

1 BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date:	November 2010
BACnet Vendor Name:	Sierra Monitor Corporation
BACnet Vendor ID	37
Product Name:	FieldServer, SlotServer, QuickServer
Product Model Number:	FS-B20 Series, FS-B25 Series, FS-B30 Series, FS-B40 Series, QuickServer FS-QS-1011, SlotServer
Product Description:	This software product will provide bi-directional communication between various RTU, DCS, SCADA and PLC using most common protocols and a BACnet system. The FieldServer can perform protocol conversion (as opposed to routing) between the different BACnet Data Link Layer options. This is arranged by way of static mappings.
Protocol Conversions:	See FieldServer Technologies list of protocol drivers to determine available protocol conversions.

1.1.1 BACnet Standardized Device Profile (Annex L) – [Note: FieldServer is a gateway device]

<input checked="" type="checkbox"/>	BACnet Smart Sensor (B-SS)
<input checked="" type="checkbox"/>	BACnet Smart Actuator (B-SA)
<input checked="" type="checkbox"/>	BACnet Application Specific Controller (B-ASC)

1.1.2 BACnet Interoperability Building Blocks Supported (Annex K):

<input checked="" type="checkbox"/>	K.1.1 BIBB - Data Sharing - ReadProperty-A (DS-RP-A)
<input checked="" type="checkbox"/>	K.1.2 BIBB - Data Sharing - ReadProperty-B (DS-RP-B)
<input checked="" type="checkbox"/>	K.1.3 BIBB - Data Sharing - ReadPropertyMultiple-A (DS-RPM-A)
<input checked="" type="checkbox"/>	K.1.4 BIBB - Data Sharing - ReadPropertyMultiple-B (DS-RPM-B)
<input checked="" type="checkbox"/>	K.1.7 BIBB - Data Sharing - WriteProperty-A (DS-WP-A)
<input checked="" type="checkbox"/>	K.1.8 BIBB - Data Sharing - WriteProperty-B (DS-WP-B)
<input checked="" type="checkbox"/>	K.1.9 BIBB - Data Sharing – WritePropertyMultiple-A (DS-WPM-A)
<input checked="" type="checkbox"/>	K.1.10 BIBB - Data Sharing - WritePropertyMultiple-B (DS-WPM-B)
<input checked="" type="checkbox"/>	K.1.11 BIBB - Data Sharing - COV-A (DS-COV-A)
<input checked="" type="checkbox"/>	K.1.12 BIBB - Data Sharing - COV-B (DS-COV-B)
<input checked="" type="checkbox"/>	K.2.2 BIBB - Alarm and Event-Notification Internal-B (AE-N-I-B)
<input checked="" type="checkbox"/>	K.2.5 BIBB - Alarm and Event-ACK-B (AE-ACK-B)
<input checked="" type="checkbox"/>	K.2.11 BIBB - Alarm and Event-Information-B (AE-INFO-B)
<input checked="" type="checkbox"/>	K.5.1 BIBB - Device Management - Dynamic Device Binding-A (DM-DDB-A)
<input checked="" type="checkbox"/>	K.5.2 BIBB - Device Management - Dynamic Device Binding-B (DM-DDB-B)
<input checked="" type="checkbox"/>	K.5.3 BIBB - Device Management - Dynamic Device Binding-A (DM-DOB-A)
<input checked="" type="checkbox"/>	K.5.4 BIBB - Device Management - Dynamic Device Binding-B (DM-DOB-B)
<input checked="" type="checkbox"/>	K.5.6 BIBB - Device Management - DeviceCommunicationControl-B (DM-DCC-B)
<input checked="" type="checkbox"/>	K.5.12 BIBB - Device Management - TimeSynchronization-B (DM-TS-B)
<input checked="" type="checkbox"/>	K.5.22 BIBB - Device Management – List Manipulation-B (DM-LM-B)

1.1.3 Segmentation Capability:

None

1.1.4 Standard Object Types Supported

<input checked="" type="checkbox"/>	Device Object
<input checked="" type="checkbox"/>	Analog Input
<input checked="" type="checkbox"/>	Analog Output
<input checked="" type="checkbox"/>	Analog Value
<input checked="" type="checkbox"/>	Binary Input
<input checked="" type="checkbox"/>	Binary Output
<input checked="" type="checkbox"/>	Binary Value
<input checked="" type="checkbox"/>	Multi State Input
<input checked="" type="checkbox"/>	Multi State Output
<input checked="" type="checkbox"/>	Multi State Value
<input checked="" type="checkbox"/>	Notification Class Object

1.1.5 Unsupported Properties and Restrictions

1. Does not support BACnet CreateObject
2. Does not support BACnet DeleteObject
3. Does not support any optional properties
4. No additional writeable properties exist
5. No proprietary properties exist
6. No range restrictions exist
7. Client Driver can only read Present Value property

1.1.6 Data Link Layer Options:

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)
<input checked="" type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb, ARCNET (Clause 8)
<input checked="" type="checkbox"/>	Point-to-Point, EIA 232 (Clause 10), baud rate up to 57.6 Kbps
<input checked="" type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)
<input checked="" type="checkbox"/>	MS/TP master (Clause 9), baud rate up to 76.8 Kbps
<input checked="" type="checkbox"/>	MS/TP slave (Clause 9), baud rate up to 76.8 Kbps

1.1.7 Device Address Binding:

Not supported

1.1.8 Networking Options:

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Router, Clause 6 – List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc. |
| <input type="checkbox"/> | Annex H, BACnet Tunneling Router over IP |
| <input checked="" type="checkbox"/> | BACnet/IP Broadcast Management Device (BBMD) |
| <input checked="" type="checkbox"/> | Registrations by Foreign Devices |

1.1.9 Character Sets Supported:

Where support for multiple character sets is indicated, this does not imply that they can all be supported simultaneously.

- | | |
|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | ANSI X3.4/UTF-8. |
| <input type="checkbox"/> | ISO 10646 (UCS-2). |
| <input type="checkbox"/> | IBM/Microsoft DBCS |
| <input type="checkbox"/> | ISO 10646 (ICS-4) |
| <input type="checkbox"/> | ISO 8859-1 |
| <input type="checkbox"/> | JIS C |

1.1.10 Unsupported functions of the BACnet Driver -BACnet/IP as a Client:

- Registering the FieldServer as a foreign device on a remote BBMD
- Configuring a Connection for BBMD operation

1.1.11 Non-BACnet equipment/networks supported

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

- | | | | |
|-------------------------------|---------------------|------------------------|-----------------------|
| • Modbus RTU | • OPC | • EST QuickStart | • Russelectric |
| • Modbus TCP | • Allen Bradley DF1 | • Fike Cheetah | • Secutron |
| • LonWorks | • Allen Bradley CSP | • Gamewell-FCI | • Siemens Fire Safety |
| • Metasys N2 | • Canatal | • GE-SNP | • Silent Knight |
| • SNMP | • Carrier | • JBus | • SimplexGrinnell |
| • DNP 3.0 serial and Ethernet | • Caterpillar MSX | • Lutron | • Spectronics |
| • XML | • ControlNet | • McQuay | • Stulz |
| • GE-EGD | • DataAire | • Mircom | • TAC I/Net |
| • GE-SRTP | • DeviceNet | • Notifier Fire Panels | • Veeder-Root |
| | • EST3 ECP | • Profibus | • YorkTalk |