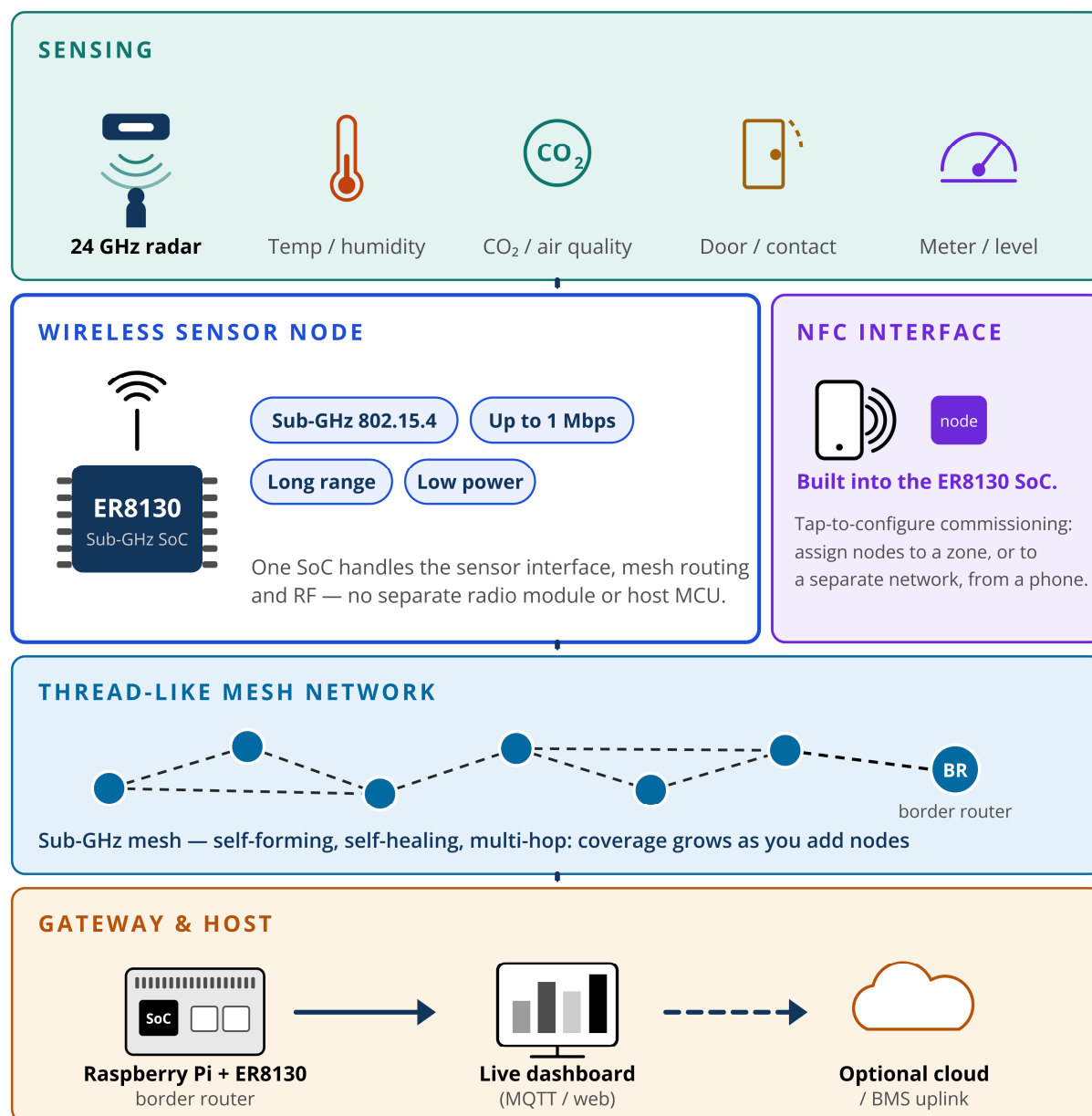


SenNet: Wireless sensor network solution

“SenNet” is an ESMT wireless connectivity solution for monitor and control widely deployed sensors in buildings or outdoors, remotely. It features long range, low power, high data rate, high scalability and easy installation.

The platform includes RF modules for transmitting and receiving sensor data, with ESMT Sub-GHz RF SOC, Thread-like mesh communication protocol and industry standard Raspberry Pi host for data management. The SOC also has an NFC wireless interface embedded for easy configuration with smart phone APPs.

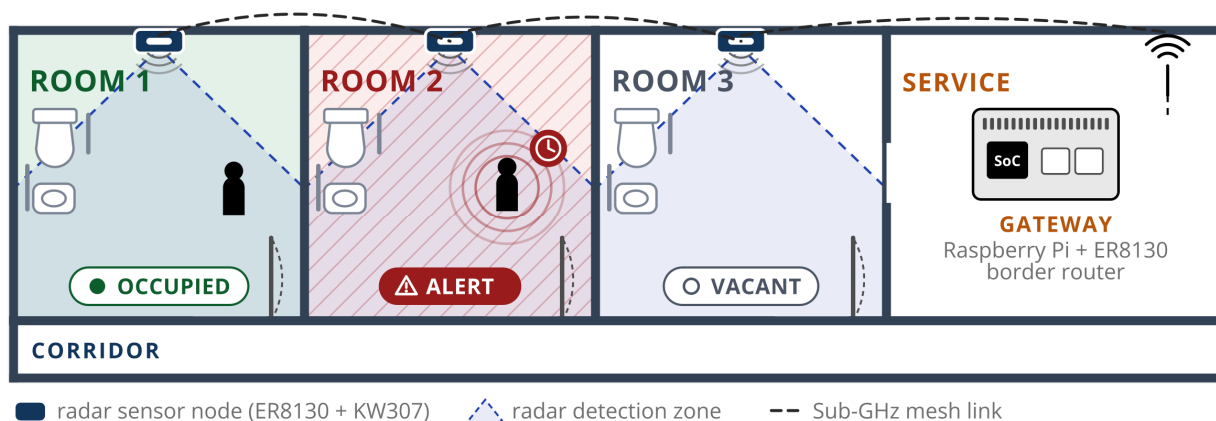
SOLUTION PLATFORM



Deployment example: room occupancy with 24 GHz radar sensors

One radar node covers one room. A detection zone can be arbitrarily set for each room, and only targets inside the zone change its status: the room reads Occupied once someone is present, and raises an Alert when it stays occupied longer than the configured limit. The radar returns range and angle only — no camera, no image. Each node reports over the same sub-GHz mesh to a single Raspberry Pi host, which compiles data show in the dashboards below.

SCENARIO DEPLOYMENT — THREE ROOMS, ONE RADAR NODE EACH, ONE GATEWAY



HOST DASHBOARD — LIVE OCCUPANCY STATUS PER ROOM

