

BACnet Protocol Implementation Conformance Statement

October 1, 2004

Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
GWY301	GWY301	135-1995b (1)	2.3.1.7	1

Vendor Information

Phoenix Controls Corporation
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Product Description

A gateway which acts as a router to a network of virtual BACnet devices, each of which maps to a Celeris node.

BACnet Standardized Device Profile

Product	Device Profile	Additional BIBBs	Tested
	BACnet Operator Workstation (B-OWS)		
	BACnet Building Controller (B-BC)		
	BACnet Advanced Application Controller (B-AAC)		
GWY301	BACnet Application Specific Controller (B-ASC)		✓
	BACnet Smart Sensor (B-SS)		
	BACnet Smart Actuator (B-SA)		

Additional Supported BIBBs

Product	Additional BIBBs	Tested
GWY301	Data Sharing-COV-B Alarm and Event-Notification Internal – B Alarm and Event-ACK-B Alarm and Event-Alarm Summary - B	✓

Segmentation Capability

Segmentation Type	Supported	Window Size	Tested
Able to send segmented messages	Yes	16	
Able to receive segmented messages	Yes	16	

Standard Object Types Supported

Analog Input (not creatable, not deletable)			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
Present_Value	Read-only		✓
Description	Writable	Description Up to 255 characters	✓
Status_Flags	Read-only		✓
Event_State	Read-only		✓
Reliability	Read-only		✓
Out_Of_Service	Read-only		✓
Units	Read-only		✓
COV_Increment	Writable		✓
Time_Delay	Writable	Time Delay 0-255	✓
Notification_Class	Read-only		✓
High_Limit	Writable		✓
Low_Limit	Writable		✓
Deadband	Writable		✓
Limit_Enable	Writable		✓
Event_Enable	Writable		✓
Acked_Transitions	Read-only		✓
Notify_Type	Read-only		✓
Event_Time_Stamps	Read-only		✓

Analog Output creatable, deletable			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
Present_Value	Writable	Present Value Range is dynamically set in run-time by firmware	✓
Description	Writable	Description Up to 255 characters	✓
Status_Flags	Read-only		✓
Event_State	Read-only		✓
Reliability	Read-only		✓
Out_Of_Service	Read-only		✓

Units	Read-only		✓
Priority_Array	Read-only		✓
Relinquish_Default	Read-only		✓
COV_Increment	Writable		✓
Time_Delay	Writable	Time Delay 0-255	✓
Notification_Class	Read-only		✓
High_Limit	Writable		✓
Low_Limit	Writable		✓
Deadband	Writable		✓
Limit_Enable	Writable		✓
Event_Enable	Writable		✓
Acked_Transitions	Read-only		✓
Notify_Type	Read-only		✓
Event_Time_Stamps	Read-only		✓

Binary Input (not creatable, not deletable)			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
Present_Value	Read-only		✓
Description	Writable	Description Up to 255 characters	✓
Status_Flags	Read-only		✓
Event_State	Read-only		✓
Reliability	Read-only		✓
Out_Of_Service	Read-only		✓
Polarity	Read-only		✓
Inactive_Text	Writable	Inactive Text Up to 255 characters	✓
Active_Text	Writable	Active Text Up to 255 characters	✓
Time_Delay	Writable	Time Delay 0-255	✓
Notification_Class	Read-only		✓
Alarm_Value	Read-only		✓
Limit_Enable	Writable		✓
Event_Enable	Writable		✓
Acked_Transitions	Read-only		✓

Notify_Type	Read-only		✓
Event_Time_Stamps	Read-only		✓

Binary Output (not creatable, not deletable)			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
Present_Value	Writable		✓
Description	Writable	Description Up to 255 characters	✓
Status_Flags	Read-only		✓
Event_State	Read-only		✓
Reliability	Read-only		✓
Out_Of_Service	Read-only		✓
Polarity	Read-only		✓
Inactive_Text	Writable	Inactive Text Up to 255 characters	✓
Active_Text	Writable	Active Text Up to 255 characters	✓
Priority_Array	Read-only		✓
Relinquish_Default	Read-only		✓
Time_Delay	Writable	Time Delay 0-255	✓
Notification_Class	Read-only		✓
Feedback_Value	Read-only		✓
Limit_Enable	Writable		✓
Event_Enable	Writable		✓
Acked_Transitions	Read-only		✓
Notify_Type	Read-only		✓
Event_Time_Stamps	Read-only		✓

Device (not creatable, not deletable)			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
System_Status	Read-only		✓
Vendor_Name	Read-only		✓
Vendor_Identifier	Read-only		✓

Model_Name	Read-only		✓
Firmware_Revision	Read-only		✓
Application_Software_Version	Read-only		✓
Location	Read-only		✓
Description	Writable	Description Up to 255 characters	✓
Protocol_Version	Read-only		✓
Protocol_Revision	Read-only		✓
Protocol_Services_Supported	Read-only		✓
Protocol_Object_Types_Supported	Read-only		✓
Object_List	Read-only		✓
Max_APDU_Length_Accepted	Read-only		✓
Segmentation_Accepted	Read-only		✓
Max_Segmens_Accepted	Read-only		✓
Local_Time	Read-only		✓
Local_Date	Read-only		✓
UTC_Offset	Read-only		✓
APDU_Segment_Timeout	Read-only		✓
APDU_Timeout	Read-only		✓
Number_Of_APDU_Retries	Read-only		✓
Device_Address_Binding	Read-only		✓
Database_Revision	Read-only		✓

Notification Class (not creatable, not deletable)			
Property	Writability	Proprietary Property Description	Tested
Object_Identifier	Read-only		✓
Object_Name	Read-only		✓
Object_Type	Read-only		✓
Description	Writable	Description Up to 255 characters	✓
Notification_Class	Read-only		✓
Priority	Read-only		✓
Ack_Required	Read-only		✓

Recipient_List	Writable	<p>Recipient List At least one bit in day-of-week is enabled. At least one transition bit is enabled. Only accepts "BACnetAddress" choice for recipient. Does not support global broadcast Does not support remote network Ethernet and MSTP broadcast Supports IP remote and local broadcast.</p>	✓
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Data Link Layer Options

Product	Data Link	Options	Tested
GWY301	BACnet/IP (Annex J)	Can act as a Direct BACnet/IP device.	✓
GWY301	Ethernet (ISO 8802-3)		✓

Device Address Binding

Product	Static Binding Supported	Tested
GWY301	No	

Networking Options

Product	Router Option	Options	Tested
GWY301	BBMD (Annex J)	Supports foreign device connections	

Character Sets

Product	Character Sets supported	Tested
GWY301	ANSI X3.4	✓