Application note on Jperf 2.0 software for throughput verification in data links.

JPERF_AN_ENB01W

This document explains in a simple way how to verify with a test the data throughput between two connections, the application is **Jperf 2.0.**

1

The first step is to establish communication between both communication sites in the connection, please see the example shown in the following **figure 1.** In this case, a PtP link is shown and we'll measure the throughput between IP 192.168.1.3 and IP 192.168.1.4.

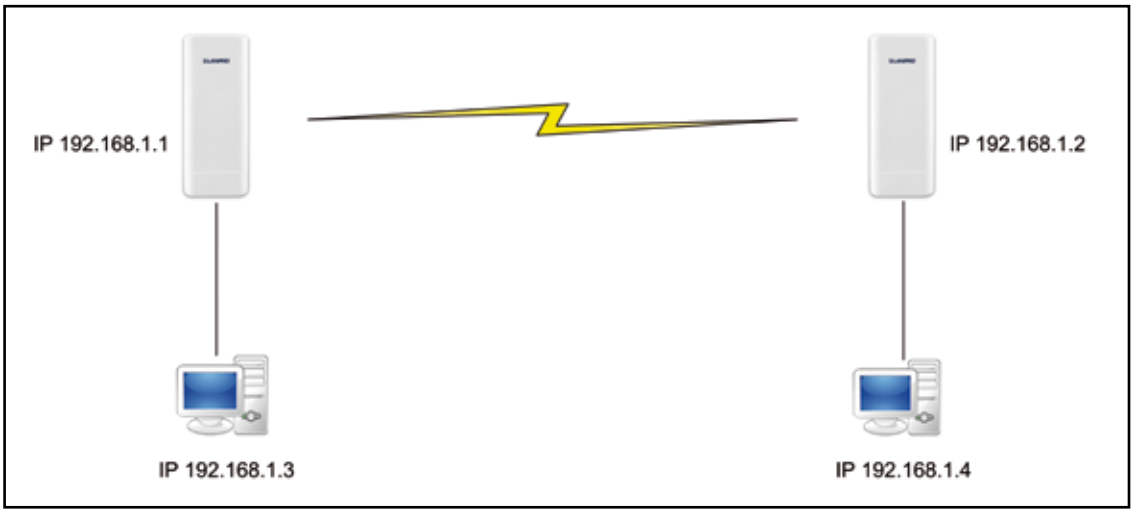

Figure 1

2

Download the **Jperf 2.0** application from the Internet, decompress the file and place it in the root directory of your disc unit, as shown in the group of images of **figure 2**

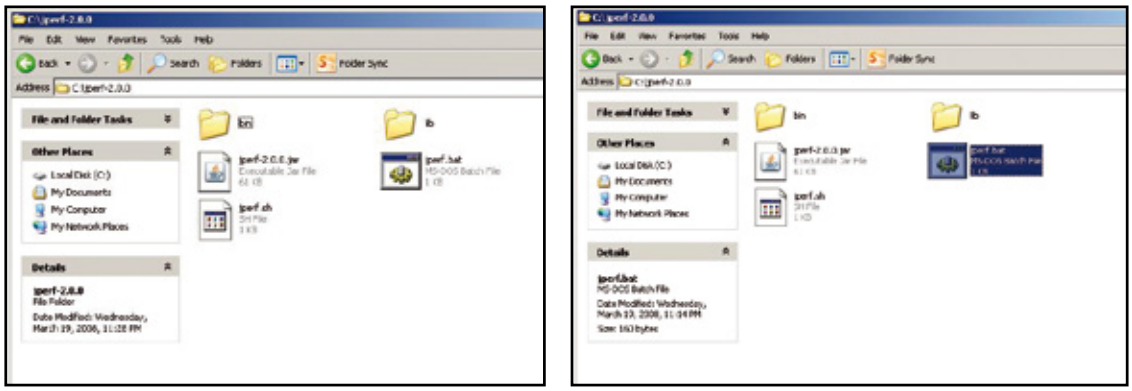

Figure 2

3

Remember to verify the IP addresses of the Computer interface cards shown in the **figure 1**, and remember they must be in the same segment and different.

In this example they are: 192.168.1.3 and 192.168.1.4, as shown in the images of **figure 3.**

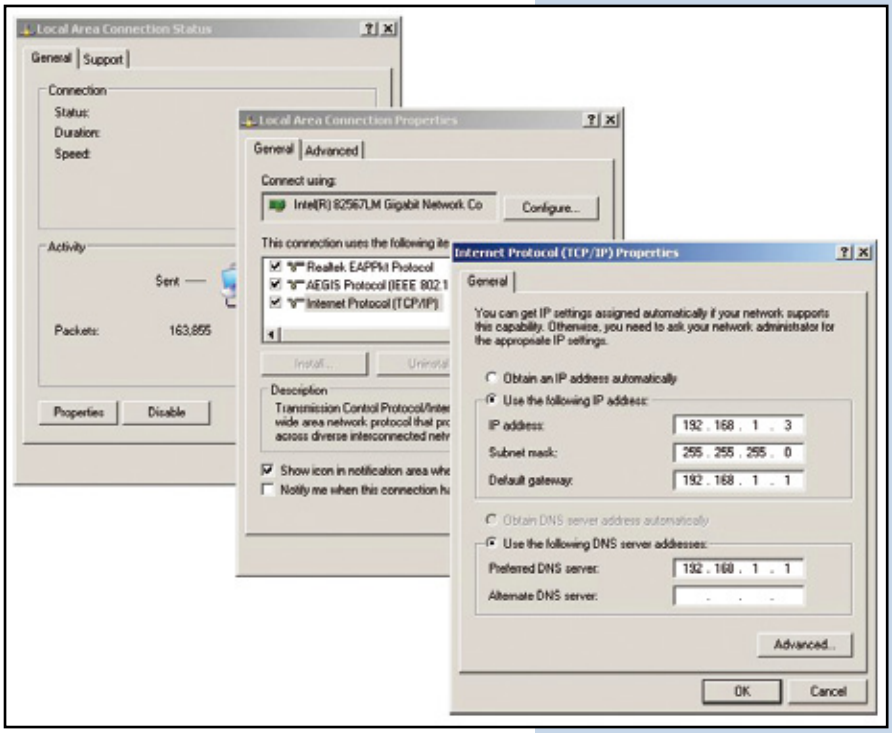

Figure 3

4

Please verify that pings can be sent between both equipment as shown in the images of **figure 4**

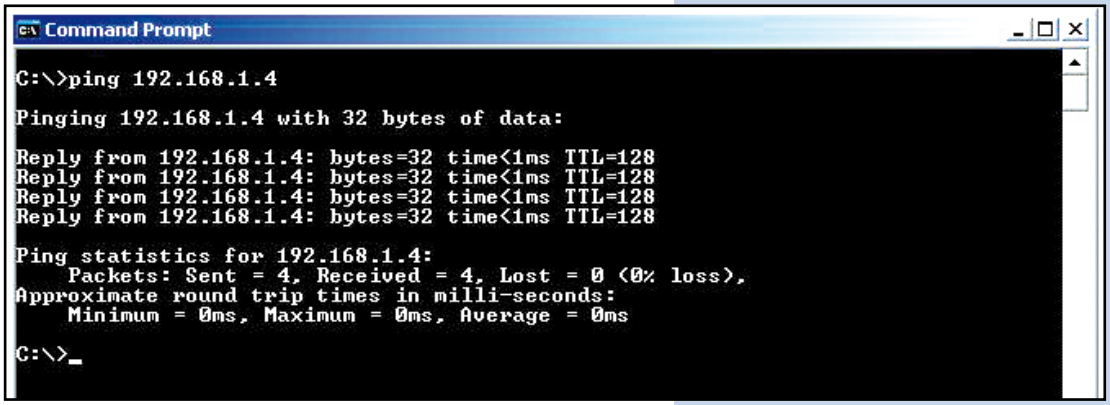

Figure 4

5

In case you have a Firewall installed, please check that the corresponding ports are open or deactivate the firewall in order to execute the test.

6

Proceed to execute the Jperf application (Jperf.bat) as shown in **figure 5.**

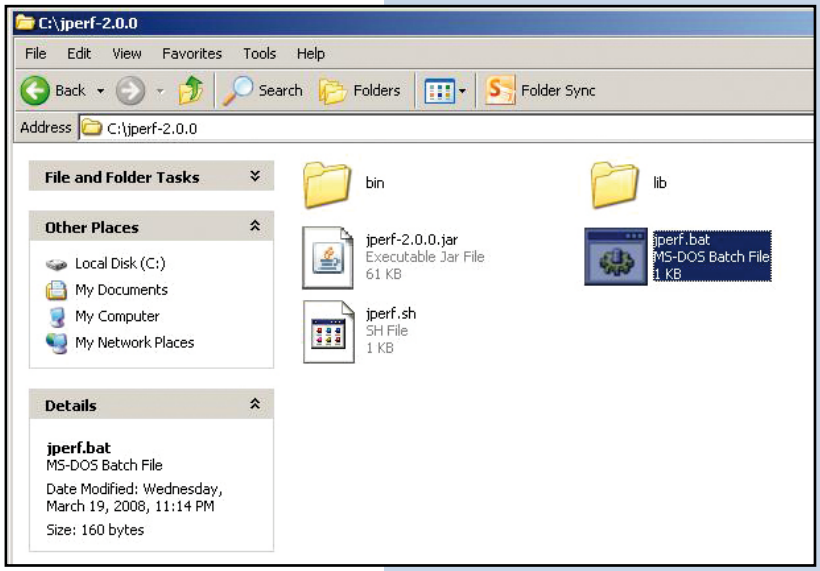

Figure 5

7

In this example, we will configure the server Mode on the IP 192.168.1.4 side and the configuration as a Client in the IP 192.168.1.3

8

In the **figure 6** you can watch the data you must input in the PC that will be used as server (192.168.1.4).

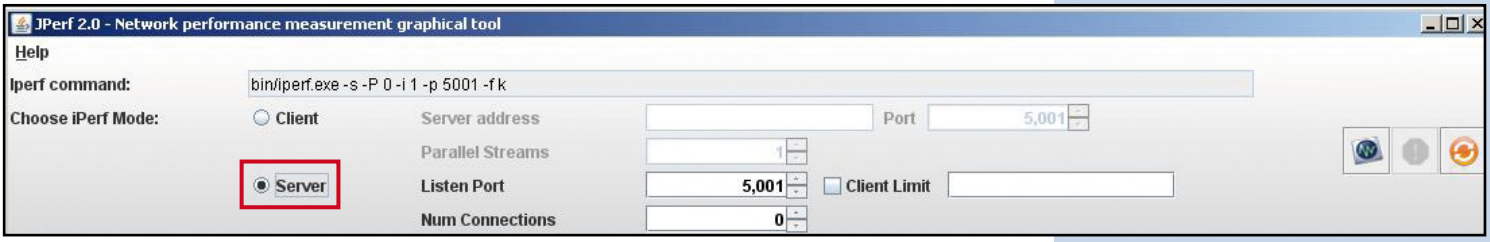

Figure 6

9

You can proceed now to stablish the units of measure of throughput that will be used in the graphics, as shown in **figure 7.**

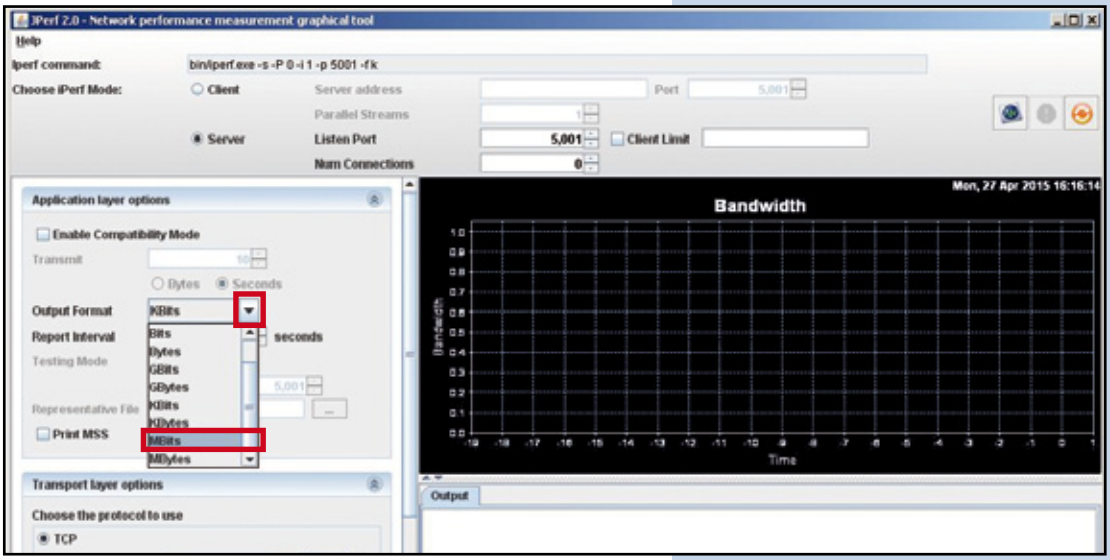

Figure 7

10

Once configured, proceed to initiate the capture of the traffic, select the corresponding Icon, as shown in **figure 8.**

Figure 8

11

Move yourself to the other PC and execute the Jperf application in it, select it to work as a Client, as shown in **figure 9.**

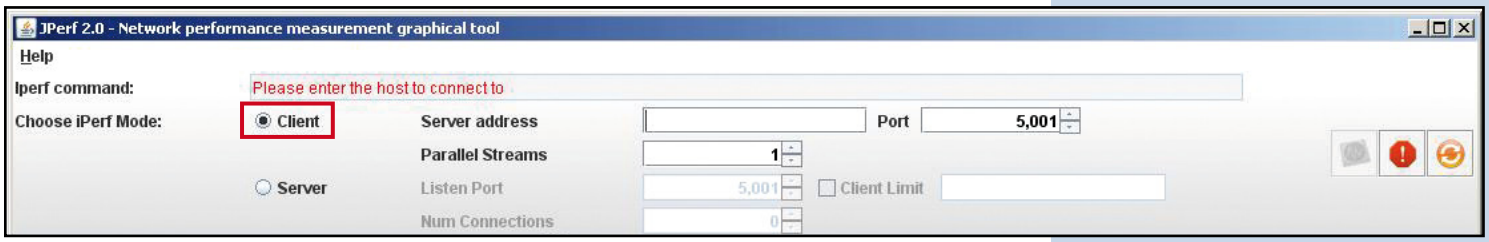

Figure 9

12

Input the Server IP in the corresponding field, as shown in **figure 10**

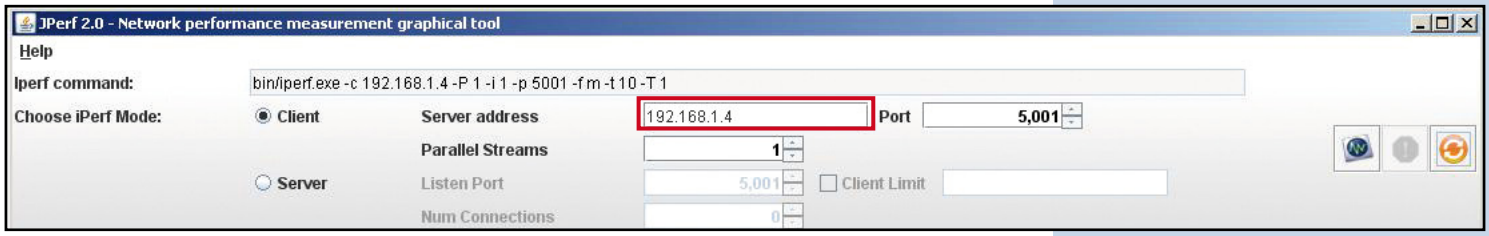

Figure 10

13

If you watch this example, we are sending the traffic equivalent of only one sesión of **figure 11a**, remember to select the units of measure of throughput like you did in the Server, as shown in **figure 11b**

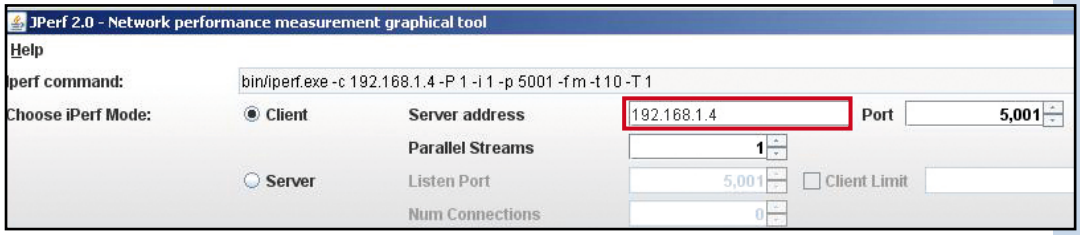

Figure 11a

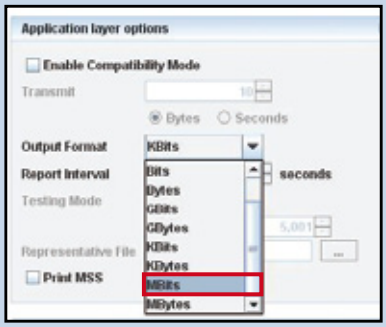

Figure 11b

14

To start the test, select the start option (button inside the red rectangle), as shown in **figure 12.**

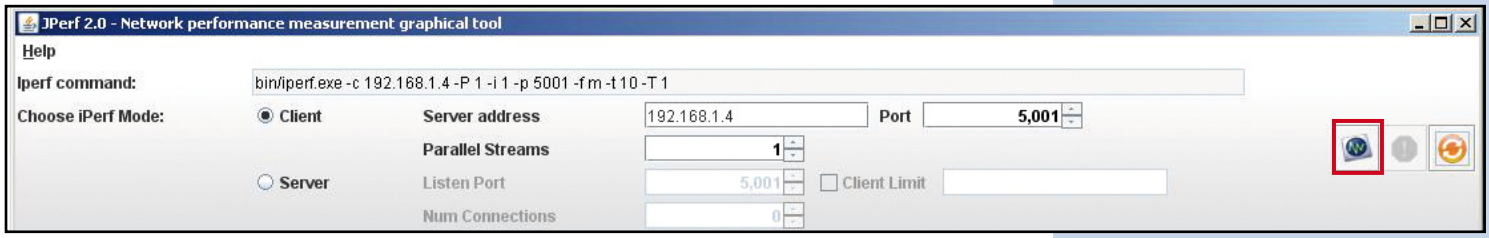

Figure 12

15

The program will start sending traffic and perform the test, and will show the results when finished, as shown in **figure 13.**

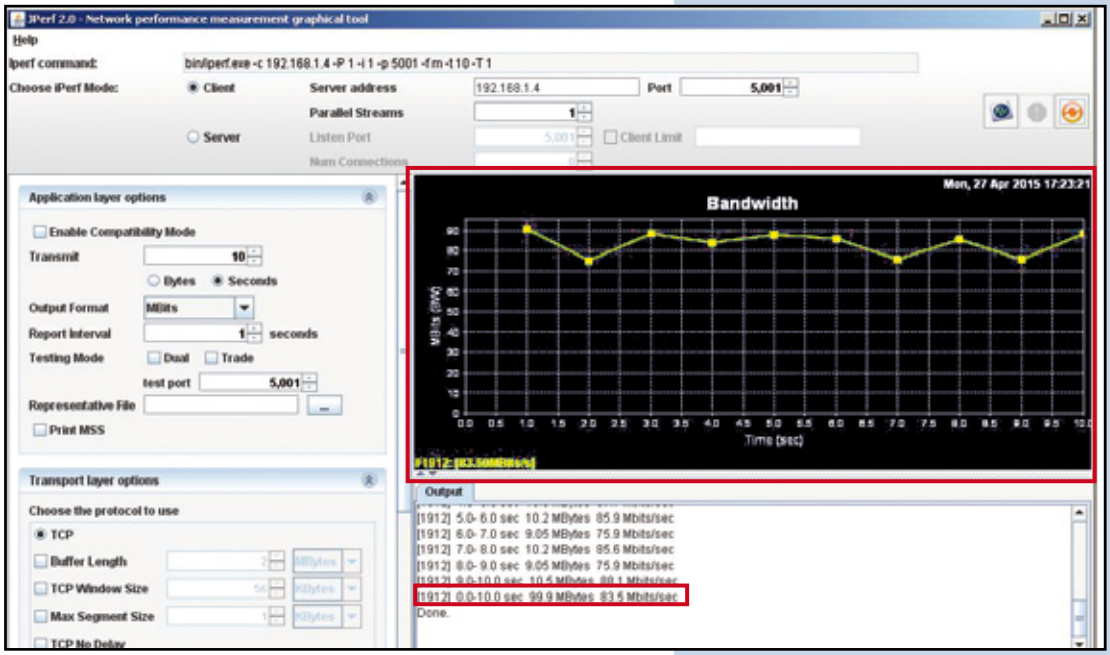

Figure 13

16

If you select more sessions, they will be represented and each will produce results plus the general traffic sum, as shown in **figure 14.** Please remember that in each test you will have to select the start button mentioned in the **Step 14**, and the destination server should be active.

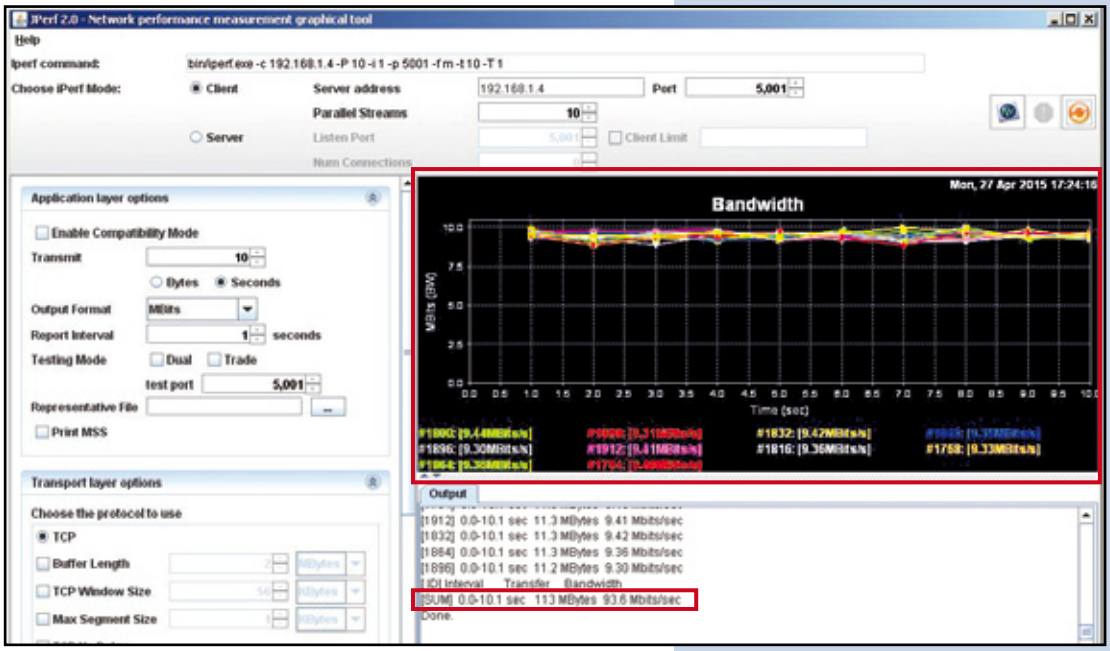

Figure 14

17

You can play with the different parameters if needed.