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# BACnet Testing Laboratories Product Listing

BACnet functionality in each Listed product has been successfully tested at a Recognized BACnet Testing Organization utilizing the industry standard BTL test suite and test policies that were current at the time it was tested. For Listings with multiple products, some products may have less functionality than is indicated by the Listing document. The PICS document provides information on the specific functionality of each product. Note that PICS documents on the BTL Listings site are provided by the manufacturer and are not independently verified by BTL.

#### Listing Information (BTL-30919)

Vendor		Listing Status
Johnson Controls Inc. 507 E. Michigan St Milwaukee, WI 53202 USA		Listed Product
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of February 2021	Revision 18	March 2022

Product Name	Model Numbers	Firmware version
NAE85 Network Automation Engine (NAE)	MS-NXE85SW-0, MS-NXE85SW-6,	12.0.0.7666
LCS85 LonWorks® Control Server (LCS)	MS-LCS85SW-0, MS-LCS85SW-6	12.0.0.7666

#### **Device Profiles**

Profile	Model Numbers
BACnet Building Controller (B-BC) BACnet Secure Connect Hub (B-SCHUB)	All models

## **BIBBs Supported**

-	ReadProperty-A	DS-RP-A
	ReadProperty-B	DS-RP-B
	ReadPropertyMultiple-A	DS-RPM-A
	ReadPropertyMultiple-B	DS-RPM-B
	WriteProperty-A	DS-WP-A
	WriteProperty-B	DS-WP-B
Data Sharing	WritePropertyMultiple-A	DS-WPM-A
Data Sharing	WritePropertyMultiple-B	DS-WPM-B
	Change Of Value-A	DS-COV-A
	Change Of Value-B	DS-COV-B
	Change Of Value Property-A	DS-COVP-A
	Change Of Value Property-B	DS-COVP-B
	Change Of Value Unsubscribed-A	DS-COVU-A
	Change Of Value Unsubscribed-B	DS-COVU-B

	Notification-A	AE-N-A
	Notification Internal-B	AE-N-I-B
	Notification External-B	AE-N-E-B
	Acknowledge-A	AE-ACK-A
	Acknowledge-B	AE-ACK-B
Alarm and Event	Alarm Summary-A	AE-ASUM-A
Notification	Alarm Summary-B	AE-ASUM-B
	Enrollment Summary-B	AE-ESUM-B
	Information-A	AE-INFO-A
	Information-B	AE-INFO-B
	Alarm Summary View-A	AE-AS-A
	Configurable Recipient Lists-B	AE-CRL-B

	Internal-B	SCHED-I-B
Scheduling	External-B	SCHED-E-B
	Weekly Schedule-A	SCHED-WS-A

	Viewing and Modifying Trends Internal-B	T-VMT-I-B
Tranding	Viewing and Modifying Trends External-B	T-VMT-E-B
Trending	Automated Trend Retrieval-B	T-ATR-B
	Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B

	Dynamic Device Binding-A	DM-DDB-A
	Dynamic Device Binding-B	DM-DDB-B
	Dynamic Object Binding-A	DM-DOB-A
	Dynamic Object Binding-B	DM-DOB-B
	DeviceCommunicationControl-B	DM-DCC-B
	TimeSynchronization-A	DM-TS-A
	TimeSynchronization-B	DM-TS-B
	UTCTimeSynchronization-A	DM-UTC-A
	UTCTimeSynchronization-B	DM-UTC-B
	ReinitializeDevice-B	DM-RD-B
Dovice Management	Backup and Restore-B	DM-BR-B
Device Management	Restart-A	DM-R-A
	Restart-B	DM-R-B
	List Manipulation-A	DM-LM-A
	List Manipulation-B	DM-LM-B
	Object Creation and Deletion-B	DM-OCD-B
	Automatic Time Synchronization-A	DM-ATS-A
	Manual Time Synchronization-A	DM-MTS-A
	BBMD Configuration-B	NM-BBMDC-B
	Secure Connect Direct Connect - A	NM-SCDC-A
	Secure Connect Direct Connect - B	NM-SCDC-B
	Secure Connect Hub-B	NM-SCH-B

## **Object Type Support**

Accumulator	Analog Input	Analog Output
Analog Value	Averaging	Binary Input
Binary Output	Binary Value	Calendar
Characterstring Value	Command	Device
Event Enrollment	File	Group
Integer Value	Life Safety Point	Life Safety Zone
Load Control	Loop	Multi-State Input
Multi-State Output	Multi-State Value	Network Port
Notification Class	Positive Integer Value	Program
Pulse Converter	Schedule	Trend Log
Trend Log Multiple		

# **Data Link Layer Options**

Media	Options
	BBMD
BACnet/IP (Annex J)	Register as Foreign Device
	BACnet/IP, 'DIX' Ethernet
BACnet/SC	Hub

#### Character Set Support

ISO 10646 (UTF-8)		
ISO 10646 (UCS-2)		
IBM/Microsoft DBCS		