

BACnet Protocol Implementation Conformance Statement

Date: 2017.08.10
 Vendor Name: Samsung Electronics Co., Ltd.
 Product Name: DMS BACnet Gateway
 Product Model Number: A(M)IM-B17*
 Application Software Version: 1.20 Firmware Revision: 1.35 BACnet Protocol Revision: 12

Product Description:

This product supports BACnet/IP and provide functions to monitor and control status of air conditioners.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Display (B-OD)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

List all BACnet Interoperability Building Blocks Supported (Annex K):

	Supported BIBBs	BIBB Name	Supported	Remarks
Data Sharing	DS-RP-A	Data Sharing-ReadProperty-A	<input type="checkbox"/>	
	DS-RP-B	Data Sharing-ReadProperty-B	<input checked="" type="checkbox"/>	
	DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	<input type="checkbox"/>	
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	<input checked="" type="checkbox"/>	
	DS-RPC-A	Data Sharing-ReadPropertyConditional-A	<input type="checkbox"/>	
	DS-RPC-B	Data Sharing-ReadPropertyConditional-B	<input type="checkbox"/>	
	DS-WP-A	Data Sharing-WriteProperty-A	<input type="checkbox"/>	
	DS-WP-B	Data Sharing-WriteProperty-B	<input checked="" type="checkbox"/>	
	DS-WPM-A	Data Sharing-WritePropertyMultiple-A	<input type="checkbox"/>	
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B	<input checked="" type="checkbox"/>	
	DS-COV-A	DataSharing-COV-A	<input type="checkbox"/>	
	DS-COV-B	DataSharing-COV-B	<input checked="" type="checkbox"/>	
	DS-COVP-A	DataSharing-COVP-A	<input type="checkbox"/>	
	DS-COVP-B	DataSharing-COVP-B	<input type="checkbox"/>	
	DS-COVU-A	DataSharing-COV-Unsolicited-A	<input type="checkbox"/>	
DS-COVU-B	DataSharing-COV-Unsolicited-B	<input type="checkbox"/>		
Alarm and Event Management	AE-N-A	Alarm&Event-Notification-A	<input type="checkbox"/>	
	AE-N-I-B	Alarm&Event-Notification Internal-B	<input type="checkbox"/>	
	AE-N-E-B	Alarm&Event-Notification External-B	<input type="checkbox"/>	
	AE-ACK-A	Alarm&Event-ACK-A	<input type="checkbox"/>	
	AE-ACK-B	Alarm&Event-ACK-B	<input type="checkbox"/>	
	AE-ASUM-A	Alarm&Event-Summary-A	<input type="checkbox"/>	
	AE-ASUM-B	Alarm&Event-Summary-B	<input type="checkbox"/>	

	AE-ESUM-A	Alarm&Event-Enrollment Summary-A	<input type="checkbox"/>	
	AE-ESUM-B	Alarm&Event-Enrollment Summary-B	<input type="checkbox"/>	
	AE-INFO-A	Alarm&Event-Information-A	<input type="checkbox"/>	
	AE-INFO-B	Alarm&Event-Information-B	<input type="checkbox"/>	
	AE-LS-A	Alarm&Event-LifeSafety-A	<input type="checkbox"/>	
	AE-LS-B	Alarm&Event-LifeSafety-B	<input type="checkbox"/>	
Scheduling	SCHEM-A	Scheduling-A	<input type="checkbox"/>	
	SCHEM-I-B	Scheduling-Internal-B	<input type="checkbox"/>	
	SCHEM-E-B	Scheduling-External-B	<input type="checkbox"/>	
Trending	T-VMT-A	Viewing and Modifying Trends-A	<input type="checkbox"/>	
	T-VMT-I-B	Viewing and Modifying Trends Internal-B	<input type="checkbox"/>	
	T-VMT-E-B	Viewing and Modifying Trends External-B	<input type="checkbox"/>	
	T-ATR-A	Automated Trend Retrieval-A	<input type="checkbox"/>	
	T-ATR-B	Automated Trend Retrieval-B	<input type="checkbox"/>	
	T-VMMV-A	Viewing and Modifying Multiple Values-A	<input type="checkbox"/>	
	T-VMMV-I-B	View and Modifying Multiple Values Internal-B	<input type="checkbox"/>	
	T-VMMV-E-B	View and Modifying Multiple Values External-B	<input type="checkbox"/>	
	T-AMVR-A	Automated Multiple Value Retrieval-A	<input type="checkbox"/>	
T-AMVR-B	Automated Multiple Value Retrieval-B	<input type="checkbox"/>		
Device and Network Management	DM-DDB-A	Dynamic Device Binding-A	<input type="checkbox"/>	
	DM-DDB-B	Dynamic Device Binding-B	<input checked="" type="checkbox"/>	
	DM-DOB-A	Dynamic Object Binding-A	<input type="checkbox"/>	
	DM-DOB-B	Dynamic Object Binding-B	<input checked="" type="checkbox"/>	
	DM-DCC-A	DeviceCommunicationControl-A	<input type="checkbox"/>	
	DM-DCC-B	DeviceCommunicationControl-B	<input checked="" type="checkbox"/>	
	DM-TM-A	Text Message-A	<input type="checkbox"/>	
	DM-TM-B	Text Message-B	<input type="checkbox"/>	
	DM-TS-A	Time Synchronization-A	<input type="checkbox"/>	
	DM-TS-B	Time Synchronization-B	<input checked="" type="checkbox"/>	
	DM-UTC-A	UTCTime Synchronization-A	<input type="checkbox"/>	
	DM-UTC-B	UTCTime Synchronization-B	<input checked="" type="checkbox"/>	
	DM-RD-A	ReinitializeDevice-A	<input type="checkbox"/>	
	DM-RD-B	ReinitializeDevice-B	<input checked="" type="checkbox"/>	
	DM-BR-A	Backup&Restore-A	<input type="checkbox"/>	
	DM-BR-B	Backup&Restore-B	<input type="checkbox"/>	
	DM-R-A	Restart-A	<input type="checkbox"/>	
	DM-R-B	Restart-B	<input type="checkbox"/>	
	DM-LM-A	List Manipulation-A	<input type="checkbox"/>	
	DM-LM-B	List Manipulation-B	<input checked="" type="checkbox"/>	
	DM-OCD-A	Object Creation & Deletion-A	<input type="checkbox"/>	
	DM-OCD-B	Object Creation & Deletion-B	<input type="checkbox"/>	
	DM-VT-A	Virtual Terminal-A	<input type="checkbox"/>	
	DM-VT-B	Virtual Terminal-B	<input type="checkbox"/>	
NM-CE-A	Connection Establishment-A	<input type="checkbox"/>		
NM-CE-B	Connection Establishment-B	<input type="checkbox"/>		

	NM-RC-A	Router Configuration-A	<input type="checkbox"/>	
	NM-RC-B	Router Configuration-B	<input checked="" type="checkbox"/>	

Segmentation Capability:

- Able to transmit segmented messages Window Size _____
- Able to receive segmented messages Window Size _____

Standard Object Types Supported:

Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Writable Properties
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Present Value
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Present Value
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Present Value
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Multi-state Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Multi-state Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Multi-state Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Present Value
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recipient List
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): _____
- MS/TP slave (Clause 9), baud rate(s): _____
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
- Point-To-Point, modem, (Clause 10), baud rate(s): _____
- LonTalk, (Clause 11), medium: _____
- BACnet/ZigBee (ANNEX O)
- Other: _____

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) Yes No

Networking Options:

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
 - Does the BBMD support network address translation? Yes No

Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys:
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

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

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

This gateway switches SAMSUNG air conditioner protocol to BACnet protocol to make RS-485 communication possible with the air conditioners connected to gateway.