

Next-Generation Measurement Architecture
Standardization and Outreach Group (NMASOG)
Internet Service Performance Test Specifications

Description of Scope:

- ⤴ Test Protocols and Data Structures Implementing Content of Performance Tests;
- ⤴ Active testing problems.

Description of Test Elements:

- ⤴ Features
 - IPv6 support;
 - DNSsec support;
 - Port reachability;
- ⤴ Data rate
 - Sustained and burst;
 - Upload and download;
 - Sensitive to differing congestion algorithms;
 - Capable of capturing TCP characteristics by including slow start;
 - Total traffic and measured time period;
- ⤴ Latency
 - UDP echo round-trip time;
 - ICMP echo round-trip time (“ping”);
 - Latency under load;
- ⤴ Reliability
 - Loss of connectivity (data link);
 - Packet loss;
 - Delay variation (jitter);
 - Extreme delay;
- ⤴ Application emulation
 - DNS lookup delay;
 - Video streaming (possibly adaptive);
 - Audio streaming;
 - VoIP;
 - Web metrics;
 - Simulated web retrieval;
 - Download time for top-N web sites.