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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-31234)

Vendor		Listing Status
Bosch Building Automation GmbH Kapellenweg 42 33415 Verl Germany		Listed Product
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of February 2024	Revision 25	June 2024

Product Name	Model Numbers	Firmware version
ems5 building controller	ems5.CP05E	ems5-BACnet 2.0

Device Profiles

Profile	Model Numbers
BACnet Building Controller (B-BC)	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
Data Sharing	WriteProperty-B	DS-WP-B
	WritePropertyMultiple-B	DS-WPM-B
	Change Of Value-A	DS-COV-A
	Change Of Value-B	DS-COV-B
	Change Of Value Property-B	DS-COVP-B
	Change Of Value Unsubscribed-A	DS-COVU-A

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

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

	Viewing and Modifying Trends Internal-B	T-VMT-I-B
	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
	Automated Multiple Value Retrieval-B	T-AMVR-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-B	DM-TS-B
	UTCTimeSynchronization-B	DM-UTC-B
	ReinitializeDevice-B	DM-RD-B
	Backup and Restore-B	DM-BR-B
Device Management	Restart-A	DM-R-A
	Restart-B	DM-R-B
	List Manipulation-B	DM-LM-B
	Object Creation and Deletion-B	DM-OCD-B
	Router Configuration-B	NM-RC-B
	BBMD Configuration-B	NM-BBMDC-B
	Secure Connect Hub-B	NM-SCH-B
	Secure Connect Direct Connect-A	NM-SCDC-A
	Secure Connect Direct Connect-B	NM-SCDC-B

Object Type Support

Accumulator	Analog Input	Analog Output
Analog Value	Binary Input	Binary Output
Binary Value	Calendar	Device
Event Enrollment	File	Loop
Multi-State Input	Multi-State Output	Multi-State Value
Network Port	Notification Class	Pulse Converter
Schedule	Structured View	Trend Log
Trend Log Multiple		

Data Link Layer Options

Media	Options
BACnet/IP (Annex J)	BBMD Register as Foreign Device BACnet/IP, 'DIX' Ethernet
MS/TP Master	9600, 19200, 38400
BACnet/SC	Hub

Character Set Support

ISO 10646 (UTF-8)