ReGen: Mesh Network

What is a Mesh Network?

A mesh network is a group of devices that act as a single Wi-Fi network; so there are multiple sources of Wi-Fi around your office, instead of just a single router. These additional Wi-Fi sources are called points. Since mesh networks use multiple sources, they can provide better coverage over a wider space. If you have a large office, you can add more points for additional Wi-Fi coverage. All points are connected to each other wirelessly. As long as they are within range, they can communicate with one another wirelessly without the need for a router or switch. This allows for fast and efficient data routing. But if you do want to use wired connections, you can. Make sure that your points are wired into a switch and that the switch is wired to the LAN port of the router or primary point (the one connected to your modem). The wired points will recognize the wired connection and route traffic over Ethernet.

How is this different from a traditional Wi-Fi network?

In a traditional Wi-Fi network, your computer or laptop is connected to a single router, and all communication passes through that single router. The farther you are from the router, the weaker the signal. With mesh systems, you'll have multiple Wifi points in your office, so you're never far from one.

What are the benefits of a mesh network?

Some benefits of a mesh network are:

- **Flexible coverage:** Additional points can be added to get better coverage in hard-to-cover areas like hallways and near walls for outdoor coverage.
- **Self healing:** In a mesh network, if one point goes down, communication is simply rerouted through another point. Note: If your router or primary point goes offline (the one connected to your modem), so will your entire network.
- **Direct path:** Since all of the points are connected to each other, data can take several paths toward its destination and it'll always choose the best route from Point A to Point B.

About ReGen

ReGenerating Solutions (ReGen) has been providing technology solutions and services since 1983. ReGen is dedicated to offering quality technology solutions including Hardware and Network Design, Data Backup and Recovery, Dark Web Monitoring, Phishing Simulation Training, Phone systems as well as HelpDesk services.