

FieldServer ENOTE  
**BACnet Explorer Functions**



Revision: 1.A

Print Spec: 10000005389 (F)



## fieldserver

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## 1 Description

The embedded BACnet Explorer allows installers to validate that their equipment is working on BACnet without having to ask the BMS integrator to test the unit.

The BACnet Explorer functions can be accessed from the following FieldServer units:

- BACnet Router
- BACnet IoT Gateways
- Optional for OEM products - ProtoNode, ProtoAir, ProtoCarrier, ProtoCessor

## 2 BACnet Explorer Functions

The instructions that follow assume that the FieldServer is installed and the Web Configurator has been brought up in the local computer's browser.

- To access the embedded BACnet Explorer click the BACnet Explorer tab or go to the FS-GUI and click the BACnet Explorer button.

MSA FieldServer EZ Gateway Modbus to BACnet

Configuration

Gateway

Connections

DeviceProxy™

Device Profiles

Bacnet Explorer

Settings

FieldServer Manager

About

Logout

General

Title: Modbus to BACnet EZ Gateway

Save Restart

Reload Defaults

Status

Gateway is online

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MSA BACnet Explorer FieldServer Manager

DCC000 QS.CSV v1.00a

Status Settings Info Stats

Status

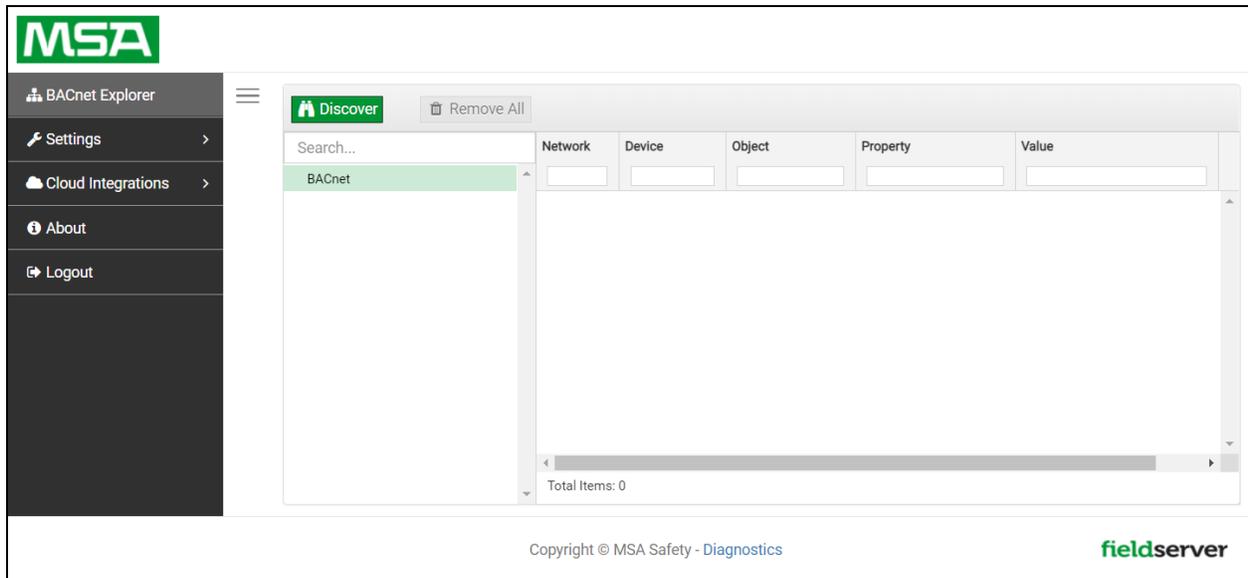
Name	Value
Driver_Configuration	DCC000
DCC_Version	V6.05p (A)
Kernel_Version	V6.51c (D)
Release_Status	Normal
Build_Revision	6.1.3
Build_Date	2021-09-08 13:12:43 +0200
BIOS_Version	4.8.0
FieldServer_Model	FPC-N54
Serial_Number	1929600190VZL
Carrier Type	-
Data_Points_Used	220
Data_Points_Max	1500

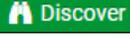
Home HELP (?) Contact Us System Restart System Reboot System Time Synchron Reset Cycle Times Logout fieldserver

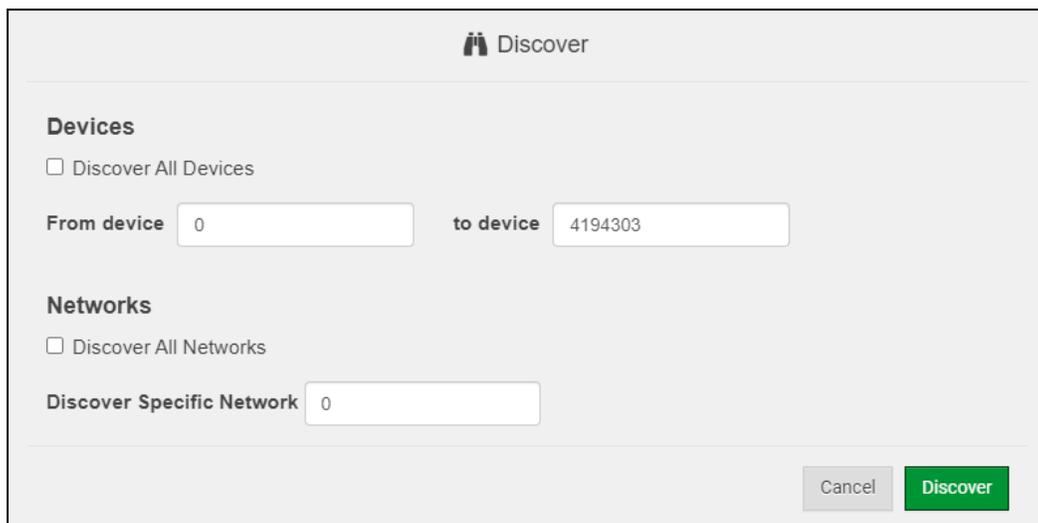
**NOTE:** For BACnet/IP, ensure the BACnet Router is on the BACnet/IP network subnet to configure BBMD.

## 2.1 Discover the Device List

- From the BACnet Explorer landing page, click on the BACnet Explorer tab on the left side of the screen to go to the BACnet Explorer page.

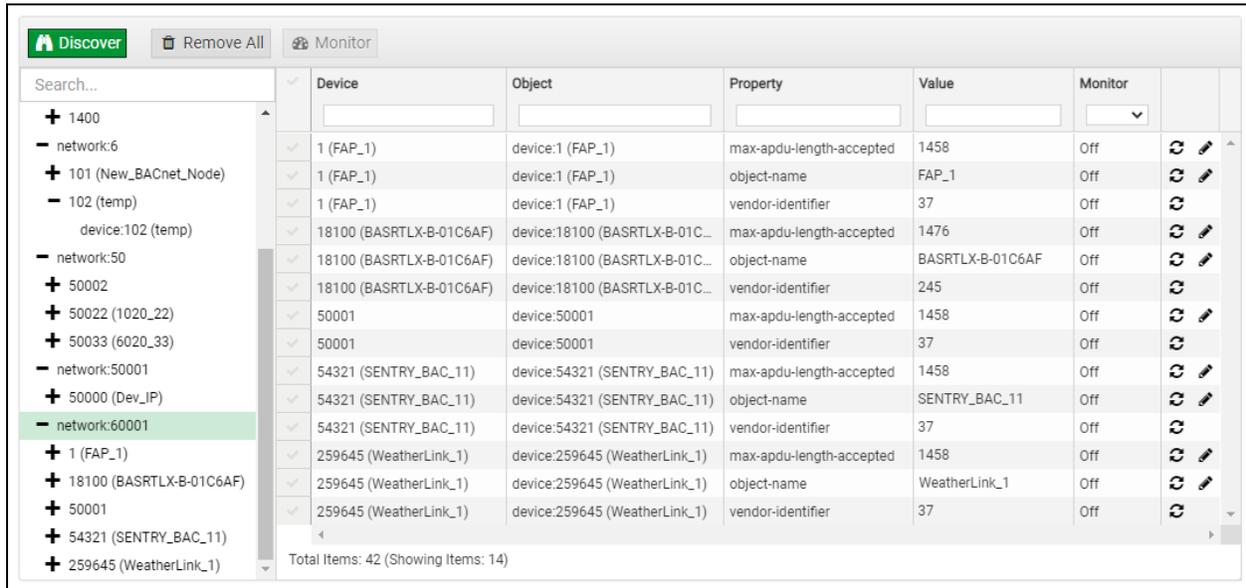


- Find devices connected to the same subnet as the gateway by clicking the Discover button  (binocular icon).
- This opens the Discover window, click the checkboxes next to the desired settings and click Discover to start the search.



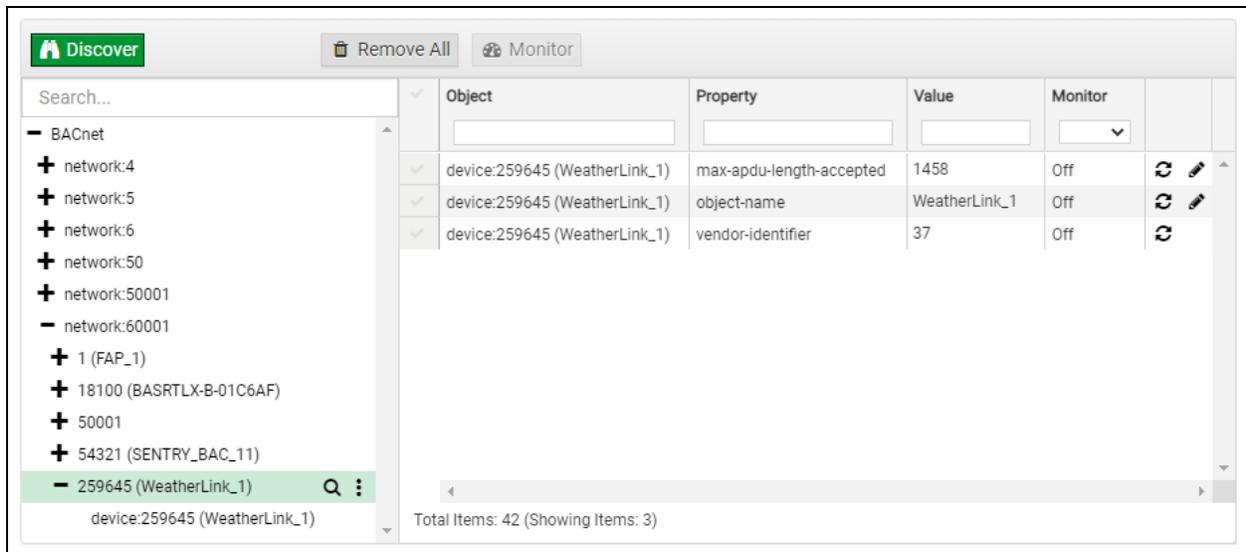
**NOTE:** The “Discover All Devices” or “Discover All Networks” checkboxes must be unchecked to search for a specific device range or network.

Allow the devices to populate before interacting with the device list for optimal performance. Any discovery or explore process will cause a green message to appear in the upper right corner of the browser to confirm that the action is complete.

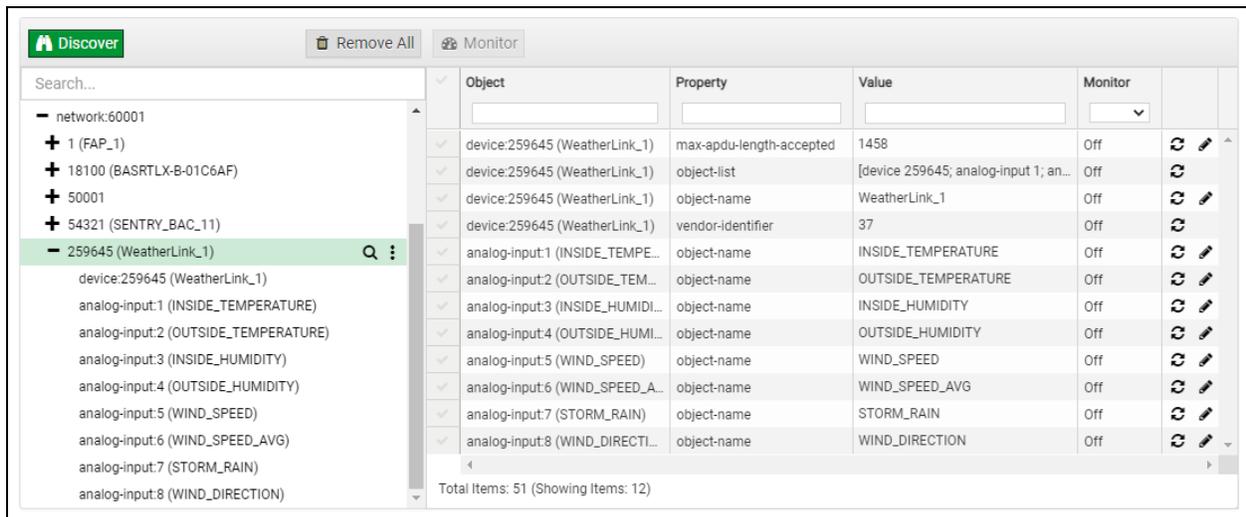


## 2.2 View Device Details and Explore Points/Parameters

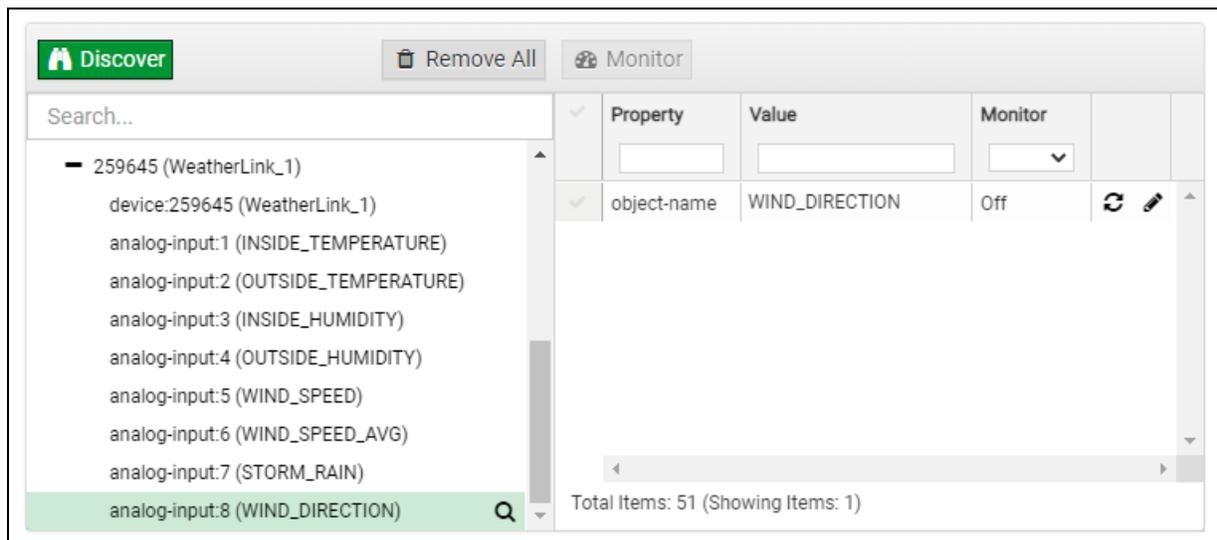
- To view the device details, click the blue plus sign (+) next to the desired device in the list.
  - This will show only some of the device properties for the selected aspect of a device



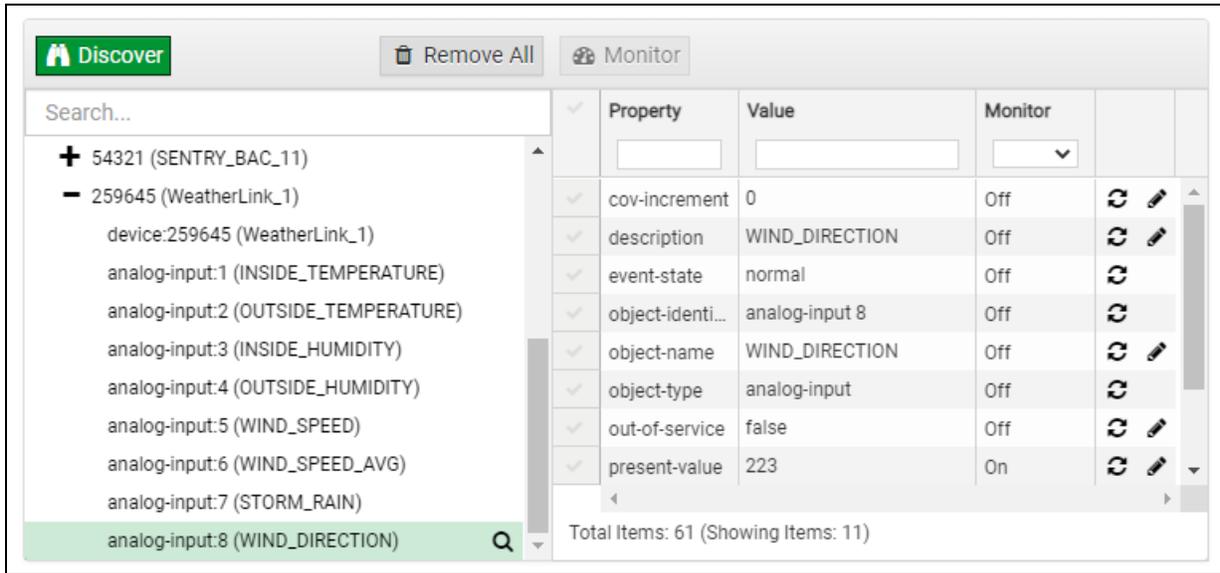
- To view the full details of a device, highlight the device directly (in the image below – “1991 WeatherLink\_1”) and click the Explore button (  ) that appears to the right of the highlighted device as a magnifying glass icon or double-click the highlighted device.



- Now additional device details are viewable; however, the device can be explored even further
- Click on one of the device details.



- Then click on the Explore button that appears or double-click the device object.



A full list of the device details will appear on the right side window. If changes are expected since the last explore, simply press the Refresh button (🔄) that appears to right of individual properties to refresh.

**NOTE: The Gateway Search Bar will find devices based on their Device ID.**

**NOTE: The Gateway Discovery Tree has 3 levels that correspond to the following.**

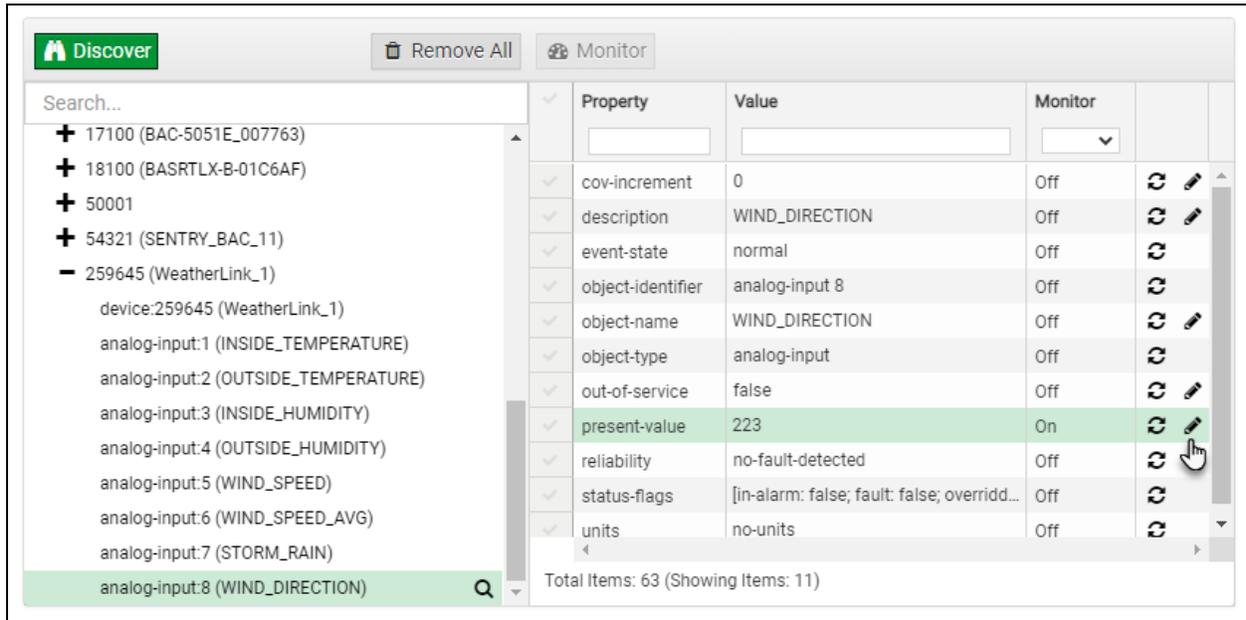
- Network number
  - Device
  - Device object

## 2.2.1 Edit the Present Value Field

The only recommended field to edit is the device's present value field.

**NOTE:** Other BACnet properties are editable (such as object name, object description, etc.); however, this is not recommended because the gateway is not a Building Management System (BMS).

- To edit the present value, select it in the property listings.



Property	Value	Monitor	
cov-increment	0	Off	🔄 ✎
description	WIND_DIRECTION	Off	🔄 ✎
event-state	normal	Off	🔄 ✎
object-identifier	analog-input 8	Off	🔄 ✎
object-name	WIND_DIRECTION	Off	🔄 ✎
object-type	analog-input	Off	🔄 ✎
out-of-service	false	Off	🔄 ✎
present-value	223	On	🔄 ✎
reliability	no-fault-detected	Off	🔄 ✎
status-flags	[in-alarm: false; fault: false; overrid...	Off	🔄 ✎
units	no-units	Off	🔄 ✎

- Then click the Write button (✎) on the right of the property to bring up the Write Property window.



Write Property

present-value 2

Cancel Write

- Enter the appropriate change and click the Write button.

The window will close. When the BACnet Explorer page appears, the present value will be changed as specified.

The screenshot shows the BACnet Explorer interface. On the left, a tree view lists discovered devices under the 'Discover' tab. The selected device is 'analog-input:8 (WIND\_DIRECTION)'. The main pane displays a table of properties for this device.

Property	Value	Monitor		
cov-increment	0	Off	↻	✎
description	WIND_DIRECTION	Off	↻	✎
event-state	normal	Off	↻	
object-identifier	analog-input 8	Off	↻	
object-name	WIND_DIRECTION	Off	↻	✎
object-type	analog-input	Off	↻	
out-of-service	false	Off	↻	✎
present-value	2	On	↻	✎
reliability	no-fault-detected	Off	↻	
status-flags	[in-alarm: false; fault: false; overridd...	Off	↻	
units	no-units	Off	↻	

Total Items: 63 (Showing Items: 11)