



Wireless Pneumatic Thermostat BACnet Gateway PICS

Document No. 910-00008-01 rev 01

November - 2008

Date: __November 2008__

Vendor Name: Cypress Envirosystems

Product Name: WPT BACnet Gateway

Product Model Number: WPT-800-SBAC

Application Software Version: 1.0 **Firmware Revision:** 1.0 **BACnet Protocol Revision:** 135-2004

Product Description:

The Cypress Envirosystems Wireless Pneumatic Thermostat BACnet Gateway

BACnet Standardized Device Profile (Annex L):

- ☐ BACnet Operator Workstation (B-OWS)
- ☐ 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)

BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing	Data Sharing-ReadProperty-B	DS-RP-B
	Data Sharing-ReadPropertyMultiple-B	DS-RPM-B
	Data Sharing-WriteProperty-B	DS-WP-B
	Data Sharing-WritePropertyMultiple-B	DS-WPM-B
	Data Sharing-COV-B	DS-COV-B
Alarm and Event	Alarm and Event-Notification Internal-B	AE-N-I-B
	Alarm and Event-Notification External-B	AE-N-E-B
	Alarm and Event-ACK-B	AE-ACK-B
	Alarm and Event Information-B	AE-INFO-B
	Alarm and Event-Alarm Summary-B	AE-ASUM-B
	Alarm and Event-Enrollment Summary-B	AE-ESUM-B
Scheduling	Scheduling Internal –B	SCHED-I-B
Device Management	Device Management-ReinitializeDevice-B	DM-RD-B
	Device Management-Dynamic Device Binding-B	DM-DDB-B
	Device Management-Dynamic Object Binding-B	DM-DOB-B
	Device Management-Device Communication Control-B	DM-DCC-B
	Device Management-Time Synchronization-B	DM-TS-B
	Device Management-UTC Time Synchronization-B	DM-UTC-B

Segmentation Capability:

☒ Segmented requests supported Window Size 1
☒ Segmented responses supported Window Size 1

Standard Object Types Supported:

Object Type	Supported	Dynamically creatable	Dynamically deletable
Analog Input	Yes	No	No
Analog Output	Yes	No	No
Analog Value	No	No	No
Binary Input	Yes	No	No
Binary Output	No	No	No
Binary Value	No	No	No
Calendar	Yes	Yes	Yes
Device	Yes	No	No
Event Enrollment	Yes	Yes	Yes
File	No	No	No
Loop	No	No	No
Multi-state Value	No	No	No
Notification Class	Yes	Yes	Yes
Program	No	No	No
Schedule	Yes	Yes	Yes
Trend Log	No	No	No
LifeSafetyPoint	No	No	No
LifeSafetyZone	No	No	No
Accumulator	No	No	No
PulseConverter	No	No	No

Analog Input Object Properties Supported

Required Properties	Optional Properties	Proprietary Properties	Writable where not required by standard	Property range restrictions
Object_Identifier				
Object_Name				
Object_Type				
Present_Value				
	Description			
Status_Flags				
Event_State				
	Reliability			
Out_Of_Service				
	Update_Interval			
Units				
	Min_Pres_Value			
	Max_Pres_Value			
	Resolution			
	COV_Increment		Y	
	Time_Delay		Y	
	Notification_Class		Y	
	High_Limit		Y	
	Low_Limit		Y	
	Deadband		Y	
	Limit_Enable		Y	
	Event_Enable		Y	
	Acked_Transitions			
	Notify_Type		Y	
	Event_Time_Stamps			

Binary Input Object Properties Supported

Required Properties	Optional Properties	Proprietary Properties	Writable where not required by standard	Property range restrictions
Object_Identifier				
Object_Name				
Object_Type				
Present_Value				
	Description			
Status_Flags				
Event_State				
	Reliability			
Out_Of_Service				
Polarity				
	Time_Delay		Y	
	Notification_Class		Y	
	Alarm_Value		Y	
	Event_Enable		Y	
	Acked_Transitions			
	Notify_Type		Y	
	Event_Time_Stamps			

Analog Output Object Properties Supported

Required Properties	Optional Properties	Proprietary Properties	Writable where not required by standard	Property range restrictions
Object_Identifier				
Object_Name				
Object_Type				
Present_Value				
	Description			
Status_Flags				
Event_State				
	Reliability			
Out_Of_Service				
Units				
	Min_Pres_Value			
	Max_Pres_Value			
	Resolution			
Priority_Array			Y	
Relinquish_Default			Y	
	COV_Increment		Y	
	Time_Delay		Y	
	Notification_Class		Y	
	High_Limit		Y	
	Low_Limit		Y	
	Deadband		Y	
	Limit_Enable		Y	
	Event_Enable		Y	
	Acked_Transitions			
	Notify_Type		Y	
	Event_Time_Stamps			
	Alarm_Value		Y	

Device Object Properties Supported

Required Properties	Optional Properties	Proprietary Properties	Writable where not required by standard	Property range restrictions
Object_Identifier				
Object_Name				
Object_Type				
System_Status				
Vendor_Name				
Vendor_Identifier				
Model_Name				
Firmware_Revision				
Application_Software_Version				
	Location			
	Description			
Protocol_Version				
Protocol_Revision				
Protocol_Services_Supported				
Protocol_Object_Types_Supported				
Object_List				
Max_APDU_Length_Accepted				
Segmentation_Supported				
APDU_Timeout				
Number_Of_APDU_Retries				

Data Link Layer Options:

- ☒ BACnet IP, (Annex J)
- ☒ BACnet IP, (Annex J), Foreign Device
- ☐ ISO 8802-3, Ethernet (Clause 7)
- ☐ ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ☐ ANSI/ATA 878.1, RS-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: _____

☐ 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

Character Sets Supported:

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

☒ ANSI X3.4

☐ IBM™/Microsoft™ DBCS

☐ ISO 8859-1

☐ ISO 10646 (UCS-2)

☐ ISO 10646 (UCS-4)

☐ JIS C 6226

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

Cypress EnviroSystems Wireless Pneumatic Thermostat

Cypress EnviroSystems
198 Champion Court
San Jose, CA-95134, US
info@cypressenvirosystems.com
Phone: +1(408)943-2800