

# BACnet Protocol Implementation Conformance Statement

**Date:** September 13, 2010

**Vendor Name:** AFDtek, a division of Fastek International Inc.

**Product Name:** FasBAC for Energy – Enterprise Edition

**Product Model Number:** FAS-BAC-004

**Applications Software Version:** 1.0

**Firmware Revision:** N/A

**BACnet Protocol Revision:** Version 1, Revision 4

## Product Description:

FasBAC for Energy is a Windows application that provides a communications gateway between the CARMA Industries Meter Manager and BACnet.

FasBAC for Energy reads data values from the Carma Meter Manager and either writes the values to designated BACnet objects on other devices on a BACnetIP network or makes the values available through internally hosted BACnet devices and objects – the distinction is made when FasBAC for Energy is configured.

## 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)

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

Application Service	Designation
■ Data Sharing – ReadProperty - A	DS-RP-A
■ Data Sharing – WriteProperty - A	DS-WP-A
■ Device Management – Dynamic Device Binding - A	DM-DDB-A
■ Device Management – Dynamic Object Binding - A	DM-DOB-A

## Segmentation Capability:

- Segmented requests supported                      Window Size: 1024
- Segmented responses supported                      Window Size: 1024

## Standard Object Types Supported:

### Analog Input Object

Dynamically Create:  Yes  No  
Dynamically Delete:  Yes  No

Optional Properties: None  
Non-standard writable properties: None  
Proprietary Properties: None  
Property Range Restrictions: None

### Analog Value Object

Dynamically Create:  Yes  No  
Dynamically Delete:  Yes  No

Optional Properties: None  
Non-standard writable properties: None  
Proprietary Properties: None  
Property Range Restrictions: None

### Binary Input Object

Dynamically Create:  Yes  No  
Dynamically Delete:  Yes  No

Optional Properties: None  
Non-standard writable properties: None  
Proprietary Properties: None  
Property Range Restrictions: None

### Binary Value Object

Dynamically Create:  Yes  No  
Dynamically Delete:  Yes  No

Optional Properties: None  
Non-standard writable properties: None  
Proprietary Properties: None  
Property Range Restrictions: None

### Device Object

Dynamically Create:  Yes  No  
Dynamically Delete:  Yes  No

Optional Properties: None  
Non-standard writable properties: None  
Proprietary Properties: None  
Property Range Restrictions: None

### 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): \_\_\_\_\_
- 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: \_\_\_\_\_

### 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

### Networking Options:

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- 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

### This product is a communication gateway:

FasBAC for Energy is a Windows application that provides a communications gateway between the CARMA Industries Meter Manager and BACnet. The Meter Manager system is an electrical energy monitoring and data collection system. The system is a Measurement Canada approved sub-metering system for tenant billing.