

Lab - My Local Network

Objectives

- Record all the different network attached devices in your home or classroom.
- Investigate how each device connects to the network to send and receive information.
- Create a diagram showing the topology of your network.
- Label each device with its function within the network.

Background / Scenario

The path that a message takes from its source to destination can be as simple as a single cable connection computer to another or as complex as a network that literally spans the globe. The network infrastructure contains three categories of hardware components:

- End devices
- Intermediary network devices
- Network media

Instructions

Take a close look at the network you have at home or school. Record the network and end-user devices that are connected on the local network.

Sample

Manufacturer	Device	Location	Connection	Media
Apple	iPhone	Mobile	Wireless	WiFi & cell phone
Samsung	Galaxy Smart Phone	Mobile	Wireless	WiFi & cell phone
Cisco	Cable Modem	Home office	Wired	Cable TV coaxial cable and Ethernet cable.
Linksys	Wireless Router	Home office	Wired	Ethernet cable.
HP	Printer/Scanner	Home office	Wireless	WiFi
Apple	MacBook Air	Mikayla's Room	Wireless	WiFi
Beats by Dre	Headphones	My Room	Wireless	Bluetooth
Microsoft	Xbox	My Room	Wired	Ethernet Cable

Your Local Network

Manufacturer	Device	Location	Connection	Media
Apple	iPhone	Mobile	internet	WiFi & cell phone
Dell	Laptop	Home	wireless	WiFi
Dell	Computer	School	wired	Ethernet cable

Manufacturer	Device	Location	Connection	Media
Apple	iPad	Home	wireless	WiFi
Dmyond	TV	Home	wireless	WiFi
Sony Interactive environment	PS5	Home	Wireless	WiFi
Apple	Macbook	Home	wireless	WiFi
Apple	Watch	Home	Wireless	WiFi

Continue the list on a separate page if necessary.

Reflection

1. Are there other electronic devices that are not connected to the local network to share information or resources? What would be the benefit of having these devices online?

Answer

Yes, there are other devices that are not connected such as

- Printer
- Scanner
- Camera

Benefits having the above devices connected to the local area network includes:

- It allows for smooth connection and interaction between the devices connected without any obstructions
- Printing is made easy, users can access the printer and send print commands directly from their phone without needing a physical connection.
- Camera display devices can also be viewed through a phone from different locations within a local network.

2. Which type of connectivity is used most frequently in your local network, wired or wireless?

Answer

Wireless

3. Draw a diagram of your local network. Label each device with a name and location.

4. Draw a diagram of your local network. Label each device with a name and location.

