



BACnet Protocol Implementation Conformance Statement

Date: 6 April 2020

Vendor Name: Optergy

Product Name: P864

Product Model Number: P864

Application Software Version: 2.0.0

Firmware Revision: BACnet 2.0.0

BACnet Protocol Revision: 19

Product Description:

The P864 is an application specific controller capable of controlling inputs and outputs, hosting trends, schedules and alarms, as well as being able to be programmed.

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):

DS-RP-B	AE-N-I-B	SCHED-I-B	T-VMT-I-B	DM-DDB-A,B
DS-WP-B	AE-ACK-B			DM-DOB-B
DS-RPM-B	AE-INFO-B			DM-TS-B
DS-WPM-B	AE-CRL-B			DM-UTC-B
				DM-DCC-B
				DM-RD-B

Segmentation Capability:

- Able to transmit segmented messages Window Size 64
- Able to receive segmented messages Window Size 64



Standard Object Types Supported:

Analog Input

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Object_Name Out-Of-Service Present-Value Description
Proprietary Properties:	N/A

Analog Output

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Object_Name Relinquish_Default Out-Of-Service Present-Value Description
Proprietary Properties:	N/A

Analog Value

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description Priority_Array Relinquish_Default
Writeable Properties:	Present_Value Description Priority_Array Object_Name Relinquish_Default Out_Of_Service
Proprietary Properties:	N/A
Property Range Restrictions:	N/A

Binary Input

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Object_name Out_Of_Service Present_Value Description
Proprietary Properties:	N/A

Binary Output

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Description Relinquish_Default Object_name Out_Of_Service Present_Value



Proprietary Properties: N/A

Binary Value

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description Priority_Array Relinquish_default
Writeable Properties	Description Relinquish_default Out_Of_Service Present_Value Object_Name
Proprietary Properties	N/A
Property Range Restrictions	N/A

Calendar

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description
Writeable Properties	Description Object_Name Date_List
Proprietary Properties	N/A
Property Range Restrictions	N/A

Device

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Last_Restart_Reason Description UTC_Offset Local_Time Local_Date Daylight_Saving_Status APDU_Segment_Timeout Max_Master Max_Info_Frames Max_Segments_Accepted
Writeable Properties	Location Description Max_Master Max_Info_Frames Object_Name UTC_Offset Location
Proprietary Properties	N/A
Property Range Restrictions	N/A

Event Enrollment

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description
Writeable Properties	Event_Parameters Object_Property_Reference Description Object_Name

	Event_Enable
	Notification_Class
	Notify_Type
	Event_Detection_Enable
	Reliability
Proprietary Properties	N/A
Property Range Restrictions	N/A

Notification Class

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description
Writeable Properties	Ack_Required
	Priority
	Recipient_List
	Object_Name
	Description
Proprietary Properties	N/A
Property Range Restrictions	N/A

Schedule

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description
	Weekly_Schedule
	Exception_Schedule
Writeable Properties	Description
	Effective_Period
	Weekly_Schedule
	Exception_Schedule
	Schedule_Default
	Present_Value
	List_Of_Object_Property_References
	Priority_For_Writing
	Object_Name
	Out_Of_Service
Proprietary Properties	N/A
Property Range Restrictions	N/A

Trendlog

Dynamically Creatable:	No
Dynamically Deletable	No
Optional Properties Supported	Description
	Align_Intervals
	Interval_Offset
	Start_Time
	Stop_Time
	Log_Device_Object_Property
	Log_Interval
	Notification_Threshold
	Records_Since_Notification
	Last_Notify_Record
	Notification_Class

Writeable Properties	Event_Time_Stamps Event_Detection_Enable Start time Stop time Enable Log device object property Log interval Buffer_Size Record_Count Object_Name Description Notification threshold Notification class Stop when full
Proprietary Properties	N/A
Property Range Restrictions	N/A

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): 9600,19200,38400,57600,76800,115200
- 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.
- BACnet-IP (Annex J) – BACnet MS/TP
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)

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.

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input checked="" type="checkbox"/> IBM [®] /Microsoft [®] DBCS | <input checked="" type="checkbox"/> ISO 8859-1 |
| <input checked="" type="checkbox"/> ISO 10646 (UCS-2) | <input checked="" type="checkbox"/> ISO 10646 (UCS-4) | <input type="radio"/> JIS X 0208 |

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

Specifications subject to change without notice