Protocol Implementation Conformance Statement

Cylon BACnet Communications Controller

Date	May 2011
Vendor Name	Cylon Controls Ltd.
Product Name:	Cylon BACnet Communications Controller
Product Model Number:	CBR, UC32.netK/P
Firmware Revision:	3.01.04
BACnet Protocol Revision:	7

Product Description

This product provides bi-directional communication between a UnitronUC32 BMS and a BACnet system.

BACnet Standardised Device Profile (Annex L)

☐ BACnet Operator Workstation (**B-AWS**)
☐ 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**)
☐ BACnet Other (**B-OTHER**)

BACnet Interoperability Building Blocks Supported (Annex K)

ID	BIBB	Application Service
K.1.2	DS-RP-B	Data Sharing – ReadProperty-B
K.1.4	DS-RPM-B	Data Sharing – ReadPropertyMultiple-B
K.1.8	DS-WP-B	Data Sharing – WriteProperty-B
K.1.10	DS-WPM-B	Data Sharing – WritePropertyMultiple-B
K.5.2	DM-DDB-B	Device Management – Dynamic Device Binding-B
K.5.4	DM-DOB-B	Device Management – Dynamic Object Binding-B
K.5.6	DM-DCC-B	Device Management – Device Communication Control-B

Segmentation Capability

☐ Able to transmit segmented messages   Window Size: N/A

☐ Able to receive segmented messages   Window Size: N/A

Standard Object Types Supported:

☐ access-door

☐ accumulator

☐ analog-input (Virtual Modbus Device only)

☐ analog-output

☐ analog-value

☐ averaging

☐ binary-input (Virtual Modbus Device only)

☐ binary-output

☐ binary-value

☐ calendar

☐ command

☑ device

☐ event-enrollment

☐ event-log

☐ file

☐ group

☐ life-safety-point

☐ life-safety-zone

☐ load-control

☐ loop

☐ multi-state-input   – (**DS-RP-A** and **DS-WP-A** only)

☐ multi-state-output – (**DS-RP-A** and **DS-WP-A** only)

☐ multi-state-value – (**DS-RP-A** and **DS-WP-A** only)

☐ notification-class

☐ program

☐ pulse-converter

☐ schedule

☐ structured-view

☐ trend-log

☐ trend-log-multiple

For all of these objects the following apply:

1. Does not support BACnet CreateObject
2. Does not support BACnet DeleteObject
3. Does not support any optional properties
4. No additional writeable properties exist
5. No proprietary properties exist
6. No range restrictions exist

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) : N/A
☑ MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
☐ MS/TP slave (Clause 9), baud rate(s): N/A
☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s):   N/A
☐ Point-To-Point, modem, (Clause 10), baud rate(s): N/A
☐ LonTalk, (Clause 11), medium: N/A
☐ Other: N/A

Device Address Binding:

Is static device binding supported?   ☐ Yes   ☑ No
(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

Networking Options:

☑ Router, Clause 6 - IP, MS/TP, Ethernet
This device acts as a router to a virtual network which uses a 4-byte MAC address which is based on the Device Object BACnet ID.
☐ Annex H, BACnet Tunneling Router over IP
☐ BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? ☐ Yes ☐ No

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 C 6226

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

Cylon Unitron protocol.