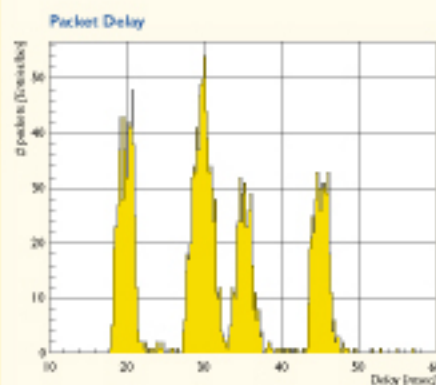


In 1997, an apparent need for metrics to measure network performance became clear and the Internet Engineering Task Force, IP Performance Metrics Working Group (IETF IPPM WG) was established for this reason. The working group has published standards for measuring one-way and round-trip network delays, packet loss rates and connectivity. These standards are published in RFCs 2330 and 2678-2681. Other metrics, such as delay variation and throughput are currently under discussion and will be implemented in due course. For more information on the work of the IPPM WG, see:

- <http://www.ietf.org/html.charters/ippm-charter.html>

The RIPE NCC has been involved in the IPPM WG since its establishment. In parallel, it has implemented the standards in the test-boxes. The RIPE NCC now offers the test-boxes to the Internet industry.

The RIPE NCC now also offers the Test Traffic Measurements Service to the Internet Industry. The goal of the TTM service is to install and operate test-boxes at the sites of interested parties, collect and analyse data, and present the collected information in a useful format for the customers.



Plot showing the distribution of network delays between the two sites shown in the plot on the front page of this brochure.

## Ordering Information

A test-box costs Euro 2,500, excluding installation, shipping costs and taxes. In addition the RIPE NCC charges a service fee for operating the network of test-boxes. For the current rate, please refer to the RIPE NCC web-site at:

- <http://www.ripe.net/test-traffic/>

The RIPE NCC offers volume discounts for organisations hosting more than 1 test-box. The technology can also be licensed for other network performance measurements. More information is available on request.

### How to order

More details about the purchase of a test-box and the TTM services can be found in the RIPE document **Providing Test Traffic Measurements (TTM) as a Membership Service (ripe-209)**, available at:

- <http://www.ripe.net/ripe/docs/ripe-209.html>

Test-boxes can be ordered online through a web-form at:

- <http://www.ripe.net/test-traffic/Host-testbox/>

After you have completed the web-form, you will receive a customised version of the sales and service contract. The template text of the purchase and service agreement can be found in RIPE document **RIPE NCC Test Traffic Measurement Service and Test-Box Purchase agreement (ripe-214)**, available at:

- <http://www.ripe.net/ripe/docs/ripe-214.html>

## About the RIPE NCC

The RIPE Network Coordination Centre is a not-for-profit membership association with ~2400 members comprised mainly of Internet Service Providers (ISP), Telecommunications organisations and large Corporations representing 109 countries in Europe, the Middle East, Central Asia, and African countries north of the equator. Since 1992, the RIPE NCC has been providing services to support the operation of the Internet infrastructure in a neutral and professional manner.

### Contact Information

#### Test Traffic Measurements

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Web-site <http://www.ripe.net/test-traffic/>

### Further information

Technical information about the project is available from

- <http://www.ripe.net/test-traffic/>

For more information about the RIPE NCC in general, visit

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

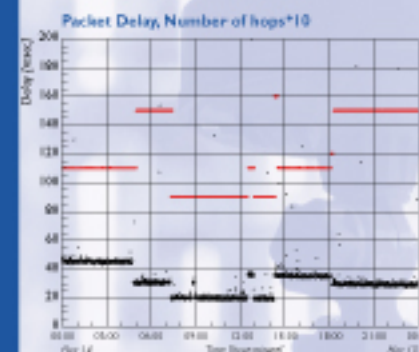


NEW  
RIPE NCC  
SERVICE

## RIPE NCC Test Traffic Measurements

- What do you really know about the quality of your connectivity to the rest of the Internet?
- Can you effectively diagnose problems involving other networks?
- Can you detect longer term trends in your external connectivity?

**The Test Traffic Measurements Service or TTM will provide the answers for you!**



Example plot showing the network delay between 2 sites for a 24 hour period as well as, in red and multiplied by 10, the number of hops seen by the traffic between those sites.

TTM allows you to comprehensively and continuously monitor the connectivity of your network to other parts of the Internet. TTM provides your NOC with information to investigate problems and avoid that they will reoccur. TTM provides you with trend-analysis making it possible to address problems pro-emptively.

TTM is offered as a full service by the RIPE NCC. All measurements are done automatically, all you have to do is to look at the results.