



Introduction to Information Services

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Information Services

TTM - *Test Traffic Measurements*

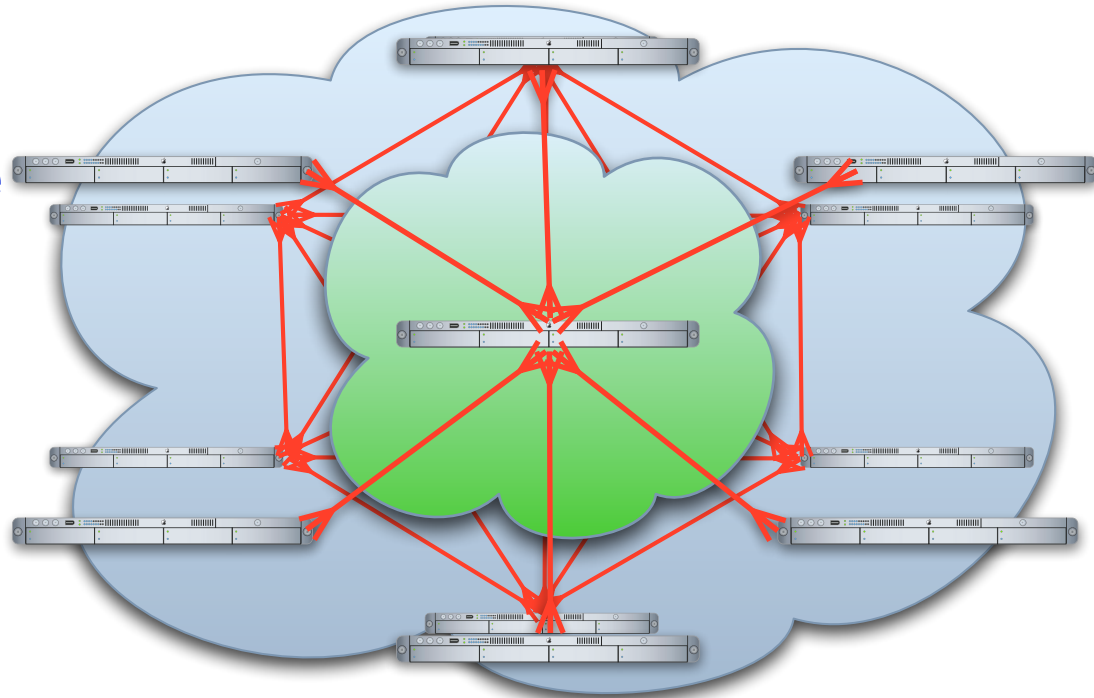
DNSMON - *DNS Monitoring*

RIS - *Routing Information Service*

Hostcount - *NCC region host count*

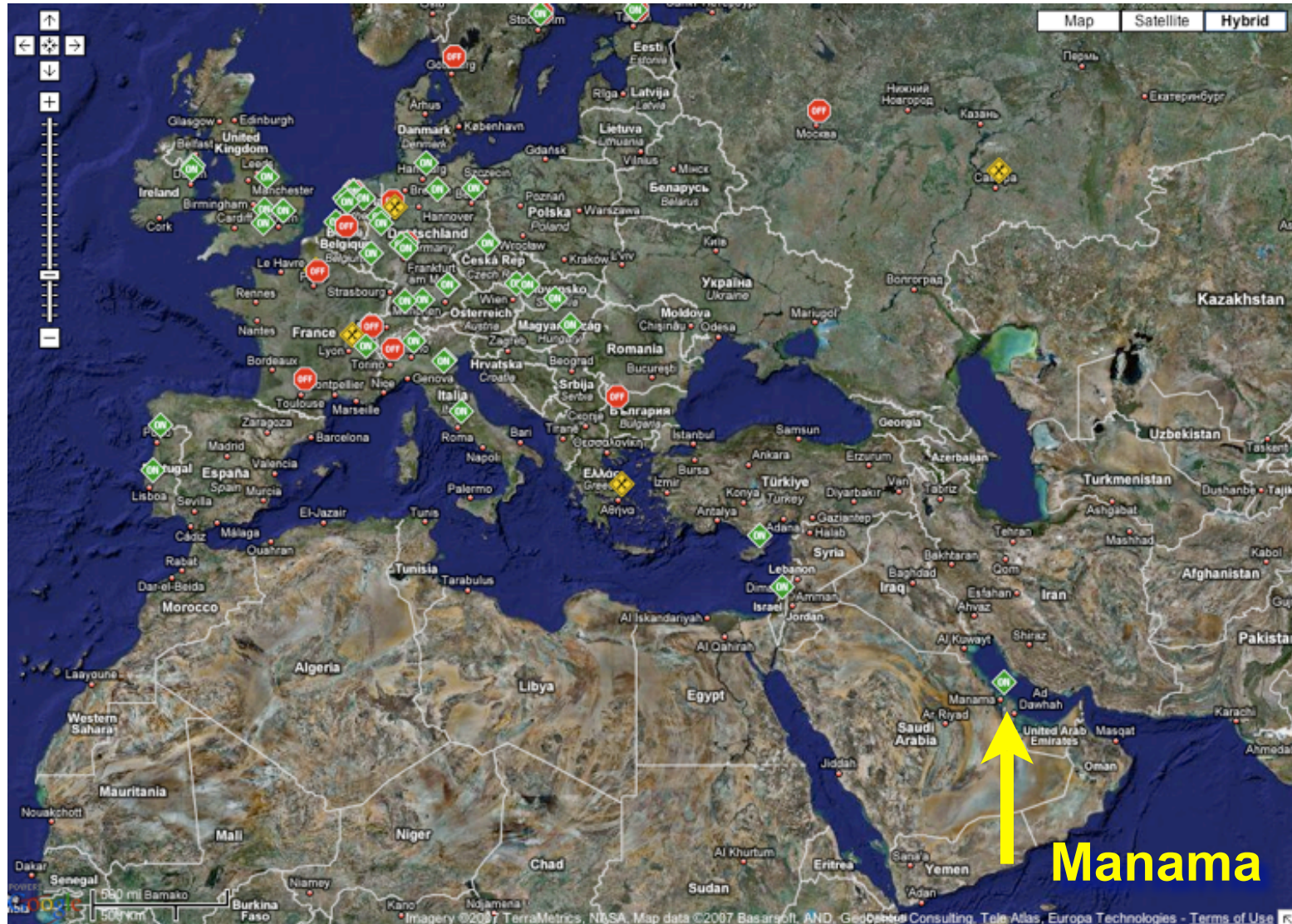
TTM - Test Traffic Measurements

- One way measurements of delay/loss/jitter between all nodes
- Uses GPS for timing
- Data freely available (subject to AUP)



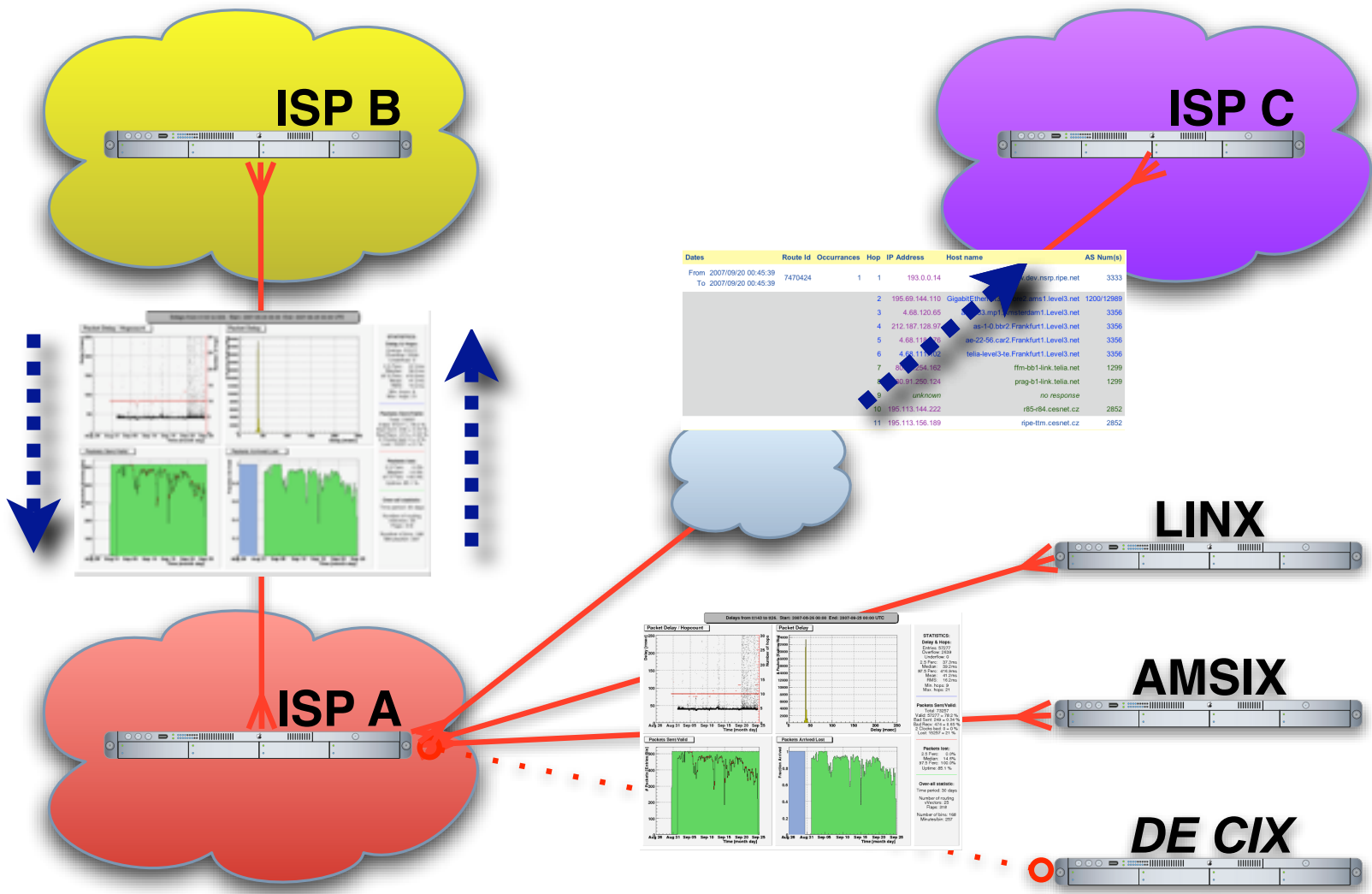
<http://www.ripe.net/ttm>

TTM - Locations

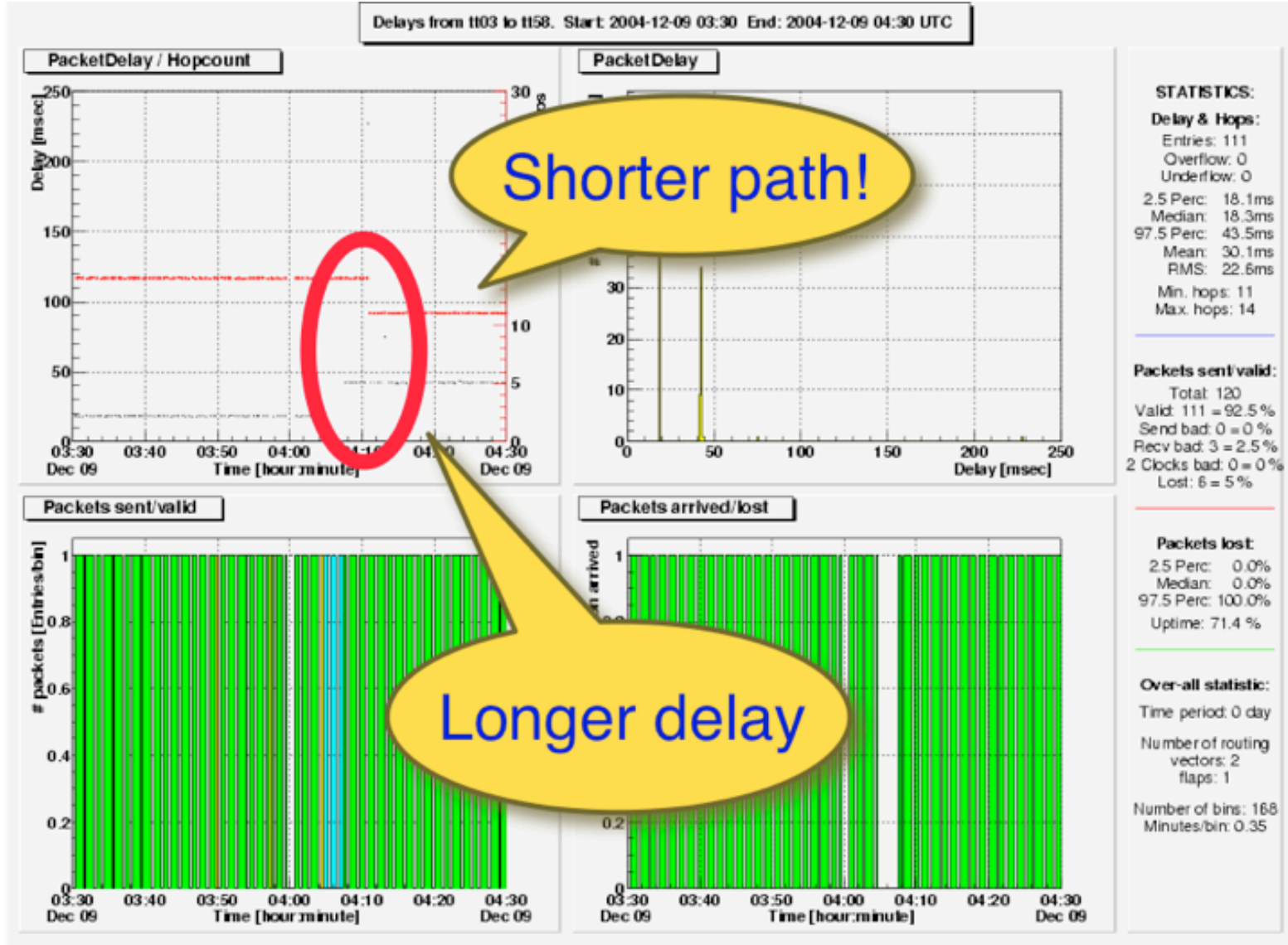




TTM - Test Traffic Measurements



TTM - Case study



TTM - Traceroutes

Dates	Route Id	Occurrences	Hop	IP Address	Host name	AS Num(s)
From 2004/12/09 04:11:04	4649858	18	1	193.0.0.14	n002.sintr.ripe.net	3333
To 2004/12/09 04:11:04						
			4	195.22.219.221	nal6-pal8-racc1.pal.seabone.net	6762
				(Removed)	hbg-bb2-pos7-0-0.telia.net	6762
				(Removed)	ffm-bb2-pos7-0-0.telia.net	6762
				(Removed)	mno-b1-pos4-0.telia.net	6762
			5	unknown	no response	
			6	193.206.134.9	rt-ct1-rt-na1.na1.garr.net	137
			7	193.206.134.38	rt-na1-rt-ba1.ba1.garr.net	137
			8	193.206.134.77	rt-ba1-rt-bo1.bo1.garr.net	137
			9	193.206.128.18	rt1-bo1-ru-cnaf.bo1.garr.net	137
			10	unknown	no response	
			11	131.154.99.100	ripe.cnaf.infn.it	137

Some hosts in telia.net where removed from the path.



TTM - Traceroute database



Test Traffic Measurements

[Test Traffic Home Page](#)

Test Traffic Measurement

Query Traceroute Database [tt26 - tt120]

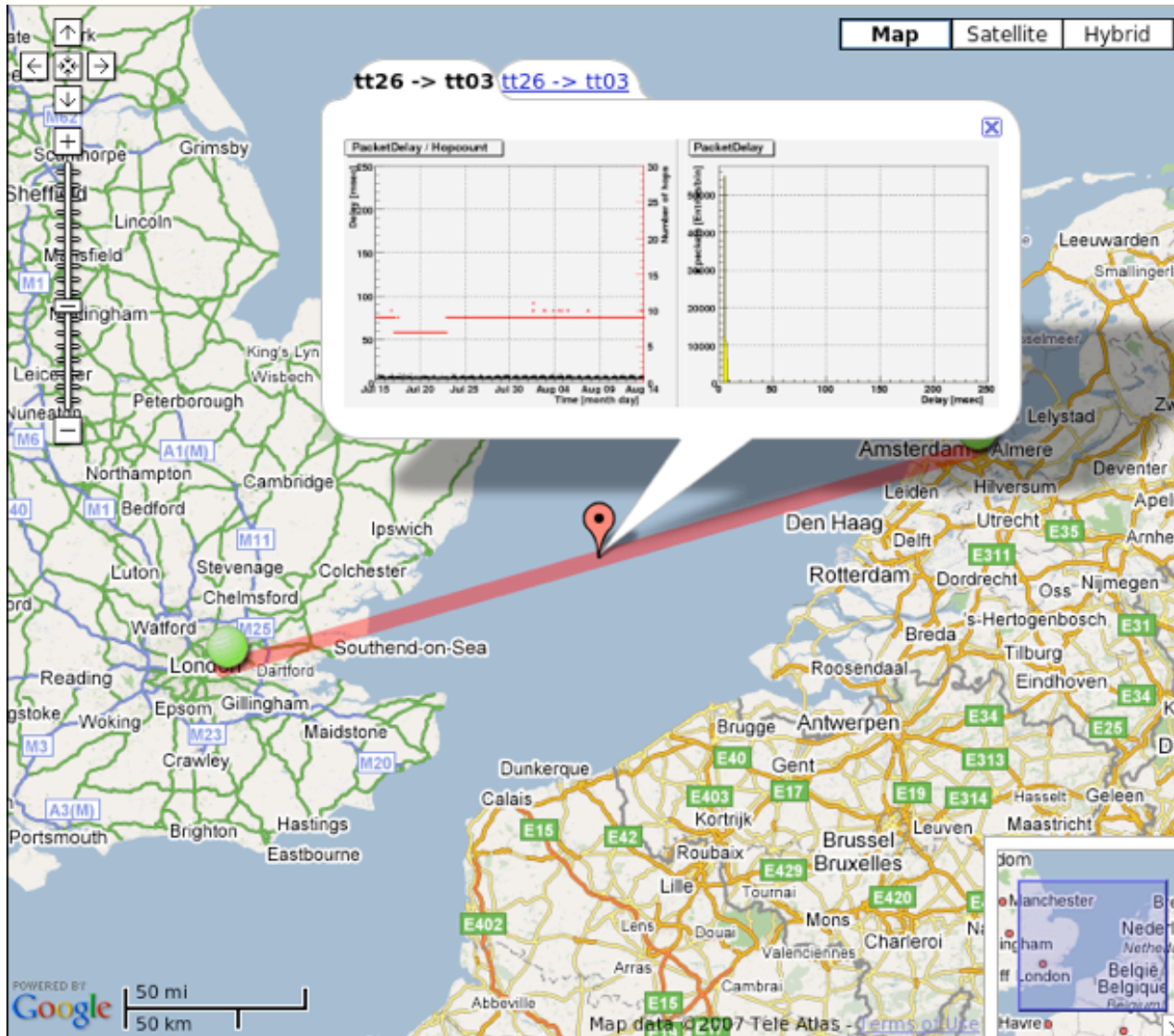
SRC:
 DST:
 Start Date Start Time Resolve IPs yes no
 End Date End Time Sort on
 Traces in IP AS For IPv4 IPv6 test traffic Show diffs yes no

[[See delay](#) or [jitter](#) plots for this time period] [[swap source and destination](#)]

Click [here](#) for an explanation regarding the Query Traceroute Database CGI, or go to the [legend](#) instead.

Dates	Route Id	Occurrences	Hop	IP Address	Host name	AS Num(s)
From 2007/07/07 01:03:54 To 2007/07/30 23:43:16	4588612	5630	1	195.66.248.73	e3-1.tr3.tcm.linx.net	5459
			2	195.66.248.125	g0-1.pr2.tcm.linx.net	5459
			3	195.66.226.61	fe1-1-nom-col2.nominet.org.uk	5459
			4	213.248.206.227	tt120.ripe.net	8683

TTM - Enhancements



Selection [+/-](#)

tt26, London (UK) [▼](#) tt03, Amsterdam (NL) [▼](#)

Zoom

Filter [+/-](#)

ON SETUP HISTORIC OFF CUSTOM

tt26, London (UK) [▼](#)

Testbox in custom list (click to remove): [tt03](#) [tt26](#)

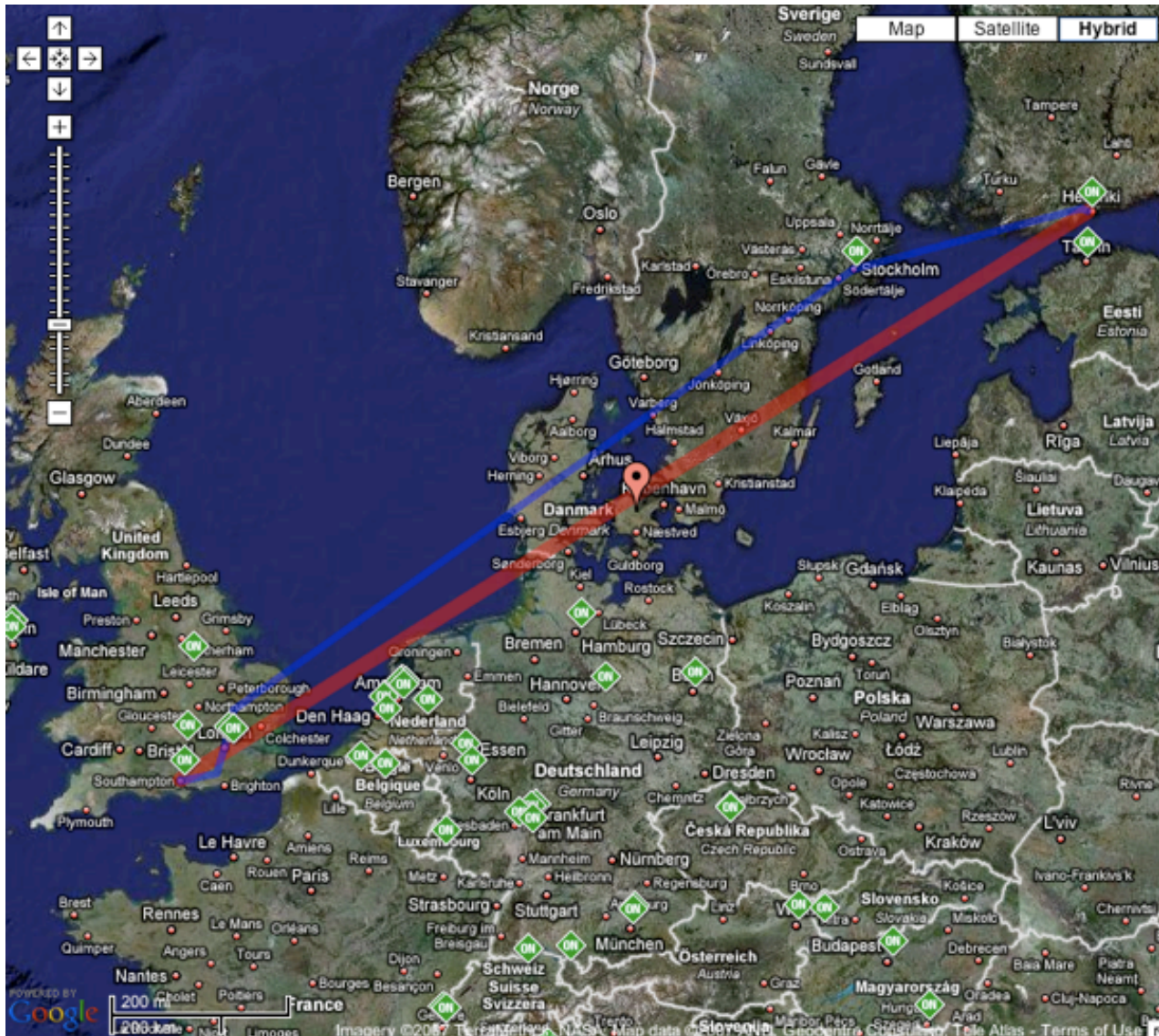
Traceroutes [+/-](#)

From tt26 to tt03, between **5/8/2007 15:2** and **5/8/2007 15:9**.

[\[Earlier\]](#) [\[Later\]](#)

1. 195.66.248.73 (5459) [\[tt26\]](#)
2. 195.66.248.125 (5459)
3. 195.66.226.77 (5459)
4. 212.113.0.118 (3356)
5. 4.68.116.98 (3356)
6. 212.187.128.26 (3356)
7. 4.68.120.176 (3356)
8. 195.69.144.68 (1200/12989)
9. 193.0.0.145 (3333) [\[tt03\]](#)






TTM - Enhancements



tt34, Espoo (FI)

tt76, Southampton (UK)

Filter

-  Online
-  Setup
-  Historic
-  Offline
-  Custom Selection

tt01, Amsterdam (NL)

Testbox in custom list (click to remove): None

Traceroutes

From tt34 to tt76, between 19/11/2007 0:21 and 19/11/2007 0:42.

[\[Earlier\]](#)

1. 193.166.6.190 (1741) [\[tt34\]](#)
2. 193.166.255.249 (1741)
3. 193.166.187.182 (1741)
4. 193.10.68.97 (2603)
5. 193.10.68.18 (2603)
6. 193.10.68.25 (2603)
7. 62.40.124.45 (20965)
8. 62.40.112.78 (20965)
9. 62.40.112.138 (20965)
10. 62.40.124.198 (20965)
11. 146.97.35.97 (786)
12. 146.97.33.5 (786)
13. 146.97.33.133 (786)
14. 146.97.40.18 (786)
15. 195.194.38.34 (786)
16. 212.219.151.114 (786)
17. 152.78.0.22 (786)
18. 152.78.109.14 (786)
19. 152.78.108.149 (786)
20. 152.78.108.3 (786)
21. 152.78.189.20 (786) [\[tt76\]](#)

Disclaimer: The geolocation data is based on the



DNSMON

Measures quality of DNS service

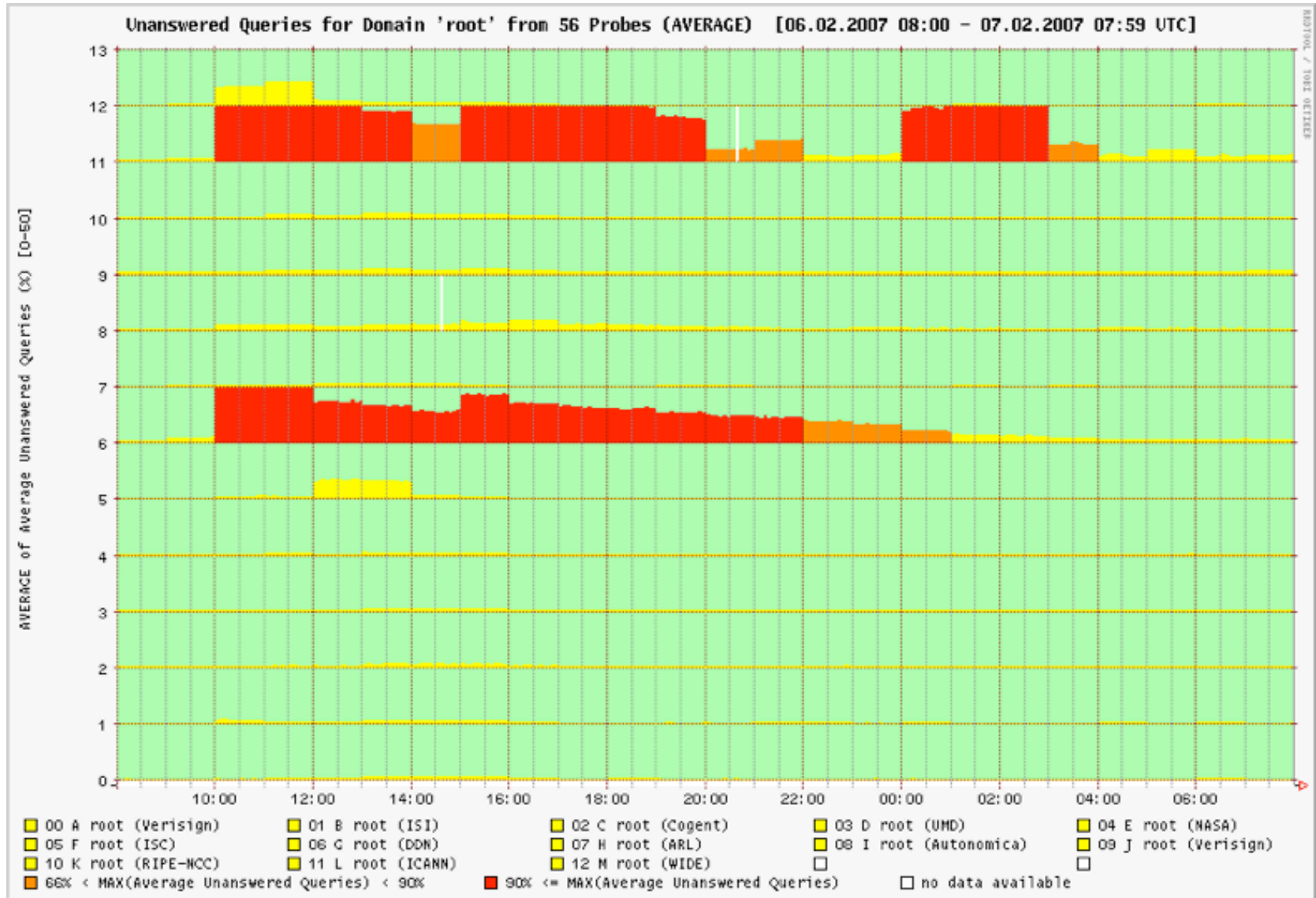
... from diverse locations

... and retains historical data for analysis

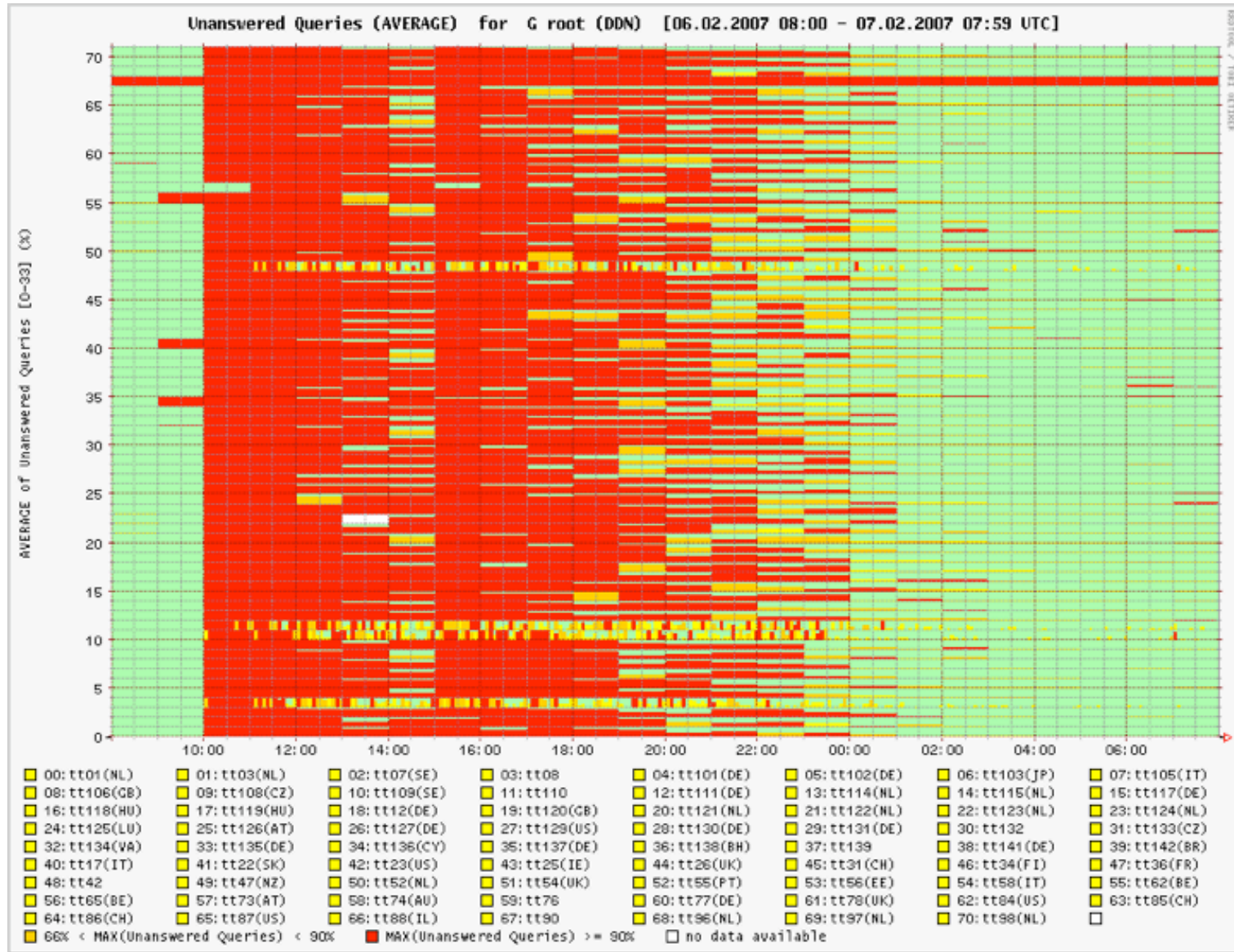
<http://dnsmon.ripe.net>



DNSMON - Root DDoS February 2007

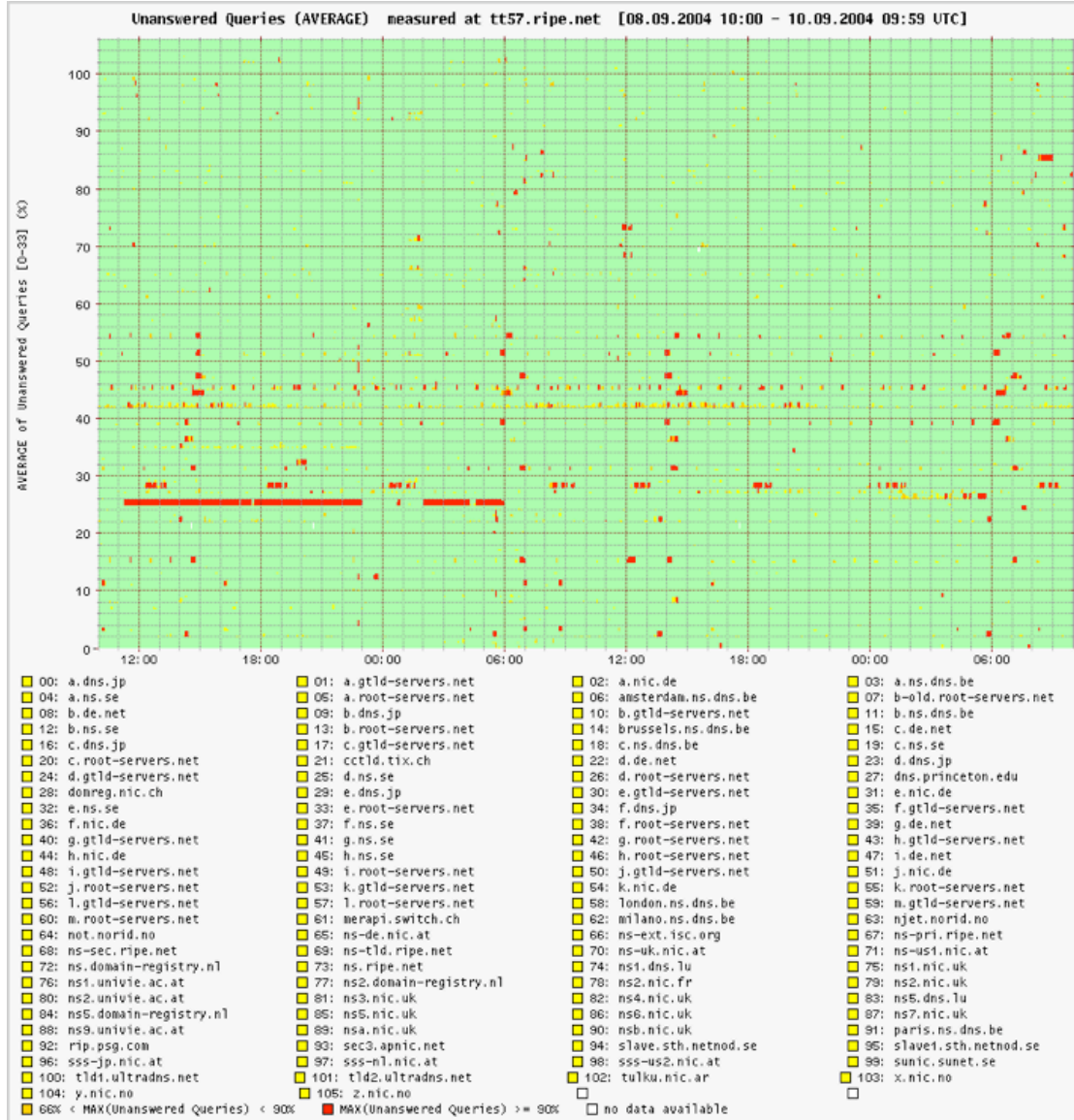


DNSMON - All TTM view





DNSMON - Per probe view





DNSMON

- Monitoring limited to ‘infrastructure’ operators
 - Root, gTLD, ccTLD
- But!
 - Data is available to everyone (with a short delay)
 - See how your local ccTLD operator performs
 - Get a TTM box and see stats from your own network!

<http://dnsmon.ripe.net>

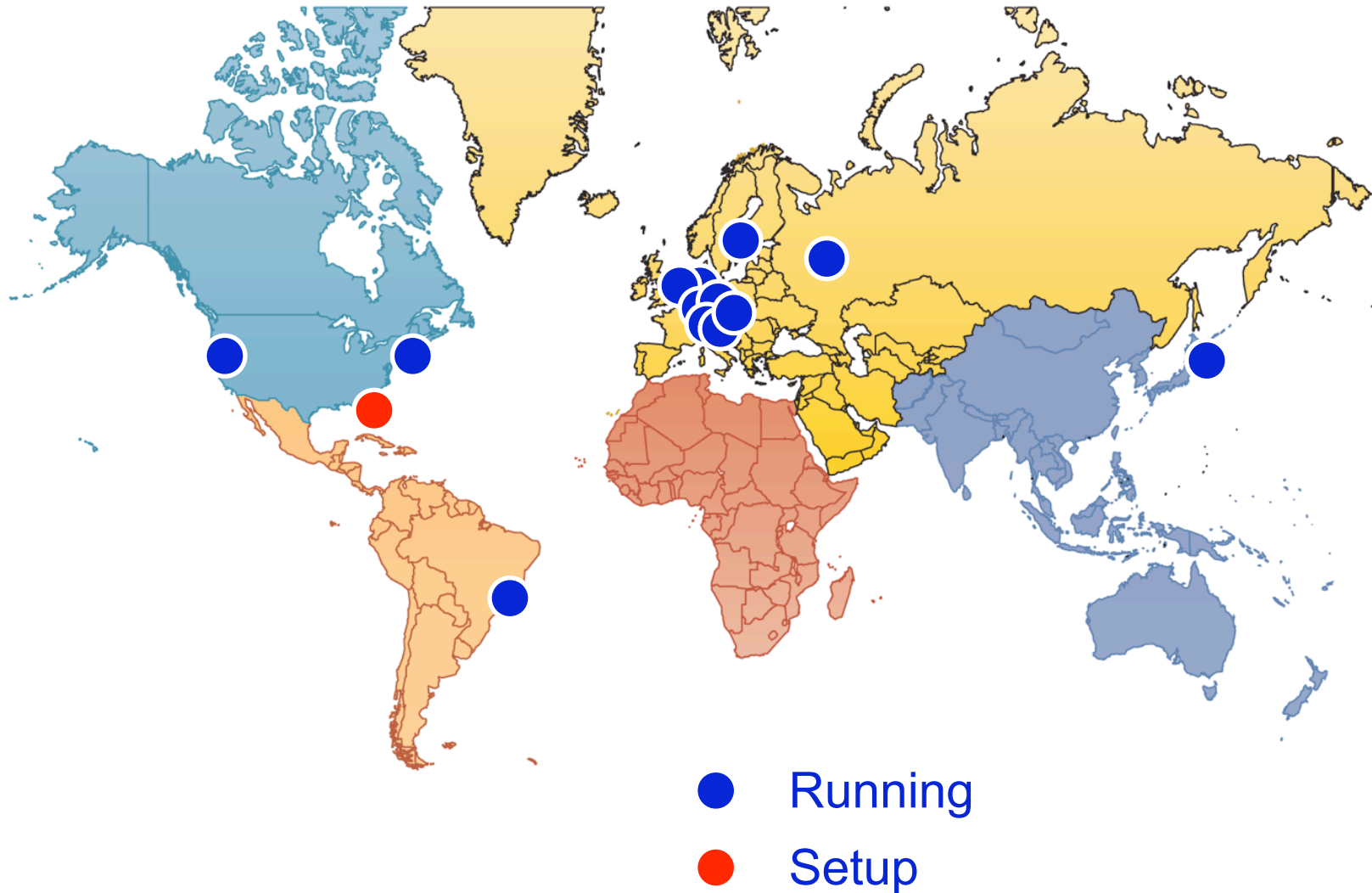


RIPE - Routing Information Service

- Looking glass with history
- Collects routing information (BGP)
 - AS12654 has 580 peers
 - 14 Remote Route Collectors (RRCs)
- 3 months live data searchable online
- All raw data available to everyone

<http://www.ris.ripe.net>

RIS - Remote Route Collectors





RIS - Tools

[RIPE NCC](#)
[LIR Portal](#)
[RIPE](#)
[About RIPE NCC](#) | [Contact](#) | [Search](#) | [Sitemap](#)


Routing Information Service

you are here: [home](#) -> [RIPE NCC Projects](#) -> [RIS](#)

RIS:

- [RIS Home Page](#)
- [Tools](#)
- [Statistics](#)
- [RIS Raw Data](#)
- [Documentation](#)
- [RIS Analysis Links Page](#)
- [Related Sites](#)
- [Contact Us](#)
- [Send Feedback](#)

Tools

RIS Status

- [RIS Status Overview](#) lists maintenance announcements, outages and the current RIS status

Querying the RIS for Data

- [Looking Glass](#) allows you to execute commands on our Remote Route Collectors (RRCs), viewing the most up to date routing data
- [BGPlay](#) visualises routing updates seen by the RIS
- [Search](#) allows you to search for RIS data for a specific prefix or Autonomous System (AS)
- [RISwhois](#) searches the latest RIS data for details of an IP address. It is useful when querying RIS from scripts. This also has a [web interface](#)
- [ASinUse](#) can determine whether an AS is currently in use on the Internet and list the peers that RIS can see
- [PrefixInUse](#) can determine when a prefix was last seen on the Internet and who originated it

Miscellaneous

- [MyASN](#) is a notification system for some types of roque announcements of your address space
- [RIS Beacons](#) lists details of current beacon and anchor prefixes announced by RIS, including flapping times and a RIS database query matrix
- [De-Bogonising New Address Blocks](#) allows you to test reachability and view statistics for the visibility of new address blocks over the Internet (**New version**)

RELATED TOPICS

- [DNS Monitoring](#)
- [DISI](#)
- [K-root Name Server](#)
- [RRCC](#)
- [TTM](#)

<http://www.ris.ripe.net>



RIS - MyASN

Manage Alarms

You are logged in as [mark] and you are editing 12654

[MyASN](#) » - Manage Alarms

Showing alarms in group. | [Manage alarm groups...](#) | [Add an alarm...](#)

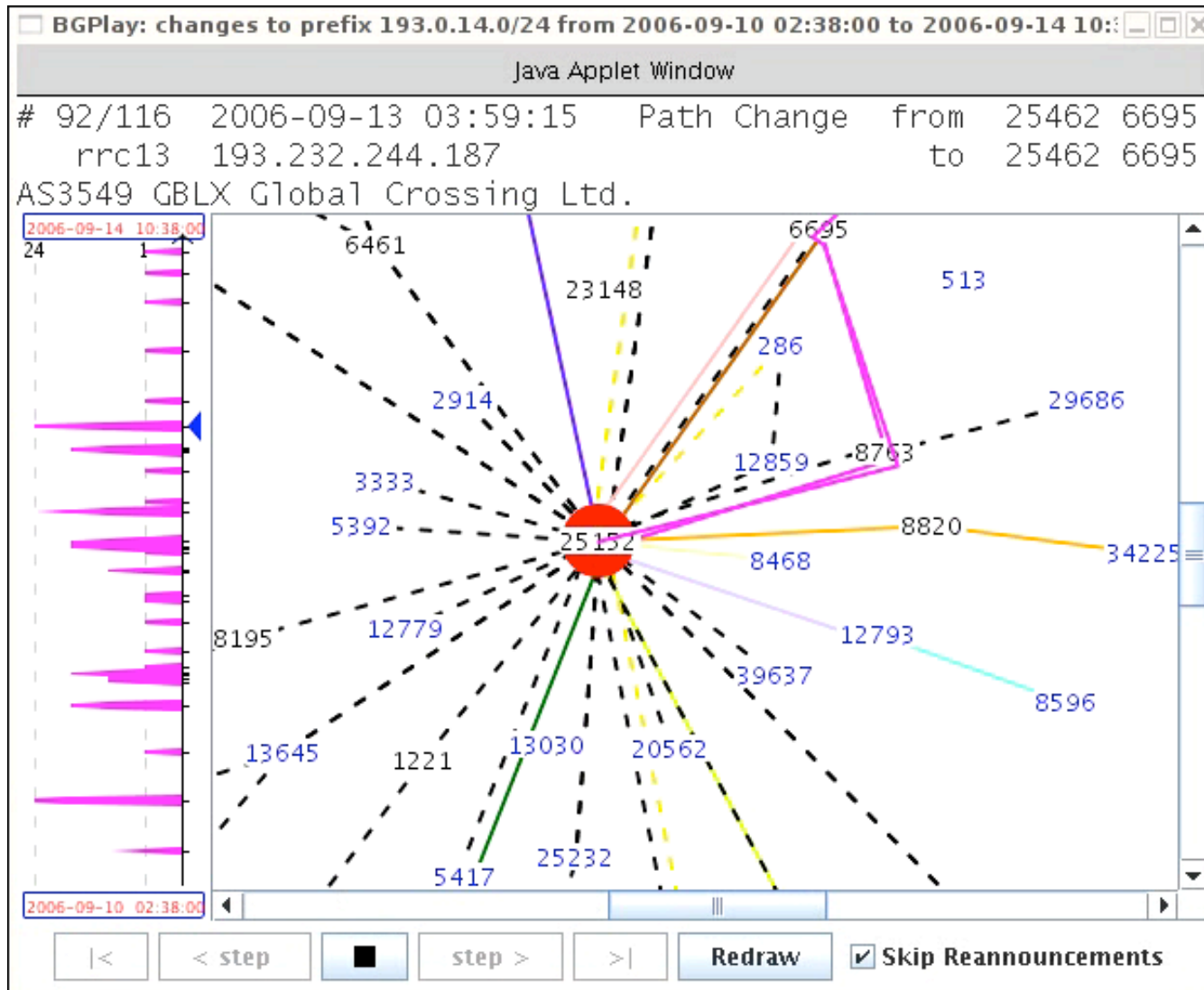
ID	Group	Prefix	Type	Details	MinED	MinEC	ADW	
748	<input type="text" value="dfk"/>	192.6.143.0/24	origin	My AS#: 14496	<input type="text" value="1m"/>	<input type="text" value="1"/>	<input type="text" value="1h"/>	<input type="button" value="Update"/> disable edit delete reset show pending events retromatch
2736	<input type="text" value="nagios monitor"/>	147.60.0.0/16	origin	My AS#: 65533	<input type="text" value="1m"/>	<input type="text" value="1"/>	<input type="text" value="1m"/>	<input type="button" value="Update"/> disable edit delete reset show pending events retromatch
3498	<input type="text" value="nagios monitor"/>	193.0.0.0/21	origin	My AS#: 12654	<input type="text" value="1m"/>	<input type="text" value="1"/>	<input type="text" value="1h"/>	<input type="button" value="Update"/> disable edit delete reset show pending events retromatch
3294	<input type="text" value="va"/>	84.205.67.0/24	origin	My AS#: 65510	<input type="text" value="1m"/>	<input type="text" value="1"/>	<input type="text" value="1h"/>	<input type="button" value="Update"/> disable edit delete reset show pending events retromatch

[RIS Main Page](#) | [Feedback & bug reports](#) | [About RIPE NCC](#)

<http://www.ris.ripe.net/myasn.html>



RIS - BGPlay





RIPE - Reporting and statistics

- RIS weekly reports:
 - Prefix distribution
 - Average AS path lengths
 - Numbers of single and multihomed ASes
 - Martians and hotspots

o List of hot-spots during the week.

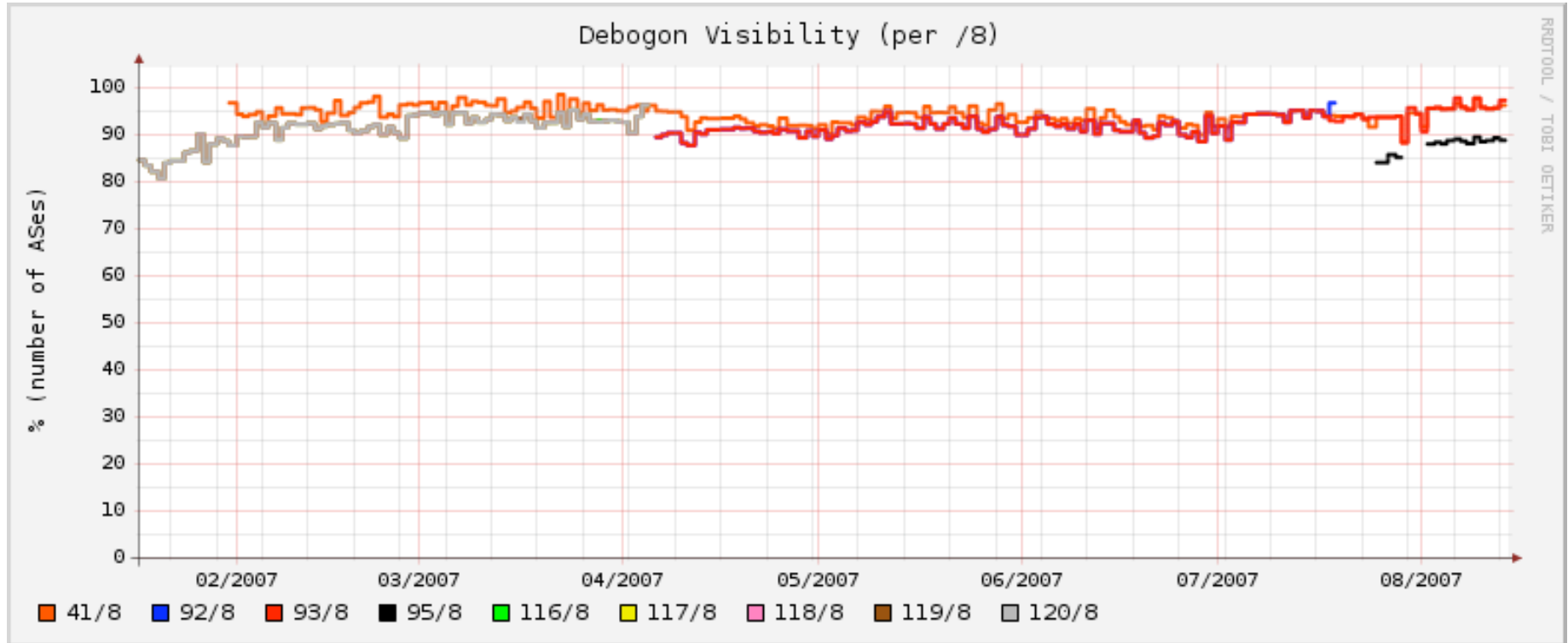
Prefix	Origin AS	Number of updates
203.34.88.0/24	18117	2986855
194.110.73.0/24	30850	1062492
62.24.238.0/24	13285	625800
193.242.111.0/24	2128	624969
77.247.128.0/20	43043	515486
221.135.253.0/24	9583	335059
80.243.64.0/20	21332	268483
12.106.30.0/24	22072	265643

o List of martians appearing throughout the week.

Prefix	Origin AS
10.11.12.0/24	34245
10.90.3.0/24	174
172.16.0.0/16	7908
172.16.2.2/32	8447
192.0.2.0/24	2854
192.168.1.0/24	7908

<http://www.ripe.net/projects/ris/stats>

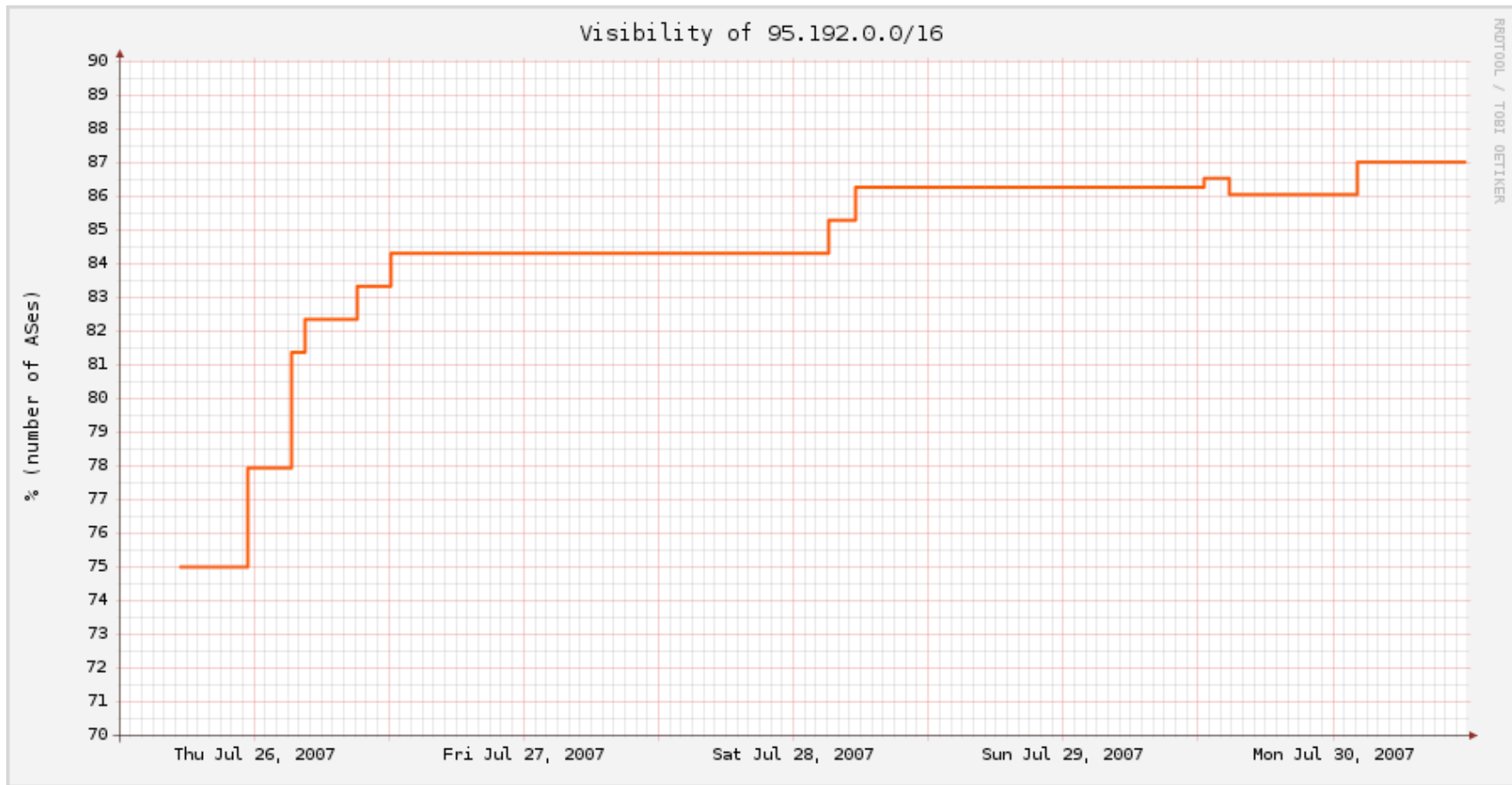
RIPE - Debogonising



<http://www.ris.ripe.net/debogon>

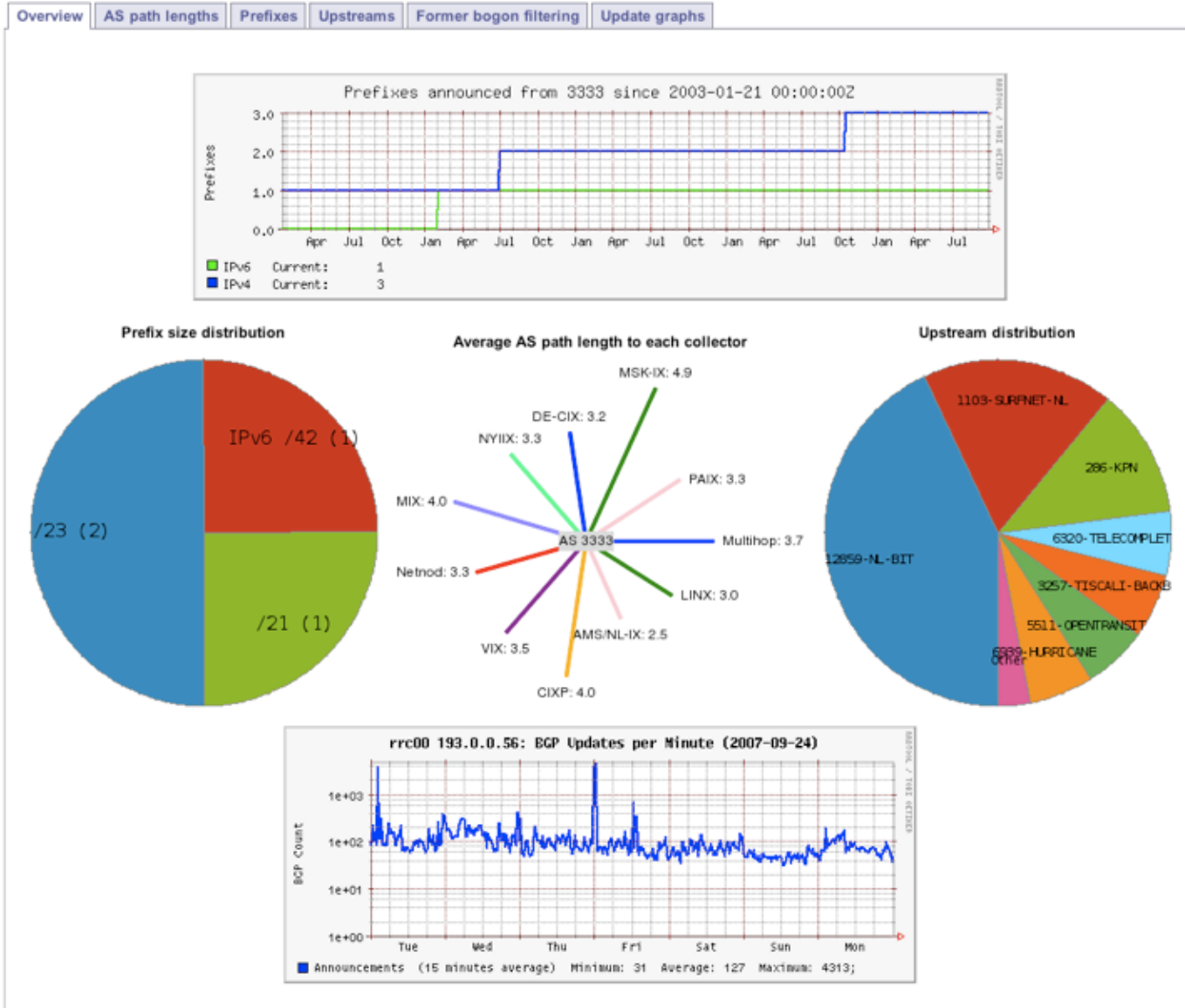


RIS - Debogonising 95/8



<http://www.ris.ripe.net/debogon>

RIS - AS Dashboard



RIS - Prefix dashboard

Prefix stability and visibility in the last 48 hours



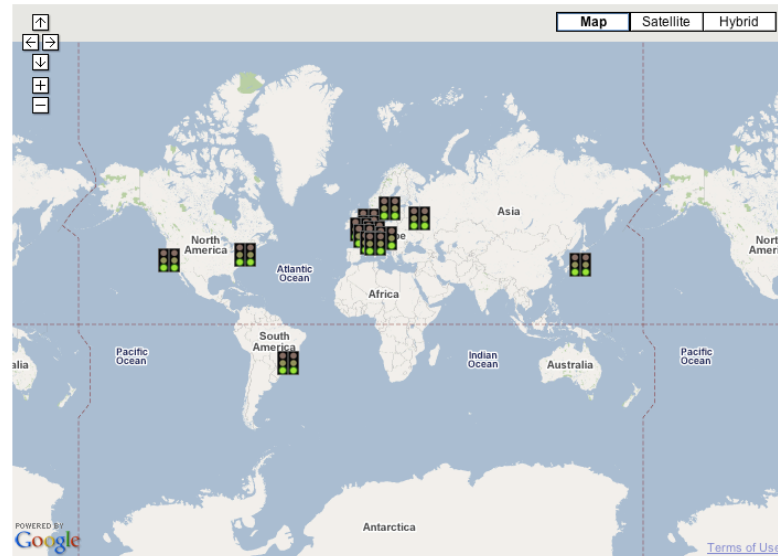
Visibility

The visibility of this prefix is **100%**.

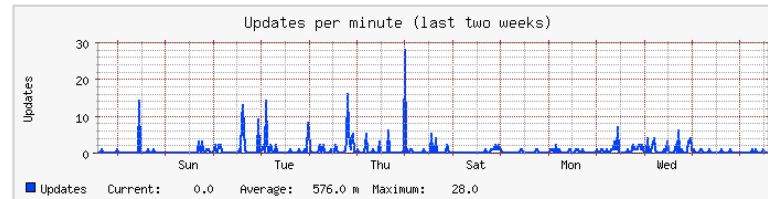
During the last 48 hours, **0 updates** per peer seeing this prefix were found.



Stability



Updates for prefix in the last two weeks

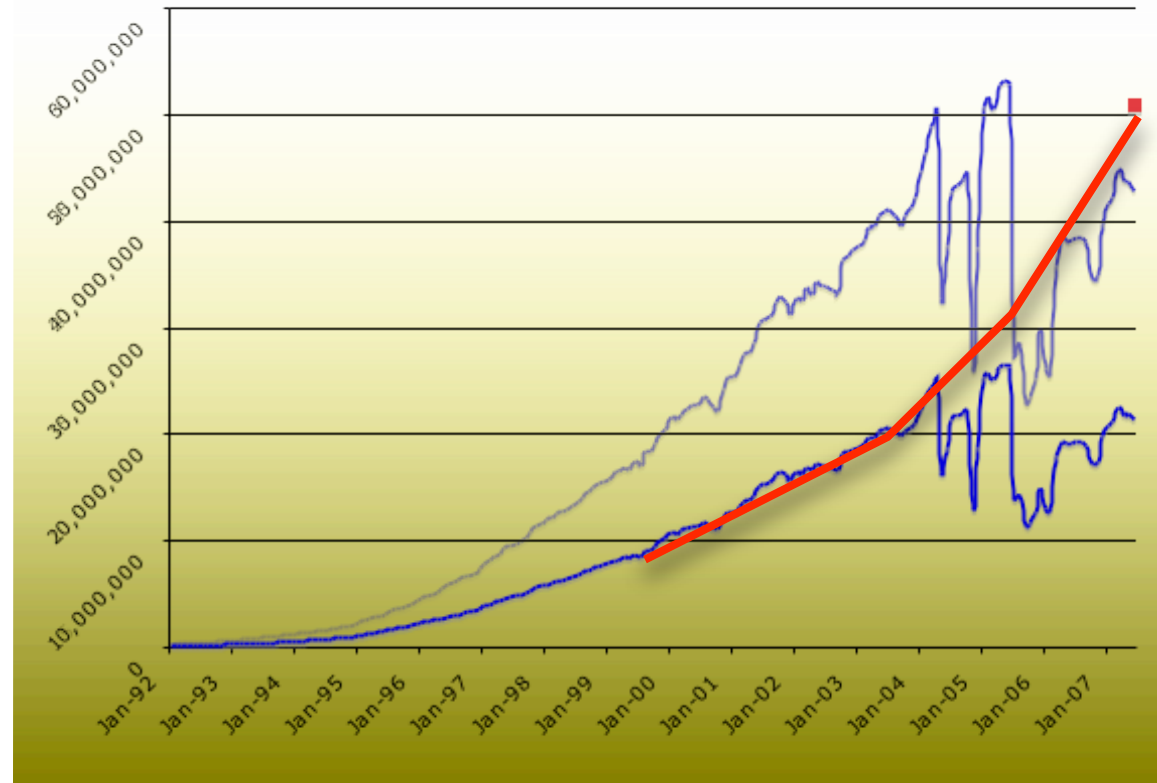




Hostcount

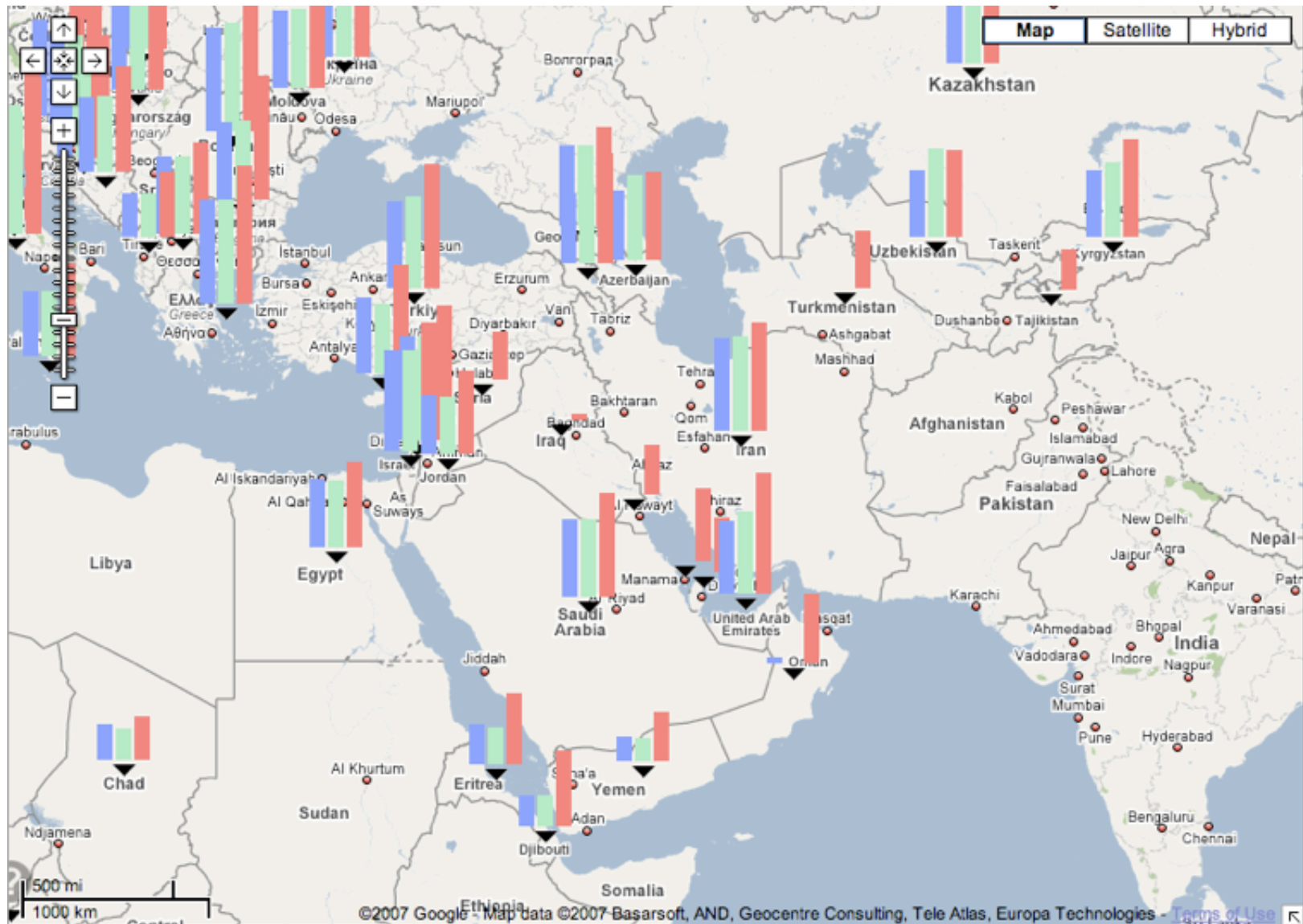
- Counts hosts in ccTLDs in the NCC service region
- Updated 2007
 - IPv6 support
 - Uses in-addr data
 - Visibility data
 - DIY kit for ccTLDs

**Allow AXFR
from
193.0.0.0/22**



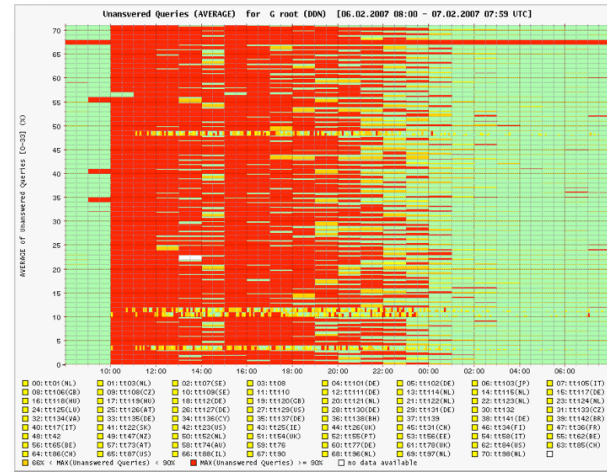
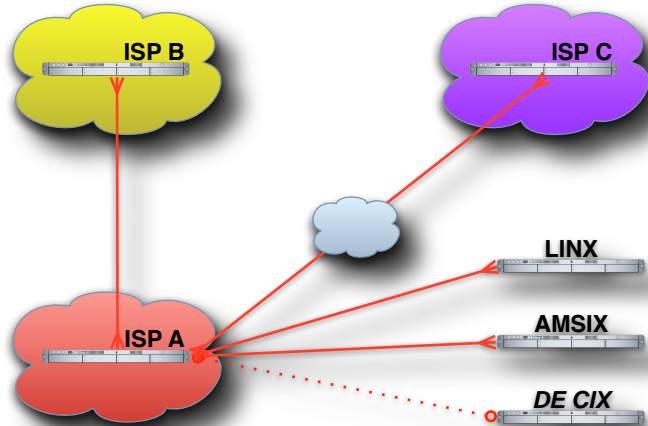
<http://www.ripe.net/hostcount>

Hostcount - Enhancements



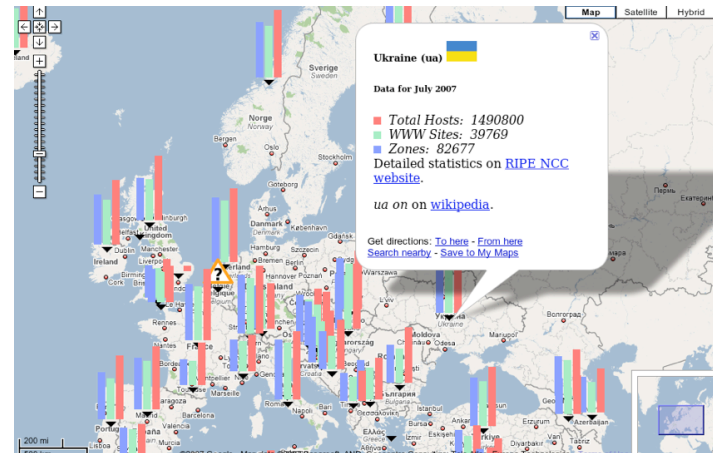
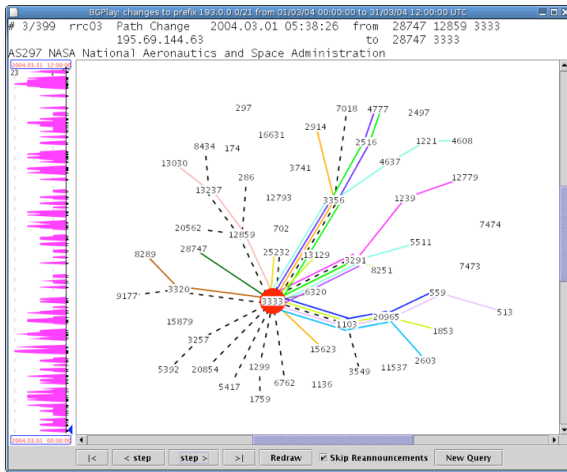


Information Services Portfolio



<http://www.ripe.net/ttm>

<http://dnsmon.ripe.net>



<http://www.ripe.net/ris>

<http://www.ripe.net/hostcount>

Questions?

