

BACnet Protocol Implementation Conformance Statement

Date: 2 November 2018
Vendor Name: Iwaki America
Product Name: W900 Controller
Product Model Number: All
Application Software Version: 3.21-11797
Firmware Revision: 3.21-11798
BACnet Protocol Revision: 1.14

Product Description: Water Treatment Controller

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 Data Sharing – Read Property

W900 supports reading of a single property at a time

DS-RPM-B Data Sharing – Read Property Multiple

W900 supports reading groups of properties with a single BACnet command

DM-DDB-B Device Management – Device Dynamic Binding

W900 responds to Who-Is requests with an I-Am packet

DM-DOB-B Device Management – Dynamic Object Binding

W900 responds to Who-Has requests with an I-Have packet

Segmentation Capability:

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

Standard Object Types Supported:

Device
Analog Input
Analog Value
Binary Input
Binary Value

Properties supported by each Object Type:

Property ID	Device	Analog Input	Analog Value	Binary Input	Binary Value
Object_Identifier	Read-Only	Read-Only	Read-Only	Read-Only	Read-Only
Object_Name	Read-Only	Read-Only	Read-Only	Read-Only	Read-Only
Object_Type	Read-Only	Read-Only	Read-Only	Read-Only	Read-Only
Present_Value		Read-Only	Read-Only	Read-Only	Read-Only
Description	Read-Only	Read-Only	Read-Only	Read-Only	Read-Only
Device_Type		Read-Only		Read-Only	
Status_Flags		Read-Only	Read-Only	Read-Only	Read-Only
Event_State		Read-Only	Read-Only	Read-Only	Read-Only
Out_Of_Service		Read-Only	Read-Only	Read-Only	
Units		Read-Only	Read-Only		
Min_Pres_Value		Read-Only			
Max_Pres_Value		Read-Only			
Resolution		Read-Only	Read-Only		
Polarity				Read-Only	
Inactive_Text				Read-Only	
Active_Text				Read-Only	Read-Only
Vendor_Name	Read-Only				
Vendor_Identifier	Read-Only				
Model_Name	Read-Only				
Firmware_Revision	Read-Only				
Application_Software_Revision	Read-Only				
Location	Read-Only				
Protocol_Version	Read-Only				
Protocol_Revision	Read-Only				
Protocol_Object_Types_Supported	Read-Only				
Object_List	Read-Only				
Local_Time	Read-Only				
Local_Date	Read-Only				
APDU_Timeout	Read-Only				
Number_Of_APDU_Retries	Read-Only				
Device_Address_Binding	Read-Only				
Database_Revision	Read-Only				
Serial_Number	Read-Only				

Notes:

- Object_Identifier has a factory-assigned value for Device objects that can be changed by the operator. Object_Identifier values for other object types are assigned by the system and cannot be modified by the operator.
- BACnet Analog Input objects are used to represent all W900 sensors, including AI Flowmeters, Digital Inputs other than DI State type, and Virtual Input
- BACnet Analog Value objects are used to represent the W900's Analog Outputs, Pulse Relays, and Analog Control Outputs
- BACnet Binary Input objects are used to represent W900 DI State inputs
- BACnet Binary Value objects are used to represent W900 Discrete Relays and Discrete Control Outputs

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:

n/a