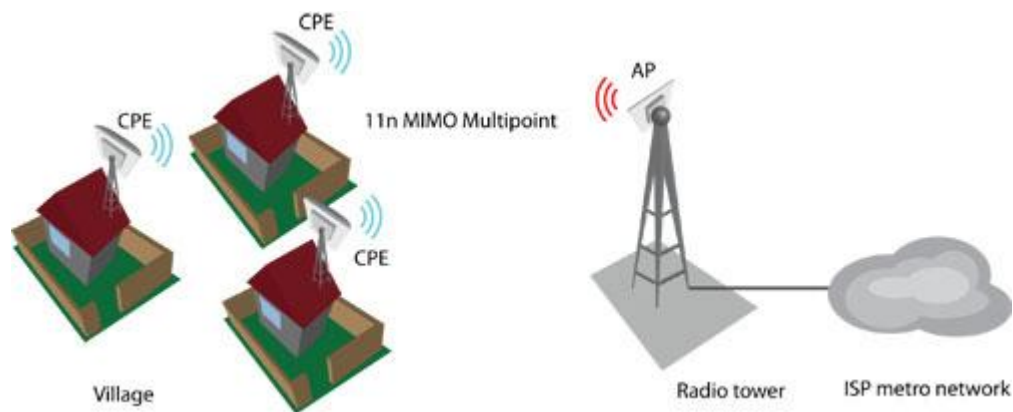


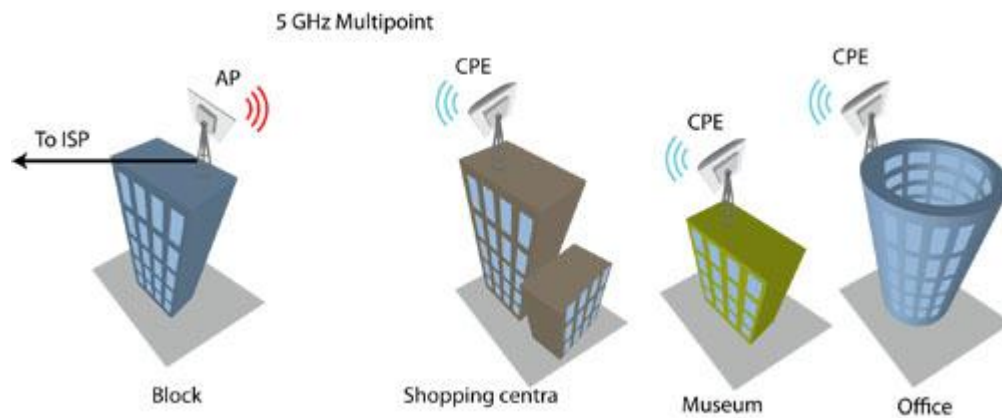
Point to multi point

2.4/5 GHz legacy point to multi point

This is the IEEE 802.11a/b/g multipoint. 2.4 or 5 GHz one radio AP with 60-90° sector antenna does line-of-sight coverage with radius about 3 km (might be more depending on locality) and provides 25 Mbps of real data throughput to CPE. Recommended CPE's quantity to one radio is up to 15. For urban areas are usually used 5 GHz (more free and non-overlapping channels) and for rural areas work well 2.4 GHz networks. This is typical scenario of WISP access network.



2.4/5 GHz 802.11N point to multi point



This is the IEEE 802.11n wireless multipoint which delivers several times higher throughput than 802.11a/g. Deliberant AP/CPE support 2x2 (2 transmit and 2 receive) MIMO technology. Such devices are equipped with dual polarization antennas which increase the reliability too. One MIMO radio provides up to 160 Mbps of real data throughput to recommended 20 CPEs. Multipoint's primary target is data transmission but can relay VoIP too. 2.4 GHz coverage (depending on antennas) can be about 4-5 km, 5 GHz about 3-4 km.

