

BACnet Server PICS

Content

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ARC Informatique
ISO 9001 : 2008
ISO 14001 : 2004
certified



1. BACnet Application Specific Controller

Date:	January 8th, 2019
Vendor Name:	ARC Informatique
Vendor Id:	624
Product Name:	PcVue
Product Model Number:	PcVue 12.0
Application Software Version:	1.0
Firmware Revision:	12.0
BACnet Protocol Revision:	12 (135-2010)

1.1. Product Description

PcVue is a SCADA Software that can act as a **BACnet Application Specific Controller (B-ASC)** through a dedicated Add-on. PcVue is able to communicate with BACnet workstations via BACnet/IP.

1.2. BACnet Standardized Device Profile

- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- 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)

1.3. BACnet Interoperability Building Blocks Supported

Data Sharing	ReadProperty-B ReadPropertyMultiple-B WriteProperty-B WritePropertyMultiple-B COV-B COVP-B	DS-RP-B DS-RPM-B DS-WP-B DS-WPM-B DS-COV-B DS-COVP-B
Device & Network Management	DynamicDeviceBinding-B DynamicObjectBinding-B DeviceCommunicationControl-B	DM-DDB-B DM-DOB-B DM-DCC-B

1.4. Segmentation Capability

- Segmented requests supported Window Size: 16
- Segmented responses supported Window Size: 16

1.5. Standard Object Types Supported

- PcVue as BACnet server

The following description defines all objects that PcVue is able to expose as a BACnet server. That does not mean these objects may be present in a given PcVue project.

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Analog-input	Yes	No	Description Min_Pres_Value Max_Pres_Value Resolution COV_Increment Profile_Name	No
Analog-output	Yes	No	Description Min_Pres_Value Max_Pres_Value Resolution COV_Increment Profile_Name	No
Analog-value	Yes	No	Description Min_Pres_Value Max_Pres_Value Resolution Priority_Array Relinquish_Default COV_Increment Time_Delay Profile_Name	No

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Binary-input	Yes	No	Description Inactive_Text Active_Text Profile_Name	No
Binary-output	Yes	No	Description Inactive_Text Active_Text Profile_Name	No
Binary-value	Yes	No	Description Inactive_Text Active_Text Priority_Array Relinquish_Default Profile_Name	No
Device	Yes	No	Location Description Local_Time Local_Date UTC_Offset Daylight_Savings_Status ADPU_Segment_Timeout Active_COV_Subscriptions Max_Segments_Accepted	No

1.6. 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): _____
- 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: _____

1.7. 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

1.8. 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

1.9. Character Sets Supported

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

- ANSI X3.4
- IBM™/Microsoft™ DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS X 0208 (JIS C 6226)
- ISO 10646 (UTF-8)

1.10. 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)

2. Annex A – Revision History

Revision	Author	Action	Editing	Date	Distribution
1.0	JS, ABQ	Creation of the document for PcVue 12.0: - B-ASC profile	BL	January 8 th , 2019	Public