BACnet Combined

Description

The BACnet® suite of drivers is designed to work with the FieldServer products. One or more drivers using different Data Link Layer options could be configured to act as a gateway between BACnet systems and RTU, SCADA's and PLC's using a wide variety of protocols. This document provides information relevant to the following FieldServer Drivers:

- FS-8700-16 BACnet PTP
- FS-8700-73 BACnet MS/TP
- FS-8704-06 BACnet/IP
- FS-8704-02 BACnet Ethernet

BACnet Vendor Name: MSA Safety

BACnet Vendor ID: 37

Formal Driver Type

The following Data Link layer options are supported:

- BACnet/IP (Annex J)
- Point-to-Point, EIA 232 (Clause 10), baud rate up to 115 Kbps
- ISO 8802-3, Ethernet (Clause 7)
- MS/TP master (Clause 9), baud rate up to 38.4 Kbps
- MS/TP slave (Clause 9), baud rate up to 38.4 Kbps

Client or Server

Compatibility

FieldServer Model	Compatible
ProtoCessor	Yes
ProtoCarrier	Yes
ProtoNode	Yes
ProtoAir	Yes

FieldServer Model	Compatible
QuickServer FS-QS-10xx	Yes
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	Yes
QuickServer FS-QS-22xx	Yes

Connection Information

BACnet PTP

Connection Type: RS-232

Baud Rates: 9600, 19200, 38400, 76800

Data Bits: 7,8

Stop Bits: 1,2

Parity: Odd, Even, None

Multidrop Capability: No

BACnet MS/TP (Master and Slave Operation)

Connection Type: RS-485 (Two Wire, Half Duplex)

Baud Rates: 9600, 19200, 38400, 76800, 115200

Data Bits: 7,8

Stop Bits: 1,2

Parity: Odd, Even, None

Multidrop Capability: Yes

BACnet/IP

Connection Type: Internet Protocol (IP)

Ethernet Speeds Supported: 10Base-T, 100Base-T

BBMD Supported: Yes (not supported on connections where FieldServer is a client)

Foreign Device Registration: Not supported for client connections

BACnet Ethernet

Connection Type: ISO 8802.3

Ethernet Speeds Supported: 10Base-T, 100Base-T

NOTE: For BACnet/IP and BACnet MS/TP, when configured as a BACnet master, there is no physical limit to the number of remote BACnet slave devices supported. When configured as BACnet slave, there is no physical limit to the number of virtual slave nodes supported. In both cases, the limitation is the FieldServer's point count capacity.

Devices Tested

Device	Tested (Factory, Site)
AutomatedLogic Corporation - S6104 Control Module MS/TP at 38400 Baud	FACTORY
Trane Company, BCU	SITE
Trane Company - Trace Summit Version 10,11,12,13	SITE
Alerton BTI	SITE
McQuay BACnet Gateway	SITE
York BACnet Gateway	SITE
Delta OWS	SITE
Reliable Controls Ethernet	SITE

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Data Types and Optional Properties Supported

FieldServer Data Type	BACnet Object Type	Optional Properties Supported
AI	Analog Input Object	Reliability, Description
AO	Analog Output Object	Reliability, Description, Max_Pres_Value, Min_Pres_Value
AV	Analog Value Object	Reliability, Description
BI	Binary Input Object	Reliability, Description, Active_Text, Inactive_Text
BO	Binary Output Object	Reliability, Description, Active_Text, Inactive_Text
BV	Binary Value Object	Reliability, Description, Active_Text, Inactive_Text
MI	Multi-state Input Object	Reliability, Description, State_Text
MO	Multi-state Output Object	Reliability, Description, State_Text
MV	Multi-state Value Object	Reliability, Description, State_Text
Device	Device Object	Location, Description, UTC Offset, Active COV Subscriptions, Database Revision
Trend Log		Description, Log_Interval
LSP	Life Safety Point Object	Description

Object Type	Optional Writable Properties
Device Object	Object_Name
Analog Input	Object_Name
Analog Output	Object_Name
Analog Value	Object_Name
Binary Input	Object_Name
Binary Output	Object_Name
Binary Value	Object_Name
Multi State Input	Object_Name
Multi State Output	Object_Name
Multi State Value	Object_Name
Notification Class Object	Object_Name
Life Safety Point	Object_Name
Trend Log	Object_Name

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FieldServer as a Client

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Present Value	Store value in Data Array location after scaling has been applied.
	Out_Of_Service	When using a Complex Data Object, the OOS property is fully supported. Return FALSE when not OOS or when using standard Data Arrays.
	Units	Returns Units as specified in the Map Descriptor.
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Priority_Array	Returns Priority_Array of Map Descriptor.
	Unsupported	This property is supported.
	Protocol_Object_Type_ Supported	This property is supported.
	Protocol_Services_ Supported	This property is supported.
	Database_Revision	This property is supported and will change if a new configuration is downloaded to the FS.
	Max_Master	This Property is supported for the BACnet MS/TP DLL option.
	Max_Info_Frames	This Property is supported for the BACnet MS/TP DLL option.
	Relinquish_Default	Returns Relinquish_Default.
	Mode	This property is supported.
	Tracking_Value	This property is supported.
Read Property Multiple	As for Read Property	Transactions can be defined to read multiple objects and properties in a single ReadPropertyMultiple operation.
	ALL	Read Property Multiple of the ALL property is NOT supported.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Present Value	Send value in Data Array location after scaling has been applied.
	Mode	This property is supported.
	Tracking_Value	This property is supported.
Write Property Multiple	Present Value	Send value in Data Array location after scaling has been applied.

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FieldServer as a Server

Device Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	Returns Object_ID with Node_ID as Object Instance.
	Object_Name	Returns Node Name.
	Object_Type	Returns Device Object type.
	System_Status	Returns Normal.
	Vendor_Name	Returns FieldServer Technologies.
	Vendor_Identifier	Returns 37.
	Model_Name	Returns FieldServer model.
	Firmware_revision	Returns Kernel version.
	Application_sw_version	Returns DCC version.
	Protocol_Version	Returns version 1.
	Protocol_Revision	Returns revision 16.
	Protocol_Services_Supported	This property is supported.
	Protocol_Object_Type_ Supported	This property is supported.
	Protocol_Object_List	Returns a list of objects defined in the FieldServer.
	Segmentation_Supported	Returns segmentation NOT supported.
	APDU_Timeout	Returns the value as defined by the Node's "Timeout" parameter.
	APDU_Retries.	Returns the value as defined by the Node's "Retries" parameter.
	Max_APDU_Length_Accep-ted	For **FieldServers**, the MAX APDU Length for BACnet MS/TP is 480 bytes and for BACnet/IP or BACnet Ethernet 1497 bytes. For **ProtoCessors**, the MAX APDU Length for BACnet MS/TP is 206 bytes and for BACnet/IP BACnet Ethernet 1497 bytes.
	Device_Address_Bindings	Returns an empty list.
	Max_Master	This Property is supported for the BACnet MS/TP DLL option.
	Max_Info_Frames	This Property is supported for the BACnet MS/TP DLL option.
	Description	This property is supported.
	Database_Revision	This property is supported and will change if a new configuration is downloaded to the FieldServer.
	Property_List	This property is supported.
Read Property Mul-tiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Max_Master	These properties are supported for the BACnet MS/TP DLL option.
	Max_Info_Frames	
	Object_Name	
Write Property Mul-tiple	Max_Master	
	Max_Info_Frames	

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Analog Input Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Units	Returns Units as specified in the Map Descriptor.
	Property_List	This property is supported.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
	Object_Name	Sets Object_Name.
Write Property Multiple	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Analog Output Object and Analog Value Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Units	Returns Units as specified in the Map Descriptor.
	Property_List	This property is supported.
	Priority_Array	Returns Priority_Array of Map Descriptor.
	Relinquish_Default	Returns Relinquish_Default.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Present_Value	When using Complex Data Objects and OOS is TRUE, the write won't cause a write-through to the Server side. If the OOS is FALSE or when using standard Data Arrays, writes always perform a write-through to the Server side.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Binary Input Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Property_List	This property is supported.
	Polarity	Always returns “Normal”.
	Active_Text	Returns Active Text as specified on the Map Descriptor.
	Inactive_Text	Returns Inactive Text as specified on the Map Descriptor.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Binary Output Object and Binary Value Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Property_List	This property is supported.
	Relinquish_Default	Returns current Relinquish_Default.
	Active_Text	Returns Active Text as specified on the Map Descriptor.
	Inactive_Text	Returns Inactive Text as specified on the Map Descriptor.
	Priority_Array	Returns Priority_Array of Map Descriptor.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Present_Value	When using Complex Data Objects and OOS is TRUE, the write won't cause a write-through to the downstream side. If the OOS is FALSE or when using standard Data Arrays, writes always perform a write-through to the downstream side.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Multiple State Input Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Property_List	This property is supported.
	Number_Of_State	When using a Complex Data Object, returns the number of states defined. When using Standard Data Arrays returns the value of 5.
	State_Text	When using Complex Data Objects returns the State Text strings defined. When using Standard Data Arrays, return “State_x” where “x” is the value stored in the Data_Array and could be 0 to 4.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Multi-State Output Object and Multi-State Value Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Property_List	This property is supported.
	Number_Of_State	When using a Complex Data Object, returns the number of states defined. When using Standard Data Arrays returns the value of 5.
	State_Text	When using Complex Data Objects returns the State Text strings defined. When using Standard Data Arrays, return “State_x” where “x” is the value stored in the Data_Array and could be 0 to 4.
	Priority_Array	Returns Priority_Array of Map Descriptor.
	Relinquish_Default	Returns Relinquish_Default.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Present_Value	When using Complex Data Objects and OOS is FALSE or when using standard Data Arrays, writes will trigger a write-through operation to the Client side.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Notification Class Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Notification Class Object type.
	Notification_Class	No limitations.
	Priority	No limitations.
	Ack_Required	No limitations.
	Description	This property is supported.
	Property_List	This property is supported.
	RecipientList	No limitations.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Recipient_List	RecipientList Storage is non-volatile.
Write Property Multiple	Recipient_List	
AddList	RecipientList	Used to subscribe to Alarm and Event Notifications.

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Life Safety Point Object

Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns Map Descriptor Name.
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns value in Data_Array after scaling has been applied.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays.
	Description	This property is supported.
	Property_List	This property is supported.
	Mode	Operating Mode. Only 'ON' mode is supported.
	Accepted_Modes	List of Operating Modes
	Silenced	Represents silenced state, but only "All Silenced" supported.
	Operation_Expected	List of LifeSafety Operations, only 'None' operation is supported.
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	**Properties Supported**	**Comments and Limitations**
Write Property	Object_Name	Sets Object_Name.
	Mode	Operating Mode. Only 'ON' mode is supported.
	Operation_Expected	List of LifeSafety Operations, only 'None' operation is supported.
	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
Write Property Multiple	Present_Value	
Data Sharing Operations Supported	**Properties Supported**	**Comments and Limitations**
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
Alarm and Event Operations Supported	**Properties Supported**	**Comments and Limitations**
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm		No limitations.

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Unsupported Functions and Data Types

BACnet Object Type not Supported
Averaging Object
Calendar Object
Command Object
Event Enrollment Object
File Object
Group Object
Life Safety Zone Object
Loop Object
Notification Class Object unsupported on Client side only
Program Object
Schedule Object
BACnet Services not Supported
Alarm and Event Services unsupported on Client side only
File Access Services
Virtual Terminal Services
COV and EventNotification services are not supported for BACnet MS/TP on the ProtoCessor
For BACnet MS/TP and PTP, COV services are disabled by default and may be enabled by setting the Node_Option property to COV_Enable in the Nodes section configuration file.

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