Network Speed Troubleshooting

Network feeling slow? Does video playback stutter or buffer frequently? Downloads taking forever? Try these tips and suggestions for improving your network speed.

Wired (Ethernet) Connections

1. **First, go to speedtest.lehigh.edu and run the network speed tester.** This will give you a hard number with which to gauge the actual speed of your connection.
2. **If the speed test reports that your connection is 10Mb or below**, double check that your building is actually still limited to this speed. Call the Help Desk to determine what speed your building is wired for.
3. **Check the age of your ethernet cable.** Replacing older cables with Cat 5e or Cat 6 cable is highly recommended. Faculty and staff can talk to their computing consultant for a replacement. Students can buy new ethernet cables in the bookstore.
4. **Check your ethernet cable for signs of damage.** Cables that have been bent sharply, rolled over by office chairs, or had their plugs pulled on with excessive force, will not perform as well as cables that are in good repair.
5. **Check for other devices between your PC and the network jack.** Older network hubs or switches, lab instruments, or other network-attached devices could be a weak link in the chain. Faculty and staff should check with their computing consultant about getting the best speed for all their devices. Students should contact the STARS desk for advice on connecting all their devices without slowing down their PC’s connection.
6. **Is the slowness constant, or does it occur only at certain times of day?** If your connection only seems slow after dinner, it’s most likely because it’s just a busy time for network activity. Try to schedule high bandwidth activities for times when the network is more lightly used, like the mornings.
7. **Check your PC for viruses/spyware** or other activity that might be slowing network performance. If your PC is heavily bogged down with programs that are utilizing a lot of CPU time, your network speed will seem slow because the CPU is needed for handling all network traffic on your computer. Have your computing consultant or the STARS desk check your system for malicious software. A simple reboot can sometimes help as well.

Wireless (WiFi) Connections

1. **Begin by going to speedtest.lehigh.edu and running the speed tester.** This will give you a hard number which you can use to compare against other people, locations, and devices.
2. **Make sure you are on the wifi network named “lehigh”**. If you are connected to “lehigh-guest” your network speed will be drastically reduced.
   The guest network is provided as a courtesy only, and is not intended for daily use.
3. **Check your location.** WiFi is very sensitive to dense materials like stone, metal, and concrete. Try to have as clear a line of sight to the WiFi access point as you can.
4. **Try moving to a location with fewer people.** WiFi access points share their bandwidth among all connected devices. The more devices that are connected, the slower the network will feel on each one.
5. **If you have multiple devices, check the network speed on each.** This can help to isolate where the problem is. If your laptop is slow, but your phone plays Youtube at 1080p just fine, the WiFi isn’t the problem, something on your laptop is.