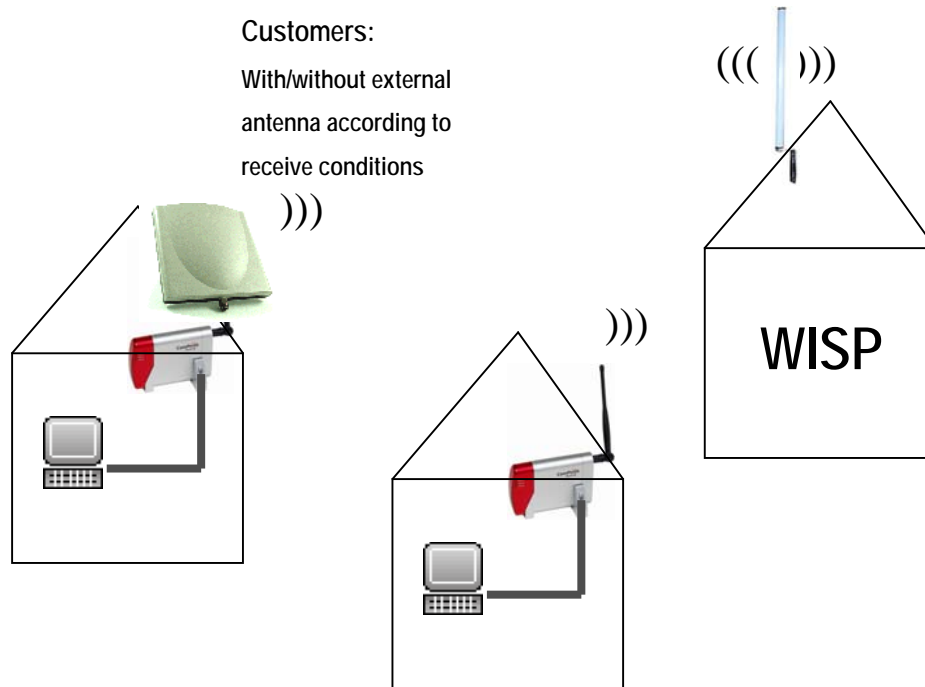


artem Solution—ComPoint Butterfly:
Connecting Customers to a Wireless ISP (WISP)



Due to its detachable 5 dBi antenna contained in the default scope of delivery, the artem Butterfly is well equipped to attain longer transmission ranges in comparison to the standard products with 2 dBi antennas or even fixed antennas. On the one hand, the Butterfly attains longer ranges due to the higher antenna gain with 3 dBi, on the other hand, this antenna can also be detached. Using an adapter, almost any 2 GHz or dual band antenna of the Funkwerk-EC product range can be connected. The above example shows two customers. One of them is located in the immediate surroundings of the WISP (about a hundred meters), the other one can be as far away as several hundred meters. The precise ranges are the result of the used antennas, cables, radio modules, and performance settings on the part of the WISP. The above figure shows a dual band patch antenna which is available in two different sizes as 8.5 dBi and 13.5 dBi variants. For both antennas Funkwerk-EC offers cables of different lengths. An additional over-voltage protection is available for the 13.5 dBi antenna, since it belongs to the outdoor antenna concept. For further information on antennas and cables, refer to the antenna guide and the Solution Sheets and White Papers on our homepage www.funkwerk-ec.com.