



Driver Version:	1.15
Document Revision:	9

FieldServer Driver – BACnet Protocol Implementation Conformance Statement

BACnet Protocol

Date: September 9, 2005
Vendor Name: FieldServer Technologies
Product Name: FieldServer
Product Model Number: FS-B40, FS-B20 or FS-B30 Series
ProtoCessor FFP
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 available to determine available protocol conversions.

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

- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

BACnet Interoperability Building Blocks Supported (Annex K):

- K.1.1 BIBB - Data Sharing - ReadProperty-A (DS-RP-A)
- K.1.2 BIBB - Data Sharing - ReadProperty-B (DS-RP-B)
- K.1.3 BIBB - Data Sharing - ReadPropertyMultiple-A (DS-RPM-A) (except ProtoCessor-FFP)
- K.1.4 BIBB - Data Sharing - ReadPropertyMultiple-B (DS-RPM-B) (except ProtoCessor-FFP)
- K.1.7 BIBB - Data Sharing - WriteProperty-A (DS-WP-A)
- K.1.8 BIBB - Data Sharing - WriteProperty-B (DS-WP-B)
- K.1.12 BIBB - Data Sharing - COV-B (DS-COV-B)
- K.2.2 BIBB - Alarm and Event-Notification Internal-B (AE-N-I-B)
- K.5.1 BIBB - Device Management - Dynamic Device Binding-A (DM-DDB-A)
- K.5.2 BIBB - Device Management - Dynamic Device Binding-B (DM-DDB-B)
- K.5.3 BIBB - Device Management - Dynamic Device Binding-A (DM-DOB-A)
- K.5.4 BIBB - Device Management - Dynamic Device Binding-B (DM-DOB-B)

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Segmentation Capability:

None

Standard Object Types Supported

Notification Class Object

Device Object

Analog Input

Analog Output

Analog Value

Binary Input

Binary Output

Binary Value

Multi State Input Output

Multi State Output

Multi State Value

For all these properties the following apply:

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

Data Link Layer Options:

BACnet IP, (Annex J)

ANSI/ATA 878.1, 2.5 Mb, ARCNET (Clause 8)

Point-to-Point, EIA 232 (Clause 10), baud rate up to 57.6 Kbps

ISO 8802-3, Ethernet (Clause 7)

MS/TP master (Clause 9), baud rate up to 57.6 Kbps

MS/TP slave (Clause 9), baud rate up to 57.6 Kbps

Device Address Binding:

Not supported

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)

Registrations by Foreign Devices



Character Sets Supported:

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

- ANSI X3.4.
- ISO 10646 (UCS-2).
- IBM/Microsoft
DBCS
- ISO 10646 (ICS-4)
- ISO 8859-1
- JIS C

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



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