



## **OJ Green Zone BACnet PICS** **BACnet Protocol Implementation Conformance Statement**

**Date:** 20-09-2018

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

**Product Name:** OJ Green Zone

**Product Model Number:** OJ-ZoneMaster

**Applications Software Version:** 3.3.4

**Firmware Revision:** 2.0

**BACnet Protocol Revision:** 1.14

### **Product Description:**

The BacNet implementation enables BacNet control and supervision of a complete building controlled by the OJ Green Zone system. An OJ Green Zone system can consist of up to 5 sections. In each section there can be up to 25 Zones. Each section is controlled by a OJ Green Zone component called OJ ZoneMaster and each zone is controlled by one OJ Green Zone component called OJ ZoneModule. The BACnet server is implemented in the OJ ZoneMaster.

### **BACnet Standardized Device Profile (Annex L):**

BACnet Application Specific Controller (B-ASC)

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

#### **1. Data-Sharing BIBBs**

Data Sharing Read-Property-B	DS-RP-B
Data Sharing Read-Property-Multiple-B	DS-RPM-B
Data Sharing Write-Property-B	DS-WP-B
Data Sharing Write-Property-Multiple-B	DS-WPM-B
Data Sharing Change-of-Value-B	DS-COV-B

#### **2. Alarm and Event BIBBs**

None

#### **3. Scheduling BIBBs**

None

#### **4. Trending BIBBs**

None

#### **5. Device Management BIBBs**

Device Management-Dynamic Device Binding-B	DM-DDB-B
Device Management-Dynamic Object Binding-B	DM-DOB-B
Device Management-DeviceCommunicationControl-B	DM-DCC-B
Device Management-Restart-B	DM-R-B

#### **6. Network Management BIBBs:**

##### **Segmentation Capability:**

Segmented requests supported	Window Size	32
Segmented responses supported	Window Size	32

**Device Object Type**

Property Identifier	Property Datatype	CC	Available	Access
Object_Identifier	BACnetObjectIdentifier	R	Always	Read
Object_Name	CharacterString	R	Always	Read
Object_Type	BACnetObjectType	R	Always	Read
System_Status	BACnetDeviceStatus	R	Always	Read
Vendor_Name	CharacterString	R	Always	Read
Vendor_Identifier	Unsigned16	R	Always	Read
Model_Name	CharacterString	R	Always	Read
Firmware_Revision	CharacterString	R	Always	Read
Application_Software_Version	CharacterString	R	Always	Read
Location	CharacterString	O	n/a	n/a
Description	CharacterString	O	n/a	n/a
Protocol_Version	Unsigned	R	Always	Read
Protocol_Revision	Unsigned	R	Always	Read
Protocol_Services_Supported	BACnetServicesSupported	R	Always	Read
Protocol_Object_Types_Support.	BACnetObjectTypesSupported	R	Always	Read
Object_List	BACnetARRAY[N] of BACnetObjectIdent.	R	Always	Read
Structured_Object_List	BACnetARRAY[N] of BACnetObjectIdent.	O	n/a	n/a
Max_APDU_Length_Accepted	Unsigned	R	Always	Read
Segmentation_Supported	BACnetSegmentation	R	Always	Read
Max_Segments_Accepted	Unsigned	O	Always	Read
VT_Classes_Supported	List of BACnetVTClass	O	n/a	n/a
Active_VT_Sessions	List of BACnetVTSession	O	n/a	n/a
Local_Time	Time	O	n/a	n/a
Local_Date	Date	O	n/a	n/a
UTC_Offset	INTEGER	O	n/a	n/a
Daylight_Saving_Status	BOOLEAN	O	n/a	n/a
APDU_Segment_Timeout	Unsigned	O	Always	Read
APDU_Timeout	Unsigned	R	Always	Read
Number_Of_APDU_Retries	Unsigned	R	Always	Read
Time_Synchronization_Recipients	List of BACnetRecipient	O	n/a	n/a
Max_Master	Unsigned(1..127)	O	n/a	n/a
Max_Info_Frames	Unsigned	O	n/a	n/a
Device_Address_Binding	List of BACnetAdressBinding	R	Always	Read
Database_Revision	Unsigned	R	Always	Read
Configuration_Files	BACnetARRAY[N] of BACnetObjectIdent.	O	n/a	n/a
Last_Restore_Time	BACnetTimeStamp	O	n/a	n/a
Backup_Failure_Timeout	Unsigned16	O	n/a	n/a
Backup_Preparation_Time	Unsigned16	O	n/a	n/a
Restore_Preparation_Time	Unsigned16	O	n/a	n/a
Restore_Completion_Time	Unsigned16	O	n/a	n/a
Backup_And_Restore_State	BACnetBackupState	O	n/a	n/a
Active_COV_Subscriptions	List of BACnetCOVSubscriptions	O	Always	Read
Slave_Proxy_Enable	BACnetARRAY[N] of BOOLEAN	O	n/a	n/a
Manual_Slave_Address_Binding	List of BACnetAddressBinding	O	n/a	n/a
Auto_Slave_Discovery	BACnetARRAY[N] of BOOLEAN	O	n/a	n/a
Slave_Address_Binding	List of BACnetAddressBinding	O	n/a	n/a
Last_Restart_Reason	BACnetRestartReason	O	Always	Read
Time_Of_Device_Restart	BACnetTimeStamp	O	Always	Read
Restart_Notification_Recipients	List of BACnetRecipient	O	Always	Write
UTC_Time_Synchron_Recipients	List of BACnetRecipient	O	n/a	n/a

Property Identifier	Property Datatype	CC	Available	Access
Time_Synchronization_Interval	Unsigned	O	n/a	n/a
Align_Intervals	BOOLEAN	O	n/a	n/a
Interval_Offset	Unsigned	O	n/a	n/a
Serial_Number	CharacterString	O	n/a	n/a
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	Always	Read
Profile_Name	CharacterString	O	n/a	n/a

### Analog Input Object Type

Property Identifier	Property Datatype	CC	Available	Access
Object_Identifier	BACnetObjectIdentifier	R	Always	Read
Object_Name	CharacterString	R	Always	Read
Object_Type	BACnetObjectType	R	Always	Read
Present_Value	REAL	R	Always	Read
Description	CharacterString	O	n/a	n/a
Device_Type	CharacterString	O	n/a	n/a
Status_Flags	BACnetStatusFlags	R	Always	Read
Event_State	BACnetEventState	R	Always	Read
Reliability	BACnetReliability	O	n/a	n/a
Out_Of_Service	BOOLEAN	R	Always	Write
Update_Interval	Unsigned	O	n/a	n/a
Units	BACnetEngineeringUnits	R	Always	Read
Min_Pres_Value	REAL	O	n/a	n/a
Max_Pres_Value	REAL	O	n/a	n/a
Resolution	REAL	O	n/a	n/a
COV_Increment	REAL	O	Always	Read
Time_Delay	Unsigned	O	n/a	n/a
Notification_Class	Unsigned	O	n/a	n/a
High_Limit	REAL	O	n/a	n/a
Low_Limit	REAL	O	n/a	n/a
Deadband	REAL	O	n/a	n/a
Limit_Enable	BACnetLimitEnable	O	n/a	n/a
Event_Enable	BACnetEventTransitionBits	O	n/a	n/a
Acked_Transitions	BACnetEventTransitionBits	O	n/a	n/a
Notify_Type	BACnetNotifyType	O	n/a	n/a
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O	n/a	n/a
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Detection_Enable	BOOLEAN	O	n/a	n/a
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O	n/a	n/a
Event_Algorithm_Inhibit	BOOLEAN	O	n/a	n/a
Time_Delay_Normal	Unsigned	O	n/a	n/a
Reliability_Evaluation_Inhibit	BOOLEAN	O	n/a	n/a
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	Always	Read
Profile_Name	CharacterString	O	n/a	n/a

**Analog Value Object Type**

<b>Property Identifier</b>	<b>Property Datatype</b>	<b>CC</b>	<b>Available</b>	<b>Access</b>
Object_Identifier	BACnetObjectIdentifier	R	Always	Read
Object_Name	CharacterString	R	Always	Read
Object_Type	BACnetObjectType	R	Always	Read
Present_Value	REAL	R	Always	Write
Description	CharacterString	O	n/a	n/a
Status_Flags	BACnetStatusFlags	R	Always	Read
Event_State	BACnetEventState	R	Always	Read
Reliability	BACnetReliability	O	n/a	n/a
Out_Of_Service	BOOLEAN	R	Always	Write
Units	BACnetEngineeringUnits	R	Always	Read
Priority_Array	BACnetPriorityArray	O	n/a	n/a
Relinquish_Default	REAL	O	n/a	n/a
COV_Increment	REAL	O	Always	Read
Time_Delay	Unsigned	O	n/a	n/a
Notification_Class	Unsigned	O	n/a	n/a
High_Limit	REAL	O	n/a	n/a
Low_Limit	REAL	O	n/a	n/a
Deadband	REAL	O	n/a	n/a
Limit_Enable	BACnetLimitEnable	O	n/a	n/a
Event_Enable	BACnetEventTransitionBits	O	n/a	n/a
Acked_Transitions	BACnetEventTransitionBits	O	n/a	n/a
Notify_Type	BACnetNotifyType	O	n/a	n/a
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O	n/a	n/a
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Detection_Enable	BOOLEAN	O	n/a	n/a
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O	n/a	n/a
Event_Algorithm_Inhibit	BOOLEAN	O	n/a	n/a
Time_Delay_Normal	Unsigned	O	n/a	n/a
Reliability_Evaluation_Inhibit	BOOLEAN	O	n/a	n/a
Min_Pres_Value	REAL	O	n/a	n/a
Max_Pres_Value	REAL	O	n/a	n/a
Resolution	REAL	O	n/a	n/a
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	Always	Read
Profile_Name	CharacterString	O	n/a	n/a

**Binary Input Object Type**

Property Identifier	Property Datatype	CC	Available	Access
Object_Identifier	BACnetObjectIdentifier	R	Always	Read
Object_Name	CharacterString	R	Always	Read
Object_Type	BACnetObjectType	R	Always	Read
Present_Value	BACnetBinaryPV	R	Always	Read
Description	CharacterString	O	n/a	n/a
Device_Type	CharacterString	O	n/a	n/a
Status_Flags	BACnetStatusFlags	R	Always	Read
Event_State	BACnetEventState	R	Always	Read
Reliability	BACnetReliability	O	n/a	n/a
Out_Of_Service	BOOLEAN	R	Always	Write
Polarity	BACnetPolarity	R	Always	Read
Inactive_Text	CharacterString	O	n/a	n/a
Active_Text	CharacterString	O	n/a	n/a
Change_Of_State_Time	BACnetDateTime	O	n/a	n/a
Change_Of_State_Count	Unsigned	O	n/a	n/a
Time_Of_State_Count_Reset	BACnetDateTime	O	n/a	n/a
Elapsed_Active_Time	Unsigned32	O	n/a	n/a
Time_Of_Active_Time_Reset	BACnetDateTime	O	n/a	n/a
Time_Delay	Unsigned	O	n/a	n/a
Notification_Class	Unsigned	O	n/a	n/a
Alarm_Value	BACnetBinaryPV	O	n/a	n/a
Event_Enable	BACnetEventTransitionBits	O	n/a	n/a
Acked_Transitions	BACnetEventTransitionBits	O	n/a	n/a
Notify_Type	BACnetNotifyType	O	n/a	n/a
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O	n/a	n/a
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Detection_Enable	BOOLEAN	O	n/a	n/a
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O	n/a	n/a
Event_Algorithm_Inhibit	BOOLEAN	O	n/a	n/a
Time_Delay_Normal	Unsigned	O	n/a	n/a
Reliability_Evaluation_Inhibit	BOOLEAN	O	n/a	n/a
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	Always	Read
Profile_Name	CharacterString	O	n/a	n/a

## Binary Value Object Type

Property Identifier	Property Datatype	CC	Available	Access
Object_Identifier	BACnetObjectIdentifier	R	Always	Read
Object_Name	CharacterString	R	Always	Read
Object_Type	BACnetObjectType	R	Always	Read
Present_Value	BACnetBinaryPV	R	Always	Write
Description	CharacterString	O	n/a	n/a
Status_Flags	BACnetStatusFlags	R	Always	Read
Event_State	BACnetEventState	R	Always	Read
Reliability	BACnetReliability	O	n/a	n/a
Out_Of_Service	BOOLEAN	R	Always	Write
Inactive_Text	CharacterString	O	n/a	n/a
Active_Text	CharacterString	O	n/a	n/a
Change_Of_State_Time	BACnetDateTime	O	n/a	n/a
Change_Of_State_Count	Unsigned	O	n/a	n/a
Time_Of_State_Count_Reset	BACnetDateTime	O	n/a	n/a
Elapsed_Active_Time	Unsigned32	O	n/a	n/a
Time_Of_Active_Time_Reset	BACnetDateTime	O	n/a	n/a
Minimum_Off_Time	Unsigned32	O	n/a	n/a
Minimum_On_Time	Unsigned32	O	n/a	n/a
Priority_Array	BACnetPriorityArray	O	n/a	n/a
Relinquish_Default	BACnetBinaryPV	O	n/a	n/a
Time_Delay	Unsigned	O	n/a	n/a
Notification_Class	Unsigned	O	n/a	n/a
Alarm_Value	BACnetBinaryPV	O	n/a	n/a
Event_Enable	BACnetEventTransitionBits	O	n/a	n/a
Acked_Transitions	BACnetEventTransitionBits	O	n/a	n/a
Notify_Type	BACnetNotifyType	O	n/a	n/a
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O	n/a	n/a
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O	n/a	n/a
Event_Detection_Enable	BOOLEAN	O	n/a	n/a
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O	n/a	n/a
Event_Algorithm_Inhibit	BOOLEAN	O	n/a	n/a
Time_Delay_Normal	Unsigned	O	n/a	n/a
Reliability_Evaluation_Inhibit	BOOLEAN	O	n/a	n/a
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	Always	Read
Profile_Name	CharacterString	O	n/a	n/a



**Data Link Layer Options:**

BACnet IP, (Annex J)  
BACnet IP, (Annex J), Foreign Device

**Networking Options:**

None

**Network Security Options**

Non-secure Device – is capable of operating without BACnet Network Security

**Character Sets Supported:**

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

ANSI X3.4 / UTF-8\*  
ISO 8859-1

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

None

\* Enumeration 0 = ANSI X3.4 was replaced by UTF-8, introduced in BACnet Addendum-H, approved January 2010