Mesh Networking Chat Program

The ZigBee protocol, often implemented through XBee modules, is a popular way of laptops which can power devices. However, most computers found in the They communicate via a Fi.

This project demonstrates how the two protocols can be communications. bridged, in the form of a chat The XBee/Wi-Fi bridge in this program implemented in Python. This chat program allows the user to select a nickname, which is then propagated through the XBee address, and allows other users to send messages another nickname, it locates

Raspberry Pi Laptop Laptop WiFi

directly to them.

The demonstrator consists of a Raspberry Pi and two communicating between low- communicate with each other via XBee modules or by Wi-Fi. home communicate using Wi- Raspberry Pi which both acts as the Wi-Fi router, and bridges the Wi-Fi and XBee

case works transparently to the XBee and Wi-Fi clients. When it receives a nickname propagation on one interface, it sends it out with its own IP network, along with their IP oron the other interface. When it receives a message for that nickname in its own records for the other interface, and passes the

message across. In this way, other clients don't even have to know that the bridge exists.