

FTR&D IPv6 measurement system

- Description

This demo shows the usage of an IPv6 IPPM measurement system to control the quality of IPv6 services. The system is made of two components, the IPPM measurement system of Qosmetrix and the IPPM proxy of France Telecom. The probes are distributed on France Telecom IPv6 Network, VTHDv6, at Consulintel office and at IPv6 Global Summit. The probe manager and the IPPM proxy are located in the France Telecom Lab of Lannion.

The system of measure monitors the QoS of the traffic of IPv6 services (HTTP, RTP...) exchanged between the points of measures. It measures IPPM metrics and RTP metrics.

The IPPM Proxy is an implementation of the IPPM REPORTING MIB. Its management framework allows users to set up aggregated measures to be performed on results of networks measure exchanged between the probes.

Coupling these two components will allow results of IPPM measures performed among composite networks to be exchanged between administrative domains.

The services that we will see in this demonstration are:

- IPPM measures over an world wide IPv6 network: These measures perform IPPM metrics such as latency, packets loss and jitter;
- RTP measures over an world wide IPv6 network: These measures perform 80 different RTP metrics;
- IPPM REPORTING MIB agent: The agent allows the creation of aggregated measure reports and the production of measure reports based on results previously stored in the agent.

- What is new?

- A Full IPv6 (&IPv4) IPPM and RTP measurement system. Measures are performed per network services;
- A MIB interface for exchanging the Quality of Service measurement results.

- What could this system add to IPv6 environment?

The system of measure provides both the capability of measuring intra domain performance and the capability of exchanging results between administrative areas. Measurement peering should permit to determine end-to-end QoS, based on the concatenation of measurements results exchanged.