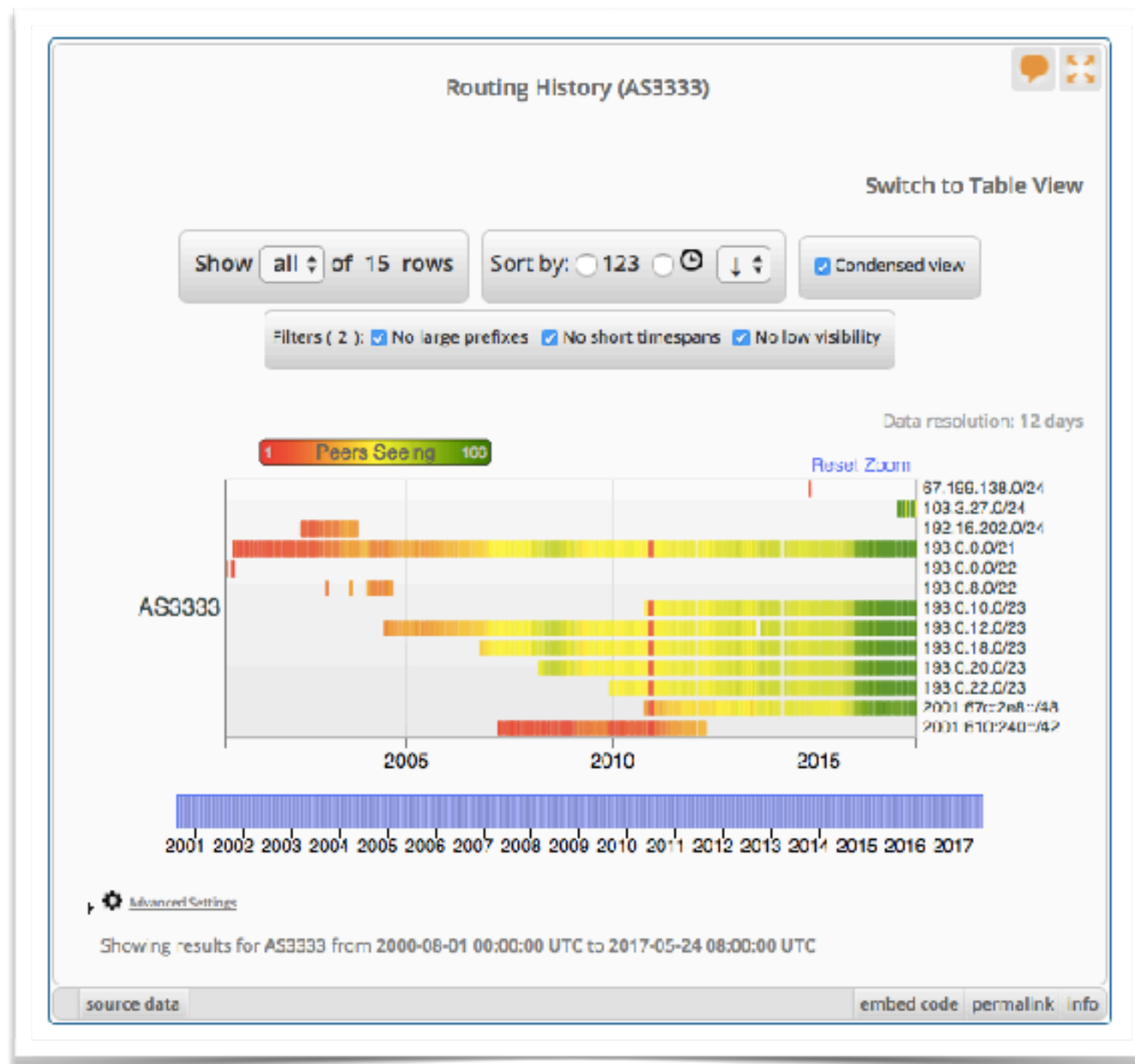
- BGPlay



Routing



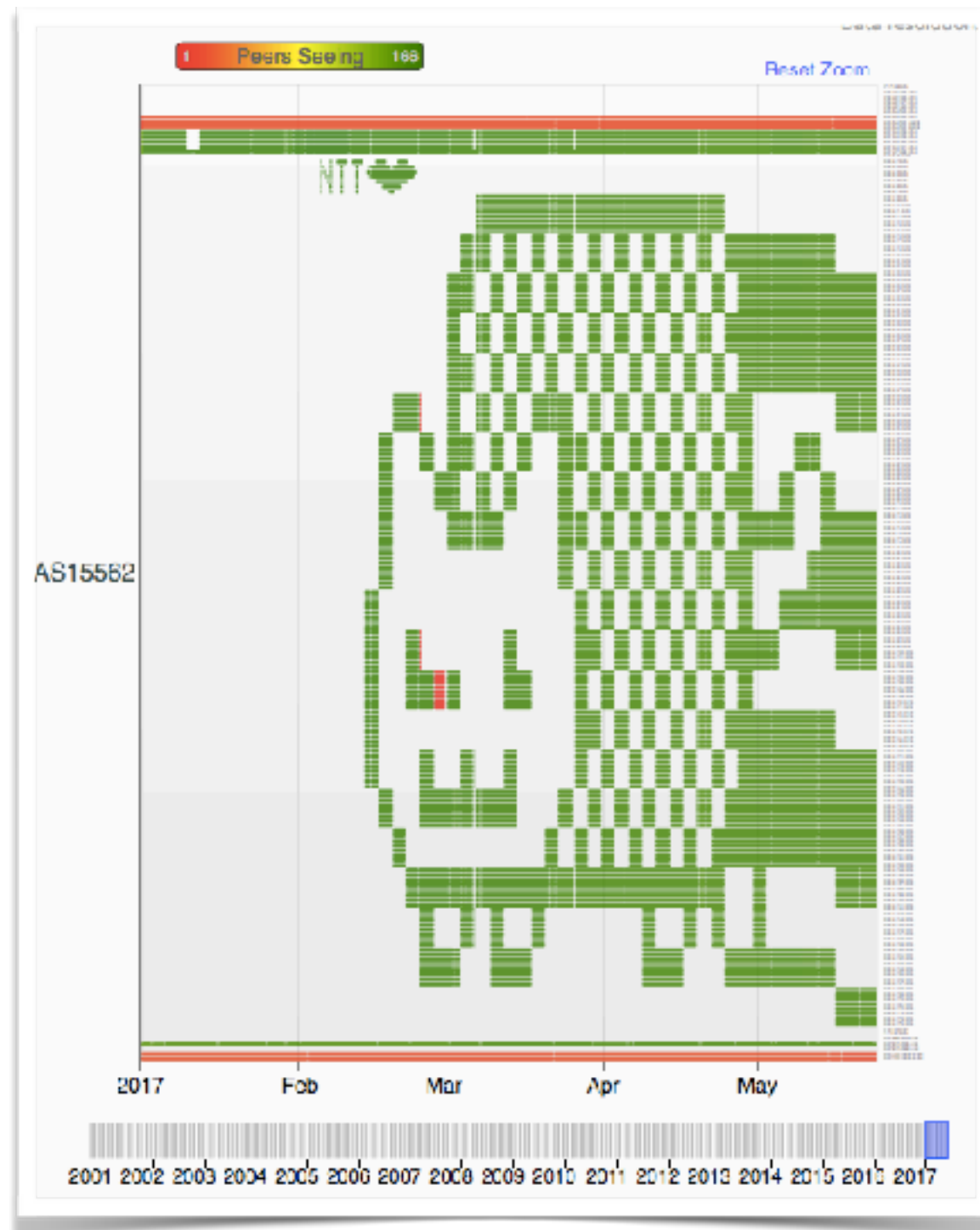
- Routing History



Routing



- Routing History



Abuse Handling



- Abuse-c

Abuse Contact Finder (193.0.20.0/23)

Email-Contact

abuse@ripe.net

☐ Resource information
☐ Information for resource holders

Showing results for 193.0.18.0-193.0.21.255 as of 2016-11-06 19:47:00 UTC

Please note that the found contact may be unresponsive. For details please click on 'info' below.

For this prefix we could not find an exact match (193.0.20.0/23) but a less specific IP address space (193.0.18.0-193.0.21.255) was found in the RIPE DB. The result is based on this IP space.

source data

embed code

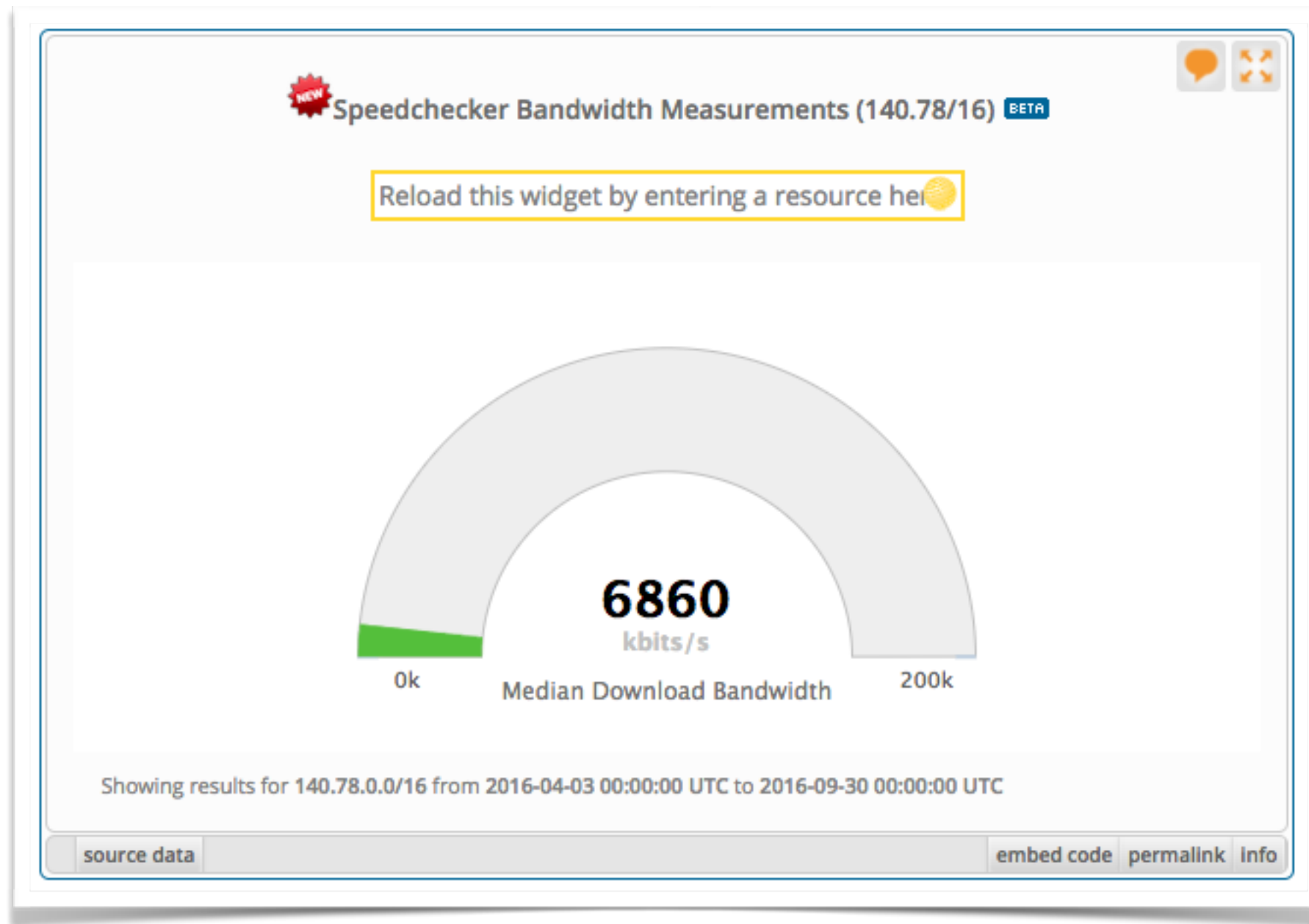
permalink

info

Active Measurements



- Bandwidth



Aggregated Data



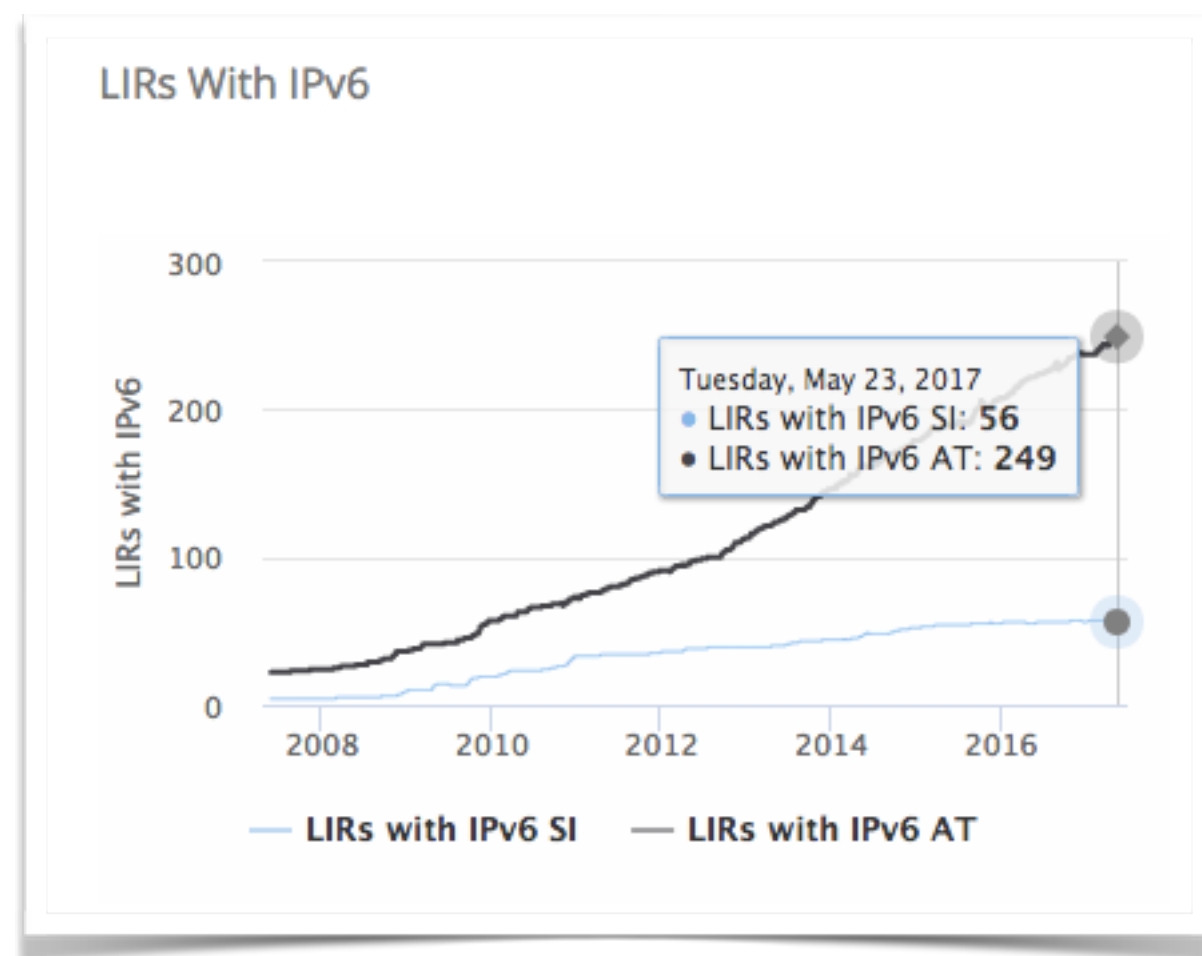
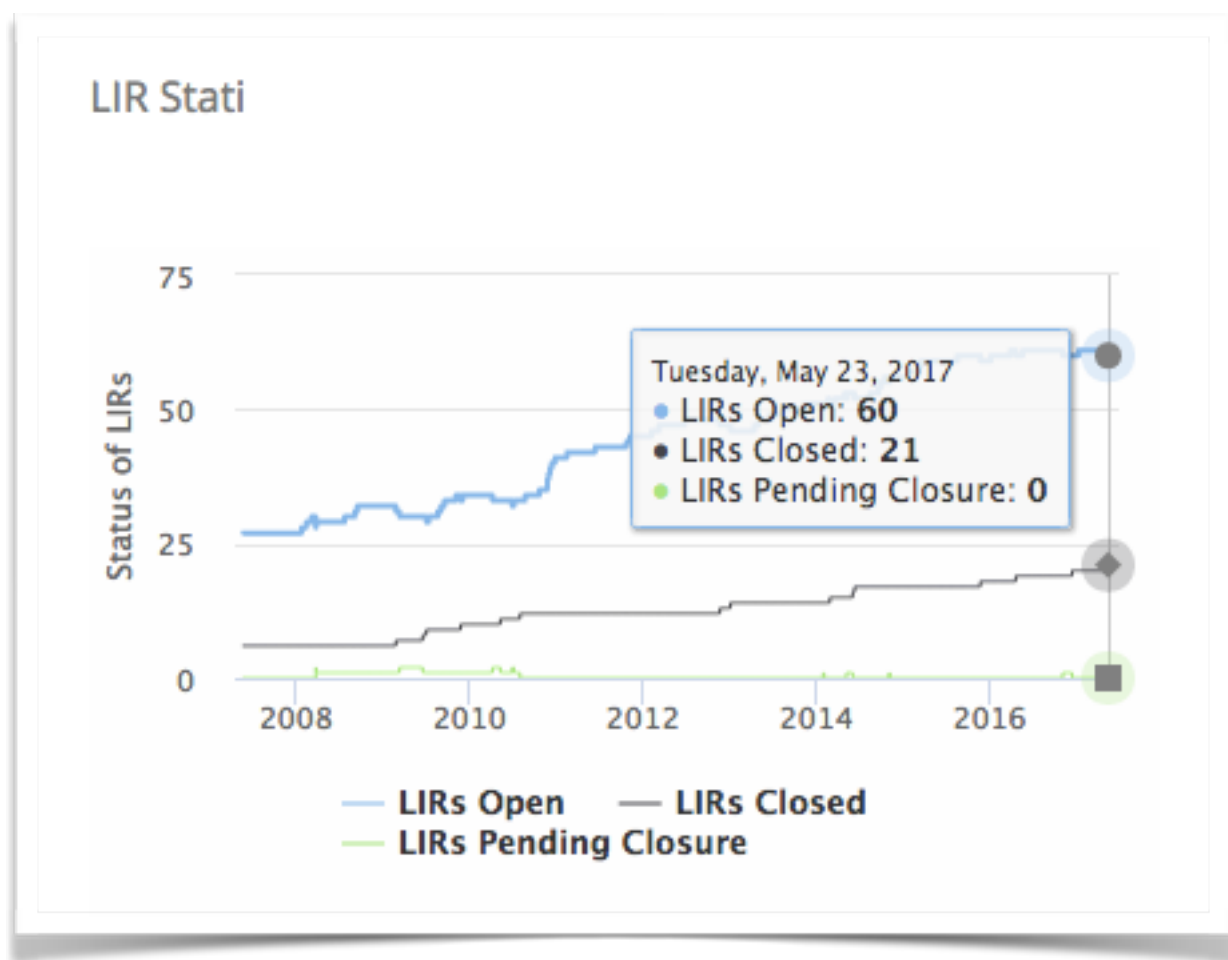
- Country statistics



What is next?



- More data
- More visualisations
- Country Reports





Questions



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