

1 DESCRIPTION

Due to the nature of the Notifier drivers and the adaptability of the FieldServer configuration of the Notifier side of the FieldServer is quite simple. The Notifier driver will always function as a Server, thus the primary purpose is for the Notifier Fire Alarm Panel to write information to the FieldServer to be passed on to another device. When the FieldServer is used with the Notifier INA additional Data Arrays need to be configured for each Panel connected to the INA.. The operator must configure the Data Arrays with Node ID's with addresses of station 1,2, er=tc. Following is an example that is in the default Notifier. The driver is capable of parsing and storing zone alarm and trouble states. They are latched and cleared when a Network System Reset is received.

The **Status Bits** is the data string coming from Notifier to set or clear any one of 8209 bits of information in the following order:

Parameter	Bits
Detector Alarms	0 – 1023
Detector Alarms Unacknowledged	1024 – 2047
Module Alarms	2048 – 3071
Module Alarms Unacknowledged	3071 – 4095
Detector Trouble	4096 – 5119
Detector Trouble Unacknowledged	5120 – 6143
Module Trouble	6144 – 7167
Module Trouble Unacknowledged	7168 – 8191
Common Bits	8192 – 8207
Control Bits	8208 - 8209
Reserved for future use.	8210 - 8299
Zone Alarms	8220 – 8499
Zone Troubles	8500 - 8699
'Level' Alarms	8800-9099
'Level' Troubles	9100-9399

The **Control Bits** are as follows:

Parameter	Bit
Ack/Step	8208
System Reset	8209

The **TAC-Americas heartbeat** bit:

Parameter	Bit
TAC-Americas Heartbeat	8210

The **Common Bits** are as follows:

Parameter	Bit
Detector Alarms	8192
Detector Alarms Unacknowledged	8193
Module Alarms	8194
Module Alarms Unacknowledged	8195
Detector Trouble	8196
Detector Trouble Unacknowledged	8197
Module Trouble	8198
Module Trouble Unacknowledged	8199
Alarms	8200
Alarms Unacknowledged	8201
Trouble	8202
Trouble Unacknowledged	8203
Supervise Sent	8204
Ignored Message	8205
All Systems Normal	8206
ESC X NUL	8207

Text_Regs - This is the text string coming from Notifier that matches the information on the display of the 1010 or 2020 and contains two sets 400 16-bit registers which is equivalent to 10 lines by 80 characters for each set.

Supervise – This is a 2-character string from Notifier providing a “supervise” signal to the Notifier Fire Alarm Panel when hot standby is alive. It also appears to the Client as 2 single coil if it is being sent.

When the customer receives a FieldServer with the Notifier driver installed, the Data Array is already configured and ready to use with the 1010 or 2020. The customer only needs to configure the Server side of the FieldServer, the interface to the non-Notifier device. As an example, if the user were connecting to a device using Modbus RTU communications protocol, they would configure the interface as if the FieldServer were another Modbus PLC. They would have to configure the Modbus device to identify where to find the necessary Notifier information. Thus, they would find the alarm for loop 1 detector 5 in the Status_Bits Data Array at address number 105

Level Status – ‘Level’ Alarms are only set when ‘ALARM’ messages are received. ‘ACTIVE’ messages are treated as troubles for the purpose of ‘Level’ status.

Should you use the Notifier INA driver or the Notifier NFA/1010/2020 Driver?

Use the INA driver if your FieldServer is connected to an INA device and in turn, the Notifier field panels are connected to the INA which serves as a gateway. One INA panel can be connected to each FieldServer port.

Use the NFA(/1010/2020) driver if your Fieldserver is connected to NFA/1010/2020 Panel directly. One panel can be connected to each FieldServer port.