



BACnet PICS

(Protocol Implementation Conformance Statement)

DTW/009 – V1.0 – 02/2020



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1. Definition

A PICS is a written document, created by the manufacturer of a device, that identifies the particular options specified by BACnet that are implemented in the device. A BACnet PICS is considered a public document that is available for use by any interested party. As a minimum, a BACnet PICS shall convey the following information.

2. General Information

Date: 18/02/2020

Vendor Name: WIT

Product Name: REDY

Product Model Number: CPU Type MONITOR and PROCESS

Application Software Version: 12.3.2

Firmware Revision: ALL

BACnet Protocol Revision: 0.8.4

The REDY product range gives intelligence to buildings. It uses BACnet / IP and BACnet / MSTP communication to interact with the building's Devices.

3. 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)

4. List all BACnet Interoperability Building Blocks Supported (Annex K)

- Data sharing - ReadProperty-B (DS-RP-B)
- Data sharing - ReadPropertyMultiple-B (DS-RPM-B)
- Data sharing - WriteProperty-B (DS-WP-B)
- Data sharing – COV Unsubscribed-B (DS-COVU-B)
- Device Management - DynamicDeviceBinding-B (DM-DDB-B)
- Device Management - DynamicObjectBinding-B (DM-DOB-B)
- Device Management - DeviceCommunicationControl-B (DM-DCC-B)

5. Segmentation Capability

- Segmented requests supported
- Segmented responses supported

6. Application Service

- ReadProperty
- ReadPropertyMultiple
- WriteProperty
- DeviceCommunicationControl
- WhoHas
- Whols

7. Standard Object Types Supported

Object type	Supported
Binary Input	<input checked="" type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>
Analog Input	<input checked="" type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>
Accumulator	<input checked="" type="checkbox"/>
Pulse-Converter	<input checked="" type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>

7.1 Binary Input

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Inactive Text	<input checked="" type="checkbox"/>	R/W
Active Text	<input checked="" type="checkbox"/>	R/W
Polarity	<input checked="" type="checkbox"/>	R/W

7.2 Binary Output

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Inactive Text	<input checked="" type="checkbox"/>	R/W
Active Text	<input checked="" type="checkbox"/>	R/W
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W
Polarity	<input checked="" type="checkbox"/>	R/W

7.3 Binary Value

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Inactive Text	<input checked="" type="checkbox"/>	R/W
Active Text	<input checked="" type="checkbox"/>	R/W
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W

7.4 Analog Input

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Unit	<input checked="" type="checkbox"/>	R/W
CovInc	<input checked="" type="checkbox"/>	R/W

7.5 Analog Output

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Unit	<input checked="" type="checkbox"/>	R/W
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W

7.6 Analog Value

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Unit	<input checked="" type="checkbox"/>	R/W
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W

7.7 Multi-State Input

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
NbOfState	<input checked="" type="checkbox"/>	R
StateText	<input checked="" type="checkbox"/>	R/W

7.8 Multi-State Output

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
NbOfState	<input checked="" type="checkbox"/>	R
StateText	<input checked="" type="checkbox"/>	R
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W

7.9 Multi-State Value

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
NbOfState	<input checked="" type="checkbox"/>	R
StateText	<input checked="" type="checkbox"/>	R
PriorityArray	<input checked="" type="checkbox"/>	R/W
RelinquishDef	<input checked="" type="checkbox"/>	R/W

7.10 Accumulator

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
ScalesReal	<input checked="" type="checkbox"/>	R
Scale	<input checked="" type="checkbox"/>	R
Unit	<input checked="" type="checkbox"/>	R/W

7.11 Pulse-Converter

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
StatusFlags	<input checked="" type="checkbox"/>	R
EventState	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
Unit	<input checked="" type="checkbox"/>	R/W
ScaleFactor	<input checked="" type="checkbox"/>	R
AdjustValue	<input checked="" type="checkbox"/>	R
Count	<input checked="" type="checkbox"/>	R

7.12 Schedule

Object	Supported	Readable/Writable
ObjectId	<input checked="" type="checkbox"/>	R
ObjectType	<input checked="" type="checkbox"/>	R
ObjectName	<input checked="" type="checkbox"/>	R
ObjectDesc	<input checked="" type="checkbox"/>	R/W
PresentValue	<input checked="" type="checkbox"/>	R/W
EffectivePeriod	<input checked="" type="checkbox"/>	R/W
Weekly	<input checked="" type="checkbox"/>	R/W
ExeptSchedule	<input checked="" type="checkbox"/>	R/W
ScheduleDefault	<input checked="" type="checkbox"/>	R/W
ObjetPropertyRef	<input checked="" type="checkbox"/>	R/W
PriorityWriting	<input checked="" type="checkbox"/>	R/W
StatusFlag	<input checked="" type="checkbox"/>	R
Reliability	<input checked="" type="checkbox"/>	R
OutOfService	<input checked="" type="checkbox"/>	R/W

8. 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)
- MS/TP master (Clause 9), baud rate(s): 9600/19200/38400/57600/115200bauds
- MS/TP slave (Clause 9)
- Point-To-Point, EIA 232 (Clause 10)
- Point-To-Point, modem, (Clause 10)
- LonTalk, (Clause 11)

9. 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

10. 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

11. Character Sets Supported

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

- | | | |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> UTF-8 (or ANSI X3.4) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS C 6226 |