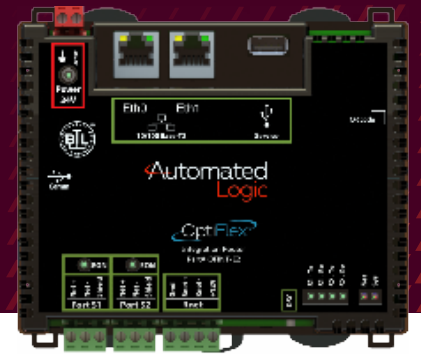


BACnet Integration

IN THE WEBCTRL® BUILDING AUTOMATION SYSTEM



BACnet

BACnet® is the standard protocol for building automation. The WebCTRL® building automation system supports native BACnet, enabling seamless communication with both Automated Logic® controllers and third-party BACnet devices. Integration with third-party BACnet devices requires OptiFlex™ Integrators or ALC controllers with a BACnet® protocol driver that integrates these devices into the WebCTRL system. Once integrated, users can centrally manage and control all native ALC and third party BACnet devices through a single, intuitive WebCTRL user interface.

How it Works

1. Hardware & Communication:

To integrate third-party devices, you must use an Automated Logic controller that supports them (like the OF1628) or an OptiFlex Integrator with flexible point packs (like the OFHI-A). Devices must be physically connected to the WebCTRL system via BACnet/IP, Ethernet, RS/TP, SC, or ARCNET networks. The protocol driver enables the system to read and write BACnet objects from these devices.

2. BACnet Objects Identification:

WebCTRL supports automated BACnet discovery to identify networks, devices, and objects. Alternatively, object information, including device instance, type, and address, can be manually provided directly from the device manufacturer.

3. Point Mapping:

Identified third-party points are mapped as WebCTRL Network I/O points. These behave like native WebCTRL points and can be used in control logic, displayed on dashboards, and monitored for trends or alarms exactly like native ALC BACnet points.

4. Unified WebCTRL Management:

All integrated points appear within the WebCTRL system hierarchy. This provides operators with a single, centralized view of both Automated Logic and third-party equipment for consistent monitoring and troubleshooting.

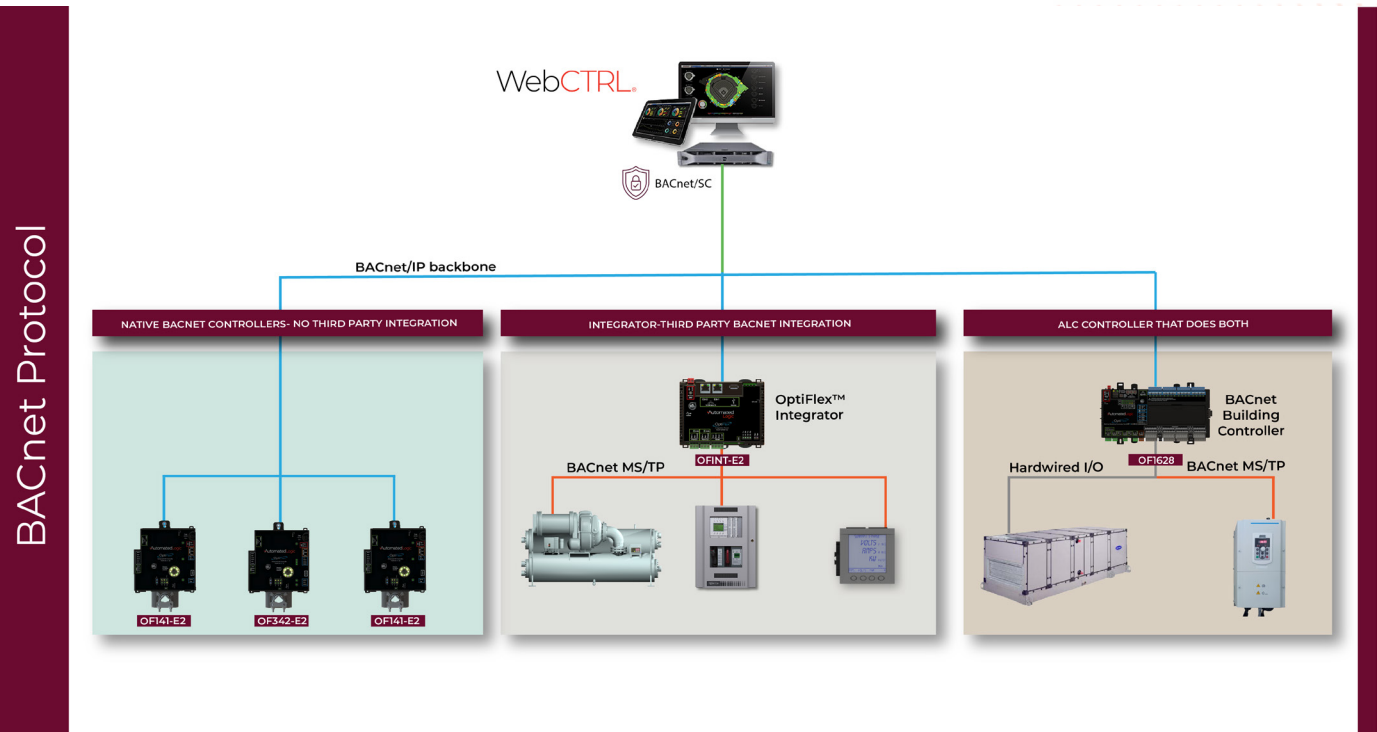
5. Licensing and point usage considerations:

Integration points are available on select Automated Logic controllers and OptiFlex Integrators. Points are consumed only when referencing third-party BACnet objects; native Automated Logic BACnet points do not count toward your total. Point capacity is defined either by fixed, model-specific limits (e.g., OF1628) or by licensed BACnet point packs (like on the OFHI-A) supported exclusively on OptiFlex Integrators. Point packs can be purchased in 100-point increments, limited to specific integrators and controllers.



Specifications

Requirements for Integrating Third Party BACnet Devices into the WebCTRL System	
Hardware Required	OptiFlex Integrators (OFHI-A, OFINT-E2, G5CE) and select OptiFlex™ controllers that support third party BACnet points (OF1628, OF1628-NR, OF028-NR, OFBBC, and OFBBC-NR)
Driver Required	drv_gen5_108-06-20206.driverx or later
Read/Write Capability	Can read and write to third party BACnet objects
Protocols Supported	BACnet/IP, BACnet MS/TP, BACnet/Ethernet, BACnet over ARCNET, and BACnet/SC
Points Supported	Point capacity is defined either by fixed, model-specific limits or by licensed BACnet point packs, depending on the controller type.



Understanding BACnet Point Counting

How are BACnet points counted?
Points are consumed only when referencing third-party BACnet objects within your control logic. BACnet display points do not consume available BACnet points, even when they are from third party BACnet devices. Retrieving data from other Automated Logic controllers does not consume BACnet points from your licensed total either.

Example Scenario:
If you have 10 third-party VFDs, each exposing 12 BACnet points, a total of 120 third-party integration points are required. On an OptiFlex Integrator, you would purchase the necessary point pack increments. When these devices are directly integrated to an OF1628 controller, which includes 1,500 third-party BACnet integration points natively, you would already have the capacity to integrate these devices without additional point packs.

OptiFlex Integrator Part #	Included Integration Points (Out of the box)	Scalable	Maximum Capacity (Integration Points)
OFINT-E2	100 integration points (any protocol)	Yes (via Point Packs)	5,000 total integration points
OFHI-A	1,500 BACnet points (plus 1,000 any-protocol points)	Yes (via Point Packs)	5,000 total integration points
G5CE	1,500 BACnet points (plus 25 any-protocol points)	Yes (via Point Packs)	3,025 total integration points
OF1628, OF1628-NR, OF028-NR, OFBBC, OFBBC-NR	1,500 BACnet points (plus 200 Modbus protocol points)	No	1,700 total integration points