# Sage Paramount or Sage Prime BACnet PICS

**BACnet Protocol Implementation Conformance Statement (PICS)**

Date: May 6, 2019

Vendor Name: Sage Metering, Inc.

Product Name: Sage Paramount / Sage Prime Thermal Flow Meter

Product Model Number: Paramount 401 & 402, Prime SIP & SRP

Applications Software Version: V4.100

Firmware Revision: V4.100

BACnet Protocol Revision: 12

Product Description: Gas Mass Thermal Flow Meters

**BACnet Standard Device Profile (Annex L):**

[ ]  BACnet Operator Workstation (B-OWS)

[ ]  BACnet Building Controller (B-BC)

[ ]  BACnet Advanced Application Controller (B-AAC)

[x]  BACnet Application Specific Controller (B-ASC)

[ ]  BACnet Smart Sensor (B-SS)

[ ]  BACnet Smart Actuator (B-SA)

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

[x]  Data Sharing – ReadProperty-B (DS-RP-B)

[x]  Data Sharing – ReadPropertyMultiple-B (DS-RPM-B)

[x]  Data Sharing – WriteProperty-B (DS-WP-B)

[x]  Data Sharing – WritePropertyMultiple-B (DS-WPM-B)

[x]  Data Sharing – COV-B (DS-COV-B)

[x]  Device Management – Dynamic Device Binding-B (DM-DDB-B)

[x]  Device Management – Dynamic Object Binding-B (DM-DOB-B)

[x]  Device Management – DeviceCommunicationControl-B (DM-DCC-B)

[x]  Device Management – ReinitializeDevice-B (DM-RD-B)

**Segmentation Capability:**

[ ]  Able to transmit segmented messages Window Size \_\_\_\_\_\_\_\_

[ ]  Able to receive segmented messages Window Size \_\_\_\_\_\_\_\_

**Standard Object Types Supported:**

|  |  |
| --- | --- |
| **Property** | **Object Type** |
| **Device** | **Analog Input** | **Analog Value** |
| **Object Identifier** | W | R | R |
| **Object Name** | W | R | R |
| **Object Type** | R | R | R |
| **System Status** | R |  |  |
| **Vendor Name** | R |  |  |
| **Vendor Identifier** | R |  |  |
| **Model Name** | R |  |  |
| **Firmware Revision** | R |  |  |
| **App Software Revision** | R |  |  |
| **Protocol Version** | R |  |  |
| **Protocol Revision** | R |  |  |
| **Services Supported** | R |  |  |
| **Object Types Supported** | R |  |  |
| **Object List** | R |  |  |
| **Max APDU Length** | R |  |  |
| **Segmentation Support** | R |  |  |
| **APDU Timeout** | W(10…65535) |  |  |
| **Number APDU Retries** | W(0…10) |  |  |
| **Max Master** | W(1…127) |  |  |
| **Max Info Frames** | W(1…100) |  |  |
| **Device Address Binding** | R |  |  |
| **Database Revision** | R |  |  |
| **Active COV Subscriptions** | R |  |  |
| **Present Value** |  | R | W |
| **Status Flags** |  | R | R |
| **Event State** |  | R | R |
| **Reliability** |  | R | R |
| **Out-of-Service** |  | R | R |
| **Units** |  | R | R |
| **Priority Array** |  |  | R |
| **Relinquish Default** |  |  | R |
| **COV Increment** |  | W | W |

R – Readable using BACnet services

W – Readable and writable using BACnet services

**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) \_\_\_\_\_\_

[x]  MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200

[ ]  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 for two-way communication with MS/TP slaves and certain other devices.) [ ]  Yes [x]  No

**Networking Options:**

[ ]  Router, Clause 6 - List all routing configurations

[ ]  Annex H, BACnet Tunneling Router over IP

[ ]  BACnet/IP Broadcast Management Device (BBMD)

 Does the BBMD support registrations by Foreign Devices? [ ]  Yes [ ]  No

**Network Security Options:**

[x]  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.

[x]  ISO 10646 (UTF-8) [ ]  IBM™/Microsoft™ DBCS

[ ]  JIS X 0208 [ ]  ISO 10646 (UCS-4) [ ]  ISO 10646 (UCS-2 ) [ ]  ISO 8859-1