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# **ONX TrueSpeed Quick Guide**

**October 2016**

# TrueSpeed Testing from ONX to VNF Server

- This short guide describes the steps required to configure the ONX to conduct RFC 6349 TrueSpeed tests to a TrueSpeed VNF server
- The TrueSpeed VNF server have the ONX capabilities license
  - Most customers create a “authorization user name” and “authorization password”
  - This authorization name and password must be provided to the ONX user and will be configured as shown in the subsequent slides

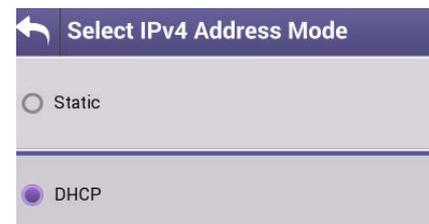
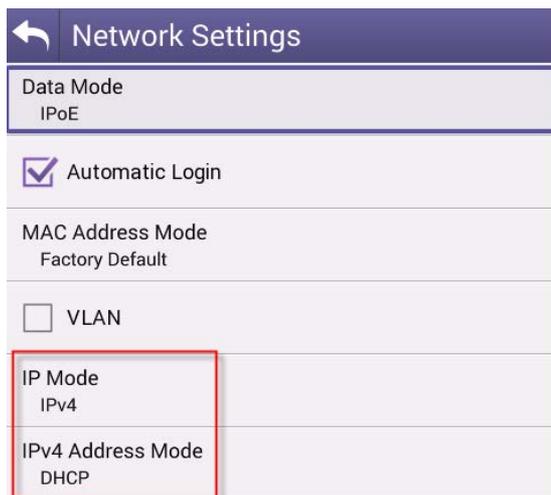
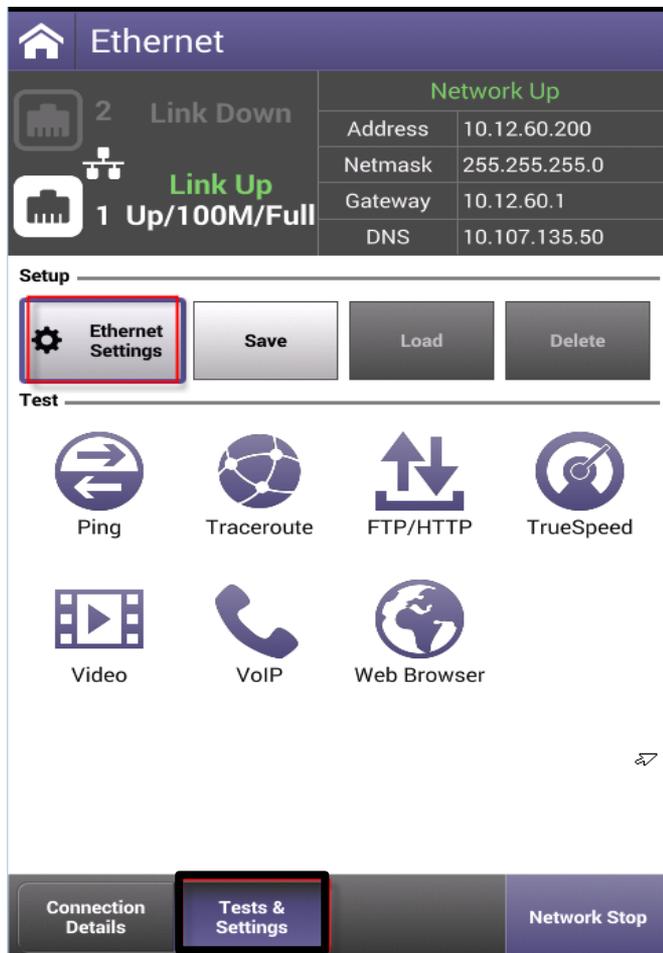
# Launch the Ethernet Application

- Verify the Ethernet port is connected
- Launch the Ethernet application from the main test screen



# Configure the Network Settings of the Test Port

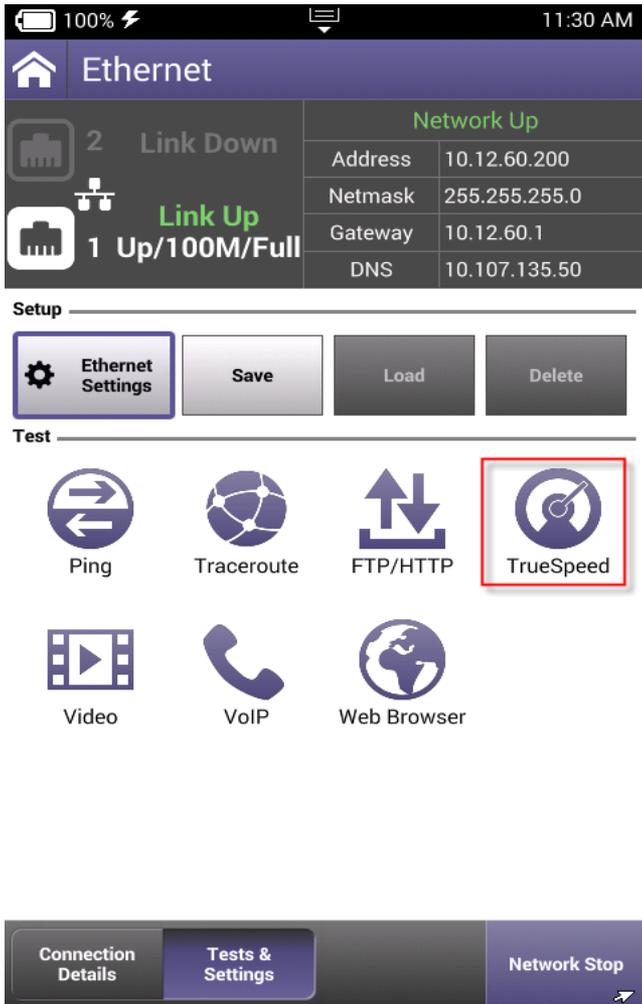
- Click on the **Ethernet Settings** button to configure the IP configuration of the test port
- Choose DHCP or Static IP; in this example DHCP is configured
- Also be mindful of VLAN settings, IPv4 vs. IPv6, etc.



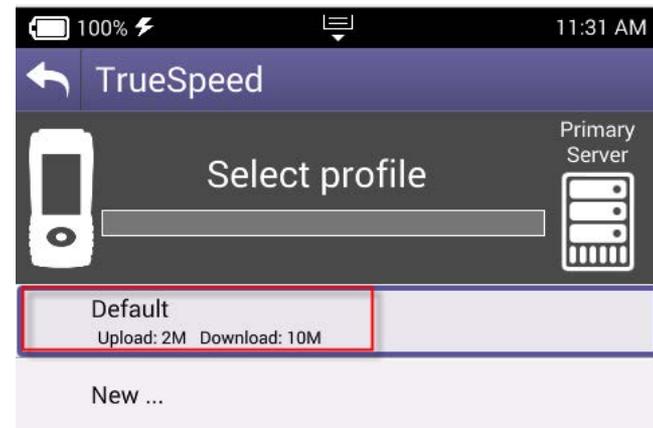
- When complete, click on the “**Back arrow**” to return to test menu

# Launch the TrueSpeed Test Application

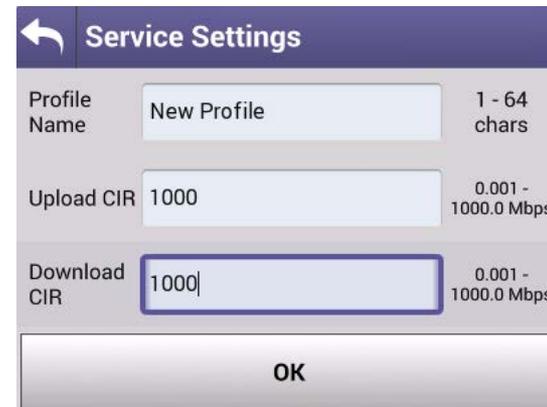
- If you have not already done so, click **Tests & Settings** to return to test menu
- Then click on the **TrueSpeed** icon



- Once TrueSpeed launches, either select the Default test profile (2Mbps / 10 Mbps upstream / downstream)

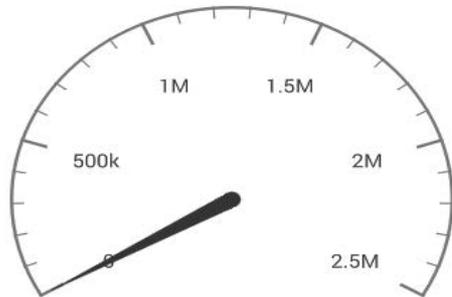
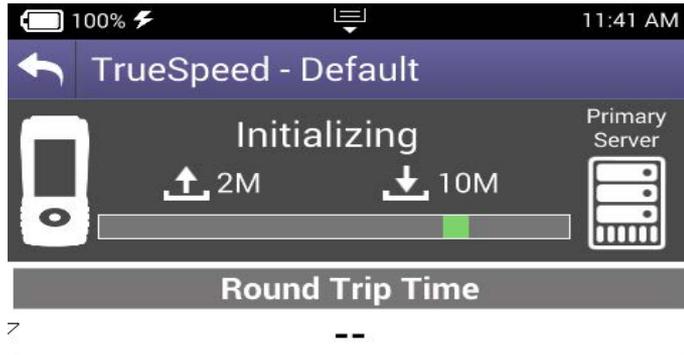


- Or click on New profile to create another (1000 / 1000 Mbps in this example)

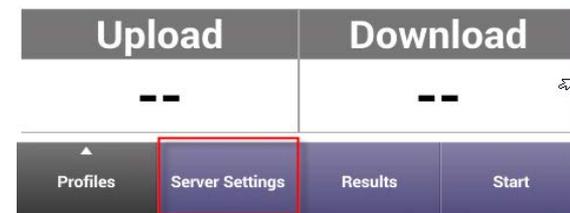
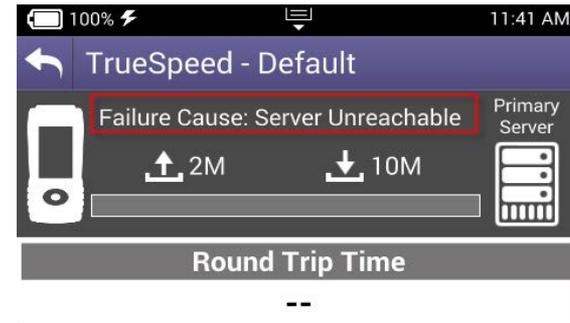


# First Time of Test Launch...

- After selecting the test profile, the TrueSpeed test will automatically run



- If the VNF server IP address or user credentials are incorrect, then this screen will appear
- Click on **Server Settings** and then go to the next page of the directions



# Configure VNF Server IP / User Credentials (if required)

- Enter the IP address of the VNF server
- If remote authentication is required, enter the Username and Password

- Click OK button

- Then the “back” arrow

TrueSpeed Servers

Primary Server

Destination Type  
IPv4 Address

Server Address  
10.0.0.10

Username  
vtsuser

Password  
\*\*\*\*\*

Fallback Server

Enable Fallback Server

TrueSpeed Servers

Primary Server

Destination Type

Server Address

54.165.197.217 0.0.0.0 - 255.255.255.255

OK

TrueSpeed Servers

Primary Server

Destination Type  
IPv4 Address

Server Address  
54.165.197.217

Username  
vtsuser

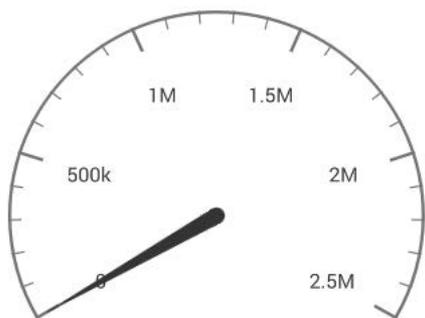
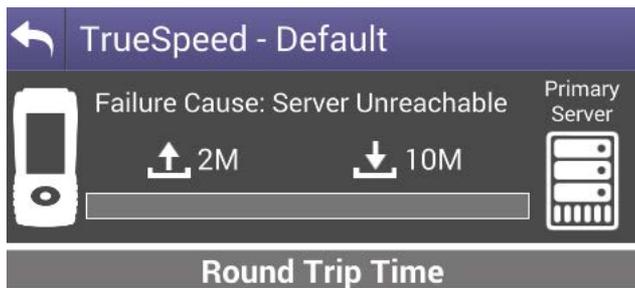
Password  
\*\*\*\*\*

Fallback Server

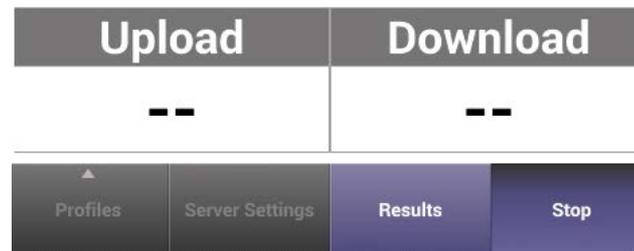
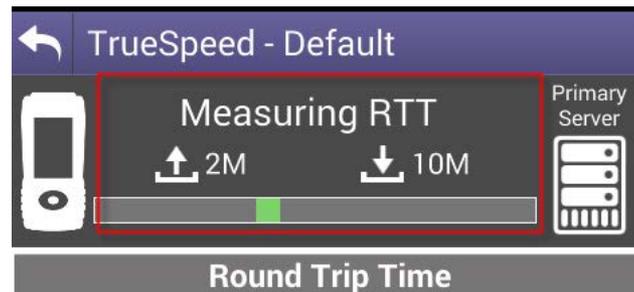
Enable Fallback Server

# Start the TrueSpeed Test

- Launch the TrueSpeed test by clicking on the **Start** button

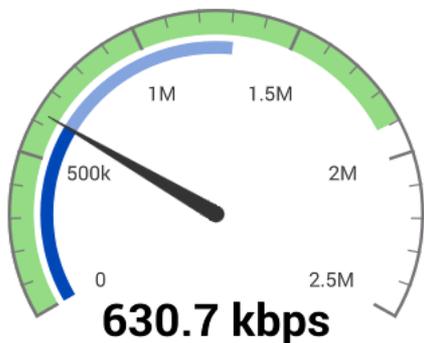
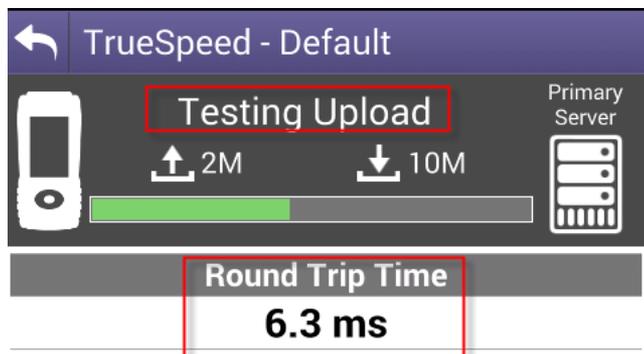


- If everything is configured correctly, the **Measuring MSS** and **RTT** screens (only **RTT** is shown)

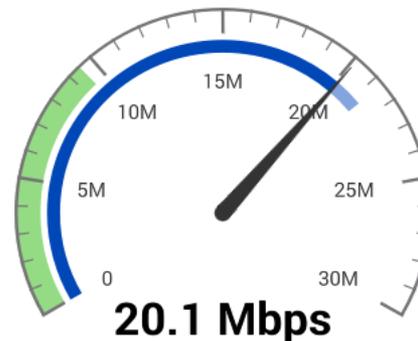
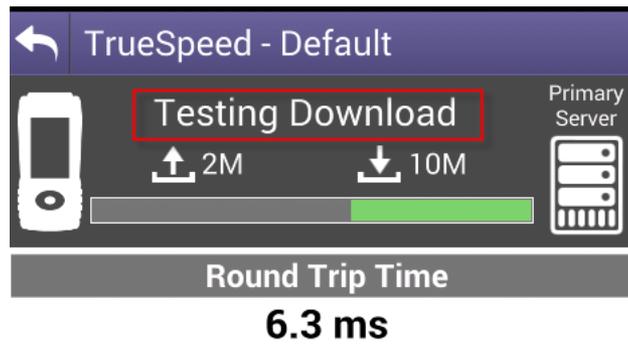


# Upload and Download Throughput Test Execution

- First the Upload test occurs
- Real-time throughput meter is displayed during the test
- Also note that the baseline RTT is shown (as measured in previous step)

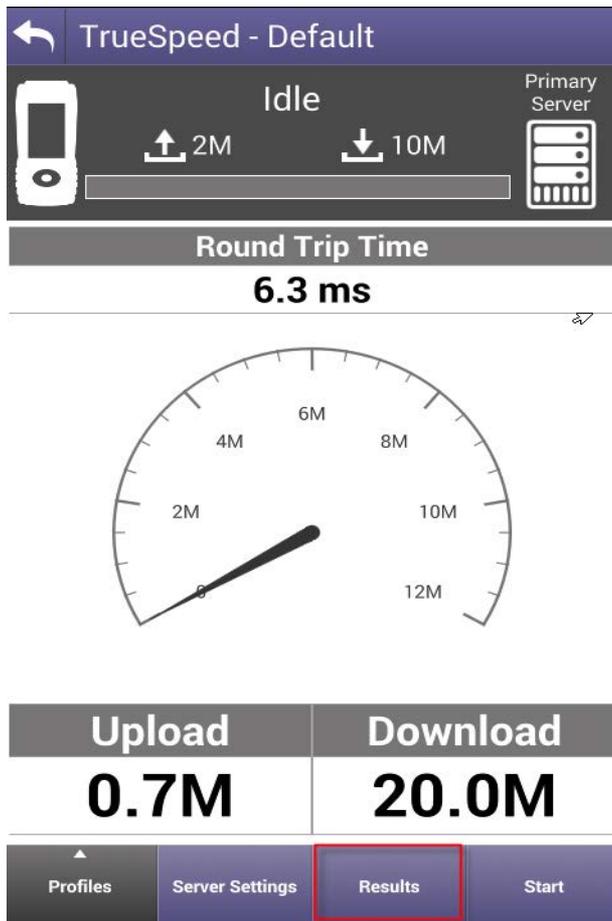


- The Upload speed achieved is displayed
- Then the Download test occurs
- Real-time throughput meter is also displayed during the test



# Download Test Completion and Detailed Test Results

- After the download test completes, both the Upload and Download speed are shown in the summary
- Click on **Results** to see details



- The Detailed Results show **TCP Efficiency** which is an indication of the impact of TCP retransmissions / packet loss (100% = no loss)
- Notice that the Server IP / TCP Port, baseline RTT, and TCP MSS (payload size) are also shown

TrueSpeed - Default

Idle

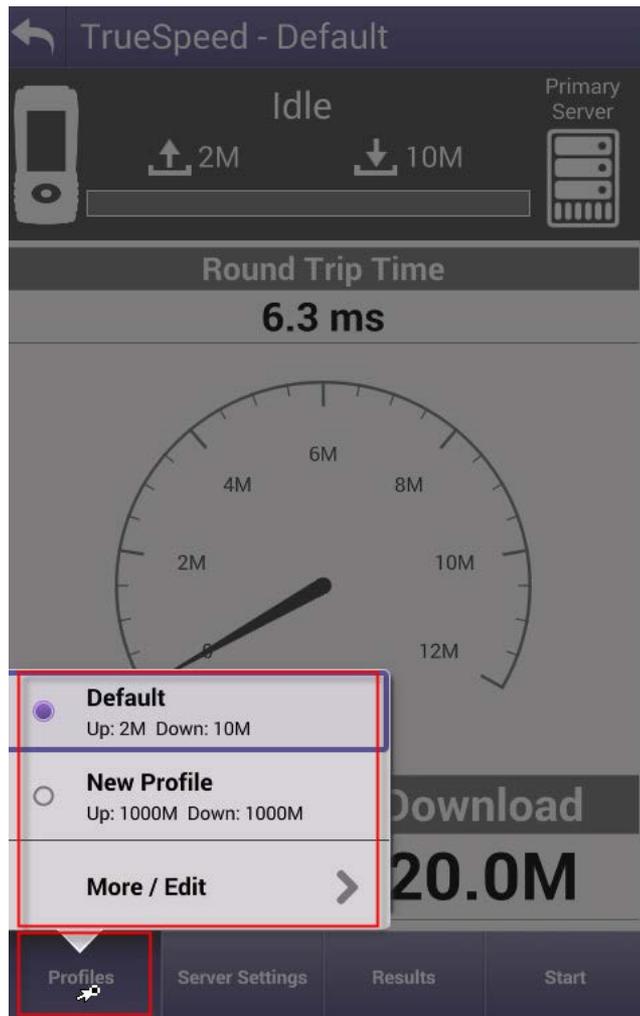
Primary Server

2M 10M

	Upload	Download
Actual Rate	<b>0.7M</b>	<b>20.0M</b>
Ideal Rate	1.9M	9.5M
TCP Efficiency	90.64 %	99.75 %
Server	54.165.197.217:8080	
RTT	6.3 ms	
MSS	1460	

# Run Another TrueSpeed Test

- After the test completes, another test can be executed by clicking on **Profiles**



- **Final Notes**

- All test results are stored as PDF files on the VNF server

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