

RIPE Atlas Update & Roadmap

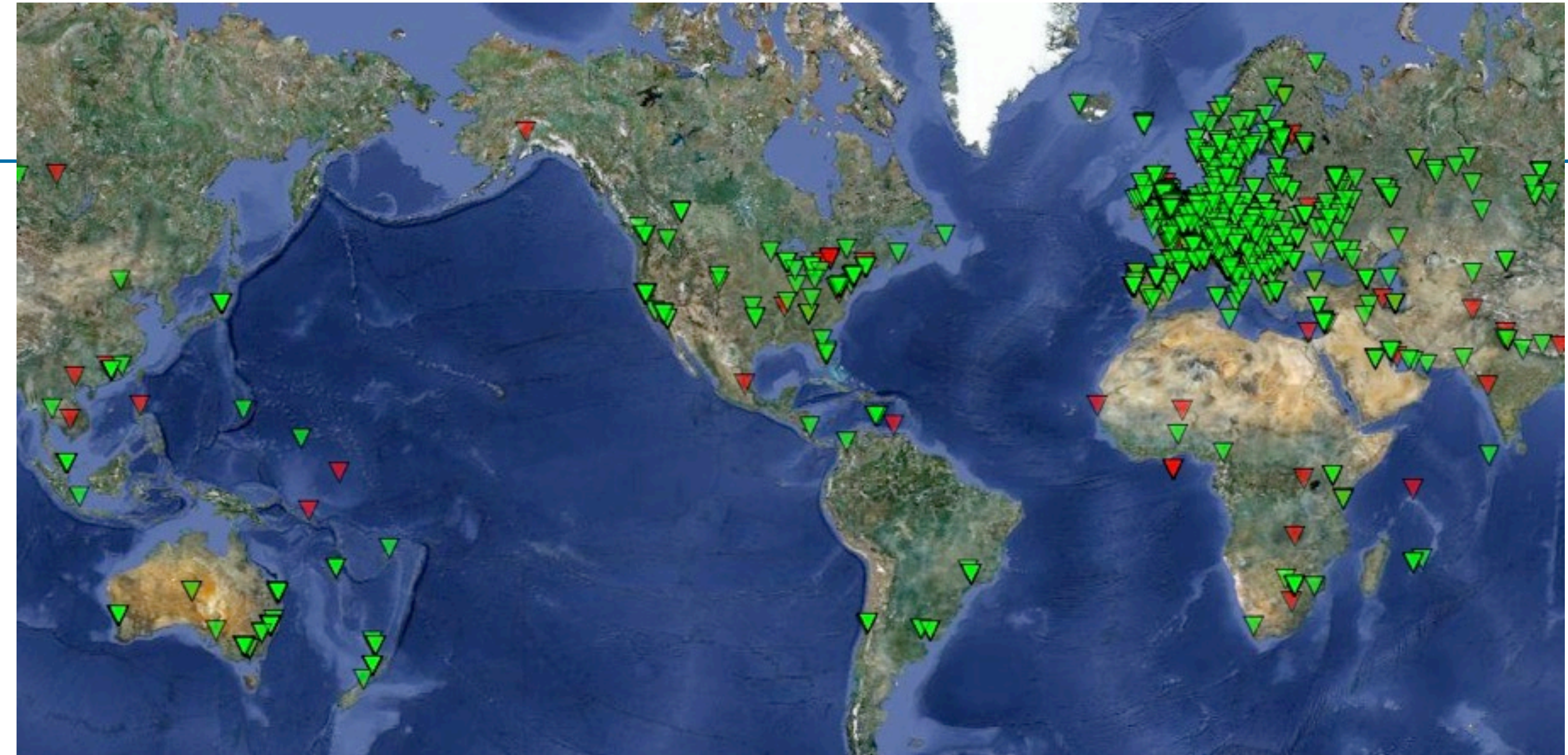
2012-09-27 MAT-WG

[\(Link to RIPE Labs article\)](#)



RIPE Atlas

- RIPE Atlas: a network of active probes measuring the Internet infrastructure in real-time
- Started in 2010
- Keeping community involved
 - roadmap updates
 - request for feedback & guidance



<https://atlas.ripe.net>

RIPE Atlas: Current Status (27. September 2012)

- **1850** probes are up and running
 - waiting time for new probes is less than a week
- Data collected about built-in measurements available to **everyone**
 - in forms of maps, tables, public probes data and API to download raw data
- User Defined Measurements (UDM) in 4 flavors available
 - ping, traceroute, DNS, SSL: <https://atlas.ripe.net/udm>
- The application procedure for **hosting** the Atlas probe is easy
 - <https://atlas.ripe.net/apply>
- Integrated with RIPE NCC Access (3267 Atlas users!)

RIPE Atlas: Member Services

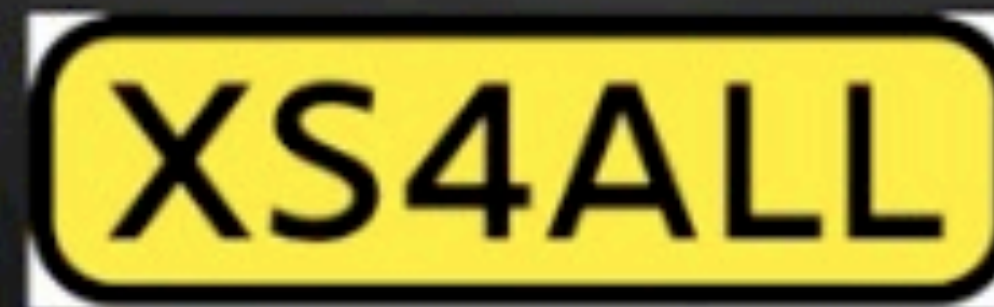
- Out of 3267 users, **1356** are LIRs!
- **LIRs** can also receive **credits** for running UDMs:
 - <https://labs.ripe.net/Members/becha/ripe-atlas-user-defined-measurements-for-lirs>
- One-click measurement "**Test your IPv6**" is available to members
 - with beautiful interactive visualization of traceroute results:
 - <https://labs.ripe.net/Members/emileaben/visualise-your-ipv6-connectivity-using-ripe-atlas>
- Members can apply for hosting an Atlas Anchor
 - <https://labs.ripe.net/Members/dfk/ripe-atlas-anchors>

RIPE Atlas: Update Since August 2012

- Users can get more flavors of customized measurements: **DNS & SSL**
 - <https://labs.ripe.net/Members/becha/dns-user-defined-measurements-in-ripe-atlas>
- Download measurements results without having to be logged in
 - [by deploying & enabling **API Keys**](#)
 - You can share measurements results with colleagues, or the world, securely
- New map: comparing TCP & UDP DNS measurements
- Internal improvements of resiliency and stability
- Atlas hosts and sponsors meeting developers during **RIPE65** in Amsterdam: [“Atlas Bash” slides](#)



RIPE ATLAS is sponsored by:



New sponsors:



RIPE Atlas Roadmap

RIPE Atlas Roadmap: Plans for October

- Making it possible to download credits reports
- Increasing the number of active probes
 - by reminding you if the probe is down using automatic notifications
- Spreading out:
 - Putting extra efforts in distributing probes at training courses & conferences
 - and as Xmas presents to your friends and family :)
- New firmware release
- Deploying first Atlas Anchors
- Making it easier to follow the rate of deployment of Atlas probes over time
 - by updating the **graphs** that show the distribution and status of probes

RIPE Atlas Roadmap: November-December 2012

- More membership-specific services
- Creating **Internet Traffic Maps** based on Atlas data
 - maps will illustrate the health (e.g. reachability) of measured networks
- Increasing the number of active probes
 - by reaching out to users to activate probes that are down
- **Lift all the limits** (except daily credit consumption)
- Making RIPE Atlas **data more accessible** to the wider community
 - by moving publicly available info to www.ripe.net
- Going further with **Atlas Anchors**: target, probe SW, visualizations
- Evaluating next-generation HW device for probes

RIPE Atlas Roadmap: 2013 Plans

- Migrating **DNSmon** functionality to Atlas and Atlas Anchors
- Improving presentation layer by
 - representing Atlas data in **RIPEstat**
 - possible to customize views, and embed widgets in your dashboard
 - adding dynamic data visualization
 - mobile applications for viewing measurements results
- Expanding Atlas with **4000** more probes and **40 more AA!**
- ... and many more features, based on your feedback!
 - anomaly detection - customized notifications
 - HTTP/TCP measurements
 - collecting incoming measurements on Atlas Anchors

RIPE Atlas Roadmap: Feedback

- Direct feedback:
 - Mailing list for active users: <[**ripe-atlas@ripe.net**](mailto:ripe-atlas@ripe.net)>
 - Measurement, Analysis and Tools working group
 - <http://www.ripe.net/ripe/wg/mat/>, [**mat-wg@ripe.net**](mailto:mat-wg@ripe.net)
 - RIPE NCC Services working group: [**ncc-services-wg@ripe.net**](mailto:ncc-services-wg@ripe.net)
 - Questions (ticketised): [**atlas@ripe.net**](mailto:atlas@ripe.net)
 - **#RIPEAtlas** on Twitter (and/or @Ms_Measurements)
- We also follow other network operators lists and events
- <https://atlas.ripe.net>