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In this tutorial, we will discuss different alternatives for linking routers in order to create wifi networks or just repeaters.

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## Alternatives

### Access Point / Switch

Extend the Wireless access area using more routers, with WIRED connections between routers, or turn a wired port on an existing network into a Wireless Access Point. All computers will be on the same network segment, and will be able to see one another in Windows Network.

- [Wireless Access Point](#) - Extend Wi-Fi & LAN (Requires physical ethernet connection between routers)
- [Switch](#) - Similar config as WAP, but radio disabled (accepts only wired connections)

### Repeater / Repeater Bridge

Extend the Wireless access area using a second router WIRELESSLY connected to the primary.

- [Repeater Bridge](#) - A wireless repeater with DHCP & NAT disabled, clients on same subnet as host AP (primary router). That is, all computers can see one another in Windows Network.
- [Repeater](#) - A wireless repeater with DHCP & NAT enabled, clients on different subnet from host AP (primary router). Computers connected to one router can not see computers connected to other routers in Windows Network.
- [Universal Wireless Repeater](#) - Uses a program/script called AutoAP to keep a connection to the nearest/best host AP.

## Client / Client Bridge

Connect two wired networks using a WiFi link (WIRELESS connection between two routers).

- Client Bridged - Join two wired networks by two Wireless routers building a bridge. All computers can see one another in Windows Network.
- Client Mode - Join two wired networks by two Wireless routers (unbridged). Computers on one wired network can not see computers on other wired network in Windows Network.

## WDS

Extend the Wireless access area using more routers connected WIRELESSLY. WDS is a mesh network.

- WDS Linked router network
- WDS Point To Point (P2P)

## OLSR

Extend the Wireless access area using more routers. Extra routers do not need any wired connections to each other. Use several ISP (Internet) connections. OLSR is a mesh network.

- Mesh Networking with OLSR
- [+ OLSR]

## Comparisons

- Repeating Mode Comparisons
- Bridging Mode Comparisons