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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-31048)**

Vendor		Listing Status
SungHan. Co., Ltd. & Laboratory 71, Daehak-ro 76beon-gil, Yuseong-gu, Daejeon Republic of Korea		Listed Product
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of May 2018	Revision 14 (135-2012)	January 2019

Product Name	Model Numbers	Firmware version
SmartBEN-BMI-BAC	SmartBEN-BMI-BAC-AWS, SmartBEN-BMI-BAC-OWS	4.4.94.12.3

#### **Device Profiles**

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

#### **BIBBs Supported**

	Dand D	DC DD 4
	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
	WritePropertyMultiple-B	DS-WPM-B
	Change Of Value-A	DS-COV-A
	View-A	DS-V-A
	Advanced View-A	DS-AV-A
	Modify-A	DS-M-A
	Advanced Modify-A	DS-AM-A
	Notification-A	AE-N-A
	Acknowledge-A	AE-ACK-A
	Information-A	AE-INFO-A
	View Notifications-A	AE-VN-A
Alarm and Event	Advanced View Notifications-A	AE-AVN-A
Notification	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
	Advanced View and Modify-A	SCHED-AVM-A
Scheduling	View and Modify-A	SCHED-VM-A
Scheduling	View and Modify-A Weekly Schedule-A	SCHED-VM-A SCHED-WS-A
Scheduling	View and Modify-A	
Scheduling	View and Modify-A Weekly Schedule-A	
Scheduling	View and Modify-A Weekly Schedule-A Automated Trend Retrieval-A	SCHED-WS-A
	View and Modify-A Weekly Schedule-A	SCHED-WS-A T-ATR-A
Scheduling  Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A	T-ATR-A T-AMVR-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A	T-ATR-A T-AMVR-A T-V-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A
	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A DM-BR-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A List Manipulation-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A DM-BR-A DM-BR-A DM-LM-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A List Manipulation-A Object Creation and Deletion-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-BR-A DM-BR-A DM-LM-A DM-OCD-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A List Manipulation-A Object Creation and Deletion-A Automatic Network Mapping-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A DM-BR-A DM-BR-A DM-LM-A DM-OCD-A DM-ANM-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A List Manipulation-A Object Creation and Deletion-A Automatic Network Mapping-A Automatic Device Mapping-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A DM-BR-A DM-BR-A DM-CD-A DM-CD-A DM-ADM-A
Trending	View and Modify-A Weekly Schedule-A  Automated Trend Retrieval-A Automated Multiple Value Retrieval-A View-A Advanced View and Modify-A Archival-A  Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B DeviceCommunicationControl-A TimeSynchronization-A UTCTimeSynchronization-A ReinitializeDevice-A Backup and Restore-A List Manipulation-A Object Creation and Deletion-A Automatic Network Mapping-A	T-ATR-A T-AMVR-A T-V-A T-AVM-A T-A-A  DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-A DM-TS-A DM-UTC-A DM-RD-A DM-BR-A DM-BR-A DM-LM-A DM-OCD-A DM-ANM-A

## **Object Type Support**

Device	

## **Data Link Layer Options**

Media	Options
	BBMD
BACnet/IP (Annex J)	Register as Foreign Device
, ,	BACnet/IP, 'DIX' Ethernet
Ethernet	ISO 8802-3, 10BASET

## **Character Set Support**

ISO 10646 (UTF-8)		
IBM/Microsoft DBCS		
JIS X 0208		
ISO 8859-1		
ISO 10646 (UCS-4)		
ISO 10646 (UCS-2)		