

# Synap IoT Network for connecting Honeywell Smart Meter

*Our cutting edge technology provides electricity companies with the last-mile mesh connectivity to connect Honeywell smart meters everywhere. We employ best systems engineering practices to ensure that the network is highly scalable, extremely reliable and easy to install and maintain. The network also provides the high level of communication security and system availability needed for mission-critical operations.*

## Wireless Connectivity

One of the major obstacles to achieve the Smart City is the last-mile connectivity for devices that need only intermittent transmission of small amounts of data. While GSM and 3G cellular network theoretically can do the job today and cover most of the inhabited parts of the world, having a subscription for each IoT device may not be economically feasible. Devices such as power meters are often put in places such as stairwells or basements in large concrete buildings where wireless coverage extension is required. In rural areas of developing countries, smart metering is desirable, but cellular networks for IoT applications may not even exist.

## Plug & Play Deployment

The installation and maintenance of a complete network for large numbers of power meters usually requires a technical specialist with a lot of field work experience. Honeywell HS100 and HS3000 series smart energy meters can quickly and easily be networked as they can be equipped with a Synap Network IoT endpoint modem.

The SynapMesh network protocol provides reliable connectivity to far-off or hard to reach meters by enabling any meter closer to the gateway to act as a repeater. SynapMesh is also designed to make installation of smart meters simple and intuitive. No staging phase or configuration in the field is needed, and personnel with basic technical training can do the job well.

## Security and Reliability

The Synap network is protected by SynapShield which is a combination of a decentralised blockchain method and AES 256-bit encryption. This provides the necessary security for mission-critical operations.

The entire Advanced Metering Infrastructure is supported by the SynapCloud centralised provisioning system. All meter data are available through an API and as the network management is done entirely in SynapCloud there is minimal need for maintenance truck rolls.



Support different meter standards:

- DLMS
- IEC
- ANSI
- Others

Radio Platform Agnostics:

- Sub-GHz
- 915MHz
- 868MHz
- Others