

## BACnet Manager™ for BaseManager™

Baseline's BACnet Manager is a Linux-based application server which acts as a gateway between a Baseline BaseManager central control server and any BACnet/IP compatible Building Management System. With BACnet Manager, any BACnet compatible Building Management System can display important information like water-use data and system alerts from BaseStation 1000 and BaseStation 3200 irrigation controllers.

BACnet integration requires both BaseManager and BACnet Manager. BACnet Manager must be installed on the local BMS network; however, BaseManager can be a cloud service or self-hosted. All communication to and from the Building Management system is routed through BaseManager to the irrigation controller.

BACnet Manager interfaces with the BaseManager server by connecting to the BaseManager server as a special client. BACnet Manager uses the proprietary BaseManager protocols to present real-time information via the BACnet/IP standard. BaseStation irrigation controllers are presented as BACnet Devices. These Devices publish binary, analog, and multi-state Objects. BACnet Manager also displays real-time controller status, Device status, moisture sensor measurement, flow meter water being used, flow meter total water used, and much more.

For more information about how Baseline's BACnet Manager complies with the BACnet protocol, refer to the BACnet Manager for BaseManager PICS Document:

[http://www.baselinesystems.com/mediafiles/pdf/BL-BM2-BACNET\\_PICS.pdf](http://www.baselinesystems.com/mediafiles/pdf/BL-BM2-BACNET_PICS.pdf)

### System Compatibility

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BACnet Manager supports BACnet/IP across any TCP/IP compatible network as outlined in ANSI/ASHRAE Standard 135-2012 including Device and Device Object discovery and browse-able Device Objects. All Devices are identified with Baseline's BACnet Vendor ID (444).

BACnet Manager is designed to be 100% compatible with BACnet/IP enabled Building Management systems, including systems from Alerton, Automated Logic, Honeywell, Johnson Controls, Rockwell Automation, Schneider, Siemens, and many others.

### How to Specify

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**BL-BM2-BACNET-VM** – BACnet Manager virtual machine image

**BL-BM2-BACNET-COM** – BACnet Manager pre-installed on hardware. Compatible with BaseManager.

**BL-BM2-COMBO-VM** – BaseManager and BACnet Manager as a virtual machine image

**BL-BM2-COMBO-COM** – BaseManager and BACnet Manager pre-installed on hardware

## Primary BACnet Points Provided

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The BACnet Manager gateway establishes an individual Device for each irrigation controller that is connected to BaseManager.

For each controller (Device), BACnet Manager provides the following points:

- Controller
  - (multi-state input) controller status
- Program
  - (multi-state input) program status
- Zone
  - (binary input) whether the zone is running (no errors) or not
  - (multi-state input) the zone's current status
- Moisture Sensor
  - (analog input OR binary input) current moisture value (in %) or binary input (0) if there is no moisture reading
  - (analog input OR binary input) current temperature (in degrees F) or binary input (0) if there is no temperature reading
  - (multi-state input) moisture sensor status
- Temperature Sensor
  - (analog input OR binary input) current temperature (in degrees F) or binary input (0) if there is no temperature reading
  - (multi-state input) air temperature sensor status
- Pause Device (Event Switch)
  - (binary input) whether the pause device is closed (1) or open (0)
  - (multi-state input) pause device status
- Flow Meter
  - (analog input) flow rate
  - (analog input) flow odometer
  - (multi-state input) flow meter status
- Master Valve
  - (binary input) Master valve output
  - (multi-state input) Master valve status
- Alarms
  - (binary input) alarm output