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## BACnet Testing Labs Product Listing

*This product has been tested at the BACnet Testing Labs and found to comply with all the necessary interoperability requirements in place on the published test date. This listing represents the tested capability of the Listed Product. For information on additional functionality that was not covered in the test process, refer to the Manufacturer's PICS statement on the BI website.*

### Listing Information

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 December 2011	Revision 8	November 2012

Product Name	Model Number	Software Version
Network Automation Engine (NAE)	MS-NAE35xx-xxx, MS-NAE45xx-xxx, MS-NAE55xx-xxx, MS-NAE85xx-xxx	6.0
Network Control Engine (NCE)	MS-NCE25xx-xxx	6.0

### Device Profiles

Profile	Model Numbers
BACnet Application Specific Controller (B-BC)	All Devices

## BIBBs Supported

Data Sharing	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
	WritePropertyMultiple-B	DS-WPM-B
	COV-A	DS-COV-A
COV-B	DS-COV-B	

Alarm and Event Notification	Notification Internal-B	AE-N-I-B
	ACK-B	AE-ACK-B
	Alarm Summary-B	AE-ASUM-B
	Enrollment Summary-B	AE-ESUM-B
	Information B	AE-INFO-B

Scheduling	Internal-B	SCHED-I-B
	External-B	SCHED-E-B

Trending	Viewing and Modifying Trends Internal-B	T-VMT-I-B
	Automated Trend Retrieval-B	T-ATR-B

Device and Network Management	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-B	DM-TS-B
	UTCTimeSynchronization-B	DM-UTC-B
	ReinitializeDevice-B	DM-RD-B
Backup and Restore-B	DM-BR-B	

## Object Type Support

Analog Input <sup>1</sup>	Analog Output <sup>1</sup>	Analog Value
Binary Input <sup>1</sup>	Binary Output <sup>1</sup>	Binary Value
Multi-State Input <sup>1</sup>	Multi-State Output <sup>1</sup>	Multi-State Value
Calendar	Device	Event Enrollment
File	Group	Notification Class
Schedule	Trend Log	

<sup>1</sup> Object Type is not supported in the MS-NAE85xx-xx models.

## Data Link Layer Options

Media	Options
BACnet/IP	BBMD
MS/TP master	9600, 19200, 38400, 76800

## Networking Options

Networking Functionality	Media
Router <sup>1</sup>	BACnet/IP (Annex J), MS/TP

## Character Set Support

ANSI X3.4 ISO 10646 (UCS-2)
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<sup>1</sup> Router functionality is not supported in the MS-NAE85xx-xx models.