

Protocol Implementation Conformance Statement (Normative)

BACnet Protocol Implementation Conformance Statement

BAC-5051AE Conquest BACnet Router



BTL Product Testing and Listing Program Application Form
BACnet Protocol Implementation Conformance Statement

Date: June 19, 2025

Vendor Name: KMC Controls

Product Name: Conquest BACnet Router

Product Model Number: BAC-5051AE

Applications Software Version: 0.1

Firmware Revision: R1.0.0.0

BACnet Protocol Revision: 16

Product Description:

The KMC Controls Conquest BAC-5051AE is a multi-port BACnet router for BACnet IP, 8802.3, and MS/TP routing. This compact router is powerful enough to support heavy network traffic and small enough to use as a control technician's service tool.

BACnet Standardized Device Profiles Supported (Annex L):

BACnet Router (B-RTR)

BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-A, DS-RP-B, DS-RPM-A, DS-RPM-B, DS-WP-A, DS-WP-B, DS-WPM-A, DS-WPM-B,
DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B, DM-BR-B, DM-LM-B, DM-TS-A,
DM-TS-B, DM-UTC-A, DM-UTC-B, DM-ATS-A, DM-MTS-A, NM-RC-B, NM-BBMDC-B,
NM-FDR-A

Segmentation Capability:

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

Window Size 7
Window Size 7

Standard Object Types Supported:

Object Type	Dynamically Creatable?	Dynamically Deletable?	Supported Optional Properties	Writable When Not Required?	Conditionally Writable?	Proprietary Properties	Property Range Restrictions
Device	No	No	APDU_Segment_Timeout, Backup_Failure_Timeout, Configuration_Files, Daylight_Savings_Status, Description, Last_Restore_Time, Local_Date, Local_Time, Location, Max_Master, Max_Info_Frames, Max_Segments_Accepted, and UTC_Offset	--	--	616 enable daylight savings (boolean), 617 daylight savings autocalc (boolean), 618 date and time when daylight savings time starts (DateTime), 619 date and time when daylight savings time ends (DateTime), 550 factory test mode (unsigned), 627 hardware info (char string), 635 device instance (unsigned), 1001 IP address (octet string), 1002 gateway address (octet string), 664 BBMD address (octet string), 665 BBMD port (unsigned), 667 foreign dev. time-to-live (unsigned), 1009 IP mode (enumerated), 666 comm type (enumerated), 1017 changes pending (boolean), 661 config status (char string), 662 device config good (boolean), 663 IP command (enumerated), 1051 BAUD rate (unsigned), 1050 MAC address (unsigned), 683 Ethernet MAC addr (char string), 655 SNTP IP property ID (octet string), 656 SNTP interval (unsigned), 657 device restart	--

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						required (boolean), 668 discovered comm netwk (unsigned), 720 lock selected objects (char string), 721 list of objects to lock (object list)	
File	Yes	Yes	Description	--	--	--	--

BACnet Data Link Layer Options:

- ☒ BACnet IP, (Annex J)
- ☒ BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
- ☒ Ethernet, ISO 8802-3 (Clause 7)
- ☒ MS/TP master (Clause 9)
 - ☒ Master ☐ Slave
 - ☐ Non-Isolated transceiver ☒ Isolated transceiver
 - ☐ Local 47K ohms bias resistors: ☒ None ☐ Other: _____
 - Transceiver unit loading: ☐ 1 ☐ 1/2 ☐ 1/4 ☒ 1/8
 - Data rates: ☒ 9600 ☒ 19200 ☒ 38400 ☒ 57600 ☒ 76800 ☒ 115200

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

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- ☒ ISO 10646 (UTF-8)