EasyIO 30P Series Controller

BACnet Protocol Implementation Conformance Statement

Version 4.0.00 Sep 2017

BACnet Protocol Implementation Conformance Statement (PICS)

Date: 05 September 2017
Vendor Name: Soft Device Sdn. Bhd.
Product Name: EasyIO30P Bacnet Controller
Product Model Number: IO-30P-BN
IO-30S-BM
Applications Software Version: 2.3.0.27(IO-30P-BN)
2.0.5.26(IO-30S-BM)
Firmware Revision: 2.0.02
BACnet Protocol Revision: 14

Product Description:
The EasyIO30P Series: 30 I/O Controllers are rugged, network centric, high performance multi-protocols Input/Output controllers to accommodate general and specific applications, featuring BACnet® RS485, IP and Ethernet protocols plus a built-in Web server for easy configuration. It comes with 8 universal inputs (voltage, current, resistance & temperature sensor input type selectable), 8 digital inputs, 8 relay-isolated digital outputs, 2 Pulse Width Modulation (PWM) outputs and 4 analog inputs (voltage or current).

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)

List all BACnet Interoperability Building Blocks Supported (Annex K):

Supported BIBBs	BIBB Name
DS-RP-B	Data Sharing – ReadProperty – B
DS-RPM-B	Data Sharing – ReadPropertyMultiple – B
DS-WP-B	Data Sharing – WriteProperty – B
DS-WPM-B	Data Sharing – WritePropertyMultiple – B
DS-COV-B	Data Sharing – COV – B
DM-DDB-B	Device Management – Dynamic Device Binding – B
DM-DOB-B	Device Management – Dynamic Object Binding – B
DM-DCC-B	Device Management – DeviceCommunicationControl – B
DM-TS-B	Device Management – TimeSynchronization – B
DM-UTC-B	Device Management – UTCTimeSynchronization – B
DM-RD-B	Device Management – ReinitializeDevice – B
DM-OCD-B	Device Management – Object Creation and Deletion – B

Segmentation Capability:

☐ Segmented requests supported   Window Size _____

☐ Segmented responses supported   Window Size _____

Standard Object Types Supported:

Standard object types are supported and may be present in the device.

COV : Supports change of value (COV) reporting   DC : Dynamically creatable

DD : Dynamically deletable

There are no proprietary objects and no proprietary properties. There are no specific property range restrictions.

Standard object types are supported as listed:

Table 1.0 : Supported Objects

Object Type	COV	DC/DD	Optional Properties	Writable Properties
Analog Input	☑	☐	Description Device_Type Reliability COV_Increment	Object_Name Present_Value(*) Description Device_Type Out_Of_Service COV_Increment Reliability(*)
Analog Output	☑	☐	Description Device_Type COV_Increment	Object_Name Present_Value Description Device_Type Out_Of_Service COV_Increment Relinquish_Default
Analog Value	☑	☑	Description COV_Increment	Present_Value COV_Increment
Binary Input	☑	☐	Description Device_Type Inactive_Text Active_Text	Object_Name Present_Value(*) Out_Of_Service Description Device_Type Polarity Inactive_Text Active_Text

Binary Output	☑	☐	Description Device_Type Inactive_Text Active_Text Minimum_On_Time Minimum_Off_Time	Object_Name Present_Value Description Out_Of_Service Polarity Inactive_Text Active_Text Device_Type Minimum_On_Time Minimum_Off_Time Relinquish_Default
Binary Value	☑	☑	Description Inactive_Text Active_Text	Present_Value
Multi-state Value	☑	☑	State_Text	Present_Value
Device	☐	☐	Description Location Local_Time Local_Date Max_Master Max_Info_Frames Active_COV_Subscriptions UTC_Offset Daylight_Saving_Status	Object_Identifier Object_Name Description Location Number_Of_APDU_Retries APDU_Timeout UTC_Offset Daylight_Saving_Status Local_Date Local_Time Max_Master Max_Info_Frames

Note: (*) - Only writable when **Out_Of_Service** is **TRUE**

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): 9600, 19200, 38400, 76800**
☐ 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.

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