

BACnet PICS

Content

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ARC Informatique
ISO 9001 : 2008
ISO 14001 : 2004
certified



1. BACnet Operator Workstation

Date:	08 July 2015
Vendor Name:	ARC Informatique
Product Name:	PcVue
Product Model Number:	PcVue 11.2
Application Software Version:	1.0
Firmware Revision:	11.2.6.13528
BACnet Protocol Revision:	12 (135-2010)

1.1. Product Description

PcVue is a SCADA Software that can act as a **BACnet Operator Workstation (B-OWS)**. PcVue is able to communicate with BACnet devices via BACnet-/IP.

1.2. BACnet Standardized Device Profile

- 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)

1.3. BACnet Interoperability Building Blocks Supported

<p>Data Sharing</p>	<p>ReadProperty-A ReadProperty-B ReadPropertyMultiple-A WriteProperty-A WriteProperty-B WritePropertyMultiple-A View-A Modify-A COV-A COVP-A</p>	<p>DS-RP-A DS-RP-B DS-RPM-A DS-WP-A DS-WP-B DS-WPM-A DS-V-A DS-M-A DS-COV-A DS-COVP-A</p>
<p>Device & Network Management</p>	<p>Dynamic Device Binding-A Dynamic Device Binding-B Dynamic Object Binding-B Automatic Network Mapping-A Automatic Device Mapping-A List Manipulation-A List Manipulation-B Manual Time Synchronization-A Time Synchronization-A UTC Time Synchronization-A</p>	<p>DM-DDB-A DM-DDB-B DM-DOB-B DM-ANM-A DM-ADM-A DM-LM-A DM-LM-B DM-MTS-A DM-TS-A DM-UTC-A</p>
<p>Event & Alarm</p>	<p>Notification-A ACK-A Alarm Summary-A Enrollment Summary-A Information-A Alarm Summary-A View and Modify-A View Notifications-A</p>	<p>AE-N-A AE-ACK-A AE-ASUM-A AE-ESUM-A AE-INFO-A AE-AS-A AE-VM-A AE-VN-A</p>
<p>Scheduling</p>	<p>Scheduling-A View and Modify-A</p>	<p>SCHED-A SCHED-VM-A</p>
<p>Trending</p>	<p>View and Modify Trends-A View-A</p>	<p>T-VMT-A T-V-A</p>

1.4. Segmentation Capability

- Segmented requests supported
- Segmented responses supported

Window Size: Configurable

Window Size: Configurable

1.5. Standard Object Types Supported

- PcVue as BACnet server

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Device	Yes	No	Location Description Max_Segments_Accepted Local_Time Local_Date UTC_Offset Daylight_Savings_Status APDU_Segment_Timeout Time_Synchronization_Recipients UTC_Time_Synchronization_Recipients Time_Synchronization_Interval Align_Intervals Interval_Offset	-

- PcVue as BACnet client

The following description defines all objects that PcVue is able to read as a BACnet client. That doesn't mean these objects may be present in PcVue.

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Access-credential	Yes	No	All	Yes ¹
Access-door	Yes	No	All	Yes ¹
Access-point	Yes	No	All	Yes ¹
Access-rights	Yes	No	All	Yes ¹
Access-user	Yes	No	All	Yes ¹
Access-zone	Yes	No	All	Yes ¹
Accumulator	Yes	No	All	Yes ¹
Analog-input	Yes	No	All	Yes ¹
Analog-output	Yes	No	All	Yes ¹
Analog-value	Yes	No	All	Yes ¹
Averaging	Yes	No	All	Yes ¹
Binary-input	Yes	No	All	Yes ¹
Binary-output	Yes	No	All	Yes ¹
Binary-value	Yes	No	All	Yes ¹
Bitstring-value	Yes	No	All	Yes ¹
Calendar	Yes	No	All	Yes ¹
Characterstring-value	Yes	No	All	Yes ¹
Command	Yes	No	All	Yes ¹
Credential-data-input	Yes	No	All	Yes ¹
Date-pattern-value	Yes	No	All	Yes ¹
Date-value	Yes	No	All	Yes ¹
Datetime-pattern-value	Yes	No	All	Yes ¹
Datetime-value	Yes	No	All	Yes ¹
Device	Yes	No	All	Yes ¹

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Event-enrollment	Yes	No	All	Yes ¹
Event-log	Yes	No	All	Yes ¹
File	Yes	No	All	Yes ¹
Global-group	Yes	No	All	Yes ¹
Group	Yes	No	All	Yes ¹
Integer-value	Yes	No	All	Yes ¹
Large-analog-value	Yes	No	All	Yes ¹
Life-safety-point	Yes	No	All	Yes ¹
Life-safety-zone	Yes	No	All	Yes ¹
Load-control	Yes	No	All	Yes ¹
Loop	Yes	No	All	Yes ¹
Multi-state-input	Yes	No	All	Yes ¹
Multi-state-output	Yes	No	All	Yes ¹
Multi-state-value	Yes	No	All	Yes ¹
Network-security	Yes	No	All	Yes ¹
Notification-class	Yes	No	All	Yes ¹
Octetstring-value	Yes	No	All	Yes ¹
Positive-integer-value	Yes	No	All	Yes ¹
Program	Yes	No	All	Yes ¹
Pulse-converter	Yes	No	All	Yes ¹
Schedule	Yes	No	All	Yes ¹
Structured-view	Yes	No	All	Yes ¹
Trend-log	Yes	No	All	Yes ¹

Object Type	Object Type Supported	Dynamically Creatable and Deletable	Optional Properties Supported	Proprietary Properties
Trend-log-Multiple	<i>Yes</i>	<i>No</i>	<i>All</i>	<i>Yes¹</i>
Time-pattern-value	<i>Yes</i>	<i>No</i>	<i>All</i>	<i>Yes¹</i>
Time-value	<i>Yes</i>	<i>No</i>	<i>All</i>	<i>Yes¹</i>

¹ According to the datatype (primitive data types).

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)