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## BACnet Testing Laboratories Product Listing

*This product has been tested at a qualified BACnet Testing Laboratory 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 Products. 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 (BTL-30121)

Vendor		Listing Status
INGA mbH Wehler Weg 14 31785 Hameln, Germany		Listed Product
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of November 2014	Revision 14 (135-2012)	April 2017

Product Name	Model Numbers	Software Version
iBMS	iBMS	10.2.24

### Device Profiles

Profile	Model Numbers
BACnet Advanced Operator Workstation (B-AWS)	All models

## 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-A	DS-WPM-A
	WritePropertyMultiple-B	DS-WPM-B
	COV-A	DS-COV-A
	COV-B	DS-COV-B
	COVP-A	DS-COVP-A
	COV-Unsubscribed-A	DS-COVU-A
	View - A	DS-V-A
	Advanced View - A	DS-AV-A
	Modify - A	DS-M-A
Advanced Modify - A	DS-AM-A	

Alarm and Event Notification	Notification-A	AE-N-A
	ACK-A	AE-ACK-A
	View Notifications - A	AE-VN-A
	Advanced View Notifications-A	AE-AVN-A
	View and Modify - A	AE-VM-A
	Advanced View and Modify - A	AE-AVM-A
	Alarm Summary View - A	AE-AS-A
	Event Log View - A	AE-ELV-A
	Event Log View and Modify - A	AE-ELVM-A

Scheduling	Advanced View and Modify-A	SCHED-AVM-A
	View and Modify-A	SCHED-VM-A

Trending	Automated Trend Retrieval-A	T-ATR-A
	Automated Multiple Value Retrieval-A	T-AMVR-A
	View-A	T-V-A
	Advanced View and Modify-A	T-AVM-A
	Archival-A	T-A-A

Device Management	Dynamic Device Binding-A	DM-DDB-A
	Dynamic Device Binding-B	DM-DDB-B
	Dynamic Object Binding-B	DM-DOB-B
	DeviceCommunicationControl-A	DM-DCC-A
	TimeSynchronization-A	DM-TS-A
	UTCTimeSynchronization-A	DM-UTC-A
	ReinitializeDevice-A	DM-RD-A
	Backup and Restore-A	DM-BR-A
	Restart-A	DM-R-A
	List Manipulation-A	DM-LM-A
	List Manipulation-B	DM-LM-B
	Object Creation and Deletion-A	DM-OCD-A
	Automatic Network Mapping-A	DM-ANM-A
	Automatic Device Mapping-A	DM-ADM-A
	Automatic Time Synchronization-A	DM-ATS-A
Manual Time Synchronization-A	DM-MTS-A	

## Object Type Support

Analog Input	Analog Output	Analog Value
Binary Input	Binary Output	Binary Value
Device	Multi-State Input	Multi-State Output
Multi-State Value		

## Data Link Layer Options

Media	Options
BACnet/IP (Annex J)	BBMD, Register as Foreign Device

## Networking Options

Networking Functionality	Media
BBMD	BACnet/IP (Annex J)

## Character Set Support

UTF-8 IBM/Microsoft DBCS JIS X 0208 ISO 8859-1 ISO 10646 (UCS-4) ISO 10646 (UCS2)
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