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## BACnet Testing Laboratories Product Listing

*This product has been tested at the BACnet Testing Laboratory WSPLab 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 B.I.G.-EU website under "Product Catalogue".*

### Listing Information

Test Laboratory		Listing Status
WSPLab Dr.-Ing. Harald Bitter Kapuzinerweg 7 D-70374 Stuttgart		
Vendor		Listed Product
GFR - Gesellschaft für Regelungstechnik und Energieeinsparung mbH Kapellenweg 42 33415 Verl Germany		
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of December 2007	Revision 4 (ISO 16484-5:2007)	March 2009

Product Name	Model Number	Firmware Revision
ems building controller	ems4.CP03B-BAC	132696E_05

Product Name	Link to PICS
ems building controller	see "Product Catalogue" on the B.I.G.-EU website

### Device Profiles

Profile	Model Numbers
BACnet Building Controller (B-BC)	ems4.CP03B-BAC

## BIBBs Tested

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-B	DS-COV-B

Alarm and Event Notification	Notification Internal-B	AE-N-I-B
	ACK-B	AE-ACK-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-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
	Connection Establishment-A	NM-CE-A

## Object Type Support

Analog Input	Analog Value	Binary Input
Binary Value	Calendar	Device
File	Multi-State Input	Multi-State Value
Notification Class	Schedule	Trend Log

## Data Link Layer Options

Media	Options
BACnet IP (Annex J)	

## Networking Options

Networking Functionality	Media
-	-

## Character Set Support

ANSI X3.4