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CVR 10643597



OJ-Air2 BACnet PICS 4.00

BACnet Protocol Implementation Conformance Statement

Date: 27-05-2016

Vendor Name: OJ Electronics A/S (Vendor Identifier 368)

Product Name: OJ-Air2

Product Model Number: OJ-Air2Master

Application Software Version:1.2 **Firmware Revision:**1.2 **BACnet Protocol Revision:**12

Product Description:

The BACnet driver enables BACnet control and supervision of a complete Air Handling Unit (AHU), which have an embedded OJ-Air2Master controller. The BACnet driver is embedded in the OJ-Air2Master with software version 4.00 or higher.

BACnet Standardized Device Profile (Annex L):

- ☐ 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)

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

Data sharing

DS-RP-B	Data Sharing-Read Property-B
DS-RPM-B	Data Sharing-Read Property Multiple-B
DS-WP-B	Data Sharing-Write Property-B
DS-WPM-B	Data Sharing-Write Property Multiple-B
DS-COV-B	Data Sharing-COV-B
DS-COVP-B	Data Sharing-COV Property-B

Alarm&Event Management

AE-N-I-B	Alarm&Event-Notification Internal-B
AE-ACK-B	Alarm&Event Acknowledge Alarm-B
AE-INFO-B	Alarm&Event Information-B
AE-ASUM-B	Alarm&Event-Alarm Summary-B
AE-ESUM-B	Alarm&Event-Enrollment Summary-B

Scheduling

SCHED-I-B	Scheduling-Internal-B
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Device Management

DM-DDB-A	Device Management-Dynamic Device Binding-A
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DOB-B	Device Management-Dynamic Object Binding-B
DM-DCC-B	Device Management-Dynamic Communication Control-B
DM-TS-B	Device Management-TimeSynchronization-B
DM-UTC-B	Device Management-UTCTimeSynchronization-B
DM-RD-B	Device Management-Reinitialize Device-B
DM-R-B	Device Management-Restart-B
DM-LM-B	Device Management- List Manipulation-B

Segmentation Capability:

☒ Able to transmit segmented messages	Window Size <u>32</u>
☒ Able to receive segmented messages	Window Size <u>32</u>

Standard Object Types Supported:

The CreateObject service is not supported.
The DeleteObject service is not supported.
Writeable properties are listed in **bold**.

Device objects

Object_Identifier
Object_Name
Object_Type
System_Status
Vendor_Name
Vendor_Identifier
Model_Name
Firmware_Revision
Application_Software_Version
Location
Description
Protocol_Version
Protocol_Revision
Protocol_Services_Supported
Protocol_Object_Types_Supported
Object_List
Max_APDU_Length_Accepted
Segmentation_Supported
Max_Segments_Supported
Local_Time
Local_Date
UTC_Offset
Daylight_Savings_Status
APDU_Segment_Timeout
APDU_Timeout
Number_Of_APDU_Retries
Device_Address_Binding
Database_Revision
Active_COV_Supscriptions

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Analog Input Objects

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Status_Flags

Event_State

Relability

Out_Of_Service

Units

Min_Pres_Value

Max_Pres_Value

Resolution

COV_Increment

Time_Delay

High_Limit

Low_Limit

Deadband

Limit_Enable

Event_Enable

Acked_Transitions

Notify_Type

Event_Time_Stamps

Analog Value Objects

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Status_Flags

Event_State

Reliability

Out_Of_Service

Units

Priority_Array

Relinquish_Default

COV_Increment

Time_Delay

High_Limit

Low_Limit

Deadband

Limit_Enable

Event_Enable

Acked_Transitions

Notify_Type

Event_Time_Stamps

Binary Input Objects

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Status_Flags

Event_State

Reliability

Out_Of_Service

Polarity

Time_Delay

Alarm_Value

Event_Enable

Acked_Transitions

Notify_Type

Event_Time_Stamps

Binary Value Objects

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Status_Flags

Event_State

Reliability

Out_Of_Service

Priority_Array

Relinquish_Default

Time_Delay

Alarm_Value

Event_Enable

Acked_Transitions

Notify_Type

Event_Time_Stamps

Calender Object

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Date_List (max 10 entries, valid range 1.1.2000 to 31.12.2099)

Schedule Object

Object_Identifier

Object_Name

Object_Type

Present_Value

Description

Effective_Period

Weekly_Schedule

Schedule_Default

List_Of_Object_Property_References

Priority_For_Writing

Status_Flags

Reliability

Out_Of_Service

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

- 1) Whether objects of this type are dynamically creatable using the CreateObject service
- 2) Whether objects of this type are dynamically deletable using the DeleteObject service
- 3) List of the optional properties supported
- 4) List of all properties that are writable where not otherwise required by this standard
- 5) List of all properties that are conditionally writable where not otherwise required by this standard
- 6) List of proprietary properties and for each its property identifier, datatype, and meaning
- 7) List of any property range restrictions

Data Link Layer Options:

- ☒ BACnet IP, (Annex J)
- ☐ BACnet IP, (Annex J), Foreign Device
- ☐ ISO 8802-3, Ethernet (Clause 7)
- ☐ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ☐ ATA 878.1, EIA-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: _____

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
 - Does the BBMD support network address translation ☐ Yes ☐ No

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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)

Character Sets Supported:

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

- | | | |
|---|---|--|
| ☒ ANSI3.4 | | |
| ☐ ISO 10646 (UTF-8) | ☐ IBM™/Microsoft™ DBCS | ☒ ISO 8859-1 |
| ☐ ISO 10646 (UCS-2) | ☐ ISO 10646 (UCS-4) | ☐ JIS X 0208 |

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

Not applicable