



# Article Side

Mesh Networks: How They Work by [Fernando Severns](#)

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A mesh network is a local area network (LAN) where each node is connected to several others. These connections are configured and rerouted around broken paths with the signal hopping from one node to the next until it reaches its destination. Mesh networks are starting to emerge as a technology that would bring in seamless connection closer to reality.

Wireless mesh networks can easily and effectively connect one unit or user to the next using a reasonably priced and existing technology – the Internet. In a wireless mesh network, the connection is spread out among hundreds of wireless nodes that “communicate” with each other and spread across a larger setting. Conversely, traditional networks rely on a small number of wired access points to connect users.

Mesh nodes are small radio transmitters that function similarly as wireless routers. These nodes operate by using a WiFi standard known as 802.11a, b, and g that makes it possible to connect to other computer users. Moreover, nodes are equipped with a computer program that dictates how other networks can communicate with a larger network. Information then hops from point A to B to form one access point to the next. This is called dynamic rerouting.

Wireless mesh networks only need one node to be physically wired to an Internet modem. This physically wired connection is responsible for distributing wireless connection with other nodes. The more nodes present, the farther that the connection can reach. This connection then creates a “cloud” of connectivity where people in a small home, office, or city can connect wirelessly.

Consequently, these mesh networks can be very helpful in security systems. Some security companies like Honeywell use software applications to connect to the Internet and notify homeowners about their home’s situation. Homeowners who are away can receive real time notifications about people visiting their home. This type of information transmission highly relies on fast and stable Internet connection.

Mesh networks are also applicable to any device or security systems at home through a remote controlled device. For instance, a smoke alarm that is connected to the homeowner’s phone can send a message right away if the alarm is sensing smoke. Essentially, any device inside the house can be linked to the mesh networks so they can work as one system.

Having a meshed network for security systems is ideal for people who live alone or for families who travel frequently. Having mesh networks NY residents trust could ensure homeowners that they are updated through a reliable Internet connection. Also, they can visit [computer.howstuffworks.com](http://computer.howstuffworks.com) for more details on how mesh networks operate.

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