

BACnet Protocol Implementation Conformance Statement

1. BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 28/02/2012
Vendor Name: Trend Control Systems Ltd.
Product Name: IQeco
Product Model Number: IQeco/VAV/..., IQeco39/..., IQeco31/..., IQeco35/..., IQeco38/..
Applications Software Version: v2.10 **Firmware Revision:** v2.00 **BACnet Protocol Revision:** 6

1.1. PRODUCT DESCRIPTION

The IQeco is a configurable plant controller using BACnet over MSTP to interface with 3rd party BACnet systems.

1.2. BACNET STANDARDIZED DEVICE PROFILE (ANNEX L)

- BACnet Operator Workstation (B-OWS)
- 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. LIST ALL BACNET INTEROPERABILITY BUILDING BLOCKS SUPPORTED (ANNEX K):

BACnet Spec ID	BIBB	Title
1.1	DS-RP-A	Data Sharing-ReadProperty-A
1.2	DS-RP-B	Data Sharing-ReadProperty-B
1.4	DS-RPM-B	Data Sharing ReadPropertyMultiple-B
1.7	DS-WP-A	Data Sharing-WriteProperty-A
1.8	DS-WP-B	Data Sharing-WriteProperty-B
1.10	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
1.15	DS-COVU-A	Data Sharing-COV-Unsolicited-A
5.1	DM-DDB-A	Device Management-Dynamic Device Binding-A
5.2	DM-DDB-B	Device Management-Dynamic Device Binding-B
5.4	DM-DOB-B	Device Management-Dynamic Object Binding-B
5.6	DM-DCC-B	Device Management-DeviceCommunicationControl-B

1.4. SEGMENTATION CAPABILITY

- Segmented requests supported Window Size
- Segmented responses supported Window Size

1.5. STANDARD OBJECT TYPES SUPPORTED

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 proprietary properties and for each its property identifier, datatype, and meaning.
- 6) List of any property range restrictions.

1.5.1. Analog Input Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
None
5. Proprietary Properties: None
6. Property Range Restrictions:
None

1.5.2. Analogue Output Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
BP_PRESENT_VALUE
5. Proprietary Properties: None
6. Property Range Restrictions:
BP_PRESENT_VALUE -1e+20 to -1e-38, 0, +1e-38 to +1e+20, resolution: to 7 digits

1.5.3. Analogue Value Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
BP_PRESENT_VALUE
5. Proprietary Properties: None
6. Property Range Restrictions:
BP_PRESENT_VALUE -1e+20 to -1e-38, 0, +1e-38 to +1e+20, resolution: to 7 digits

1.5.4. Binary Input Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
None
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.5. Binary Output Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
BP_PRESENT_VALUE
5. Proprietary Properties: None
6. Property Range Restrictions:
None

1.5.6. Binary Value Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
BP_DESCRIPTION
4. Writeable Properties:
BP_PRESENT_VALUE
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.7. Device Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - BP_DESCRIPTION
 - BP_MAX_MASTER
 - BP_MAX_INFO_FRAMES
4. Writeable Properties:
 - BP_OBJECT_IDENTIFIER
 - BP_APDU-TIMEOUT
 - BP_NUMBER_OF_APDU_RETRIES
 - BP_MAX_MASTER
 - BP_MAX_INFO_FRAMES
5. Proprietary Properties: None
6. Property Range Restrictions:
 - None

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): 9k6, 19k2, 38k4, 76k8
 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:
 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; IP-MSTP
 Annex H, BACnet Tunneling Router over IP
 BACnet/IP Broadcast Management Device (BBMD)
 Does the BBMD support registrations by Foreign Devices? Yes No

1.9. CHARACTER SETS SUPPORTED:

1.10. 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 C 6226

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

Not a gateway

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