

BACnet Protocol Implementation Conformance Statement

Date: 16.4.2012
Vendor Name: Rockwell Automation
Product Name: PowerFlex 750-Series AC Drives
Product Model Number: 20-750-BNETIP
Applications Software Version: 1.001
Firmware Revision: 1.001.17
BACnet Protocol Revision: 11

Product Description:

20-750-BNETIP communication adapter provides BACnet communication capabilities to PowerFlex 750-Series AC Drives. The 20-750-BNETIP module connects the PowerFlex 750-Series AC Drives to a standard BACnet IP network. These products may be fully controlled and monitored over BACnet.

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)

List all BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing	Supported
Data Sharing-ReadProperty-B (DS-RP-B)	<input checked="" type="checkbox"/>
Data Sharing-WriteProperty-B (DS-WP-B)	<input checked="" type="checkbox"/>
Data Sharing-ReadProperty Multiple-B(DS-RPM-B)	<input checked="" type="checkbox"/>
Data Sharing-WriteProperty Multiple-B (DS-WPM-B)	<input checked="" type="checkbox"/>
Device Management	
Device Management-Dynamic Device Binding-B (DM-DDB-B)	<input checked="" type="checkbox"/>
Device Management-Dynamic Object Binding-B (DM-DOB-B)	<input checked="" type="checkbox"/>
Device Management-Device Communication Control-B (DM-DCC-B)	<input checked="" type="checkbox"/>
Device Management - Reinitialize Device-B (DM-RD-B)	<input checked="" type="checkbox"/>

Segmentation Capability:

- Able to transmit segmented messages
- Able to receive segmented messages

Standard Object Types Supported:

Device

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Object_Name
Conditionally writable properties:	None
Proprietary properties:	None
Property range restrictions:	None

Analog input

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Out_Of_Service
Conditionally writable properties:	Present_Value
Proprietary properties:	None
Property range restrictions:	None

Analog output

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Present_Value Out_Of_Service
Conditionally writable properties:	None
Proprietary properties:	None
Property range restrictions:	None

Analog value

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Out_Of_Service
Conditionally writable properties:	Present_Value
Proprietary properties:	None
Property range restrictions:	None

Binary input

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Out_Of_Service
Conditionally writable properties:	Present_Value
Proprietary properties:	None
Property range restrictions:	None

Binary output

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Present_Value Out_Of_Service
Conditionally writable properties:	None
Proprietary properties:	None
Property range restrictions:	None

Binary value

Dynamically creatable:	No
Dynamically deletable:	No
Optional properties supported:	None
Writable properties:	Out_Of_Service
Conditionally writable properties:	Present_Value
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)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-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: _____
- BACnet/ZigBee (ANNEX O)
- 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
 - Does the BBMD support network address translation? Yes No

Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys:
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)

Character Sets Supported:

- ISO 10646 (UTF-8)
- IBM™/Microsoft™ DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS X 0208

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

NA