

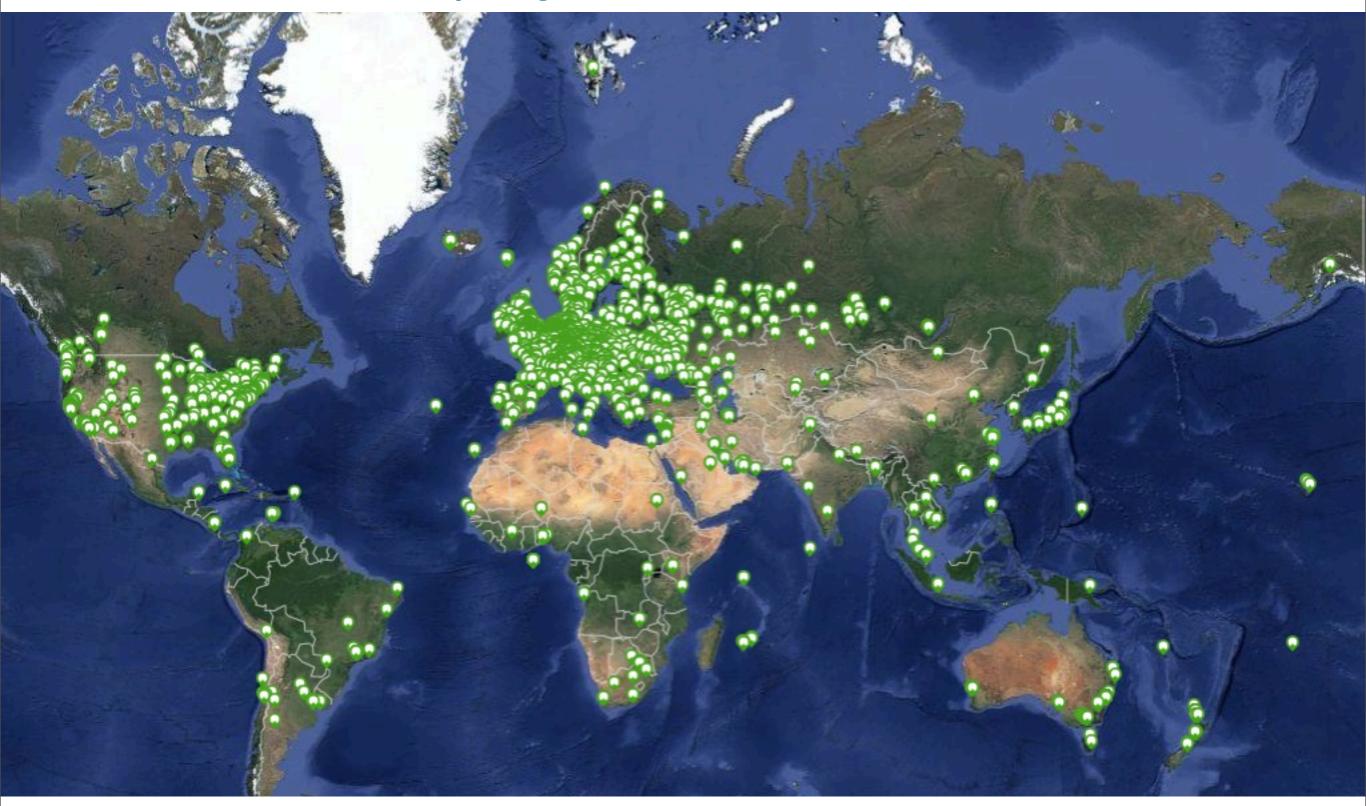
RIPE Atlas Update

MAT-WG, RIPE 67, Athens, October 2013

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RIPE Atlas Deployment





RIPE Atlas: October 2013

- 4,000+ probes up and active
 - (1000 more since RIPE66!)
- 8,600+ registered users
 3,500+ users are from LIRs
- Four types of customised measurements available to probe hosts and RIPE NCC members: ping, traceroute, DNS, SSL



RIPE Atlas Participation and Benefits

- Anyone can become a RIPE Atlas probe host
- Major personal and operational benefit:
 See your network from the outside!
 - Have at your fingertips ~4,000 external vantage points to do customised measurements towards the destination of your choice
- Data of built-in measurements available to everyone
 - Maps, data from public probes, API to download raw data

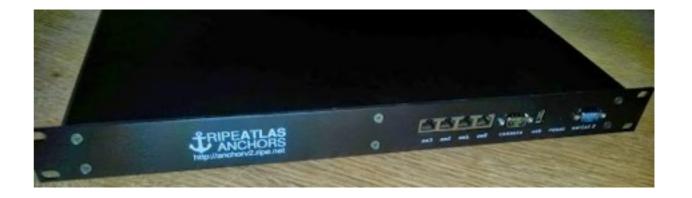


Measurement Devices

- v1 & v2: Lantronix XPort Pro
- v3: TP-Link TL-MR3020 powered from USB port
 - Does not work as a wireless router!
 - -Same functionality as the old probe!
- New RIPE Atlas Anchor: Soekris net6501-70









Visible via RIPEstat: 53 probes in Greece





000:130e3 319.F2.80:1198 58:1096

RIPE Atlas News



RIPE Atlas Anchors

- Anchors: well-known targets and powerful probes
 - Regional baseline & "future history"
- 15 anchors installed
- Anchoring measurements
 - Full-mesh between anchors deployed
 - 1 F anabara
 - Coming up: each probe will measure 4-5 anchors
- Production service launching today!
 - cheaper box, one-service only
 - TTM to be decommissioned
- Apply: https://atlas.ripe.net/about/anchors/



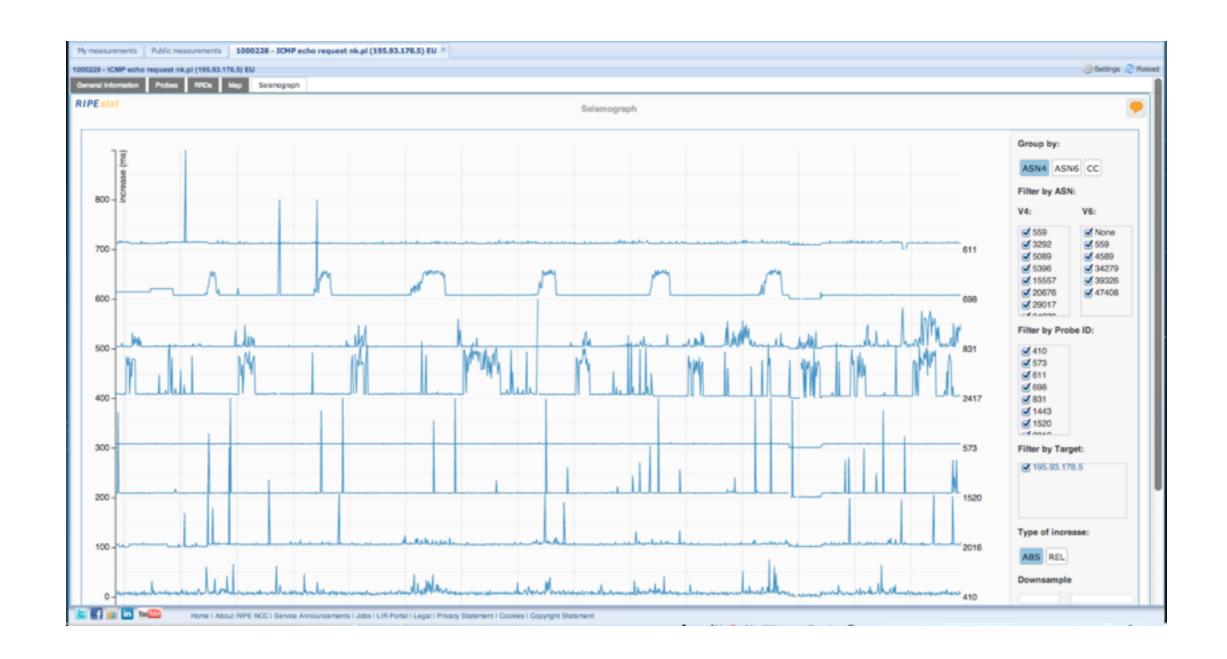
RIPE Atlas: Recent Developments

Seismograph

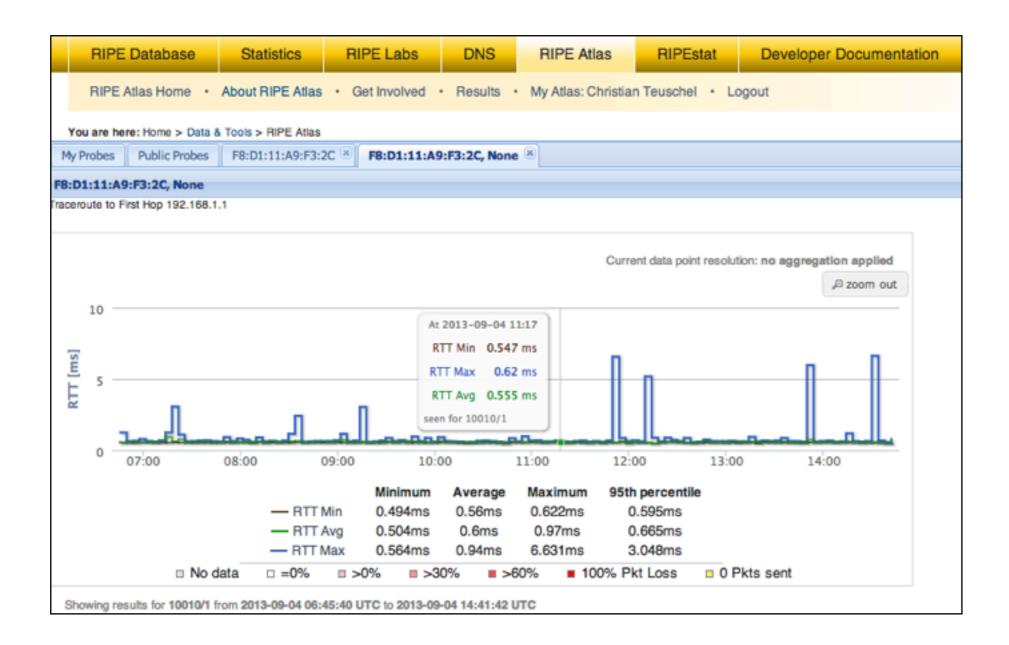
- Multiple ping measurements in one view
- Stacked chart and an interaction control panel
- Based on RIPEstat widget framework
- Zoomable ping graph
 - Replacing multiple RRDs graphs: zoom-in, zoom-out in time, in the same graph, without loss of detail
 - Easier visualisation of details of an event
 - Selection of RTT class (max, min, average)
- New release of firmware (4550)



The Seismograph



Zoomable Ping Graph



Additional Quick Look Measurements

- For RIPE NCC members, via LIR Portal
- Instantaneous view of your target
- Real-time display of results as they roll in
 - Map and table view (ProbelD, ASN, country, RTT)
 - Also as JSON download
- Types:
 - ping
 - DNS (new)
 - traceroute (new)
 - all IPv4 and IPv6, of course



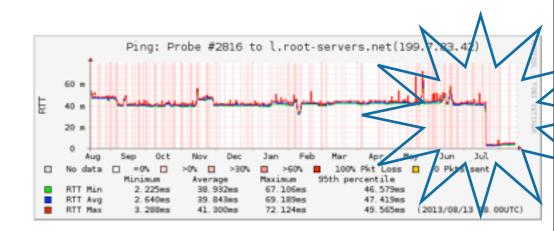
Many More New Features

- Increased frequency of measurements
- Added RING nodes as targets
- Added a map of probes for sponsors
- More visualisations for user-defined measurements
- API refinements
- Improved statistics pages: search by ASN & country
- Improved backend infrastructure



RIPE Atlas Success Stories

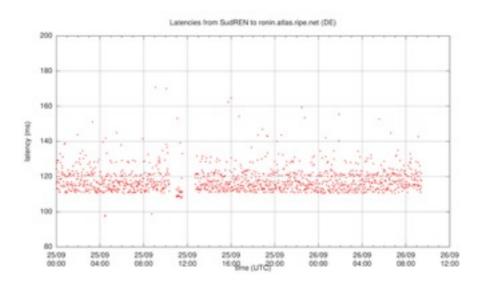
 IXP: Measuring the effect of installing L-root in Belgrade / SOX



DNS: Looking for most popular instances of .FR anycast servers

 Events: Measuring outage of Internet in Sudan

Name server instance	Nr. of probes connecting to instance	Percentage
dns.th2.nic.fr	173	36%
dns.fra.nic.fr	173	36%
dns.lon.nic.fr	47	10%
dns.lyn2.nic.fr	29	6%
dns.lyn1.nic.fr	25	5%
dns.bru.nic.fr	19	4%
dns.ix1.nic.fr	18	4%



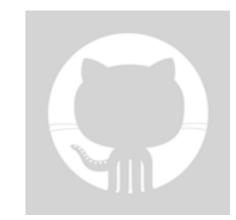


Community News

- Increased participation of "ambassadors"
 - Help in distributing probes
 - Giving workshops, tutorials, and promoting RIPE Atlas
- Active GitHub Community Repository
 - New code and new documents published



- Upload your photos!
- Regularly check New Arrivals and Top Users
- Apply to be an ambassador or sponsor





RIPE Atlas Anchor Hosts































New Arrivals this Month

Guess in which country ENOG6 was?





RIPE Atlas 2013 Sponsors



















Plans for the Future

- Integrating DNSMON in RIPE Atlas and RIPEstat
- Implementing alerts
- Introducing "My Favorite" probe and measurements selection and viewing
- Improving traceroute visualization: T-play
- Increasing distribution via RIR cooperation
- Tell us your feature requests:
 - http://roadmap.ripe.net/ripe-atlas/



Questions from / to Community

- HTTP measurements: limitations and guidelines?
- Alerts: what level of ease or sophistication?
- IPv6: only for researchers? Operators needs?
- Open publication of measurement data
 - to have or not to have private measurements?
- Testing BCP38 compliance
- Most interesting use cases?
- More success stories? Do share!



RIPE Atlas Contact

- https://atlas.ripe.net
- Get a probe: https://atlas.ripe.net/apply
- Mailing list for active users: ripe-atlas@ripe.net
- Articles & updated on RIPE Labs
 - https://labs.ripe.net/atlas
- Questions: atlas@ripe.net
- Twitter: #RIPEAtlas and @RIPE_Atlas
- Community Builder, Vesna Manojlovic:
 - @Ms_Measurements



Questions?



