

Test Traffic Measurements

Status and Plans

James Aldridge, Maximo Alves, Daniel Karrenberg,
Mark Santcroos, Ruben van Staveren, Michael Swoboda,
Henk Uijterwaal, René Wilhelm, Matthew Williams

RIPE NCC New Projects Group
RIPE 46, Amsterdam, September 2003

Outline

- Intro
- Service contract
- Roberto's proposal for summary numbers
- New developments
- Plans and conclusion

Staff changes

- New students
 - Michael Swoboda
 - FHWN
 - Lorenzo Colitti
 - U.Rome
 - IPv6 data

Documents and reports

- Published:
 - AP2004
 - Report on MS Blaster and NYC blackout
- In the pipeline:
 - 271++ implementation document
 - Write-up of bandwidth studies

Outline

- Intro
- Service contract
- Roberto's proposal for summary numbers
- New developments
- Plans and conclusion

Proposed Service Contract Changes

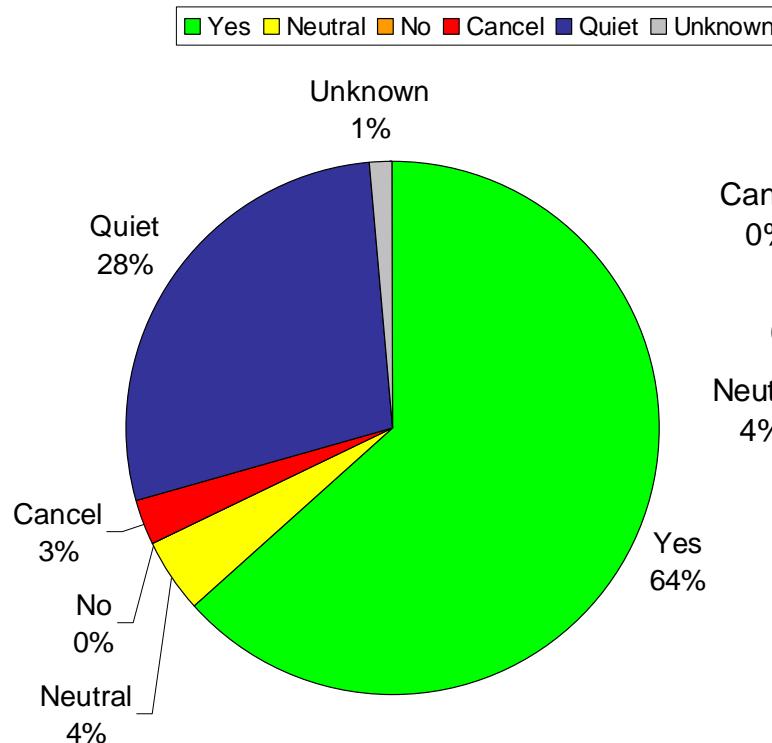
- Lower the service fee:
 - Effective 1/1/2004
 - € 1000/box/year for the first box
 - € 500/box/year for the second and further boxes
- All data will be made public
 - Data server with TTM data since 1999
 - General access
 - Lightweight AUP to avoid abuse

AUP

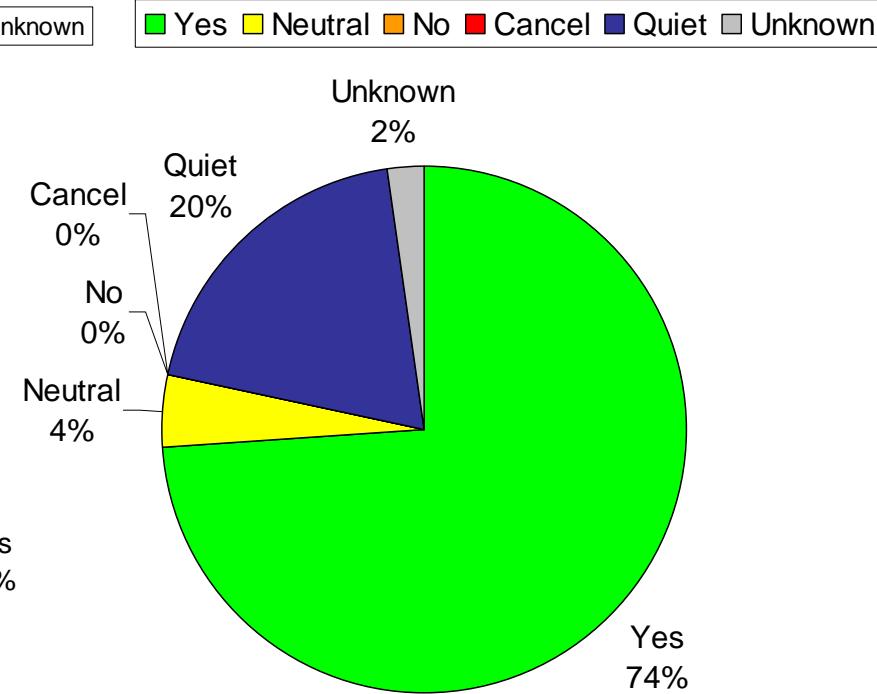
- Will replace RIPE 179
- Lightweight AUP, goal:
 - Avoid abuse
 - As few restrictions as possible otherwise
- 4 line summary:
 - Peer review of analysis before publication
 - NCC to control distribution of data
 - Pointer to the description of the data
 - Credits and copyrights
- Time for the lawyers to come in...

Is this a good idea? Contacted all TB hosts

All Boxes



2002 Service Fee paid



- Clear majority in favor of change
- No bias research/non-commercial/commercial

Comments made

- We did not understand that there was a service fee and don't want to pay
 - ??
- Agree with the fee change, however the RIPE NCC must pay for hardware upgrades if they want to do IPv6 measurements (etc)
 - Hardware sponsors?
- Statistical analysis/summary
 - Next
- Unify monitoring devices: 1 box for everythin

Comments

- Scaling, what happens if a provider adds hundreds of points?
 - Not a problem
- Global info OK, but don't want to hand over regional information to competitors
 - Hard, no solution
- Data used for marketing purposes is OK, but data abused for marketing purposes is not OK
 - AUP?

Proposal

- Continue changing the AUP

Outline

- Intro
- Service contract
- Roberto's proposal for summary numbers
- New developments
- Plans and conclusion

Summary Numbers

(Roberto Percacci's proposal)

- 3 issues:
 1. Publish a statistical summary number
 - Delay/distance
 2. Limit disclosure to global summary number
 3. TTM code downloadable, everybody interested downloads, RIPE NCC supervisory role

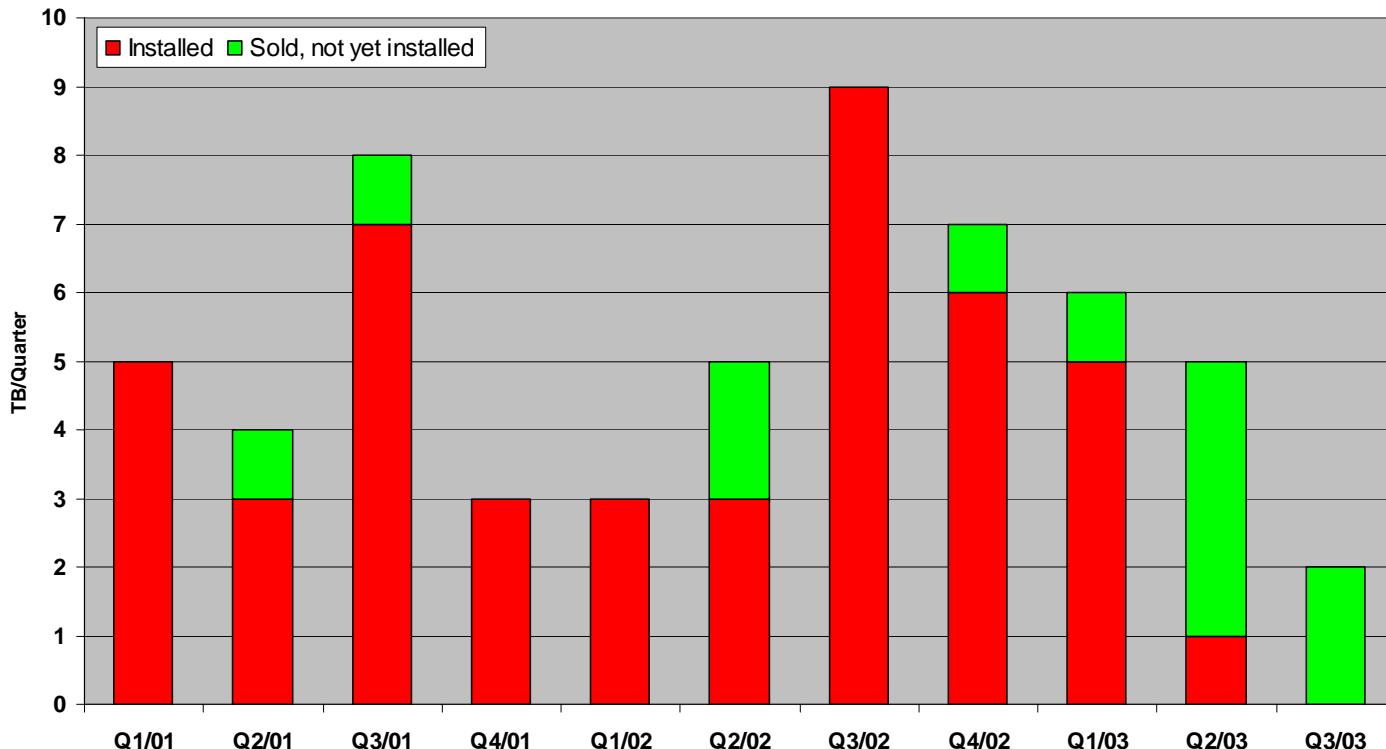
Proposal

1. A summary number is useful but we have to agree on which one?
 - Delay/Distance is a good candidate
 - Other suggestions?
 - If not, added to the to-do list
2. Don't want to restrict people too much
 - Publish result, code and raw data
3. TTM code can already be uploaded on request
 - Download fine with us too
 - Support issue

Outline

- Intro
 - Service contract
 - Roberto's proposal for summary numbers
 - New developments
 - AS-IP
 - Bandwidth
 - dnsmon.ripe.net
 - TB sales
 - v6 and kernel update
 - 2NIC
 - Documentation
 - TU Delft
 - Information Services
 - Plans and conclusion
- } *next talks*

TB Sales



- 2 new boxes/month
- Waiting for AP2004
- Possibility of hardware sponsors

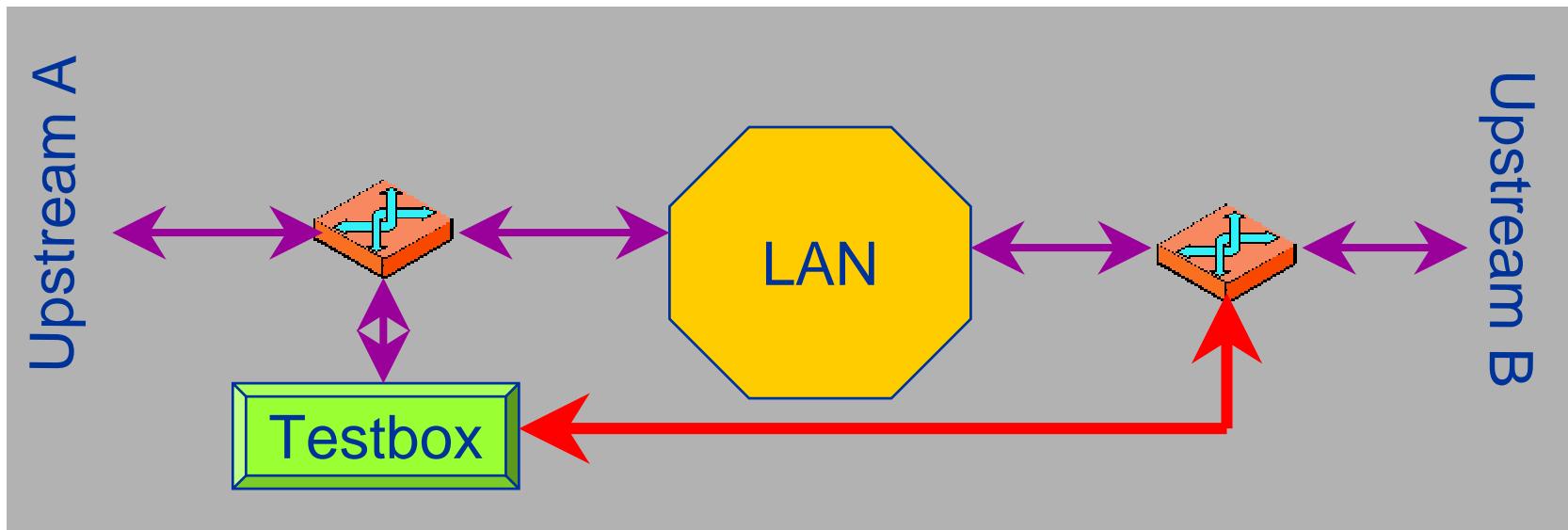
IPv6

- In production since January
- About 12 sites
- Analysis:
 - More sites, more data
 - Comparison IPv4 and IPv6
 - Tunnel detection algorithm
 - RIPE47

Kernel update

- Hardware and software versions:
 - 4 hardware versions: A, B, C, D
 - 5 software versions: 1, 2, 3, 4, 5
 - Version 5:
 - IPv6
 - Backward compatible with version 3 and 4
- Want to reduce the number of versions
 - Upgrade all series C and D boxes
 - Even if no native IPv6 at a site
 - Done 4, Scheduled 4 out of 16
- Feature freeze for version 3 and 4 on 1/10/'03

2 NIC



- 2 NIC's in a TB, 2 points to send data from/to
- Long time project
- Needed the v6 upgrade
- Restarted, ETA 2 months

Update of documentation

- Lots of small changes in the results section
- Documentation outdated
- Update for engineers
- Non-techy version later as part of the IS effort

Work with TU Delft

- 3 studies:
 - Understanding traceroutes
 - Clean-up of unknown addresses
 - “* * *” in your traceroute
 - Finding hot-spots in the network
 - Modeling delays
 - Paper
 - Router vendors
- Thinking about products

Outline

- Intro
- Service contract
- Roberto's proposal for summary numbers
- New developments
- Plans and conclusion

Plans: Short term

- Infrastructure
 - Kernel upgrade
 - 2 new boxes/month
- Analysis
 - IP-AS write-up and tool
 - Bandwidth write-up
 - dnsmon.ripe.net
 - New alarm program
 - 2NIC
 - Summary numbers/Roberto's proposal
 - Delft studies
 - V6 analysis

Long term: Information Services

- Documents
 - 271++
 - AUP
- Infrastructure
 - Data server
 - Code server

Demo

Questions, Discussion

