

The 6424 MeshScape® Wi-BACServ is a BACnet Server and Wireless Network Coordinator that Acts as a Bridge Between MeshScape Devices and BACnet Client.

### Features at a Glance

- Bidirectional communication between the wireless MeshScape devices and a BACnet solution.
- Wireless MeshScape network coordinator
- BACnet IP data link layer
- Read/Write MeshScape device via BACnet objects
- AI, AO, AV, BI, BO, BV objects
- COV (change of value) subscription support
- Supports up to 246 wireless devices
- Operates on a license-free 2.4 GHz ISM radio band with 15 user-selectable channels
- CE-, FCC-, and Industry Canada-compliant
- RoHS-compliant

### Multi-Function Command, Control, and Communication

The MeshScape Wi-BACServ is a multi-function device that performs wireless Meshscape network management tasks and provides bidirectional communication between wireless devices and a BACnet IP client:

- BACnet object values are periodically updated by MeshScape devices and can be scanned by a BACnet client or reported as a COV event if subscribed to by the BACnet client.
- When a write command is issued by the BACnet to the particular object, the gateway relays the information to the wireless mesh network.

Wi-BACServ consists of an integrated BACnet IP controller and a wireless MeshScape gateway MeshGate and serves as the focal point of a MeshScape wireless network. It transmits at a radio power of 60-mW, allowing for communication distances between 6424 MeshGate II and wireless devices to span at least 750 feet outside line of site, depending on the local conditions affecting radio transmission. The MeshScape Networking System is scalable to include hundreds of nodes and cover thousands of feet.

### Faster, Simpler Installation

The Millennial Net Wi-BACServ integrated site controller and MeshGate eases implementation onsite. It presents structured sensor data to its applications via BACnet IP protocol and functions as the single access point to all external applications, making networking simpler and facilitating system integration. This intelligent Wi-BacServ device enables sustained local operation to existing remote monitoring and control applications.

#### Try it for yourself

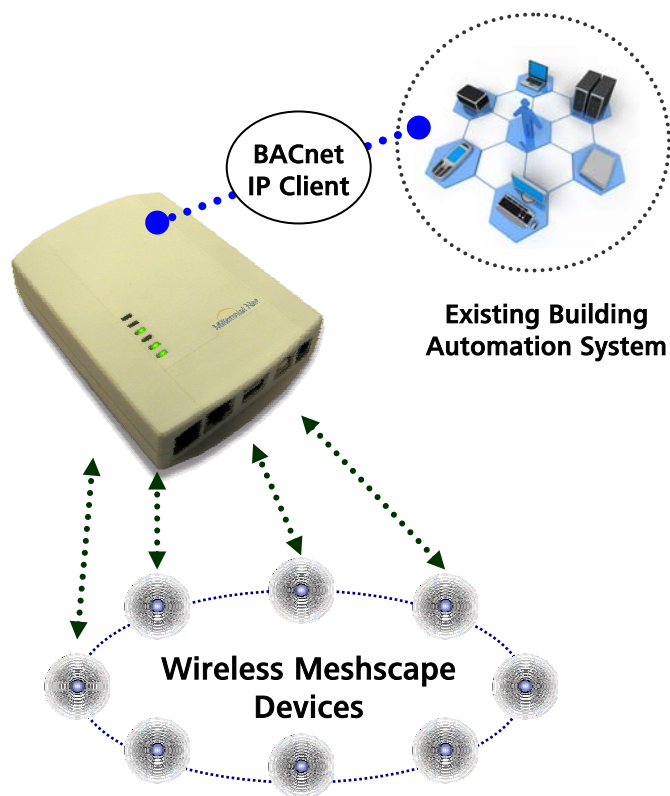
Setting up a wireless mesh network is fast and easy. The MeshScape self-forming and self-healing network is designed for rapid deployment and easy operation.

For more information, visit [www.millennialnet.com](http://www.millennialnet.com)

### MeshScape GO Networking

The industrially-proven MeshScape GO networking system is delivered on the MeshGate gateway and Mesh Node routers. MeshScape GO employs patented Persistent Dynamic Routing (PDR) techniques to form a self-configuring wireless mesh network. PDR uses a node-initiated network formation to enable efficient topology discovery and uses "best route" information to facilitate network re-formation (required in ever-changing RF environments). With MeshScape, you can deploy industrial-class wireless mesh networks that are:

- **Self-administrating:** a self-forming and self-healing mesh network requires no administration
- **Robust:** a network that ensures multi-route, reliable data transmission over extensive distances
- **Responsive:** a network that quickly adapts to changes in topology and radio frequency (RF)
- **Power-efficient:** very low power consumption
- **Scalable:** with the application, can scale to hundreds of wireless nodes with minimal overhead
- **Low latency:** very short network data delivery times



The MeshScape Wi-BACServ is an integrated, multi-function product that performs wireless mesh network management and provides bidirectional communication to BACnet client solutions