



AMS-IX Performance Measurements

Geert Nijpels

AMS-IX

- layer-2 Internet exchange
- 4 locations (soon 5)
 - WCW NIKHEF
 - WCW SARA
 - GlobalSwitch
 - Telecity 2

RIPE TTM

- metrics:
 - Packet loss
 - One way delay
 - Jitter
- trend analysis

AMS-IX quality statement

- AMS-IX publishes a quality statement
- Statement on the exchange
 - service delivery
 - network & service availability
 - service quality
- Need benchmark for this statement
 - RIPE TTM independent, trusted

Ripe TTM @ AMS-IX

- 4 boxes connected to local switches at each AMS-IX location
- Values are used for:
 - measuring compliance with the AMS-IX quality statement
 - notice and debug problems in the AMS-IX network

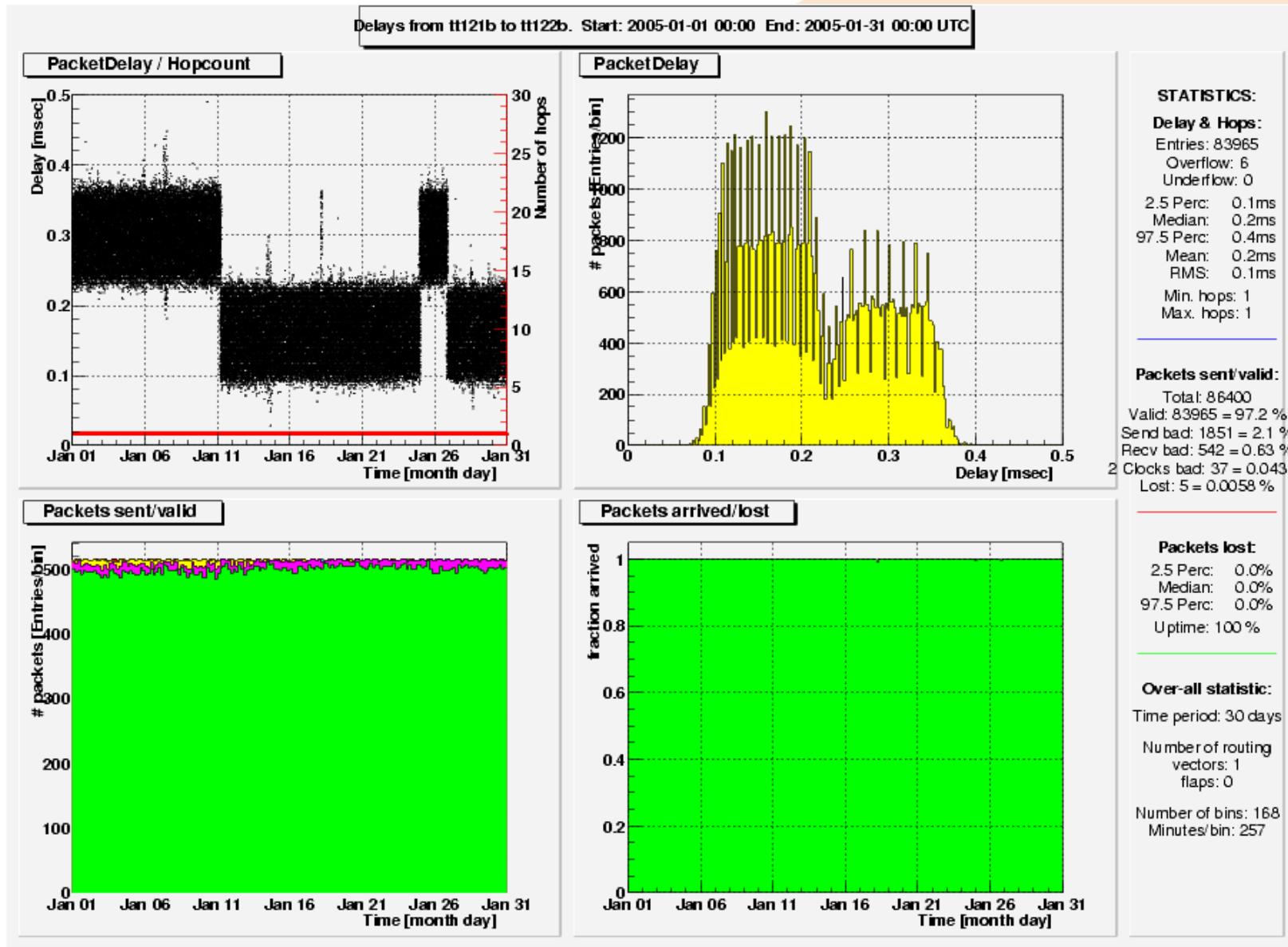
Ripe TTM @ AMS-IX

- RL usage:
 - In case of problems
 - After maintenance
 - History of AMS-IX availability
- NTP server

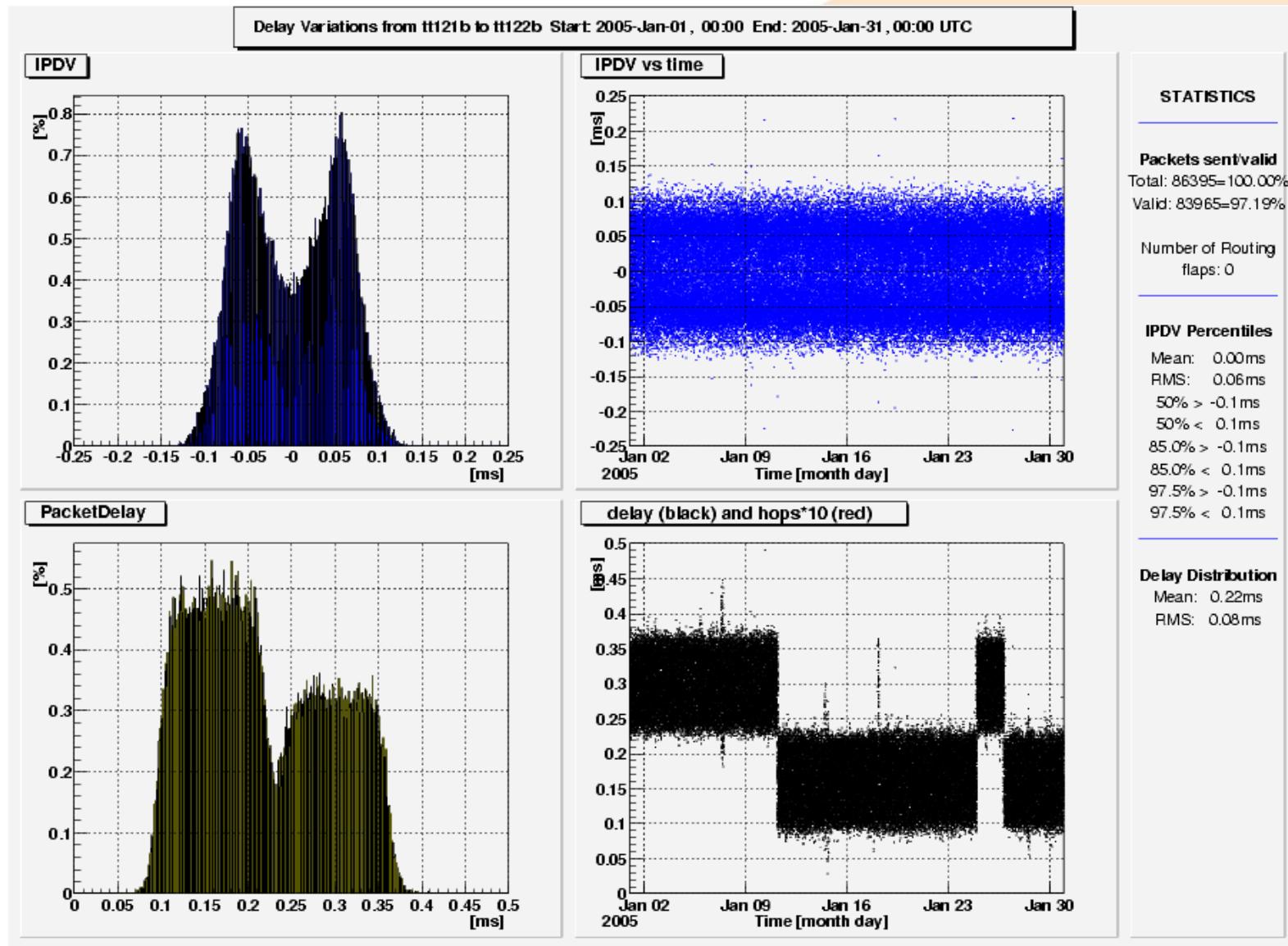
Performance statistics

- AMS-IX monthly report
 - RIPE TTM graphs
- Real-time matrix view
 - Built from the real-time raw datastream derived from each test-box

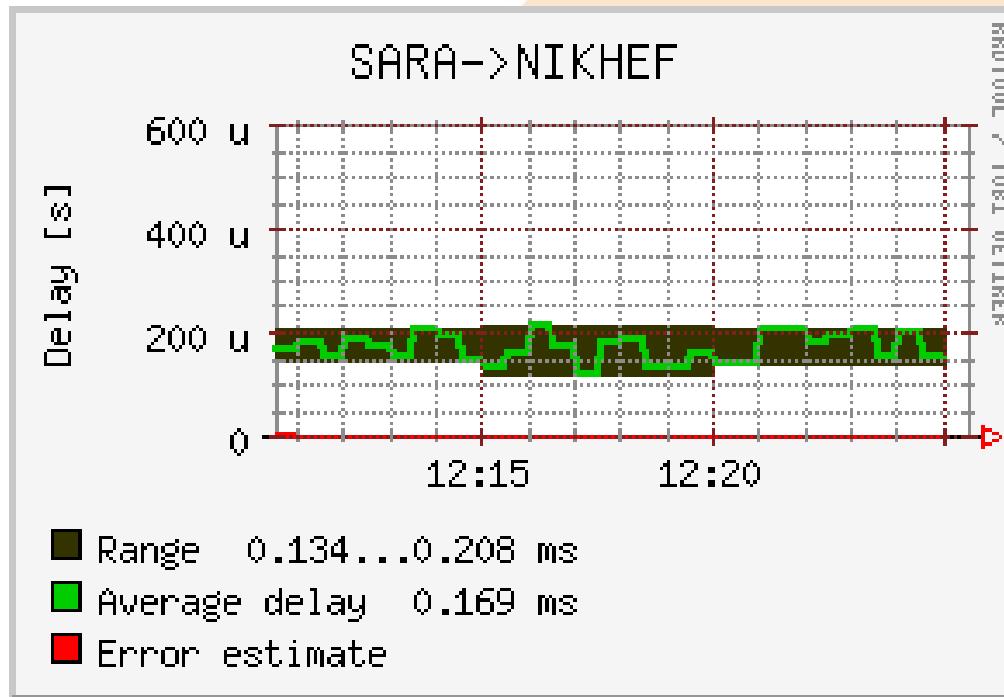
Monthly report



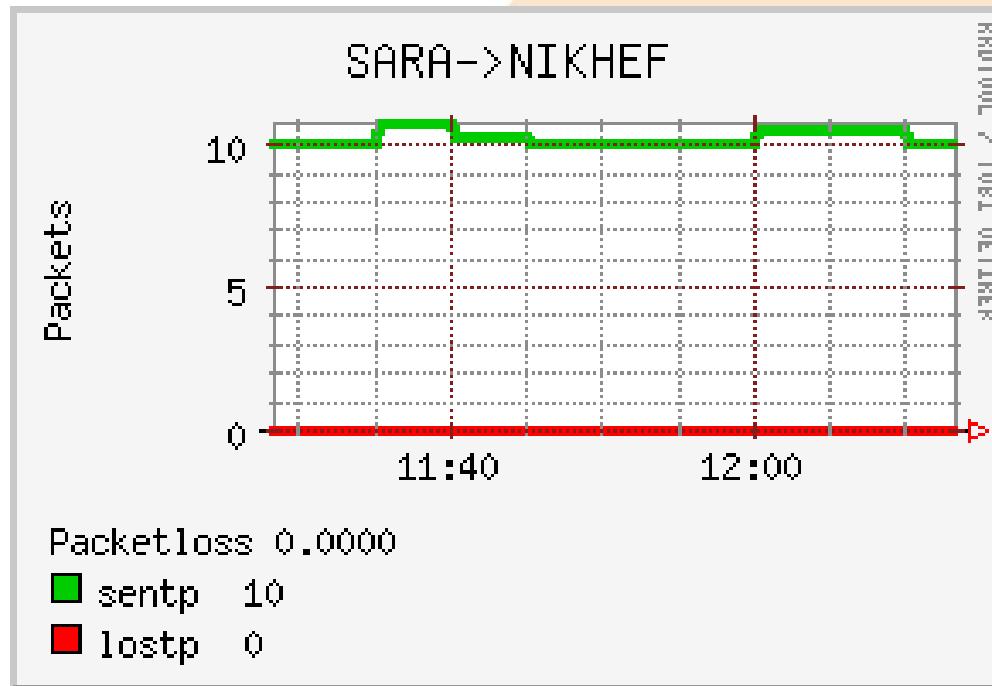
Monthly report; jitter



Real-time view; delay



Real-time view; packetloss



Reference

- TTM real-time view:
 - <http://www.ams-ix.net/ttm/stats.php>
- Monthly report:
 - <https://www.ams-ix.net/members/tools/mr/>
- Quality statement
 - https://www.ams-ix.net/technical/quality_statement.html