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Tools & Measurements

IEPG, IETF 86, Orlando, 10 March 2013

Mirjam Kühne, RIPE NCC



Friday, March 8, 13



• New developments in RIPE Atlas

• New developments in RIPEstat

• Other RIPE Labs highlights



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RIPE Atlas



RIPE Atlas - Active Measurements Network

- Next generation Internet measurements network
 - Thousands of measurement nodes
 - Probes run different measurements
 - ping, traceroute, SSL, DNS
- Instead of building small, individual, private infrastructures, build a HUGE common infrastructure that serves both private and community goals



http://labs.ripe.net/atlas

RIPE Atlas Update

- 2,700 active probes and 6,000 users worldwide
 - Increasing number of requests
 - Working on next version of probes
- RIPE Atlas anchors pilot started (10 volunteers)
 - Collecting data from surrounding RIPE Atlas probes
 - Acting as targets for measurements
- New generation probes
 TP-LINK TL-MR 3020





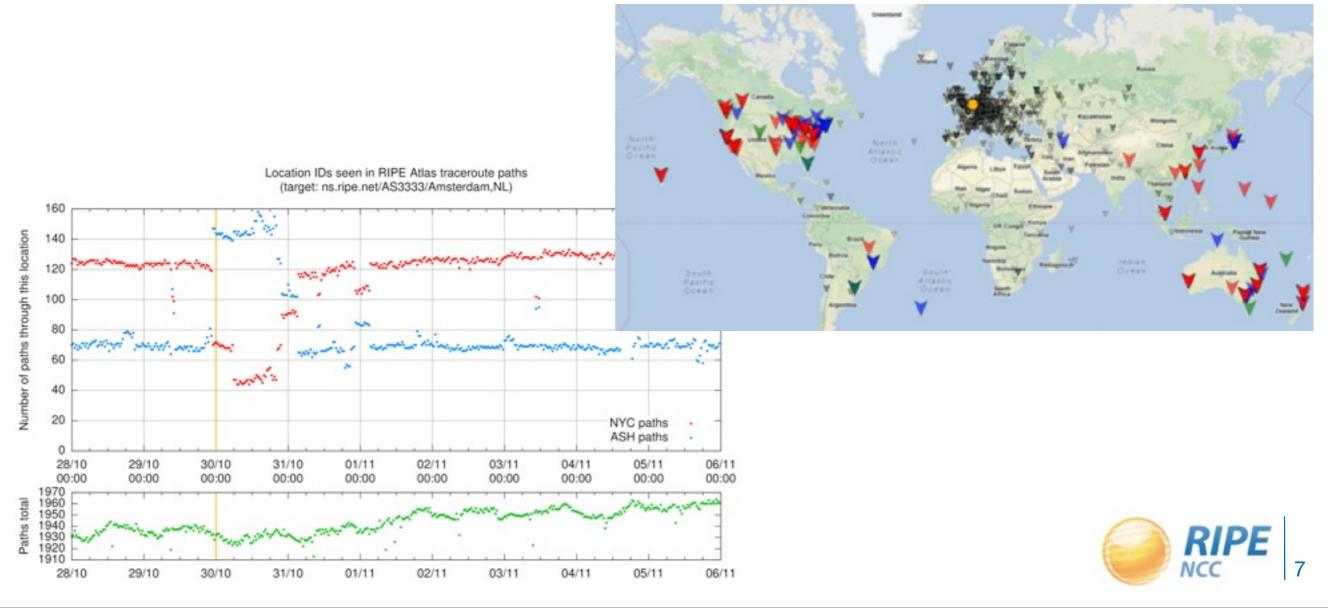
Currently Under Development

- APIs to interact with the system
 - Probe API: info about vantage points
 - Measurement API: info measurements
 - API key to download measurement results owned by user
- One-off measurements
 - Allowing for immediate, one-time measurements
 - In addition to user-defined measurements



Measuring Storm Sandy with RIPE Atlas

- RIPE Atlas probes on East Coast US unavailable during storm Sandy
- Storm had an effect on other parts of Internet

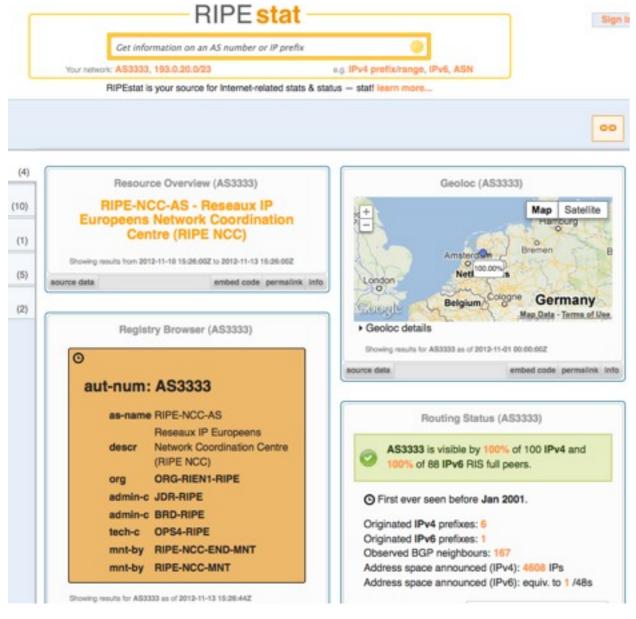


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RIPEstat



RIPEstat - https://stat.ripe.net



Toolbox

- All data in one place
- Routing, IP, geoloc, BLs, etc.
- Graphical interface
- Over 40 widgets
- Updates on RIPE Labs
 - Collaboration with users



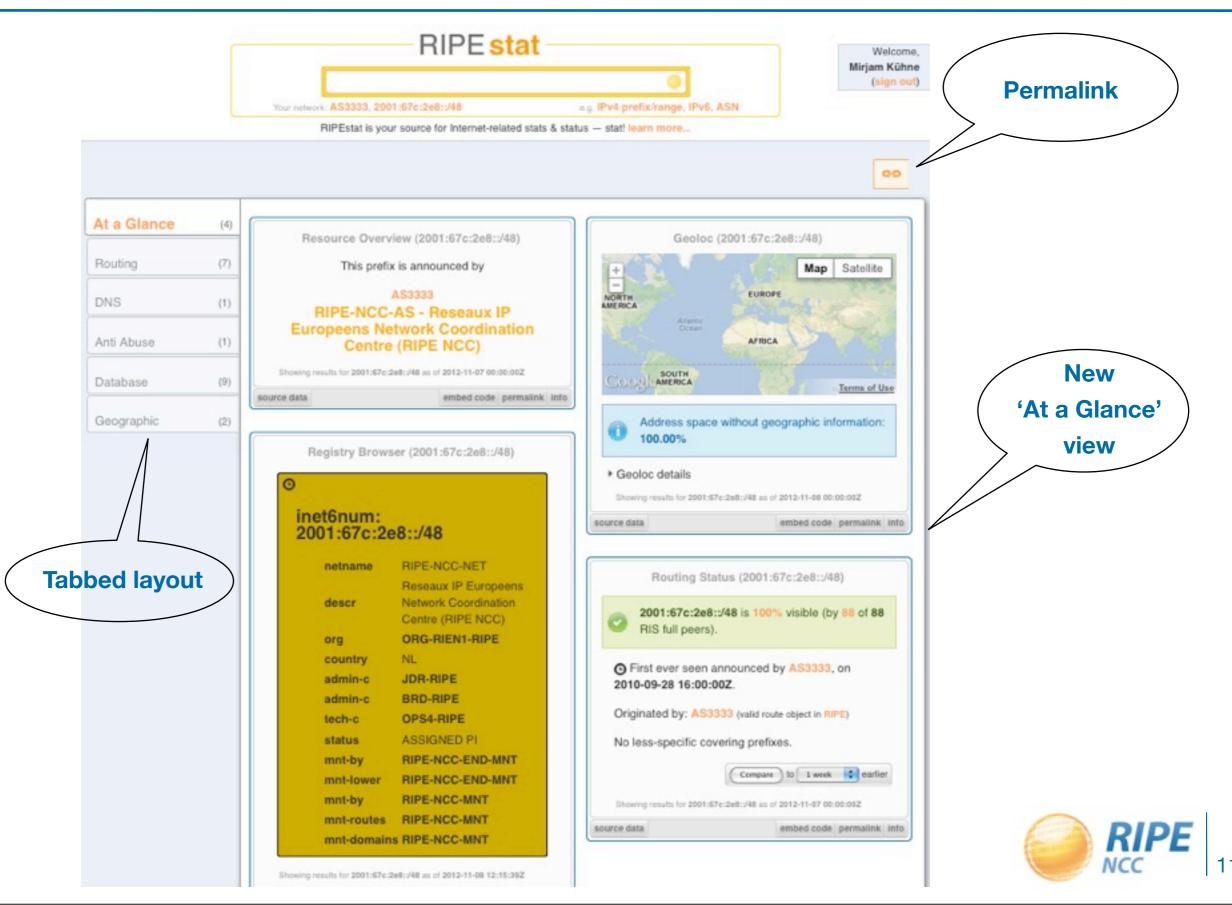
What's new in RIPEstat

- New interface
- Command-line interface
 - Text-based server on port 43
- Various new widgets
- Next: more country-based widgets and more comparison views

Please give us feedback



New RIPEstat Interface



Country Routing Statistics

- IPv4, IPv6, ASNs per country over time
 - <u>https://stat.ripe.net/widget/country-routing-stats</u>
- Compare with another country
 - <u>https://stat.ripe.net/special/country-comparison</u>





Anti-Abuse Contact Finder

- Finds potential contacts to report abuse cases
 - https://stat.ripe.net/special/abuse
- Rates the quality of the information found
- New policy requires abuse-c attribute

Abuse Contact Finder (193.0.20.0/23)		•	2
Email-Contact			
abuse@ripe.net			
Contact-Quality-Rating			
★★★★ (4/4)			
You can use this contact to report abuse.	It is very likely to be the correct abuse contact.		



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RIPE Labs



Friday, March 8, 13

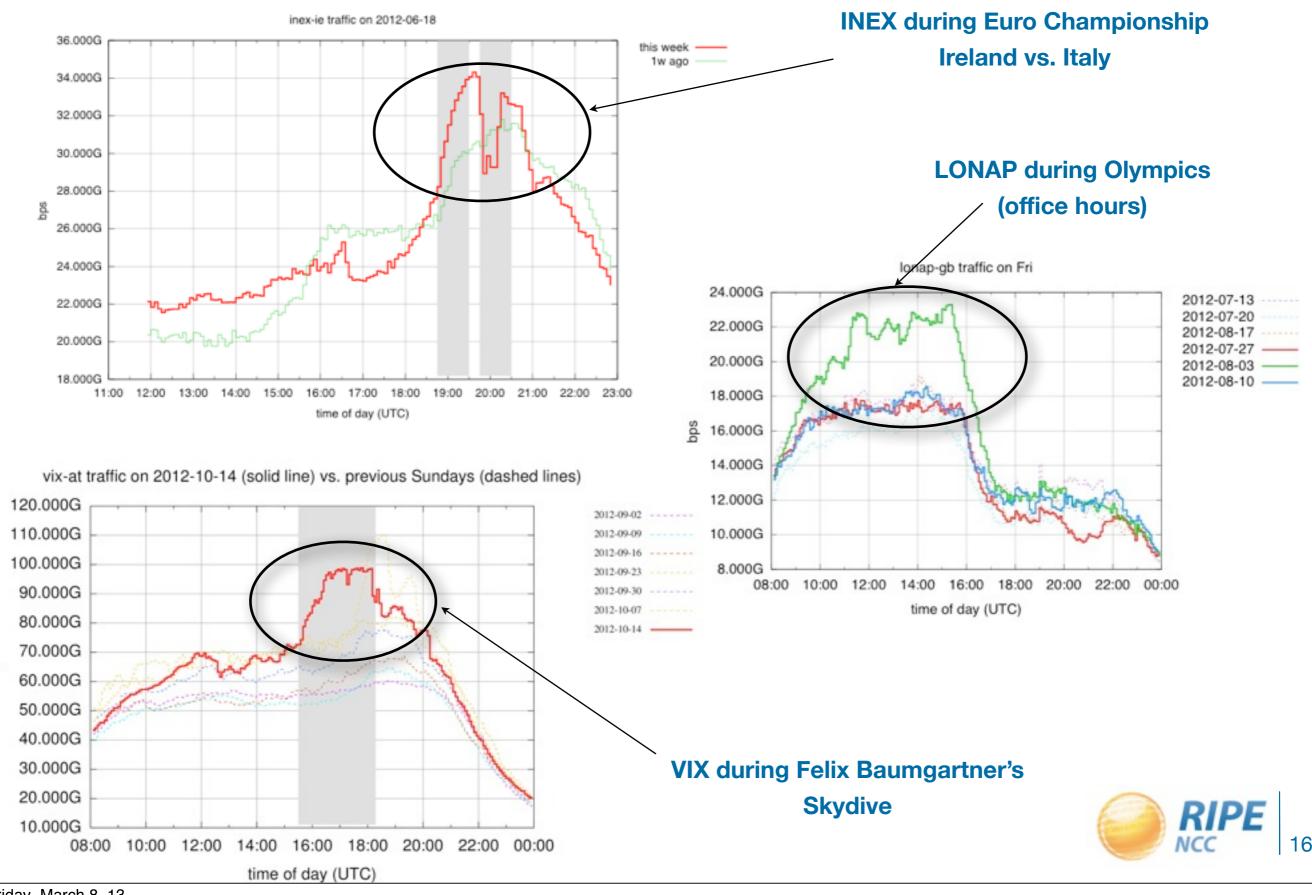
What is RIPE Labs?

- It's a website, but more importantly:
 - It is a platform and a tool for the community
- You can:
 - Test and evaluate new tools and prototypes
 - Contribute new ideas and research results
 - Provide feedback and discuss with others

http://labs.ripe.net/



IXP Traffic Levels During Major Events



sdq

Statistics Dashboard



The current number of LIRs (in April LIRs with outstanding invoices get closed, hence the drop).

Current number of LIRs

8497

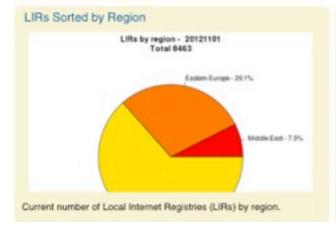
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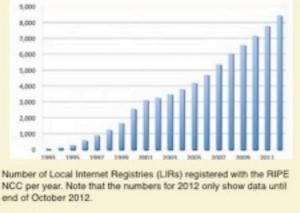
Number of Local Internet Registries (LIRs) in the RIPE NCC service region that have an IPv6 allocation (green line) and that don't have an IPv6 allocation (yet) (red line).

4630 | 3867

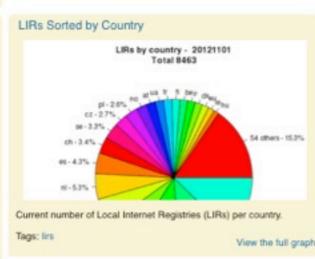
Tags: lins ipv6



RIPE NCC Membership Statistics



Tags: lirs





- One page with various Internet statistics
- Automatically updated
- Each graph is tagged
 Easier to navigate

http://labs.ripe.net/statistics



Questions?

