

Net Neutrality Reporting

Network Testing Methodology

All Network Tests are loosely based on the FCC's Broadband Testing Methodology as performed by TestMyISP.com through Sam Knows and Broadband.gov's Tests through Measurement Lab. In order to perform these tests we used open source testing tools and free use websites to provide metrics along with simple scripts to perform performance testing.

Our Test Environment

Client

A Dell Optiplex 740 Desktop PC
Ubuntu 10.04 (lucid)
AMD Athlon(tm) 64 X2 Dual Core Processor 3800+
1947 MiB RAM
80 GB Hard Drive

Server

SimpleMicro 1U Server
Intel Xeon Processor
2 GB RAM
1 TB Hard Drive

Our Test Modems

Netgear WNR3500U Wireless Router
Speedstream 4200 Bridge

Tests / Monitoring Performed

Speedtest.net
Pingtest.net
cacti
fping
dig
ntop
[SmokePing-2.3.6](#)
dnstperf
netperf
iperf

Our Test Subscriber is setup with a 3 MB Downstream / 384 Upstream and 6 MB Downstream / 512 MB Upstream Package. PPOE authentication was performed on the Netgear router. The Speedstream 4200 was installed in Bridge Mode.

All testing was performed within a 96 hour window.

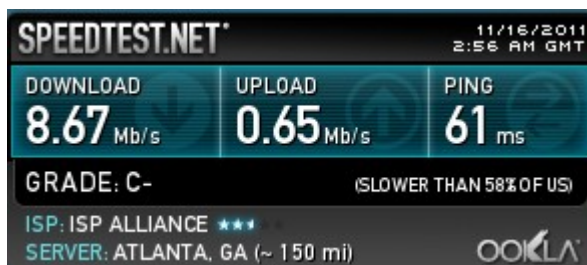
NETWORK TESTING

Multi-threaded HTTP download / upload speed test

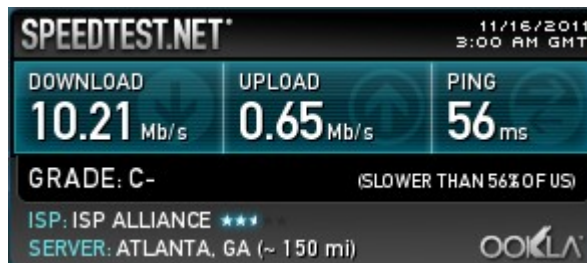
3 MB / 384 TEST USER



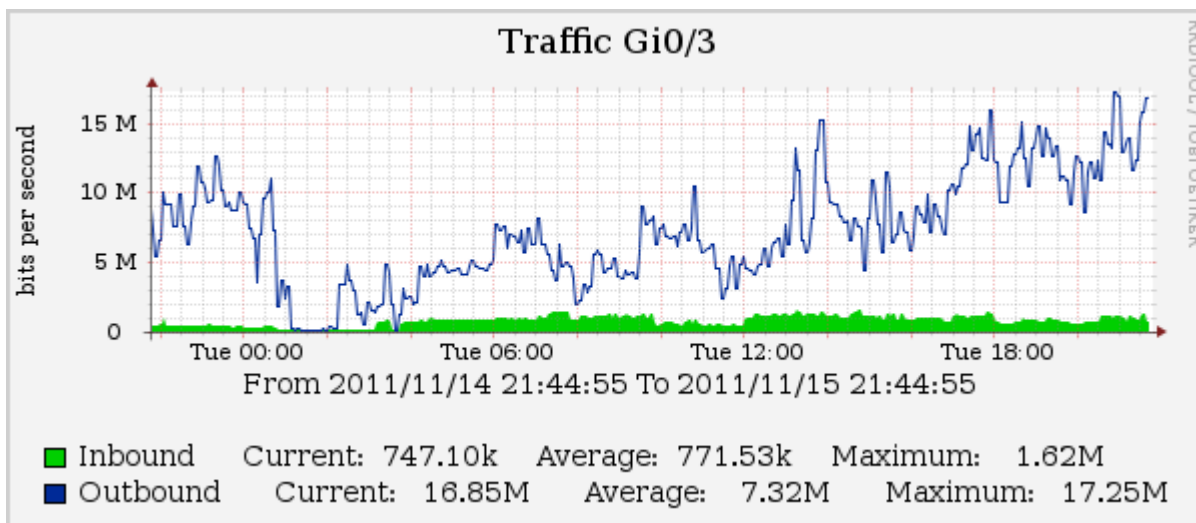
6 MB / 512 TEST USER

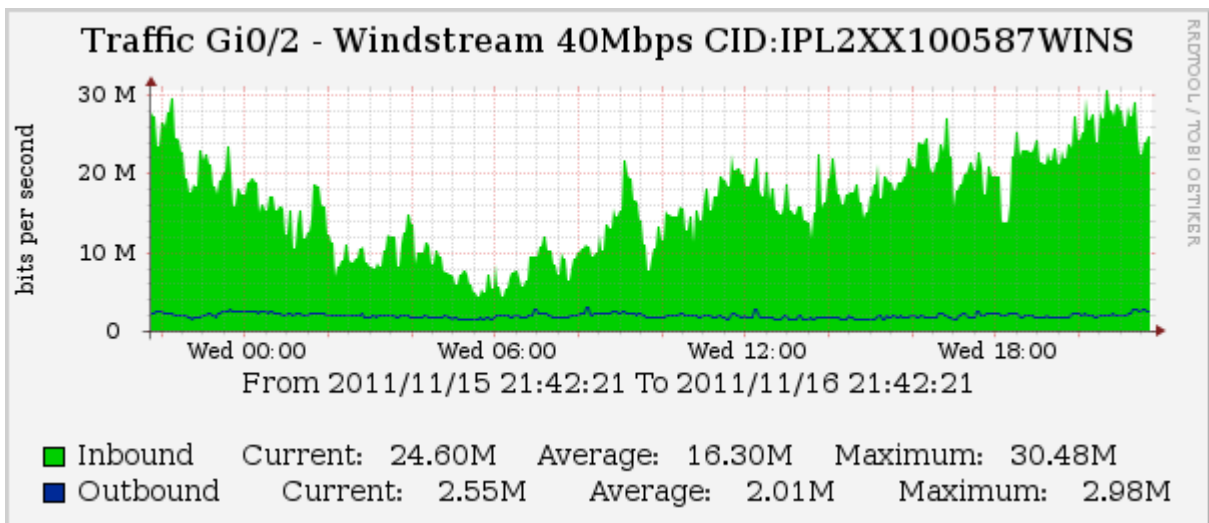
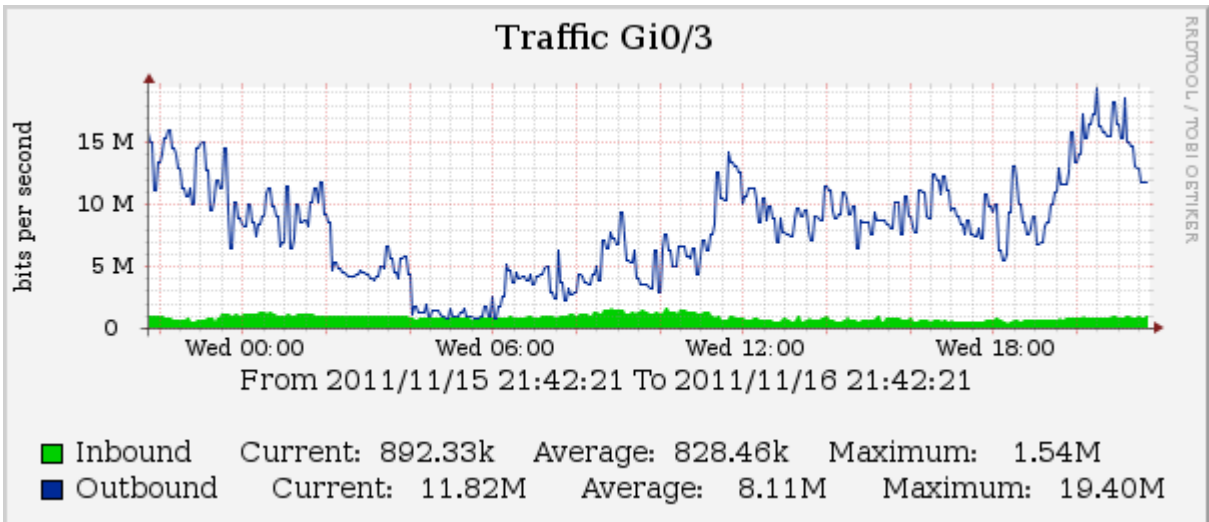
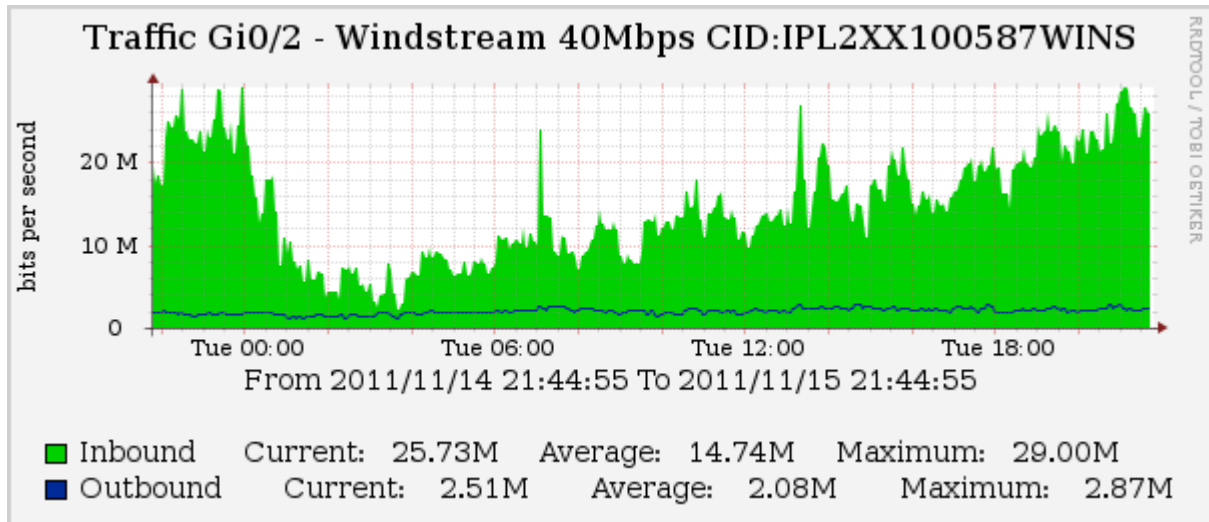


10 MB / 1024 TEST USER



Availability of the connection (2 Day Comparison)





DNS query resolution time & Failure Rate

DNSPERF TEST RESULTS

Statistics:

Parse input file: once
Ended due to: reaching end of file

Queries sent: 3000000 queries
Queries completed: 2800276 queries
Queries lost: 199724 queries

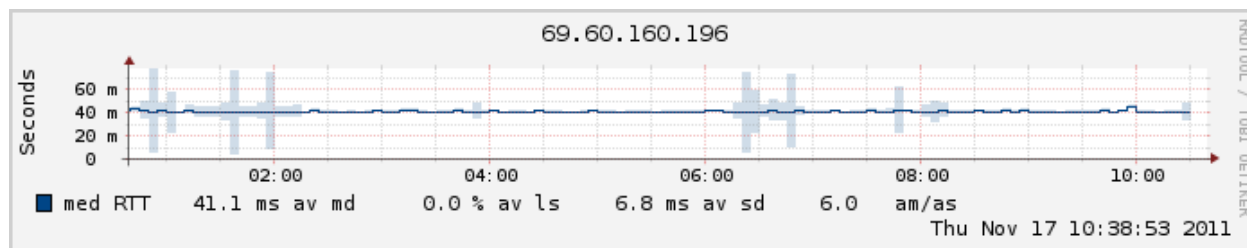
Avg request size: 41 bytes
Avg response size: 125 bytes

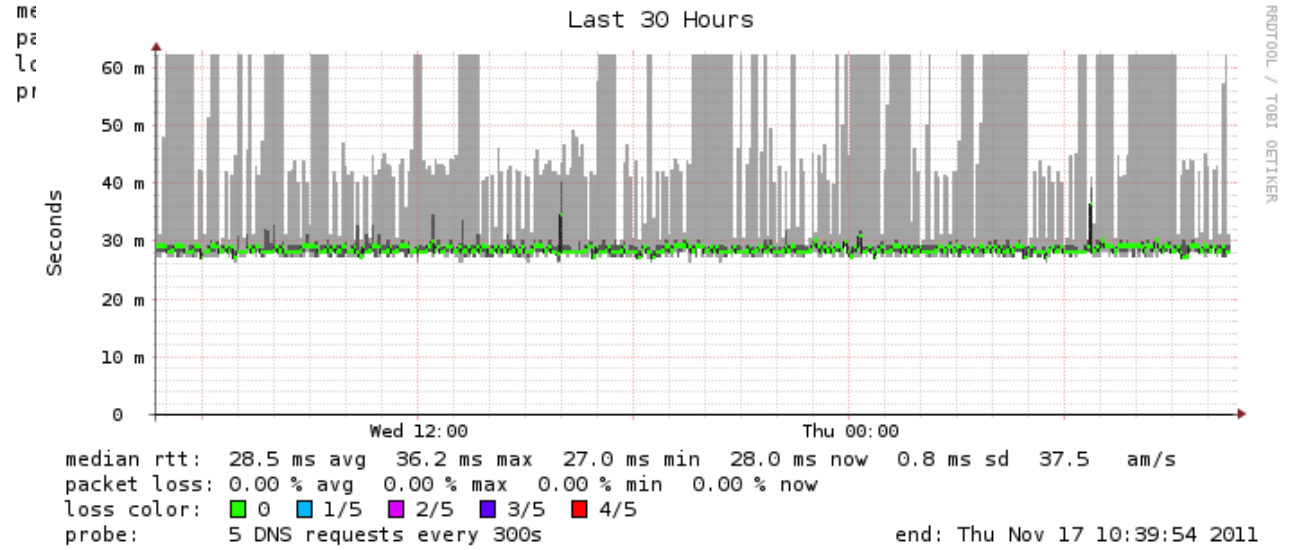
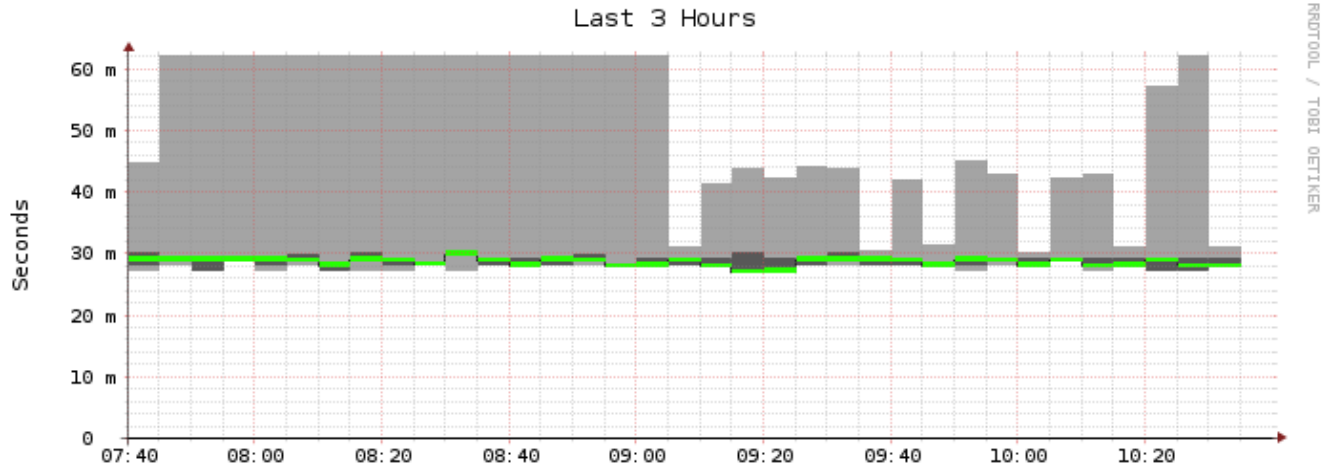
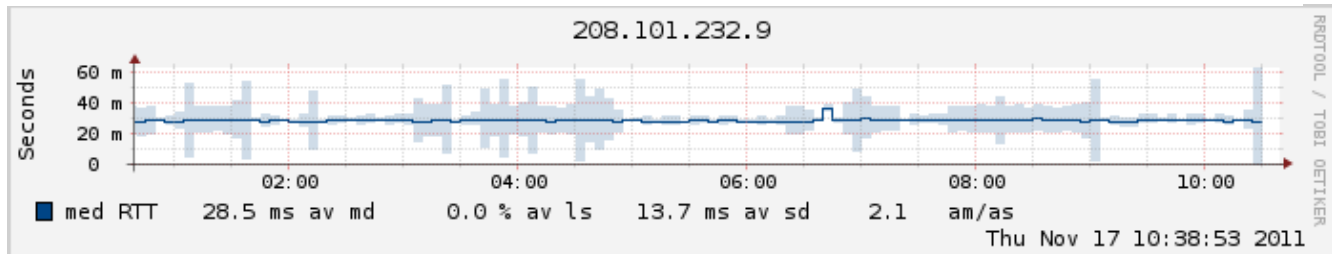
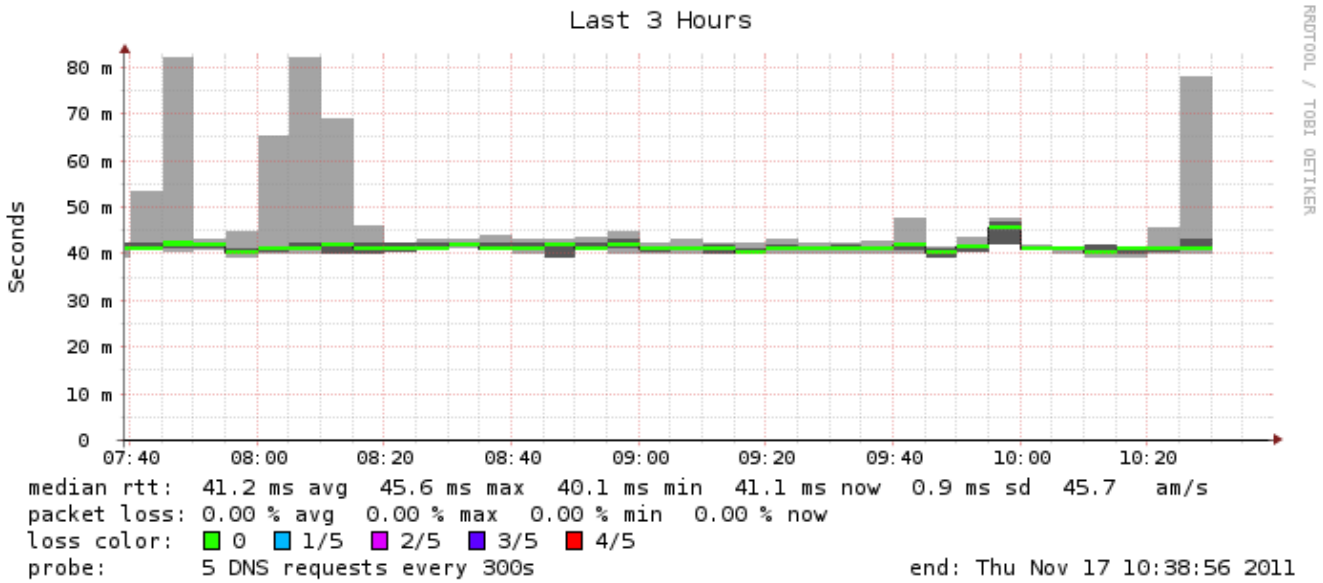
Percentage completed: 93.34%
Percentage lost: 6.66%

Started at: Fri Nov 11 10:30:10 2011
Finished at: Sat Nov 12 02:44:13 2011
Ran for: 58442.611350 seconds

Queries per second: 47.914971 qps

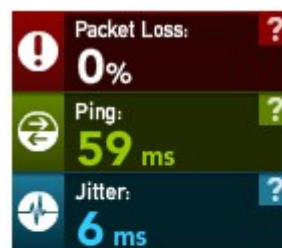
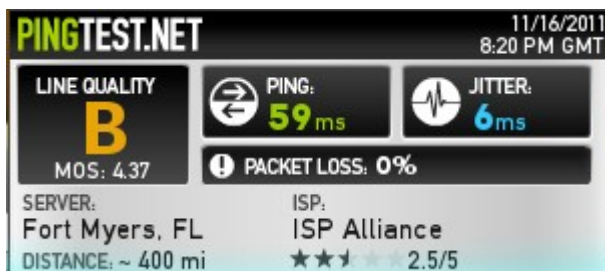
Service Latency (DNS)





Packet Loss & Latency ICMP

NON PEAK HOURS

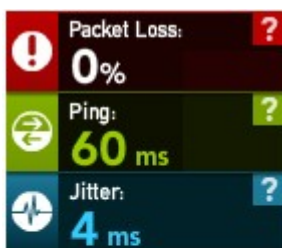
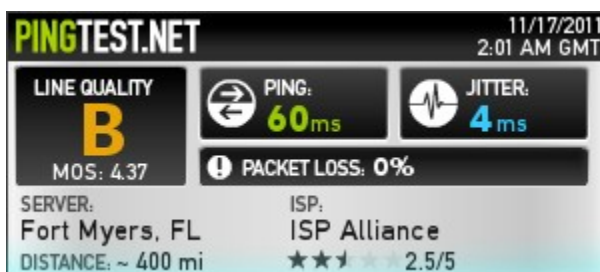


YOUR GRADE: B

Very good! Your connection should work well for any Internet application. Some online games may not perform optimally.

[LEARN MORE ABOUT GRADES](#)

PEAK HOURS



YOUR GRADE: B

Very good! Your connection should work well for any Internet application. Some online games may not perform optimally.

[LEARN MORE ABOUT GRADES](#)

NON PEAK ICMP

```
iperf -c [REDACTED] -t 300 -i 5
```

Client connecting to [REDACTED], TCP port 5001
TCP window size: 16.0 KByte (default)

```
[ 3] local 192.168.1.2 port 42557 connected with [REDACTED] port 5001  
[ ID] Interval      Transfer    Bandwidth  
[ 3] 0.0- 5.0 sec   536 KBytes  878 Kbits/sec  
[ 3] 5.0-10.0 sec   568 KBytes  931 Kbits/sec  
[ 3] 10.0-15.0 sec   248 KBytes  406 Kbits/sec  
[ 3] 15.0-20.0 sec   384 KBytes  629 Kbits/sec  
[ 3] 20.0-25.0 sec   376 KBytes  616 Kbits/sec  
[ 3] 25.0-30.0 sec   384 KBytes  629 Kbits/sec  
[ 3] 30.0-35.0 sec   192 KBytes  315 Kbits/sec  
[ 3] 35.0-40.0 sec   376 KBytes  616 Kbits/sec  
[ 3] 40.0-45.0 sec   384 KBytes  629 Kbits/sec  
[ 3] 45.0-50.0 sec   376 KBytes  616 Kbits/sec  
[ 3] 50.0-55.0 sec   192 KBytes  315 Kbits/sec  
[ 3] 55.0-60.0 sec   376 KBytes  616 Kbits/sec  
[ 3] 60.0-65.0 sec   384 KBytes  629 Kbits/sec  
[ 3] 65.0-70.0 sec   184 KBytes  301 Kbits/sec  
[ 3] 70.0-75.0 sec   384 KBytes  629 Kbits/sec  
[ 3] 75.0-80.0 sec   376 KBytes  616 Kbits/sec  
[ 3] 80.0-85.0 sec   192 KBytes  315 Kbits/sec
```

```

[ 3] 85.0-90.0 sec  376 KBytes  616 Kbits/sec
[ 3] 90.0-95.0 sec  384 KBytes  629 Kbits/sec
[ 3] 95.0-100.0 sec 376 KBytes  616 Kbits/sec
[ 3] 100.0-105.0 sec 192 KBytes  315 Kbits/sec
[ 3] 105.0-110.0 sec 384 KBytes  629 Kbits/sec
[ 3] 110.0-115.0 sec 376 KBytes  616 Kbits/sec
[ 3] 115.0-120.0 sec 192 KBytes  315 Kbits/sec
[ 3] 120.0-125.0 sec 376 KBytes  616 Kbits/sec
[ 3] 125.0-130.0 sec 384 KBytes  629 Kbits/sec
[ 3] 130.0-135.0 sec 376 KBytes  616 Kbits/sec
[ 3] 135.0-140.0 sec 192 KBytes  315 Kbits/sec
[ 3] 140.0-145.0 sec 376 KBytes  616 Kbits/sec
[ 3] 145.0-150.0 sec 384 KBytes  629 Kbits/sec
[ 3] 150.0-155.0 sec 192 KBytes  315 Kbits/sec
[ 3] 155.0-160.0 sec 376 KBytes  616 Kbits/sec
[ 3] 160.0-165.0 sec 376 KBytes  616 Kbits/sec
[ 3] 165.0-170.0 sec 192 KBytes  315 Kbits/sec
[ 3] 170.0-175.0 sec 384 KBytes  629 Kbits/sec
[ 3] 175.0-180.0 sec 376 KBytes  616 Kbits/sec
[ 3] 180.0-185.0 sec 192 KBytes  315 Kbits/sec
[ 3] 185.0-190.0 sec 376 KBytes  616 Kbits/sec
[ 3] 190.0-195.0 sec 384 KBytes  629 Kbits/sec
[ 3] 195.0-200.0 sec 376 KBytes  616 Kbits/sec
[ 3] 200.0-205.0 sec 192 KBytes  315 Kbits/sec
[ 3] 205.0-210.0 sec 376 KBytes  616 Kbits/sec
[ 3] 210.0-215.0 sec 384 KBytes  629 Kbits/sec
[ 3] 215.0-220.0 sec 192 KBytes  315 Kbits/sec
[ 3] 220.0-225.0 sec 376 KBytes  616 Kbits/sec
[ 3] 225.0-230.0 sec 384 KBytes  629 Kbits/sec
[ 3] 230.0-235.0 sec 184 KBytes  301 Kbits/sec
[ 3] 235.0-240.0 sec 384 KBytes  629 Kbits/sec
[ 3] 240.0-245.0 sec 376 KBytes  616 Kbits/sec
[ 3] 245.0-250.0 sec 384 KBytes  629 Kbits/sec
[ 3] 250.0-255.0 sec 184 KBytes  301 Kbits/sec
[ 3] 255.0-260.0 sec 384 KBytes  629 Kbits/sec
[ 3] 260.0-265.0 sec 376 KBytes  616 Kbits/sec
[ 3] 265.0-270.0 sec 192 KBytes  315 Kbits/sec
[ 3] 270.0-275.0 sec 376 KBytes  616 Kbits/sec
[ 3] 275.0-280.0 sec 384 KBytes  629 Kbits/sec
[ 3] 280.0-285.0 sec 376 KBytes  616 Kbits/sec
[ 3] 285.0-290.0 sec 192 KBytes  315 Kbits/sec
[ 3] 290.0-295.0 sec 384 KBytes  629 Kbits/sec
[ 3] 295.0-300.0 sec 376 KBytes  616 Kbits/sec

[ 3] 0.0-302.3 sec 19.5 MBytes  541 Kbits/sec

```

PEAK ICMP

Tue Nov 15 21:20:23 EST 2011

```
iperf -c [REDACTED] -t 300 -i 5
```

```
-----
Client connecting to [REDACTED], TCP port 5001
TCP window size: 16.0 KByte (default)
-----
```

```

[ 3] local 192.168.1.2 port 44036 connected with [REDACTED] port 5001
[ ID] Interval      Transfer    Bandwidth
[ 3] 0.0- 5.0 sec   536 KBytes  878 Kbits/sec
[ 3] 5.0-10.0 sec   752 KBytes  1.23 Mbits/sec
[ 3] 10.0-15.0 sec   504 KBytes  826 Kbits/sec
[ 3] 15.0-20.0 sec   696 KBytes  1.14 Mbits/sec
[ 3] 20.0-25.0 sec   440 KBytes  721 Kbits/sec
[ 3] 25.0-30.0 sec   448 KBytes  734 Kbits/sec
[ 3] 30.0-35.0 sec   440 KBytes  721 Kbits/sec
[ 3] 35.0-40.0 sec    0.00 Bytes  0.00 bits/sec
[ 3] 40.0-45.0 sec   440 KBytes  721 Kbits/sec
[ 3] 45.0-50.0 sec   576 KBytes  944 Kbits/sec
[ 3] 50.0-55.0 sec   440 KBytes  721 Kbits/sec

```



```

[ 3] 55.0-60.0 sec  440 KBytes  721 Kbits/sec
[ 3] 60.0-65.0 sec  0.00 Bytes  0.00 bits/sec
[ 3] 65.0-70.0 sec  888 KBytes  1.45 Mbits/sec
[ 3] 70.0-75.0 sec  448 KBytes  734 Kbits/sec
[ 3] 75.0-80.0 sec  0.00 Bytes  0.00 bits/sec
[ 3] 80.0-85.0 sec  504 KBytes  826 Kbits/sec
[ 3] 85.0-90.0 sec  440 KBytes  721 Kbits/sec
[ 3] 90.0-95.0 sec  448 KBytes  734 Kbits/sec
[ 3] 95.0-100.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 100.0-105.0 sec 1008 KBytes 1.65 Mbits/sec
[ 3] 105.0-110.0 sec 440 KBytes  721 Kbits/sec
[ 3] 110.0-115.0 sec 448 KBytes  734 Kbits/sec
[ 3] 115.0-120.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 120.0-125.0 sec 568 KBytes  931 Kbits/sec
[ 3] 125.0-130.0 sec 440 KBytes  721 Kbits/sec
[ 3] 130.0-135.0 sec 448 KBytes  734 Kbits/sec
[ 3] 135.0-140.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 140.0-145.0 sec 440 KBytes  721 Kbits/sec
[ 3] 145.0-150.0 sec 448 KBytes  734 Kbits/sec
[ 3] 150.0-155.0 sec 440 KBytes  721 Kbits/sec
[ 3] 155.0-160.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 160.0-165.0 sec 952 KBytes 1.56 Mbits/sec
[ 3] 165.0-170.0 sec 440 KBytes  721 Kbits/sec
[ 3] 170.0-175.0 sec 440 KBytes  721 Kbits/sec
[ 3] 175.0-180.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 180.0-185.0 sec 448 KBytes  734 Kbits/sec
[ 3] 185.0-190.0 sec 504 KBytes  826 Kbits/sec
[ 3] 190.0-195.0 sec 440 KBytes  721 Kbits/sec
[ 3] 195.0-200.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 200.0-205.0 sec 952 KBytes 1.56 Mbits/sec
[ 3] 205.0-210.0 sec 440 KBytes  721 Kbits/sec
[ 3] 210.0-215.0 sec 448 KBytes  734 Kbits/sec
[ 3] 215.0-220.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 220.0-225.0 sec 440 KBytes  721 Kbits/sec
[ 3] 225.0-230.0 sec 504 KBytes  826 Kbits/sec
[ 3] 230.0-235.0 sec 448 KBytes  734 Kbits/sec
[ 3] 235.0-240.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 240.0-245.0 sec 944 KBytes 1.55 Mbits/sec
[ 3] 245.0-250.0 sec 448 KBytes  734 Kbits/sec
[ 3] 250.0-255.0 sec 440 KBytes  721 Kbits/sec
[ 3] 255.0-260.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 260.0-265.0 sec 0.00 Bytes  0.00 bits/sec
[ 3] 265.0-270.0 sec 824 KBytes 1.35 Mbits/sec
[ 3] 270.0-275.0 sec 440 KBytes  721 Kbits/sec
[ 3] 275.0-280.0 sec 512 KBytes  839 Kbits/sec
[ 3] 280.0-285.0 sec 440 KBytes  721 Kbits/sec
[ 3] 285.0-290.0 sec 440 KBytes  721 Kbits/sec
[ 3] 290.0-295.0 sec 448 KBytes  734 Kbits/sec
[ 3] 295.0-300.0 sec 0.00 Bytes  0.00 bits/sec

[ 3] 0.0-303.4 sec 23.9 MBytes 662 Kbits/sec

```

Packet loss & Latency UDP

NON PEAK UDP

```
iperf -c [REDACTED] -u -t 300 -i 5
```

```

-----
Client connecting to [REDACTED] UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 112 KByte (default)
-----

```

```

[ 3] local 192.168.1.2 port 58429 connected with [REDACTED] port 5001
[ ID] Interval  Transfer  Bandwidth
[ 3] 0.0- 5.0 sec 44.0 GBytes 75.6 Gbits/sec
[ 3] 5.0-10.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 10.0-15.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 15.0-20.0 sec 20.0 GBytes 34.4 Gbits/sec

```



```
[ 3] 20.0-25.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 25.0-30.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 30.0-35.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 35.0-40.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 40.0-45.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 45.0-50.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 50.0-55.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 55.0-60.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 60.0-65.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 65.0-70.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 70.0-75.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 75.0-80.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 80.0-85.0 sec 32.0 GBytes 55.0 Gbits/sec
[ 3] 85.0-90.0 sec 28.0 GBytes 48.1 Gbits/sec
[ 3] 90.0-95.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 95.0-100.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 100.0-105.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 105.0-110.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 110.0-115.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 115.0-120.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 120.0-125.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 125.0-130.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 130.0-135.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 135.0-140.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 140.0-145.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 145.0-150.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 150.0-155.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 155.0-160.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 160.0-165.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 165.0-170.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 170.0-175.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 175.0-180.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 180.0-185.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 185.0-190.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 190.0-195.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 195.0-200.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 200.0-205.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 205.0-210.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 210.0-215.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 215.0-220.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 220.0-225.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 225.0-230.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 230.0-235.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 235.0-240.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 240.0-245.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 245.0-250.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 250.0-255.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 255.0-260.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 260.0-265.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 265.0-270.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 270.0-275.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 275.0-280.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 280.0-285.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 285.0-290.0 sec 16.0 GBytes 27.5 Gbits/sec
[ 3] 290.0-295.0 sec 20.0 GBytes 34.4 Gbits/sec
[ 3] 295.0-300.0 sec 24.0 GBytes 41.2 Gbits/sec
[ 3] 0.0-300.0 sec 1340068661370 bits 35.7 Gbits/sec
[ 3] Sent 26751 datagrams
```

PEAK UDP

Tue Nov 15 21:38:29 EST 2011

```
iperf -c 208.101.232.10 -u -t 300 -i 5
```

```
-----
Client connecting to 208.101.232.10, UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 112 KByte (default)
```

[3] local 192.168.1.2 port 39347 connected with 208.101.232.10 port 5001

[ID]	Interval	Transfer	Bandwidth
[3]	0.0- 5.0 sec	44.0 GBytes	75.6 Gbits/sec
[3]	5.0-10.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	10.0-15.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	15.0-20.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	20.0-25.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	25.0-30.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	30.0-35.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	35.0-40.0 sec	40.0 GBytes	68.7 Gbits/sec
[3]	40.0-45.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	45.0-50.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	50.0-55.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	55.0-60.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	60.0-65.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	65.0-70.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	70.0-75.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	75.0-80.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	80.0-85.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	85.0-90.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	90.0-95.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	95.0-100.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	100.0-105.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	105.0-110.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	110.0-115.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	115.0-120.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	120.0-125.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	125.0-130.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	130.0-135.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	135.0-140.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	140.0-145.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	145.0-150.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	150.0-155.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	155.0-160.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	160.0-165.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	165.0-170.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	170.0-175.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	175.0-180.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	180.0-185.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	185.0-190.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	190.0-195.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	195.0-200.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	200.0-205.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	205.0-210.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	210.0-215.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	215.0-220.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	220.0-225.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	225.0-230.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	230.0-235.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	235.0-240.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	240.0-245.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	245.0-250.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	250.0-255.0 sec	16.0 GBytes	27.5 Gbits/sec
[3]	255.0-260.0 sec	24.0 GBytes	41.2 Gbits/sec
[3]	260.0-265.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	265.0-270.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	270.0-275.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	275.0-280.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	280.0-285.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	285.0-290.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	290.0-295.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	295.0-300.0 sec	20.0 GBytes	34.4 Gbits/sec
[3]	0.0-300.0 sec	1335773695545 bits	35.6 Gbits/sec
[3]	Sent 26751 datagrams		
read failed: Connection refused			

[3] WARNING: did not receive ack of last datagram after 1 tries.

Glenwood Telephone Company Broadband Network Statement on Internet Practices

Glenwood Telephone Company (GTC) maintains an open Internet for its customers. This document summarizes GTC's Network Management practices, Network Testing Methodology, and Performance Characteristics and Terms for all Broadband Internet Access Services.

NETWORK PRACTICES

Congestion Management

GTC manages congestion on a network-wide basis, and reserves the right in situations of severe congestion like a natural disaster or a malicious external attack intended to overload or bring down GTC's network (i.e. a Denial of Service Attack) to limit access to portions of or its entire network. If GTC finds network congestion which may impact use of GTC services by our customers we will work to acquire more backbone capacity to alleviate the congestion first.

GTC does not cap customers usage or limit the speed of an individual customers service once an amount of usage is reached, However, in the future GTC does reserve the right to use these strategies including tiered service, usage caps, and or charges for exceeding the aforementioned caps. If GTC elects to use these or similar strategies notification will precede making any such changes.

Application Specific Behavior

GTC does not block or prevent access to applications, protocol, or ports found on or destined to the Internet, except to protect our network and customers.

Device Attachment Rules

GTC permits customers to attach devices in accordance with its Terms of Service and Acceptable Use Policy. Not all devices may be compatible with the GTC network, and performance of such devices will vary depending on the type of Internet Service customer has elected.

Security

GTC does enlist Security and Performance monitoring software on its network to monitor potential cases of abuse and fraud, yet we do not choose to disclose specifics in this paper in order to maintain network integrity. If GTC determines the presence of such security threats GTC may temporarily block access from or to its network and its customers. If a customer feels this may be in error, customer may contact the Internet Department at 912.523.5111.

PERFORMANCE CHARACTERISTICS

Service Description

GTC offers broadband service to all of the customers in its ILEC exchange area, using a combination of (ADSL & ADSL2+ technologies, dedicated circuits, and Metro Ethernet). The availability of these specific technologies may vary by service, and may be upgraded in the future.

GTC's broadband Internet speeds vary depending on customer choice and type of technology used. GTC provisions a customers connection above the average speed to take into account variances in network load, transmission type, and facilities just to name a few, yet actual speeds experienced by the customer will vary based on conditions such as the aforementioned ones, in addition to customer wiring, interference, computer configuration, congestion, and remote server speeds and configuration. Other variables may also attribute to a customers actual speed experience. Due to these variables GTC does not and cannot guarantee speeds.

Privacy Policies

GTC monitors traffic between points of its network and locations on the Internet for network management, yet GTC does not inspect, analyze, or store content of individual customer's traffic. GTC's Privacy Policy provides further details on how GTC protects its customer's Personally Identifiable Information from inappropriate use.

QUESTIONS AND CONCERNS

Customers who have questions or are experiencing problems with their Internet service may contact GTC at 912.523.5111. Customers or Internet edge providers may email complaints, questions, security concerns, or reports of abuse or potential infringements to absue@gtconline.com

UPDATES

GTC reserves the right to update this Broadband Network Statement and will do so as circumstances may warrant.