

BACnet® IP Enabled InFusion Controller

Bacnet-IP-IC

BACnet Protocol Implementation Conformance Statement

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2 Bacnet-IP-IC

Date	October 2016
Vendor Name	Vantage Controls
Product Name	BACnet® IP Enabled InFusion Controller
Product Model Number	BACnet-IP-IC
Application Software Version	3.7.0.11
Firmware Revision	0.8.3
BACnet Protocol Revision	Version 1 Revision 12

3 Product Description

The BACnet® IP Enabled InFusion Controller is a standard LCAP InFusion Controller with the ability to advertise the Loads, Buttons and Occupancy Tasks of the InFusion system to the BACnet network.

4 BACnet Standardized Device Profile

- ☐ 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)

5 List All BACnet Interoperable Building Blocks Supported

DS-RP-A	DM-DOB-B
DS-RP-B	DM-DCC-B
DS-WP-A	DS-RPM-B
DM-DDB-B	DM-RD-B

6 Segmentation Capability

None

7 Standard Object Types Supported

Object Type	Can be created dynamically	Can be deleted dynamically
Analog Input	☐	☐
Analog Value	☐	☐
Binary Value	☐	☐
Device	☐	☐

Analog Value	Properties	Supported	Readable/Writable	Range Restrictions
	Object_Identifier	☒	R	
	Object_Name	☒	R	
	Object_Type	☒	R	
	Present_Value	☒	W	
	Description	☒	R	
	Status_Flags	☒	R	
	Event_State	☐		
	Reliability	☒	R	
	Out_Of_Service	☒	R	
	Units	☒	R	
	Priority_Array	☐		
	Relinquish_Default	☐		
	COV_Increment	☐		
	Time_Delay	☐		
	Notification_Class	☐		
	High_Limit	☐		
	Low_Limit	☐		
	Deadband	☐		
	Limit_Enable	☐		
	Event_Enable	☐		
	Acked_Transitions	☐		
	Notify_Type	☐		
	Event_Time_Stamps	☐		
	Profile_Name	☐		

Binary Input	Properties	Supported	Readable/Writable	Range Restrictions
	Object_Identifier	☒	R	
	Object_Name	☒	R	
	Object_Type	☒	R	
	Present_Value	☒	R	
	Description	☒	R	
	Device_Type	☐		
	Status_Flags	☒	R	
	Event_State	☒	R	
	Reliability	☒	R	
	Out_Of_Service	☒	R	
	Polarity	☒	R	
	Inactive_Text	☐		
	Active_Text	☐		
	Change_Of_State_Time	☐		
	Change_Of_State_Count	☐		
	Time_Of_State_Count_Reset	☐		
	Elapsed_Active_Time	☐		
	Time_Of_Active_Time_Reset	☐		
	Time_Delay	☐		
	Notification_Class	☐		
	Alarm_Value	☐		
	Event_Enable	☐		
	Acked_Transitions	☐		
	Notify_Type	☐		
	Event_Time_Stamps	☐		
	Profile_Name	☐		

Binary Value	Properties	Supported	Readable/Writable	Range Restrictions
	Object_Identifier	☒	R	
	Object_Name	☒	R	
	Object_Type	☒	R	
	Present_Value	☒	W	
	Description	☒	R	
	Status_Flags	☒	R	
	Event_State	☐		
	Reliability	☒	R	
	Out_Of_Service	☒	R	
	Inactive_Text	☐		
	Active_Text	☐		
	Change_Of_State_Time	☐		
	Change_Of_State_Count	☐		
	Time_Of_State_Count_Reset	☐		
	Elapsed_Active_Time	☐		
	Time_Of_Active_Time_Reset	☐		
	Minimum_Off_Time	☐		
	Minimum_On_Time	☐		
	Priority_Array	☐		
	Relinquish_Default	☐		
	Time_Delay	☐		
	Notification_Class	☐		
	High_Limit	☐		
	Low_Limit	☐		
	Deadband	☐		
	Limit_Enable	☐		
	Event_Enable	☐		
	Acked_Transitions	☐		
	Notify_Type	☐		
	Event_Time_Stamps	☐		
	Profile_Name	☐		

Device	Properties	Supported	Readable/Writable	Range Restrictions
	Object_Identifier	☒	R	
	Object_Name	☒	R	
	Object_Type	☒	R	
	System_Status	☒	R	
	Vendor_Name	☒	R	
	Vendor_Identifier	☒	R	
	Model_Name	☒	R	
	Firmware_Revision	☒	R	
	Application_Software_Version	☒	R	
	Location	☐		
	Description	☒	R	
	Protocol_Revision	☒	R	
	Protocol_Services_Supported	☒	R	
	Protocol_Version	☒	R	
	Protocol_Object_Types_Supported	☒	R	
	Object_List	☒	R	
	Structured_Object_List	☒	R	
	Max_APDU_Length_Accepted	☒	R	
	Segmentation_Supported	☒	R	
	Max_Segments_Accepted	☐		
	VT_Classes_Supported	☐		
	Active_VT_Sessions	☐		
	Local_Time	☒	R	
	Local_Date	☒	R	
	UTC_Offset	☒	R	
	Daylight_Savings_Status	☒	R	
	APDU_Segment_Timeout	☐		
	APDU_Timeout	☒	R	
	Number_Of_APDU_Retries	☒	R	
	List_Of_Session_Keys	☐		
	Time_Synchronization_Recipients	☐		
	Max_Master	☐		
	Max_Info_Frames	☐		
	Device_Address_Binding	☒	R	
	Database_Revision	☒	R	
	Configuration_Files	☐		
	Last_Restore_Time	☐		
	Backup_Failure_Timeout	☐		
	Backup_Preparation_Time	☐		
	Restore_Preparation_Time	☐		
	Restore_Completion_Time	☐		
	Backup_And_Restore_State	☐		
	Active_COV_Subscriptions	☐		
	Slave_Proxy_Enable	☐		
	Manual_Slave_Address_Binding	☐		
	Auto_Slave_Discovery	☐		

Slave_Address_Binding	☐		
Last_Restart_Reason	☐		
Time_Of_Device_Restart	☐		
Restart_Notification_Recipients	☐		
UTC_Time_Synchronization_Recipients	☐		
Time_Synchronization_Interval	☐		
Align_Intervals	☐		
Interval_Offset	☐		
Profile_Name	☐		

8 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)

9 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

10 Character Sets Supported

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

11 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)