1. BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 13-May-2013
Vendor Name: Trend Control Systems Ltd.
Product Name: IQeco
Product Model Number: IQeco/VAV/.., IQeco39/.., IQeco31/.., IQeco35/.., IQeco38/..
Applications Software Version: v2.20 **Firmware Revision:** v2.00 **BACnet Protocol Revision:** 6

1.1. PRODUCT DESCRIPTION

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 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. LIST ALL BACNET INTEROPERABILITY BUILDING BLOCKS SUPPORTED (ANNEX K):

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

Segmentation is not supported.

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 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.

1.5.1. Analogue 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   -1e20 to 1e20, resolution: 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   -1e20 to 1e20, resolution: 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:
☐ 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; 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
      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.

☒ ISO 10646 (UTF-8)   ☐ 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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