

# CYLON

## UC32.net - BACnet Protocol Implementation Conformance Statement

This document describes the implementation of the BACnet standard within the UC32.net/P Communications Controller and the UnitronUC32 system.



### BACnet Protocol

Date:	25/09/2006
Vendor Name:	Cylon Controls
Product Name:	UC32.net
Product Model Number:	UC32.netK/P
Product Description:	This product provides bi-directional communication between a UnitronUC32 BMS and a BACnet system.

### BACnet Standardised Device Profile (Annex L)

**Note:** UC32.net is a gateway device  
BACnet Application Specific Controller (B-ASC)

### BACnet Interoperability Building Blocks Supported (Annex K):

- K.1.1 BIBB - Data Sharing - ReadProperty-A (DS-RP-A)
- K.1.2 BIBB - Data Sharing - ReadProperty-B (DS-RP-B)
- K.1.4 BIBB - Data Sharing - ReadPropertyMultiple-B (DS-RPM-B)
- K.1.7 BIBB - Data Sharing - WriteProperty-A (DS-WP-A)
- K.1.8 BIBB - Data Sharing - WriteProperty-B (DS-WP-B)
- K.5.1 BIBB - Device Management - Dynamic Device Binding-A (DM-DDB-A)
- K.5.2 BIBB - Device Management - Dynamic Device Binding-B (DM-DDB-B)
- K.5.4 BIBB - Device Management - Dynamic Object Binding-B (DM-DOB-B)
- K.5.30 BIBB - Network Management -Router Configuration-B (NM-RC-B) - The UC32.net is not a full router but this BIBB is supported in order to be able to implement multiple virtual nodes on the server side.

### Segmentation Capability:

None



Due to Cylon's policy of continuous improvements these specifications may be upgraded without notice.

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### Standard Object Types Supported

Device Object  
Analog Input  
Analog Output  
Analog Value  
Binary Input  
Binary Output  
Binary Value  
Multistate Input - (DS-RP-A and DS-WP-A only)  
Multistate Output - (DS-RP-A and DS-WP-A only)  
Multistate Value - (DS-RP-A and DS-WP-A only)

### 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) - Yes

### Device Address Binding:

Is static device binding supported? - No

### Networking Options:

Router, Clause 6 - 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.

### Character Sets Supported:

Character Set	Supported ?
ANSI X3.4.	Yes
ISO 10646 (UCS-2).	No
IBM/Microsoft DBCS	No
ISO 10646 (ICS-4)	No
ISO 8859-1	No
JIS C	No



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