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The Zigbee Alliance announces Zigbee PRO 2017-- the first mesh network capable of operating on two ISM frequency bands simultaneously, sub-GHz 800-900MHz for regional requirements and 2.4GHz for global acceptance.

Zigbee PRO is the underlying network technology with support for full-stack interoperable devices certified under Zigbee 3.0. Designed to connect smart devices, Zigbee PRO 2017 promises flexibility and design choice for manufacturers, consumers and municipalities wanting to connect products across homes, buildings and cities.

“PRO 2017 is the ideal wireless solution to cast large IoT networks across buildings, business parks, large facilities, cities and venues challenged by connectivity issues such as reinforced concrete and steel studs,” the alliance says. “The deployment potential is tremendous for smart homes, smart buildings and smart cities.”

The alliance adds the specification offers longer range, reduced power consumption and lower operating costs for low-data-rate applications ranging from home security and automation, smart metering and connected lighting. Vendors can leverage Zigbee PRO 2017 to build devices using a single network operating on multiple bands, with sub-GHz capabilities supporting IoT networks deployed in smart outdoor lighting, ambient condition monitoring and harsh environments.

Zigbee PRO 2017 finds use in some of the biggest engineering projects in Europe-- for instance, the British government has a mandate to roll out Zigbee-PRO-based smart meters to approximately 30 million homes by 2020.

Go The Zigbee Alliance Introduces First Multi-Band IoT Mesh Network Technology for Massive IoT Deployments