

PCVUE - BACNET SERVER PICS

SUMMARY:

This document is the Protocol Implementation Conformance Statement of the CimWay built-in Server Add-on for BACnet.

The last revision of the technical content accommodates changes in PcVue 15.0.0. Unless otherwise stated, this document is valid for releases made publicly available since.

Last update	April 9, 2025
Revision	1.3/15.0.0
Confidentiality	C0 - Public

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» 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
1.1	ABQ	Update for PcVue 15.0.0: Added optional Device Properties related to "BACnet Device Restart Procedure" Editorial changes	BL	November 5 th , 2020	Public
1.2	BL	Editorial changes (15.1.3)	FMA	August 27 th , 2021	Public
1.3	MMC	Editorial - Applied new corporate template	BL	April 9, 2025	Public



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1. BACnet Application Specific Controller

Date: August 28th, 2021
 Vendor Name: ARC Informatique
 Vendor Id: 624
 Product Name: PcVue
 Product Model Number: PcVue 15.0
 Application Software Version: 1.0
 Firmware Revision: The full build number under the form x.y.z (for example 15.0.0)
 BACnet Protocol Revision: 12 (135-2010)

1.1 Product description

PcVue is a SCADA Software that can act as an **Application Specific Controller (B-ASC)**. 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	DS-RP-B
	ReadPropertyMultiple-B	DS-RPM-B
	WriteProperty-B	DS-WP-B
	WritePropertyMultiple-B	DS-WPM-B
	COV-B	DS-COV-B
	COVP-B	DS-COVP-B
Device & Network Management	Dynamic Device Binding-B	DM-DDB-B
	Dynamic Object Binding-B	DM-DOB-B
	DeviceCommunicationControl-B	DM-DCC-B

1.4 Segmentation Capability

- ☒ Segmented requests supported
- ☒ Segmented responses supported

Window Size: 16

Window Size: 16

1.5 Standard Object Types Supported

1.5.1 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
Binary-input	Yes	No	Description Inactive_Text Active_Text Profile_Name	No
Binary-output	Yes	No	Description Inactive_Text Active_Text Profile_Name	No

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
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 Time_Of_Device_Restart Last_Restart_Reason Restart_Notification_Recipients	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.

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> 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 X 0208 (JIS C 6226) |
| <input type="checkbox"/> 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)



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