

BOB™ Tech Brief

Supported Building Automation Systems

The Building Optimization Broker (BOB) supports two primary drivers for communication to BAS: BACNet and Niagara.

Many systems can be set to export data via BACNet, and BOB can support many of them. The power of IoT Hub is that it is designed to be flexible to evolve and grow to support other protocols in the future. As a general rule, because systems can come in many versions and have similar, but different implementations, it is best to expect some level of troubleshooting necessary to make every individual system work, especially if that system is proprietary and not marketed as an “open” system.



BAS Agnostic with BACNet IP

Below is a list of all systems with BACNet capability which have supported successful integrations to BOB. Please be aware, any proprietary protocols that are converted to BACNet may not meet standard BACNet practices and may be subject to additional troubleshooting to secure a connection and proper data transfer.



Niagara Support

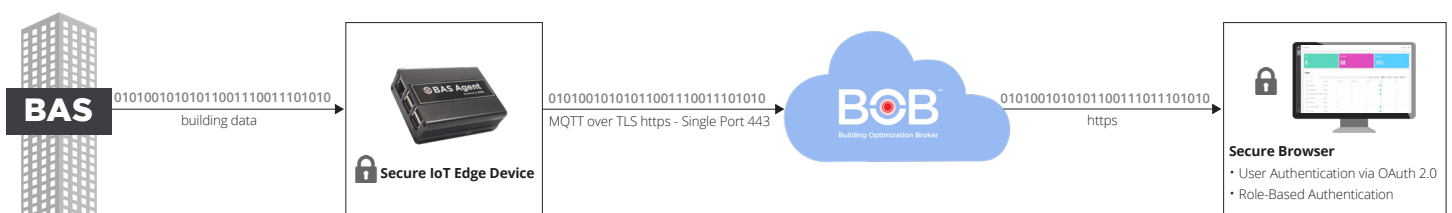
Supported Niagara Revisions: [niagara4](#) (all versions) [niagara ax](#) (3.8.401+)

Niagara systems are connected to via the oBIX driver. This driver requires https communication TLS1.2+. Please be aware, Tridium only supports certain versions of Niagara, and it will always be best to use the most recent, supported version. Even if BOB supports an older version, there is a chance that bugs or problems with obsolete versions may cause problems that will require Tridium support.

IP Network Requirements

BOB is compatible with Ethernet TCP/IP networks. (Via Secure IoT Edge Device) Port 443 is the only port required in all applications of BOB. Use optional ports as needed based on your network configuration: if local DNS server is provided in DHCP lease: DNS Server Access - Port 53, NTP Server Access - Port 123.

BOB Security Architecture



Mastering the Smart Building Ecosystem