

TTM, RIS (etc.) Service Update

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Intro

- Overview of new features only
 - Finished work items
 - Technical details in other WG's
 - Development plans in other WG's
- TTM
- DNSMON
- RIS
- RISwhois tool

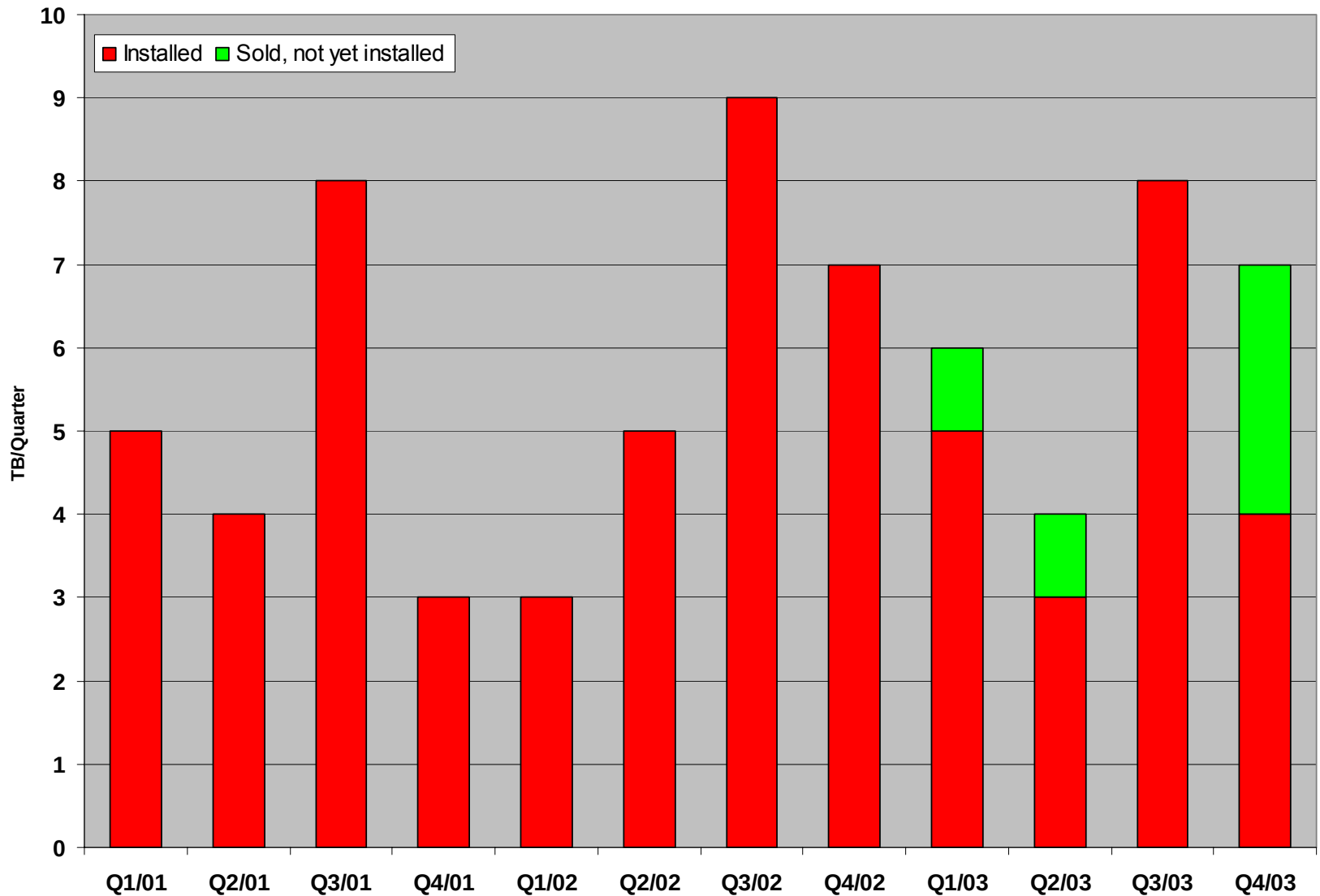


Test Traffic Measurements

www.ripe.net/ttm

- Conditions of sale updated;
 - RIPE 214 replaced by RIPE 297
- Data disclosure policy updated
 - RIPE 180 replaced by RIPE 300
 - Lightweight AUP
 - Data can be more easily used for other applications
- Annual service fee:
 - Was: € 3000/year 1st box, €1500/year 2nd-9th
 - 1/1/04: €1000/year 1st box, €500/year 2nd-9th
- Hardware will become cheaper too

17 new boxes since RIPE46



TTM IPv6 tunnel detection

- IPv6 traffic is frequently tunneled over IPv4
 - Detect tunnels by looking at PMTU
 - Explains some effects in performance

RIPE NCC/Tunneldiscovery with PMTU - Mozilla {Build ID: 2003120808}

The Tunneldiscovery Tool

Collected at 2004-01-15 at 23:15Z

[Description](#) and [FAQ](#)

		Destination Testbox								
		tt01	tt103	tt13	tt25	tt35	tt42	tt52	tt55	tt56
Source Testbox	tt01		1280	1500	1480	1500	1500	1500	1500	1500
	tt103	1280		1280	1280	1280	1280	1280	1280	1280
	tt13	1500	1280		1480	1500	1500	1500	1500	1280
	tt25	1476	1476	1476		1476	1480	1476	1476	1280
	tt35	1480	1280	1500	1476		1500	1500	1500	1280
	tt42	1500	1280	1500	1476	1500		1500	1500	1500
	tt52	1500	1280	1500	1280	1500	1280		1500	1280
	tt55	1500	1280	1500	1480	1500	1280	1500		1280
	tt56	1476	1280	1476	1476	1476	1280	1476	1476	

- Native
- Tunnel
- No data

Other new features

- Support for multiple NIC's
 - One TB with more IPv4 addresses
 - Measure multiple paths in parallel
 - Applications, for example
 - 2 upstream providers, want to monitor both
 - IX
- Altitude in TB location
- IPv6 NTP support

DNSMON

<http://dnsmon.ripe.net>

- Monitoring of DNS service
- β -service
 - a-m.root, 8 ccTLD's, 3 gTLD's
- Development work is done
- Some details
 - SLA's and service contracts
 - Location of machine
 - Maintenance procedures
- Paid service soon after that

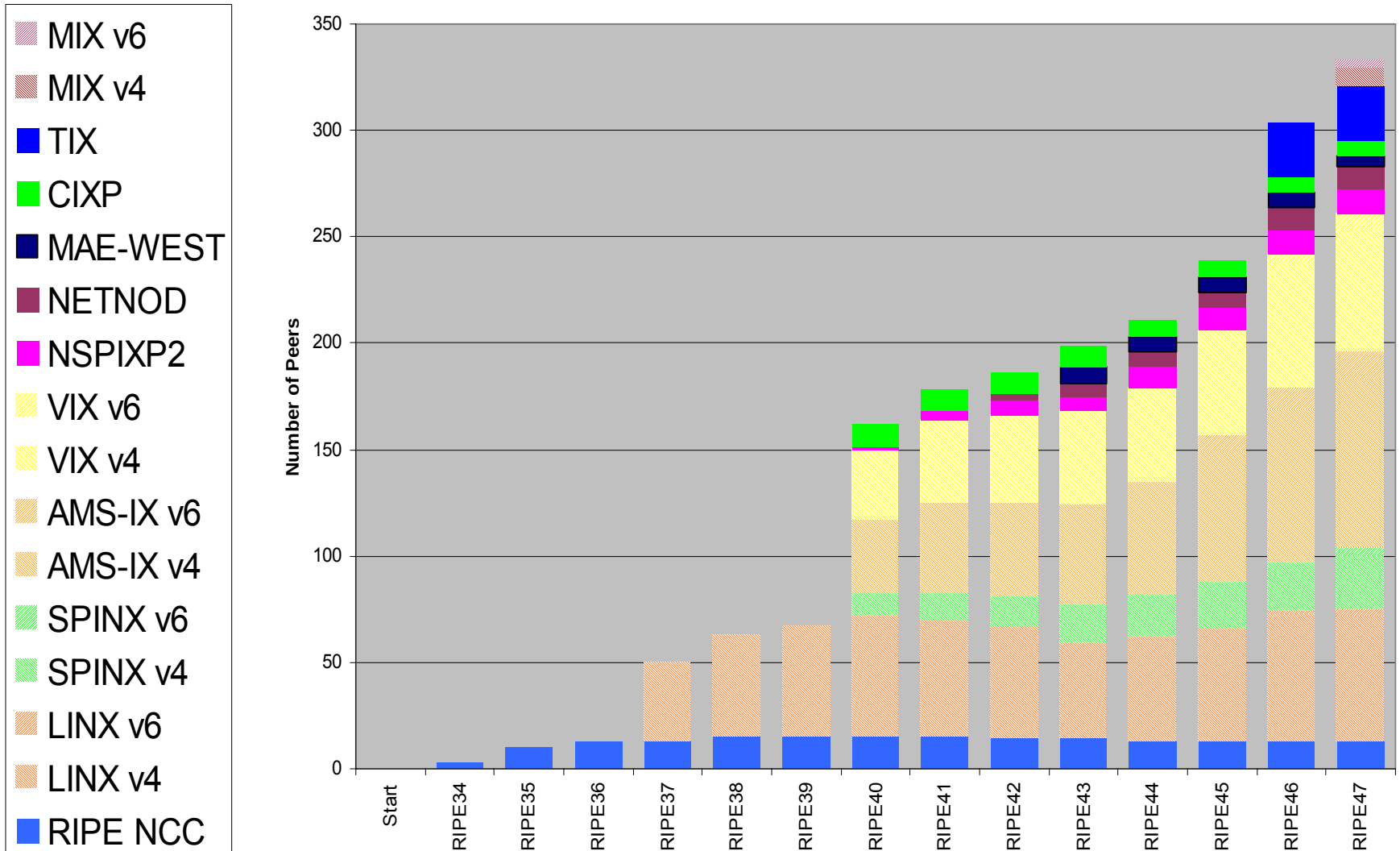


Routing Information Service

www.ripe.net/ris

- BGP monitoring
 - 11 locations, IPv4 and IPv6
 - 333 sessions: 301 IPv4, 32 IPv6
- New locations:
 - MIX, Milan, Italy
 - IPv4 and IPv6
 - NYIIX, NY
 - Shipped, about to be plugged in
- If you are located there, please contact ris-peerings@ripe.net to set up a session

Number of peering sessions



RISwhois

- Tool to map IP addresses to origin ASN
- Registries offer this functionality
 - Rely on data entered by hand
 - Study shows that they are wrong in 20% of the times
- RISwhois uses BGP tables from the RIS
 - Situation as it exists on the Internet right now
- Originally intended for TTM, wider use anticipated



RIS Whois example

```
$ whois -h riswhois.ripe.net 193.0.1.49
```

```
% This is RIPE NCC's Routing Information Service  
% whois gateway to collected BGP Routing Tables  
% IPv4 or IPv6 address to origin prefix match  
%  
% For more information visit  
  http://www.ripe.net/ris/riswhois.html
```

```
route:          193.0.0.0/21  
origin:         AS3333  
descr:         RIPE-NCC-AS RIPE NCC  
source:         rrc00, rrc01, rrc02, rrc03, rrc04, rrc05, rrc06, rrc07,  
                rrc08
```

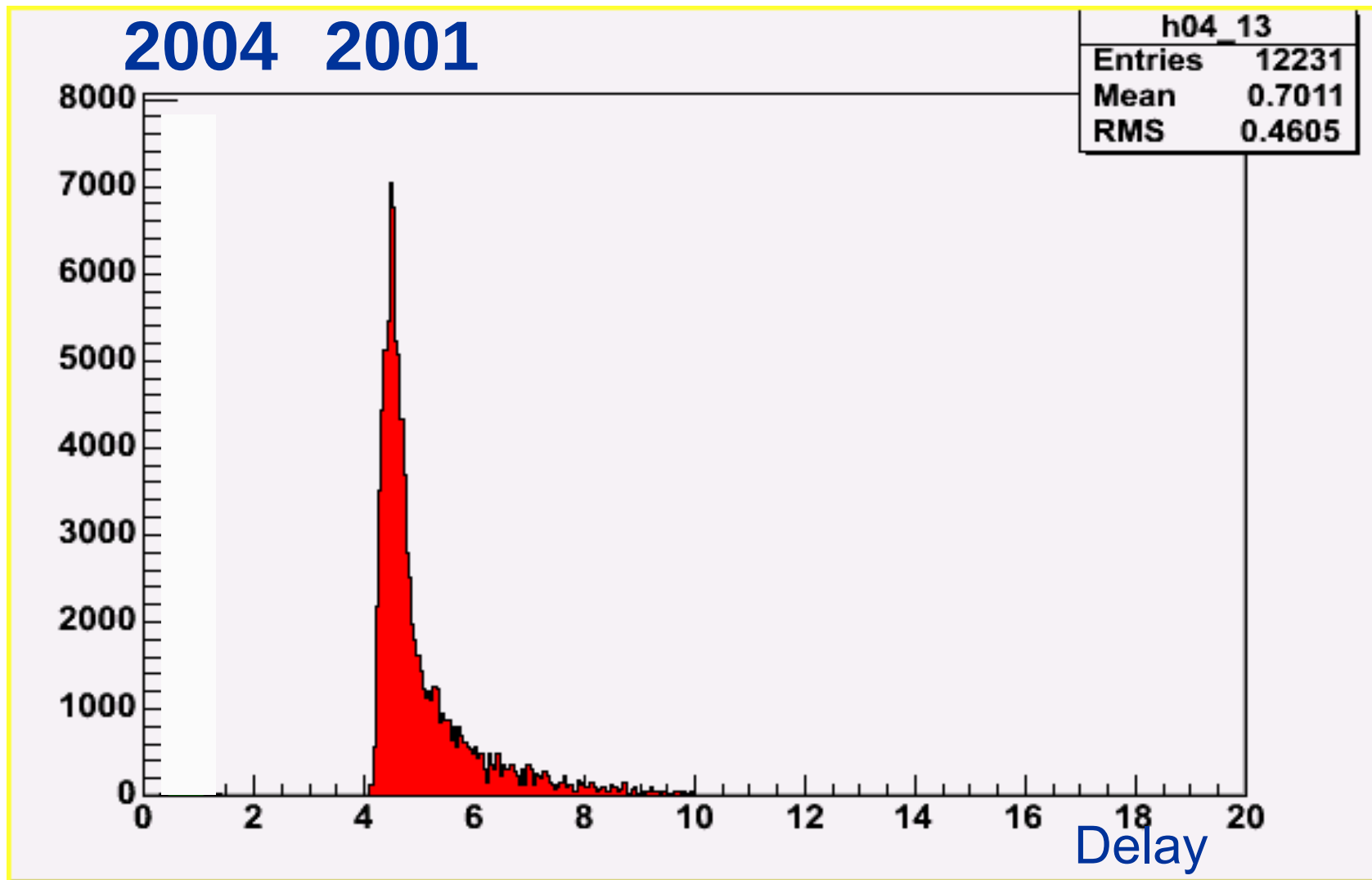
RISSwhois key features

- Whois protocol (port 43)
- RPSL style output
- Results reflect real situation on the Internet
- Can be used as a drop-in replacement in tools like NANOG-traceroute.
- Can be used in your own tools.



RIPE TTM and the new fiber to the Kras

(preliminary results)



Questions

