

FieldServer Toolbox

Sierra Monitor has introduced the latest update to the user interface utility called FieldServer Toolbox. This updated utility is available on the web for all FieldServer Gateways¹ and enables users to easily:

1. Search the local network for any connected FieldServers.
2. Select the FieldServer and launch either the current user-friendly browser-based interface to help set-up, configure and diagnose the FieldServer.

The following information is viewable for connected FieldServers found by the FieldServer Toolbox:

DEVICES – Lists the device name.

IP ADDRESS – Shows the IP Address of the listed device.

MAC ADDRESS – Shows the MAC Address of the listed device.

FAVORITE – Click to mark this as a favorite device. The device information will show whether the device is found or not.

CONNECTIVITY – The light shows the level of connectivity for the device. Green is full connectivity. Yellow is limited connectivity. Blue is limited IP connectivity. And red is connectivity lost.

BUTTONS – These buttons allow multiple functions. The **Connect** button jumping straight into a device’s FS-GUI or Web Configurator page via default Internet browser. The **Gear** button allows configuration of the device’s network settings (IP Address, Netmask, DNS, etc.). The **Heartbeat** button allows taking diagnostics for the device.

DEVICES	IP ADDRESS	MAC ADDRESS	FAVORITE	CONNECTIVITY
KNX to BACnet EZ Gateway	192.168.3.12	00:50:4E:11:6C:58	★	●
Modbus to BACnet EZ Gateway	192.168.3.17	00:50:4E:11:6C:57	★	●
CN9999 HP Demo v1.00a	192.168.3.28	00:50:4E:60:00:07	★	●
BACnet Explorer	192.168.3.64	00:50:4E:60:00:2E	★	●
DCC104 QS.CSV v4.01b	192.168.3.69	00:50:4E:60:01:C3	★	●
Title Pending (User Device)	192.168.3.99	Pending (192.168.3.99)	★	●
EZ Gateway M-Bus	192.168.3.101	00:50:4E:11:3A:26	★	●
OZW Gateway	192.168.3.107	00:50:4E:10:06:DE	★	●
FieldPoP Demo - Boiler List	192.168.3.121	00:50:4E:11:81:B0	★	●
FieldPoP Demo - Rick's Casino	192.168.3.126	00:50:4E:11:81:A1	★	●
FieldServer BACnet Router	192.168.3.150	00:50:4E:11:90:DA	★	●
FSE7253 (FS02) Rev 1.50	192.168.3.153	00:50:4E:10:14:C9	★	●
FieldServer BACnet Router	192.168.3.160	00:50:4E:60:00:32	★	●
DCC085 QS.CSV v4.10c	192.168.3.201	00:50:4E:30:05:16	★	●
BACnet Explorer	192.168.3.220	00:50:4E:60:00:A5	★	●
OZW Gateway	192.168.3.223	00:50:4E:12:21:1A	★	●
WeatherLink	192.168.3.241	00:50:4E:11:4A:58	★	●

NOTE: For detailed descriptions on any of these items or additional information check the help menu.

Download the FS Toolbox

www.sierramonitor.com/customer-care/resource-center?filters=software-downloads

¹ FieldCast is not supported by the FS Toolbox.

FieldServer Graphical User Interface (FS-GUI)

Sierra Monitor's FieldServer Gateways² come with the web-based FS-GUI making easy to check the status, configure and diagnose your FieldServer. Information such as network settings, node information, map descriptors, and transfer of files. The web browser interface can even be set up with your own logo and background if desired.

Each of the pages on the FS-GUI includes specific FieldServer information and features described below.

NOTE: Click the Help button at the bottom of any page to view the Keyboard Shortcut and General Navigation list.

Home

Allows the user to check the status of the FieldServer gateway, including the configuration code, version, memory, gateway type and more. Under "Settings" the user has access to important network information.

NOTE: The "System Restart" button at the bottom of the page is used to restart the FieldServer gateway (only on the Home page).

The screenshot shows the FS-GUI interface for gateway PG13000015. The main content area displays a table of system parameters and their values. The table is titled 'Status' and has columns for 'Name' and 'Value'. The parameters listed include Driver_Configuration, DCC_Version, Kernel_Version, Release_Status, Build_Revision, Build_Date, BIOS_Version, FieldServer_Model, Carrier_Type, Data_Points_Used, Data_Points_Max, Application Memory (Memory_Percent_Used, Memory_Used, Memory_Available), Avg_Cycle_Time, Min_Cycle_Time, Max_Cycle_Time, Cache_Usage_(RDB), Cache_Usage_(WRB), Last_Time_Rebooted, FieldServer_Time, Hot_Standby_Status, Hot_Standby_Timer, and Cycles_Now.

Name	Value
Driver_Configuration	DCC757
DCC_Version	V6.05e (A)
Kernel_Version	V6.17g (A)
Release_Status	Normal
Build_Revision	134
Build_Date	Tue Mar 31 10:55:45 2015 +0200
BIOS_Version	2.3.3
FieldServer_Model	FS-Q5-1010
Carrier_Type	485 Carrier
Data_Points_Used	156
Data_Points_Max	250
Application Memory:	
Memory_Percent_Used	1.04%
Memory_Used	1,039 kB
Memory_Available	99,619 kB
Avg_Cycle_Time	1
Min_Cycle_Time	0
Max_Cycle_Time	114
Cache_Usage_(RDB)	0
Cache_Usage_(WRB)	0
Last_Time_Rebooted	Fri Apr 3 15:46:52 2015
FieldServer_Time	Fri Apr 3 15:55:33 2015
Hot_Standby_Status	ACTIVE
Hot_Standby_Timer	0.000%
Cycles_Now	511

Navigation buttons at the bottom include: Home, HELP (F1), Contact Us, System Restart, System Time Synch, and Reset Cycle Times.

About

Allows the user to check current firmware of the FieldServer gateway plus version identification of the interface and skin, plus contact information. Skin is either the default FieldServer template or it can be a specific template specified by the OEM customer.

Setup

Select "File Transfer" to upload files to the FieldServer gateway including configuration files, firmware upgrades and more. Select "Network Settings" to access and modify network connection.

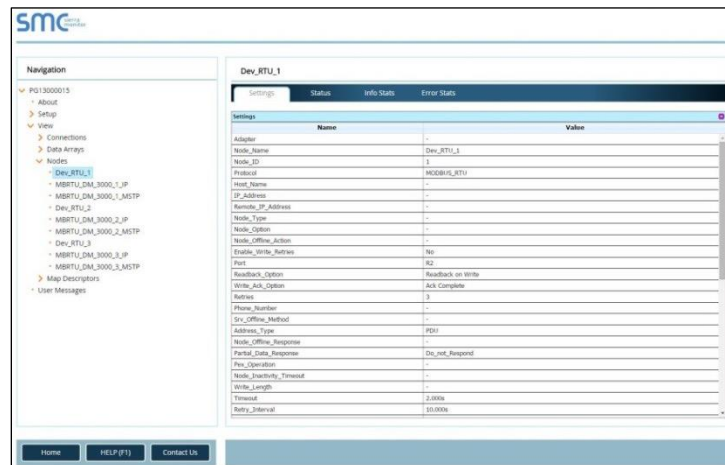
² FieldCast does not include FS-GUI.

View

Select "Connections" to view activity of devices connected to the FieldServer gateway ports.

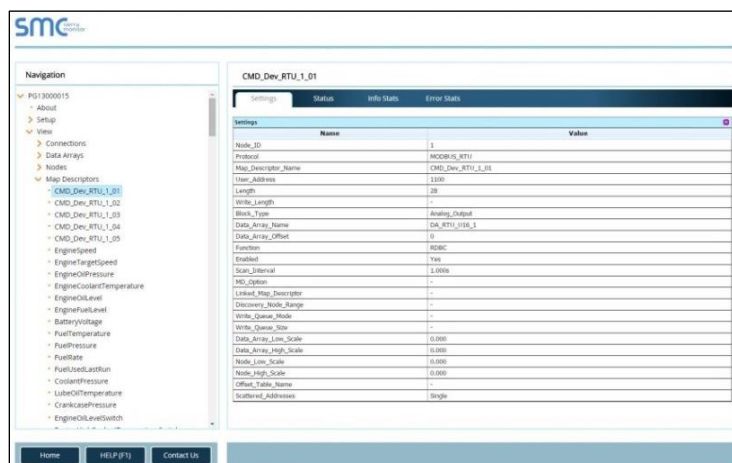
Select "Data Arrays" to view the Data Arrays setup in the gateway and the user can click on the specific Data Array for detailed information.

Select "Nodes" to view the Nodes setup in the gateway and the user can click on the specific node for Node detailed information. On the Nodes details page tabs across the top allow access to settings, status, info stats and error stats.



Name	Value
Adapter	-
Node_Name	Dev_RTU_1
Node_ID	1
Protocol	MODBUS_RTU
Host_Name	-
IP_Address	-
Remote_IP_Address	-
Node_Type	-
Node_Option	-
Node_Offline_Action	-
Enable_Write_Batteries	No
Port	82
Readback_Option	Readback on Write
Write_Ack_Option	Ack Complete
Batteries	3
Phone_Number	-
Srv_Offline_Method	-
Address_Type	FDI
Node_Offline_Response	-
Periodic_State_Response	Do not Respond
Flex_Operation	-
Node_Healthy_Timeout	-
Write_Length	-
Timeout	2.000s
Battery_Interval	60.000s

Select "Map Descriptors" to view the Map Descriptors setup in the gateway and clicking on the specific map descriptor will access the Map Descriptors detail page. Again, tabs across the top of the page provide quick access to settings, status, info stats, and error stats.



Name	Value
Node_ID	1
Protocol	MODBUS_RTU
Map_Descriptor_Name	CMD_Dev_RTU_1_01
Map_Address	1000
Length	28
Write_Length	-
Block_Type	Analog_Output
Data_Array_Name	OK_RTU_1000_1
Data_Array_Offset	0
Function	06BC
Enabled	Yes
Scan_Interval	2.000s
MD_Option	-
Linked_Map_Descriptor	-
Discovery_Node_Range	-
Write_Queue_Size	-
Data_Array_Low_Scale	0.000
Data_Array_High_Scale	0.000
Node_Low_Scale	0.000
Node_High_Scale	0.000
Offset_Table_Name	-
Scalereal_Address	Single

User Messages

Allows access to error messages, info messages and driver messages.