

Modbus to BACnet Gateway Feature

Product: Meters, Data Acquisition Servers

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Summary: A high-level overview of the Modbus to BACnet gateway capability within the Energy Monitoring Hub

Information: **ModBus to BACnet Gateway Mode**

Third generation EMH products (A7810, A8810, A8812) can communicate with Modbus RTU and TCP devices and convert them into BACnet IP instances on a LAN. Each Modbus datapoint mapped in the EMH becomes a BACnet object that can be automatically scanned for and picked up by a BACnet client (such as a Building Automation System).

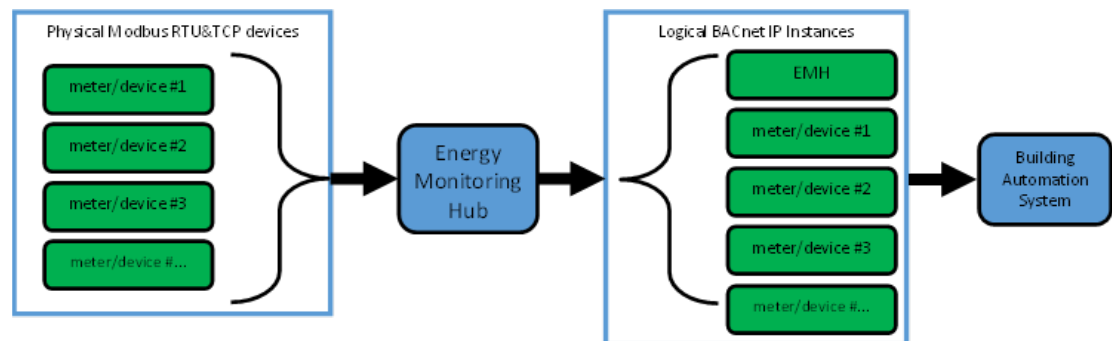


Figure 1: Visual representation of the end-to-end solution

The EMH can quickly be configured to read most brand-leading Modbus meters and devices. This is done using a vast library of device datapoint maps that are built into the product or from a template file that can be loaded into the EMH. Modbus devices that are not already mapped can be user programmed via the web interface.

Unlike many protocol converters, no manual programming is needed to translate Modbus data points to BACnet instances and objects. Simply enable the BACnet Gateway feature and all Modbus devices and associated data points in the EMH are presented on the LAN as BACnet instances and objects, respectively. This eliminates the need for a separate protocol conversion device and expert programming, thus saving both time and the need for technical expertise.

Compatibility

The following documents from Leviton are essential to review when determining whether the EMH BACnet gateway feature is compatible with the intended application. Please review these documents thoroughly and reach out to a Leviton M&V applications engineer to confirm that the feature is an appropriate fit.

- Technote 23 – Supported Devices
- BACnet users guide
- EMH web interface built-in manual

Contact: For more information, contact L&C Technical Support at (800) 959-6004.

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