

# BACRouter

## BACnet Protocol Implementation Conformance Statement

|                               |  |
|-------------------------------|--|
| Date:                         | June 2017  |
| BACnet Vendor Name:           | SWG Automation Fuzhou Limited  |
| Product Name:                 | BACRouter  |
| Product Model Number:         | BACRouter  |
| Application Software Version: | 1.0  |
| Firmware Revision:            | 2.09   |
| BACnet Protocol Version:      | Version 1 Revision 12  |
| Product Description:          | Device to Route between BACnet/IP,<br>ISO 8802-3 and MS/TP networks. |

### 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)
- BACnet Router (B-RTR)
- BACnet Broadcast Management Device (B-BBMD)

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

DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DM-DDB-B, DM-DOB-B, DM-DCC-B,  
DM-RD-B, NM-RC-B, NM-BBMDC-B,

### Segmentation Capability:

- Able to transmit segmented messages Window Size \_\_\_\_\_
- Able to receive segmented messages Window Size \_\_\_\_\_

**Standard Object Types Supported:**Device  Can be created dynamically  Can be deleted dynamically

| <i>Property</i>                 | <i>Read/Write</i> | <i>Range restrictions</i>   |
|---------------------------------|-------------------|---|
| Object_Identifier               | W                 |   |
| Object_Name                     | W                 | Max 24 ASCII character  |
| Object_Type                     | R                 |   |
| System_Status                   | W                 |   |
| Vendor_Name                     | R                 |   |
| Vendor_Identifier               | R                 |   |
| Model_Name                      | R                 |   |
| Firmware_Revision               | R                 |   |
| Application_Software_Version    | R                 |   |
| Location                        | W                 | Max 32 ASCII character  |
| Protocol_Version                | R                 |   |
| Protocol_Revision               | R                 |   |
| Protocol_Services_Supported     | R                 |   |
| Protocol_Object_Types_Supported | R                 |   |
| Object_List                     | R                 |   |
| Max_APDU_Length_Accepted        | R                 |   |
| Segmentation_Supported          | R                 |   |
| APDU_Timeout                    | W                 | 5000~60000  |
| Number_Of_APDU_Retries          | W                 | 0~10  |
| Max_Master                      | R                 | It only presents when there has MS/TP port enabled. If there has more than one MS/TP ports enabled, It is mapped to first MS/TP port. |
| Max_Info_Frames                 | R                 | It only presents when there has MS/TP port enabled. If there has more than one MS/TP ports enabled, It is mapped to first MS/TP port. |
| Device_Address_Binding          | R                 |   |
| Database_Revision               | R                 |   |
| Active_COV_Subscriptions        | R                 |   |
| Slave_Proxy_Enable              | W                 | Only presents when there has MS/TP port.  |
| Manual_Slave_Address_Binding    | W                 | Only presents when there has MS/TP port.  |

|                       |   |  |
|-----------------------|---|--|
| Auto_Slave_Discovery  | W | Only presents when there has MS/TP port. |
| Slave_Address_Binding | W | Only presents when there has MS/TP port. |
| Property_List         | R |  |

**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): 9600, 19200, 38400, 57600, 76800, 115200, Auto  
 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 - routing between BACnet/IP, ISO 8802-3, and MS/TP  
 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
- Number of BDT entries: 149
- Number of FDT entries: 149

**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:**

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

- |   |   |                                     |
|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2)            | <input type="checkbox"/> ISO 10646 (UCS-4)    | <input type="checkbox"/> JIS X 0208 |

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