



# Protec Cirrus Hybrid and Propoint Plus Driver Manual FS-8705-57

Chipkin - Enabling Integration

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## 1 Protec Driver Description

This driver is suitable for **Protec Cirrus Hybrid** and **Propoint Plus** panels.

The Driver can read and write data, change settings and issue commands to the Protec panels. A single gateway can connect to multiple Protec panels on a RS485 bus using this driver. Each FieldServer gateway has 2x RS485 ports and thus two trunks of Protec panels can be monitored by one FieldServer Gateway.

The data that is read will be cached for serving via a 2<sup>nd</sup> protocol such as DNP3 to Cimplicity or Modbus / BACnet for a building management system. Any of the over 140 protocols in the gateway library may be connected to the Protec Driver.

The gateway requires minimal configuration and has an **auto discovery** process and therefore can be considered a plug and play component of a system, in that it is ready to operate out of the box with the default configuration.

A rudimentary web page is provided for testing.

### Max Nodes Supported

FIELDSEVER MODE	NODES	COMMENTS
Client	Number of Protec panels limitation is 98	One Gateway can connect to <b>Protec Cirrus Hybrid</b> and <b>Protec Propoint Plus</b> on a RS485 trunk, provided each has a unique NodeID.
Server	0	This driver cannot be used to simulate a Protec Device

## 2 Driver Scope of Supply

### 2.1 Supplied by FieldServer Technologies for this driver

FIELDSEVER TECHNOLOGIES PART #	DESCRIPTION
-	No specific cables are shipped with this driver.
-	
FS-8705-57	Driver Manual.

### 2.2 Provided by the Supplier of 3<sup>rd</sup> Party Equipment

#### 2.2.1 Required 3<sup>rd</sup> Party Hardware

PART #	DESCRIPTION
None	

#### 2.2.2 Required 3<sup>rd</sup> Party Software

None known.

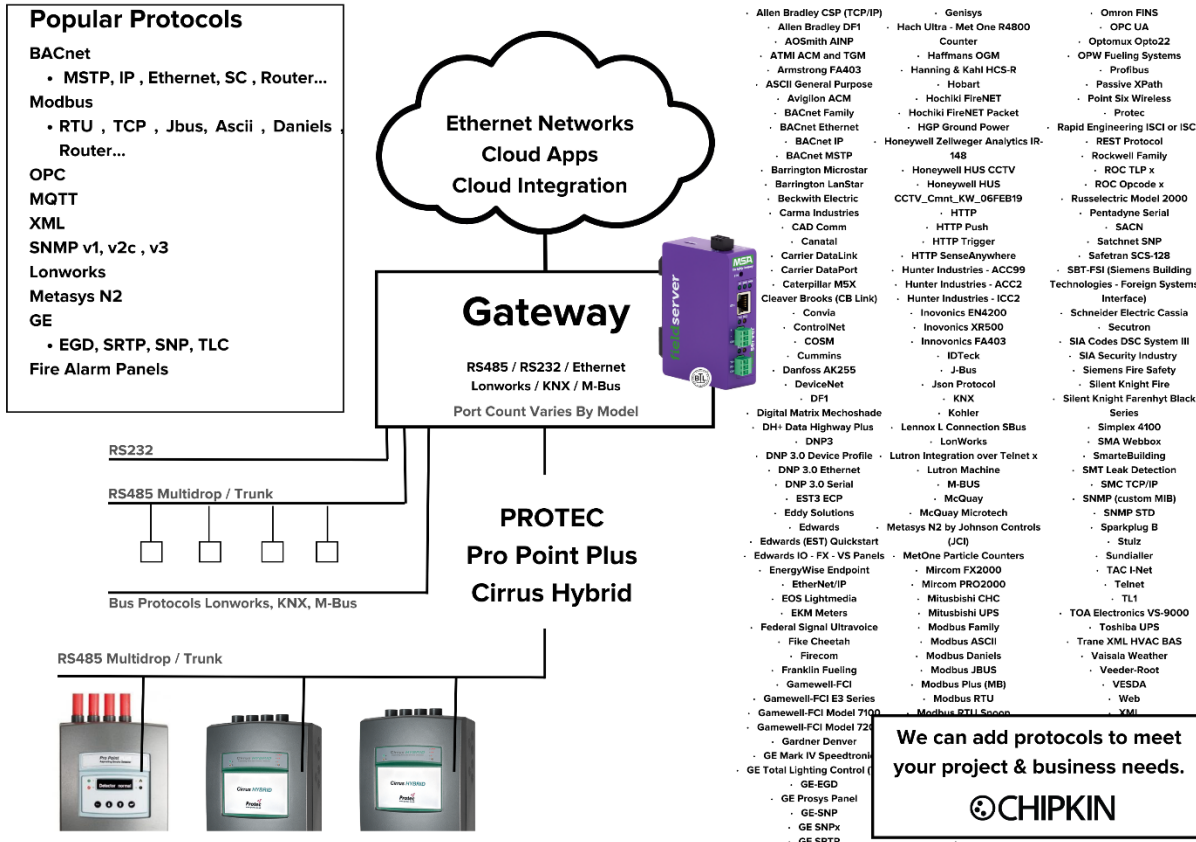
#### 2.2.3 Required 3<sup>rd</sup> Party Configuration

None known.

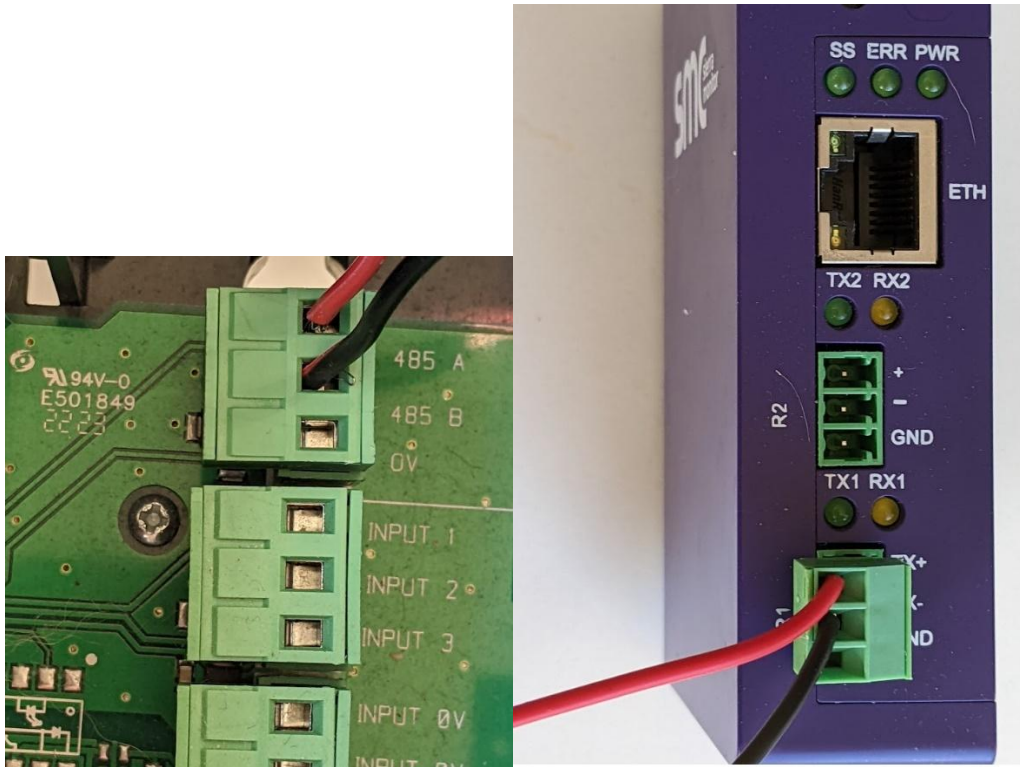
### 3 Hardware Connections

#### 3.1 Typical Block Diagram

Multiple upstream protocols and connection supported. See list of FieldServer Drivers.



### 3.2 Hardware Connection Tips / Hints



RS485 is meant to be carried on a twisted pair with a drain wire connected to the shield.

Daisy chain the Cirrus Hybrid or PointPlus's using a RS485 cable as per the manufacturers directions.

## 4 Configuring the FieldServer as a Protec Client

For a detailed discussion on FieldServer configuration, please refer to the FieldServer Configuration Manual.

Google : [chipkin fieldserver configuration manual](#)

The information that follows describes how to expand upon the factory defaults provided in the configuration files included with the FieldServer (See “.csv” sample files provided with the FS).

This section documents and describes the parameters necessary for configuring the FieldServer to communicate with a Comput25 controller.

### 4.1 Data Arrays/Descriptors

The configuration file tells the FieldServer about its interfaces, and the routing of data required. In order to enable the gateway for Protec Driver communications, the driver independent FieldServer buffers need to be declared in the “Data Arrays” section, the destination device addresses need to be declared in the “Client Side Nodes” section, and the data required from the servers needs to be mapped in the “Client Side Map Descriptors” section. Details on how to do this can be found below.

Note that in the tables, \* indicates an optional parameter, with the bold legal value being the default.

SECTION TITLE		
Data_Arrays		
COLUMN TITLE	FUNCTION	LEGAL VALUES
Data_Array_Name	Provide name for Data Array	Up to 15 alphanumeric characters
Data_Array_Format	Provide data format. Each Data Array can only take on one format.	Float, Bit, UInt16, UInt32, SInt16, Packed_Bit, Byte, Packed_Byte, Swapped_Byte
Data_Array_Length	Number of Data Objects. Must be larger than the data storage area required by the Map Descriptors for the data being placed in this array.	1-10,000

#### Example

```
// Data Arrays
Data_Arrays
Data_Array_Name,          Data_Format,          Data_Array_Length,

Dev03_FLT,                UNT16,                200
```



## 4.2 Client Side Connection Descriptions

Create one adapter for each Ethernet port. Each connection can only be used to connect to a single PRO2000 interface/port.

SECTION TITLE		
Adapters		
COLUMN TITLE	FUNCTION	LEGAL VALUES
Connections	Specify which serial port the device is connected to the gateway	R1, R2
Protocol	Specify protocol used	Protec
Protec_Token_Timeout	If the token stops passing then this timer is used to restart the token	Suggest 1000secs
Protec_MaxNode	During autoconfig and discovery (performed each time the Fieldserver is restarted.) this parameter is used to limit how many panels can be detected.	<b>Eg 10</b> <b>During discovery, the gateway will try and find node 1-10 and will ignore node number &gt; 10</b>
Protec_Resynch_option	When a Resynch Request is sent to the panels this is what action the driver will take just prior to sending the Resynch.  The Panels do not report when faults are cleared. This is how this driver deals with the problem – by asking it to re-report all active faults / Fire Status	0 : Fault and Fire DA's will not cleared  1: Fire DA's will not cleared  2:Fault DA's will not cleared  3 : Fault and Fire DA's Cleared

**Example**

Connections

Port , Baud , Parity , Data\_Bits , Stop\_Bits , Protocol , poll\_delay , timeout , ic\_timeout , Protec\_MaxNode , Protec-Token\_Timeout

R1 ,19200 , None , 8 , 1 , Protec , 0.01secs , 2.35secs , 0.5secs , 10 , 1000s

### 4.3 Client Side Node Descriptors

Create one Node per Protec Controller.

SECTION TITLE		
Nodes		
COLUMN TITLE	FUNCTION	LEGAL VALUES
Node_Name	Provide name for node	Up to 32 alphanumeric characters
Node_ID	Node ID of Protec Panel	Whole Numbers 0,1,2,...
Protocol	Specify protocol used	Protec
Adapter	Specify which network port the device is connected to the gateway	N1.N1

**Example:**

```

Nodes

Node_name , Node_ID, Protocol , Port , Retry_Interval , Recovery_Interval

Cirrus_01 , 1 , Protec , R1 , 0.1secs , 0.1secs
    
```

The Retry and Recovery Interval are set to low numbers during testing – it saves waiting times

Default values are 10secs and 30secs

The idea is this – If a node has gone offline then one would be wasting bandwidth sending it a message and waiting for a timeout. So When there is no response, the driver waits 10 secs (retry\_interval) and tries again. It does this 3 times. If there is still no response it waits 30 secs ( recovery\_interval) before it tries. It keep trying at this interval.

#### 4.4 Client Side Map Descriptors

##### 4.4.1 FieldServer Related Map Descriptor Parameters

COLUMN TITLE	FUNCTION	LEGAL VALUES
Map_Descriptor_Name	Name of this Map Descriptor	Up to 32 alphanumeric characters
Data_Array_Name	Name of Data Array where data is to be stored in the FieldServer	One of the Data Array names from "Data Array" section above
Data_Array_Offset	Starting location in Data Array	0 to maximum specified in "Data Array" section above
Function	Function of Client Map Descriptor.	RDBC, ARB, WRBX, WRBC

##### 4.4.2 Driver Related Map Descriptor Parameters

COLUMN TITLE	FUNCTION	LEGAL VALUES
Node_Name	Name of Node to fetch data from	One of the node names specified in "Client Node Descriptor" above
Data_Type	This commonly used parameter is not used by this driver.	
Length	Length of Map Descriptor Reserves space in the Data Array.	1
Address	This commonly used FieldServer parameter is not used by this protocol.	
ProtecCMD	The Protec Command / Services to be executed. For a complete list see section 4.4.3	
ProtecDataType	Must be specified when using 'Get Data'. Does not need to be provided for all other services. For a list see section 4.4.5	
ProtecdBConstant	Some commands sent to the Panel use data set by this parameter. Eg 'Clear Log' is triggered by writing a value to DA Offset[0] but the value actually sent is the value specified by this parameter. In this example - 1 = Clear historic graphs, 2 = Clear event log Rx	

---

ProtecDOW	Some ProtecDataType require the day of the week to be specified	
-----------	---	--

4.4.3 Supported Services

COLUMN	FUNCTION	DESCRIPTION	NOTES
22	Discover Does not result in a new configuration using the discovered panels. Rather it display information on the 'Combined Messages'	'ProtecDataType' is not specified for this service	
33	Discover, generate new CSV and then restarts to apply the new config	'ProtecDataType' is not specified for this service	
77	Remap The process of allocating 'Next Node' to each panel for the token passing.	'ProtecDataType' is not specified for this service When executed the Next Node debug info is printed to the combined log.	
44	Resynch All Sends an instruction to the panel = "When you get the token next please transmit all active faults and Fire events,	'ProtecDataType' is not specified for this service	
2	Silence	'ProtecDataType' is not specified for this service	
3	Read Node Text	'ProtecDataType' is not specified for this service	
6	Send Token For testing only	'ProtecDataType' is not specified for this service	
66	Token Regen This task is used to kick start the token is it stops passing.	'ProtecDataType' is not specified for this service	
8	Get Data Used to read one of the sets of data that correspond to the data type of interest	The 'ProtecDataType' <b>must</b> be specified when 'Get Data' is executed	
5	Fault	Not used. Fault Data is received by the gateway. It is stored in a Data Array with a specially reserved name. DA_Devxx_FLT , UINT16 , 1000	Where xx is the NodeID of the protec panel
10	Fire	Not used. Fault Data is received by the gateway. It is stored in a Data Array with a specially reserved name. DA_Devxx_FIRE , UINT16 , 4	Where xx is the NodeID of the protec panel

#### 4.4.4 Timing Parameters

COLUMN TITLE	FUNCTION	LEGAL VALUES
Scan_Interval	Rate at which data is polled	$\geq 0.001s$

### 4.4.5 Protec Data Types Supported

'GET DATA' data types

See Appendix B

### 4.4.6 Map Descriptor Example 1 – Read 'GET DATA' Datatypes

In this example the driver reads the Controller's Pipe Status Data for all 4 pipes. This task is executed at best every 1.0 seconds. The data read by the command is stored in the data array named "DA\_Dev03\_dt010" starting at offset zero in the array. Exactly what data is stored is dependent on the ProtecDataType.. How and what data is stored is provided in the appendices.

```
Map_Descriptors,,,,,,,,,
Map_Descriptor_Name , Data_Array_Name , Data_Array_Offset , Function , Node_Name , Scan_Interval , ProtecCMD , ProtecDataType , ProtecdBConstant , length,
,,,,,,,,,
Dev03 Pipe 1 Status , DA_Dev03_dt010 ,0, rdbc , Dev03 , 1.0s , 8 (Get Data) , 10(DATATYPE_PIPE1_STATUS) , - ,40,
Dev03 Pipe 2 Status , DA_Dev03_dt011 ,0, rdbc , Dev03 , 1.0s , 8 (Get Data) , 11(DATATYPE_PIPE2_STATUS) , - ,40,
Dev03 Pipe 3 Status , DA_Dev03_dt012 ,0, rdbc , Dev03 , 1.0s , 8 (Get Data) , 12(DATATYPE_PIPE3_STATUS) , - ,40,
Dev03 Pipe 4 Status , DA_Dev03_dt013 ,0, rdbc , Dev03 , 1.0s , 8 (Get Data) , 13(DATATYPE_PIPE3_STATUS) , - ,40,
```

Descriptive only. Not used.

Data Array and offset where data will be stored.

Read Continuously

The name of the Node.

ProtecCMD is a code used to tell the driver which Protec service / command to execute.

ProtecDataType is a code used to tell the driver which Protec data type to read.



### 4.4.7 Read 'GET DATA' Datatypes – How Data is Stored

When the 'GET DATA' command is completed data is stored in the associated data array. To configure 'other' protocol you need to know where the returned data is stored in associated data array.

An easy way to find this data is by navigating to

<http://192.168.2.101/CustomUI/plistfull.ini> (change the IP)

And looking at the BACnet Server Map Descriptors

For example: The Airflow is stored in the 8<sup>th</sup> element of the Data Array

Map\_Descriptors

Map_Descriptor_Name	, Data_Array_Name	, Data_Array_Offset	, Function	, Node_Name	, Data_Type	, Object_ID	, Property	, Units
Devxx Pipe1 Status Cloud T1	, DA_Devxx_dt010	, 1	, Server	, vDevxx	, AI	, 1	, Present_Value	, No_Units
Devxx Pipe1 Status Optical T1	, DA_Devxx_dt010	, 2	, Server	, vDevxx	, AI	, 2	, Present_Value	, No_Units
Devxx Pipe1 Status CO	, DA_Devxx_dt010	, 3	, Server	, vDevxx	, AI	, 3	, Present_Value	, No_Units
Devxx Pipe1 Status Temp. DegC	, DA_Devxx_dt010	, 4	, Server	, vDevxx	, AI	, 4	, Present_Value	, No_Units
Devxx Pipe1 Status Optical THist	, DA_Devxx_dt010	, 5	, Server	, vDevxx	, AI	, 5	, Present_Value	, No_Units
Devxx Pipe1 Status CO THist	, DA_Devxx_dt010	, 6	, Server	, vDevxx	, AI	, 6	, Present_Value	, No_Units
Devxx Pipe1 Status Temp. THist	, DA_Devxx_dt010	, 7	, Server	, vDevxx	, AI	, 7	, Present_Value	, No_Units
Devxx Pipe1 Status Airflow ms	, DA_Devxx_dt010	, 8	, Server	, vDevxx	, AI	, 8	, Present_Value	, No_Units

## 5 Configuring the FieldServer as a Protec Server

This driver cannot be used to emulate a Protec device. In other words, you cannot use this driver to make some other device appear like a Protec device.

## 6 Revision History

DATE	RESP	DRIVER VER.	DOC. REV.	COMMENT
2024Jul07	PMC	1.05aB	1	For release
2024Sep27	P<C		2	Small Changes, typos etc

## Appendix A – Supported Data Types

Yellow indicates the Data Type is supported.

Specified by setting the 'ProtecDataType' parameter of a map descriptor.

Data type number	Description
1	Read device text
2	Read text of pipe 1
3	Read text of pipe 2
4	Read text of pipe 3
5	Read text of pipe 4
6	Read text for pre-alarm
7	Read text of fire level 1
8	Read text of fire level 2
9	Read text of fire level 3
10	Read status of pipe 1
11	Read status of pipe 2
12	Read status of pipe 3
13	Read status of pipe 4
14	Log in to detector
15	Read detector time
16	Read detector fan speed
17	Write detector fan speed
18	Read/Write Ignore airflow
19	Read/Write airflow error
20	Zero airflow on pipe
21	Clear latched airflow faults
22	Write airflow fault latch on/off
23	Read/Write pipe fire latch level
24	Log out
25	Read day & night settings
26	Write day & night settings
27	Read / Write output settings
28	Read / Write output delay settings
29	Write output override
30	Read / Write input settings
31	Read / Write invert inputs setting
32	Read a page of camera url
33	Read a page of camera url
34	Read a page of camera url

35	Read a page of camera url
36	Read a page of camera url
37	Read a page of camera url
38	Read device loop serial number
39	Write ip/mask/gateway
40	Read ip/mask/gateway
41	Read current ip/mask/gateway
42	Read/Write node number
43	Write user & engineer access codes
44	Write time to detector
45	Write fire levels
46	Read fire levels
47	Read / Write zimezone on/off
48	Write unit text to device
49	Write pipe 1 text
50	Write pipe 2 text
51	Write pipe 3 text
52	Write pipe 4 text
53	Write pre-alarm text
54	Write fire 1 text
55	Write fire 2 text
56	Write fire 3 text
57	Read text site location
58	Read text site commissioned by
59	Read text site commissioned date
60	Read text site name
61	Read text site contact
62	Read text site address
63	Read text site postcode
64	Read text site phone number
65	Read text site comments
66	Read text manufacture date
67	Read text manufacture serial number
68	Read number of seconds powered
69	Read text manufacture tested by
70	AF Airflow
71	Read chamber LED commissioned / current value
72	Read commissioned chamber pressure & current pressure
73	Read current & commissioned background optical
74	Read pipe min/max values
75	Read pipe temperature

76	Read water fill average
77	Read an event from event log
78	Write text site location
79	Write text site commissioned by
80	Write text site commissioned date
81	Write text site name
82	Write text site contact
83	Write text site address
84	Write text site post code
85	Write text site phone number
86	Write text site comment
87	Write buzzer on/pff
88	Store commissioned values
89	Read info from detector
90	Write airflow high error
91	Clear event log
92	Read ProPointPLUS sensitivity
93	Write PPP Sensitivity pipe 1
94	Write PPP Sensitivity pipe 2
95	Write PPP Sensitivity pipe 3
96	Write PPP Sensitivity pipe 4
97	Read PPP Event timeout
98	Write PPP Event timeout pipe 1
99	Write PPP Event timeout pipe 2
100	Write PPP Event timeout pipe 3
101	Write PPP Event timeout pipe 4
102	Write PPP Pre-alarm level pipe 1
103	Write PPP Pre-alarm level pipe 2
104	Write PPP Pre-alarm level pipe 3
105	Write PPP Pre-alarm level pipe 4
106	Fire reset
107	Set / Read single loop address
108	Read device info.

## Appendix B – How Data is Stored.

### For all of the following:

40 bytes of data are stored in Data Array offsets 0-39. The string is null terminated.

READ DEVICE TEXT  
READ TEXT OF PIPE 1  
READ TEXT OF PIPE 2  
READ TEXT OF PIPE 3  
READ TEXT OF PIPE 4  
READ TEXT FOR PRE-ALARM  
READ TEXT OF FIRE LEVEL 1  
READ TEXT OF FIRE LEVEL 2  
READ TEXT OF FIRE LEVEL 3  
READ TEXT SITE LOCATION  
READ TEXT SITE COMMISSIONED BY  
READ TEXT SITE COMMISSIONED DATE  
READ TEXT SITE NAME  
READ TEXT SITE CONTACT  
READ TEXT SITE ADDRESS  
READ TEXT SITE POSTCODE  
READ TEXT SITE PHONE NUMBER  
READ TEXT SITE COMMENTS  
READ TEXT MANUFACTURE DATE  
READ TEXT MANUFACTURE SERIAL NUMBER  
READ NUMBER OF SECONDS POWERED  
READ TEXT MANUFACTURE TESTED BY

### For all of the following:

case READ STATUS OF PIPE 1 :

case READ STATUS OF PIPE 2 :

case READ STATUS OF PIPE 3 :

case READ STATUS OF PIPE 4 :

DA Offset [0 ] Pipe Number

DA Offset [1 ] Pipe cloud T1 (0 – 1000)

DA Offset [2 ] Pipe optical T1 (0 – 1023)

DA Offset [3 ] Pipe CO T1 (0 – 1023)

DA Offset [4 ] Pipe temperature (Temperature in Deg.C)

DA Offset [5 ] Pipe optical THist (0 – 1023)

DA Offset [6 ] Pipe CO THist (0 – 1023)

DA Offset [7 ] Pipe temperature THist (Temperature in Deg.C)

DA Offset [8 ] Pipe airflow (m/s \* 10)

DA Offset [9 ] Pipe Accepted airflow (m/s \* 10)

DA Offset [10] Pipe vanilla cloud (0 – 100)

DA Offset [11] Pipe hybrid (0 – 65535, enveloped weighted product)

DA Offset [12] Pipe min (0-1000, minimum cloud value over time period)

DA Offset [13] Pipe max (0 – 1000, maximum cloud value over time period)

DA Offset [14] Pipe T4 – 15 minutes (0 – 1000)

DA Offset [15] Cloud chamber hardware gain (0 – 63)

DA Offset [16] Pipe CFS value

DA Offset [17] Pipe flags

Bit 0 Initialising

Bit 1 Night mode

Bit 2 AFS (Airflow sensor) No optical signal

DA Offset [18] Current Prealarm threshold (0 – 1000)

DA Offset [19] Current Fire 1 threshold (0 – 1000)

DA Offset [20] Current Fire 2 threshold (0 – 1000)

DA Offset [21] Current Fire 3 threshold (0 – 1000)

DA Offset [22] Fire level (0-4)



DA Offset [23 ] Optical obscuration in db/m \* 1000

**case** READ/WRITE AIRFLOW ERROR:

DA Offset [1]            Airflow error pipe 1

DA Offset [2]            Airflow error pipe 2

DA Offset [3]            Airflow error pipe 3

DA Offset [4]            Airflow error pipe 4"

**case** READ DETECTOR TIME

DA Offset [0] READ DETECTOR TIME

DA Offset [1] Time in seconds since 1/1/1970

DA Offset [2] Access level

**case** CLEAR EVENT LOG

Trigger CMD by Storing 1 in DA Offset[0]

The value sent is set using parameter= ProtecdBConstant

**case** READ DETECTOR FAN SPEED

DA Offset [0]            Fan speed (0% - 100%)

**case** WRITE DETECTOR FAN SPEED

Trigger CMD by Storing new fan speed in DA Offset[0]

**case** READ DAY & NIGHT SETTINGS

Trigger CMD by pipe number in DA Offset[1]

Response data is stored as follows

DA Offset [0]            Pipe Number

DA Offset [1+x]        Sunday Day Hour

DA Offset [2+x]      Sunday Day Minute  
 DA Offset [3+x]      Sunday Night Hour  
 DA Offset [4+x]      Sunday Night Minute  
 Etc for Monday, Tues, Wed, Thur, Fri, Sat

Where  $x = 100 * \text{pipe number}$

Eg for Pipe 4 Tuesday Night Hour – DA Offset =  $3 * 100 + 9$

**case** READ IP/MASK/GATEWAY

Trigger by setting value of DA Offset[0]

- 0 IP Address
- 1 Network mask
- 2 Gateway

Address is stored in DA Offset[1..4]

**case** READ FIRE LEVELS

Trigger by setting the day number then the pipe number

DA Offset[0] = Pipe Number(0..3)

DA Offset[1] = Day Number (0-6)

Response Data is stored

DA Offset [1]      Pipe Number  
 DA Offset [2]      Day Number  
 DA Offset [3]      Day Time PreAlarm  
 DA Offset [4]      Day Time Fire 1  
 DA Offset [5]      Day Time Fire 2  
 DA Offset [6]      Day Time Fire 3`  
 DA Offset [7]      Night Time PreAlarm  
 DA Offset [8]      Night Time Fire 1  
 DA Offset [9]      Night Time Fire 2  
 DA Offset [10]      Night Time Fire 3`

- case** DATATYPE\_AF\_AIRFLOW
- DA Offset[0] Pipe 1 airflow
  - DA Offset[1] Pipe 2 airflow
  - DA Offset[2] Pipe 3 airflow
  - DA Offset[3] Pipe 4 airflow
  - DA Offset[4] Pipe 1 accepted airflow
  - DA Offset[5] Pipe 2 accepted airflow
  - DA Offset[6] Pipe 3 accepted airflow
  - DA Offset[7] Pipe 4 accepted airflow
- case** READ CHAMBER LED COMMISSIONED / CURRENT VALUE
- case** READ COMMISSIONED CHAMBER PRESSURE & CURRENT PRESSURE
- DA Offset[1] Commissioned chamber pressure
  - DA Offset[2] Current chamber pressur
- case** READ CURRENT & COMMISSIONED BACKGROUND OPTICAL
- DA Offset[1] Pipe number
  - DA Offset[2,3] Pipe optical background at commissioning
  - DA Offset[4,5] Current pipe optical background (THist)
- case** READ PIPE MIN/MAX VALUES
- DA Offset[1] Pipe 1 min
  - DA Offset[2] Pipe 1 max
  - DA Offset[3] Pipe 2 min
  - DA Offset[4] Pipe 2 max
  - DA Offset[5] Pipe 3 min
  - DA Offset[6] Pipe 3 max
  - DA Offset[7] Pipe 4 min
  - DA Offset[8] Pipe 4 max
- case** READ PIPE TEMPERATURE

DA Offset[1] Pipe 1 temperature

DA Offset[2] Pipe 2 temperature

DA Offset[3] Pipe 3 temperature

DA Offset[4] Pipe 4 temperature

case READ WATER FILL AVERAGE

DA Offset [1] Time in secs (UINT32)

case READ INFO FROM DETECTOR

DA Offset[1] Internal node type for pipe 1

DA Offset[2] Internal node type for pipe 2

DA Offset[3] Internal node type for pipe 3

DA Offset[4] Internal node type for pipe 4

DA Offset[5] Internal node type for cloud chamber

DA Offset[6] Internal node type for zone scanner

DA Offset[7] Internal node type for OLED display

Node types are... 1 Cloud chamber 2 HSSD (SCD Version < 1.001) 3 Pipe scanner 4 Network adapter 5  
OLED Display 6 I/O expander 7 SCD 8 Airflow sensor

case READ PROPOINTPLUS SENSITIVITY

case READ PPP EVENT TIMEOUT

DA Offset[1] Optical sensitivity pipe 1

DA Offset[2] Optical sensitivity pipe 2

DA Offset[3] Optical sensitivity pipe 3

DA Offset[4] Optical sensitivity pipe 4

Optical sensitivities are... A1 – A3 Class A, 1 – 3 holes B1 – B5 Class B, 1 – 5 holes C1 – CC Class C, 1 – 12  
holes 11 – 1F India Special (4 Stage Alarm Levels), 1 – 15 holes F0 CirrusHYBRID

case READ DEVICE INFO.

Trigger the read by writing the device number to DA Offset[0]

Response

DA Offset[1] Device type

DA Offset[2] 32 bytes of device text use 32 offsets to store text string

DA Offset[3] 32 bytes of device text

DA Offset[4] 32 bytes of device text

DA Offset[5] 32 bytes of device text

DA Offset[6] 32 bytes of device text

DA Offset[7] 32 bytes of device text

DA Offset[8] 32 bytes of device text

DA Offset[9] 32 bytes of device text

DA Offset[10] 32 bytes of device text

DA Offset[11] 32 bytes of device text

DA Offset[12] 32 bytes of device text

DA Offset[13] 32 bytes of device text

DA Offset[14] 32 bytes of device text

DA Offset[15] 32 bytes of device text

DA Offset[16] 32 bytes of device text

DA Offset[17] 32 bytes of device text

DA Offset[18] 32 bytes of device text

DA Offset[19] 32 bytes of device text

DA Offset[20] 32 bytes of device text

DA Offset[21] 32 bytes of device text

DA Offset[22] 32 bytes of device text

DA Offset[23] 32 bytes of device text

DA Offset[24] 32 bytes of device text

DA Offset[25] 32 bytes of device text

DA Offset[26] 32 bytes of device text

DA Offset[27] 32 bytes of device text

DA Offset[28] 32 bytes of device text

DA Offset[29] 32 bytes of device text

DA Offset[30] 32 bytes of device text

DA Offset[31] 32 bytes of device text  
DA Offset[32] 32 bytes of device text  
DA Offset[33] 32 bytes of device text  
DA Offset[34] 32 bytes of device text  
DA Offset[35] 32 bytes of device text  
DA Offset[36] Device Data 0  
DA Offset[37] Device Data 1  
DA Offset[38] Device Data 2  
DA Offset[39] Device Data 3  
DA Offset[40] Device Data 4  
DA Offset[41] Device Data 5  
DA Offset[42] Device Data 6  
DA Offset[43] Device Data 7  
DA Offset[44] Fault flags

**case** EVENT\_FIRE\_LEVEL\_CHANGE

DA Offset[ 1] Pipe number  
DA Offset[ 2] Fire level  
DA Offset[ 3,4] CFS  
DA Offset[ 5] Unused

**case** EVENT\_SENSITIVITY\_CHANGE

DA Offset[2] Pipe 1 PreAlarm fire threshold / 4;  
DA Offset[3] Pipe 1 Fire 1 threshold / 4  
DA Offset[4] Pipe 1 Fire 2 threshold / 4  
DA Offset[5] Pipe 1 Fire 3 threshold / 4  
DA Offset[7] Pipe 2 PreAlarm fire threshold / 4;  
DA Offset[8] Pipe 2 Fire 1 threshold / 4  
DA Offset[9] Pipe 2 Fire 2 threshold / 4  
DA Offset[10] Pipe 2 Fire 3 threshold / 4  
DA Offset[11] Pipe 3 PreAlarm fire threshold / 4;  
DA Offset[12] Pipe 3 Fire 1 threshold / 4

DA Offset[13] Pipe 3 Fire 2 threshold / 4

DA Offset[14] Pipe 3 Fire 3 threshold / 4

DA Offset[15] Pipe 14PreAlarm fire threshold / 4;

DA Offset[16] Pipe 4 Fire 1 threshold / 4

DA Offset[17] Pipe 4 Fire 2 threshold / 4

DA Offset[18] Pipe 4 Fire 3 threshold / 4

case FAULT\_AIRFLOW\_LOW:

case FAULT\_AIRFLOW\_HIGH:

DA Offset[ 2] Airflow

DA Offset[ 3] Unused

DA Offset[4] Pipe

### How Faults Are Stored

Additional info may be found 'Client Side Connection Descriptions'

To store fault data a specifically named data array must be part of the configuration

DA Name = DA\_DEVxx\_FLT

Where x == Protec Panel Number

3 items are stored per fault

DA Offset[0+x] Fault Type (See appendix D)

DA Offset[1+x] Fault Address

- 0 SCD Pipe 1
- 1 SCD Pipe 2
- 2 SCD Pipe 3
- 3 SCD Pipe 4
- 4 Cloud Chamber
- 5 Pipe scanner
- 6 ProPointPLUS Display
- 253 Main unit

DA Offset[2+x] Fault Data (meaning varies depending on flt number)

**Where x = 'Fault Type' \* 3**

Eg. Fault Type = 2

X = 6



### How Fire Events Data is Stored

To store FIRE data a specially name data array must be part of the configuration

DA Name = DA\_DEVxx\_FIRE

Where x == Protec Panel Number

4 items are stored per FIRE event

DA Offset [0] Pipe 1 Level

DA Offset [1] Pipe 2 Level

DA Offset [2] Pipe 3 Level

DA Offset [3] Pipe 4 Level

Level = 0 Normal 1 Pre-Alarm 2 Fire 1 3 Fire 2 4 Fire 3 Data[1] Fire level pipe 2

## Appendix C – Fault Table

Fault number	Fault description
1	Analogue data event
2	Panel powered up event
3	Fire level has changed
4	Panel time changed
5	All panel faults cleared
6	Panel event log cleared
7	Panel historic log cleared
8	Panel sensitivity changed
9	Panel supply voltage is low
10	Panel fire state reset
11	Panel internal device has reset
12	Chamber water emptied by user
13	Airflow faults cleared
14	Internal device data error
15	Airflow values accepted
16	User has logged in
17	Algotec 'THist' reset
18	Optical Hybrid warning output has been activated
19	Optical Hybrid output has been activated
64	Installed device missing
65	Unused
66	No water
67	Seal
68	Vacuum
69	Dead LED
70	Dead water
71	Sample blockage
72	Purge blockage
73	Hardware fault
74	Calibration fault
75	Reserved
76	Reserved
77	Reserved
78	Reserved
79	Reserved
80	Reserved
81	Reserved
82	Relay output being tested
83	Unexpected device fitted
84	SCD value is too high
85	Settings have become corrupt
86	Setup information is incomplete
87	Supply voltage too low

88	PSU indicating fault
89	GUI is corrupt
90	Unit is below operating temperature
91	Unused
92	Unit is isolated from reporting an alarm
93	Pipe airflow is being ignored
94	SCD Calibration fault
95	SCD LED fault
96	SCD CO cell fault
97	
98	Externally triggered fault
99	Externally triggered fault
100	Pipe multiplexing has been stopped
101	Signal is lower than expected
102	Problem with fan
103	ROM Checksum fault
104	SCD temperature reading are out of range
105	Detector replies are outside expected values
106	Pipe is disabled
107	SCD is of wrong type
108	SCD is dirty
109	Internal test fault
110	CO Cell is nearing end of life
111	Pipe airflow is too high
112	Pipe airflow is too low
113	Not using enough water
114	Unit is initialising
115	There is a CO cell expected
116	Sensitivity set wrong
117	Unit is disconnected from network

## Appendix D - plist.ini (Template Configuration)

Note: You do not have to use the template. You can edit the config manually

plist.ini (Template Configuration file is pre-installed)

If directed by Chipkin support then you can install an updated file using File Transfer – General Tab on the fieldserver UI

Some lines in plist.ini are terminated with **// Once**

When a new config is generated the lines with are only used once. Do not change that part of the template.

All the other lines are the template set of points that will be generated when you do discovery and restart

One chunk for each node on the trunk.

The idea is you edit plist.ini to remove points you do not want or need, install the modified file

When you execute ‘Genrate Config and Restart’ the template will be used

### Explaining the template (and config)

```

Nodes // Once
Node_Name , Node_ID , Protocol
/Dev99 , 1099 , BACnet_IP // Once
/Devxx , 10xx , BACnet_IP Note A // Once
// Once
// Once
----- // Once
// Client Side Map Descriptors // Once
// // Once
// // Once
// // Once
Map_Descriptors // Once
Map_Descriptor_Name , Data_Array_Name , Data_Array_Offset , Function , Node_Name , Scan_Interval , ProtecCMD , ProtecDataType , ProtecDBConstant , length , timeout // Once
Do discovery Note B , DA_DISCOVER , 0 , wrb , Devxx , 10.0s , 22(Discover) , - , - , 1 , 0.15 // Once
Do discovery and restrt , DA_DSCVR_RSTART , 0 Note C , wrbx , Devxx , 10.0s , 33(Disc&resrt) , - , - , 1 , 0.15 // Once
Map_Descriptors // Once
Map_Descriptor_Name , Data_Array_Name , Data_Array_Offset , Function , Node_Name , Scan_Interval , ProtecCMD , ProtecDataType , ProtecDBConstant , length // Once
Occasional Map_Info , DA_REMAP , 0 , wrbc , Devxx , 60.0s , 77(Remap) , - , - , 1 // Once
Occasional Resync , DA_RESYNCH , 0 , wrbc , Devxx , 30.0s , 44(Resynch) , - , - , 1 // Once
Brdcast Silence Cmd , DA_SILENCE , 0 , Wrbc , Devxx , 10.0s , 2 (Silence) , - , - , 1 // Once
Send Token , DA_TOKENS , 0 , wrbc , Devxx , 15.2s , 6 (Token) , - , - , 1 // Once
Token Regen Timer Task , DA_TOKENS , 1 , wrbx , Devxx , 0.5s , 66(TokenRegen) , - , - , 1 // Once
// Once
// Once

```

There are 2 types discovery tasks – 1) Does discovery, prints messages to the combined log and take no further action



Note 1

This is known as remapping. It is required when Nodes are added and discovery is performed. It executes automatically after discovery is complete.

Task takes the list of discovered nodes and tell each device which is the 'next device' that is used in passing the token.

Task is essential after a discovery (if the number of devices OR the NodeID on the Protec panels has been changed).

There is no harm in executing this task repeatedly except for wasting a bit of bandwidth

In this example it will be done once every 60 seconds.

Prints info to the combined log on the gateway UI.

Note 2

Resynch tasks tell all Protec panels will report active faults and alarms.

There is no harm in executing this task repeatedly except for wasting a bit of bandwidth

In this example it will be done once every 60 seconds.

Prints info to the combined log on the gateway UI.

There is a BACnet object ( dev99 BV 100004) attached to DA\_RESYNCH [ 0 ]

Note 3

When this task is executed a broadcast message to all Protec panels to silence the alarm.

Use function=wrbx to do this on demand instead of periodically (every 10 secs in this example).

There is a BACnet object ( dev99 BV 100001) attached to DA\_SILENCE [ 0 ]

Note 4 and 5:

This task must be present in the config.

Note 5:

This task must be present in the config.

Keywords Ignore / Process

All lines between ignore and process are ignored. This is one way of commenting out points you do not require.

```

ignore
Map_Descriptors
Map_Descriptor_Name , Data_Array_Name , Data_Array
Devxx FireLvl1 P1 Sun , DA_Devxx_dt046a , 1
Devxx FireLvl1 P1 Mon , DA_Devxx_dt046a , 8
Devxx FireLvl1 P1 Tue , DA_Devxx_dt046a , 17
Devxx FireLvl1 P1 Wed , DA_Devxx_dt046a , 25
Devxx FireLvl1 P1 Thu , DA_Devxx_dt046a , 33
Devxx FireLvl1 P1 Fri , DA_Devxx_dt046a , 41
Devxx FireLvl1 P1 Sat , DA_Devxx_dt046a , 49

Devxx FireLvl1 P2 Sun , DA_Devxx_dt046b , 1
Devxx FireLvl1 P2 Mon , DA_Devxx_dt046b , 8
Devxx FireLvl1 P2 Tue , DA_Devxx_dt046b , 17
Devxx FireLvl1 P2 Wed , DA_Devxx_dt046b , 25
Devxx FireLvl1 P2 Thu , DA_Devxx_dt046b , 33
Devxx FireLvl1 P2 Fri , DA_Devxx_dt046b , 41
Devxx FireLvl1 P2 Sat , DA_Devxx_dt046b , 49

Devxx FireLvl1 P3 Sun , DA_Devxx_dt046c , 1
Devxx FireLvl1 P3 Mon , DA_Devxx_dt046c , 8
Devxx FireLvl1 P3 Tue , DA_Devxx_dt046c , 17
Devxx FireLvl1 P3 Wed , DA_Devxx_dt046c , 25
Devxx FireLvl1 P3 Thu , DA_Devxx_dt046c , 33
Devxx FireLvl1 P3 Fri , DA_Devxx_dt046c , 41
Devxx FireLvl1 P3 Sat , DA_Devxx_dt046c , 49

Devxx FireLvl1 P4 Sun , DA_Devxx_dt046d , 1
Devxx FireLvl1 P4 Mon , DA_Devxx_dt046d , 8
Devxx FireLvl1 P4 Tue , DA_Devxx_dt046d , 17
Devxx FireLvl1 P4 Wed , DA_Devxx_dt046d , 25
Devxx FireLvl1 P4 Thu , DA_Devxx_dt046d , 33
Devxx FireLvl1 P4 Fri , DA_Devxx_dt046d , 41
Devxx FireLvl1 P4 Sat , DA_Devxx_dt046d , 49

process
Map_Descriptors

```

Another way is to use // at the begin of a line

```

Devxx FireLvl1 P3 Mon , DA_Devxx_dt046c , 8
Devxx FireLvl1 P3 Tue , DA_Devxx_dt046c , 17
Devxx FireLvl1 P3 Wed , DA_Devxx_dt046c , 25
Devxx FireLvl1 P3 Thu , DA_Devxx_dt046c , 33
Devxx FireLvl1 P3 Fri , DA_Devxx_dt046c , 41
Devxx FireLvl1 P3 Sat , DA_Devxx_dt046c , 49

Devxx FireLvl1 P4 Sun , DA_Devxx_dt046d , 1
Devxx FireLvl1 P4 Mon , DA_Devxx_dt046d , 8
Devxx FireLvl1 P4 Tue , DA_Devxx_dt046d , 17
Devxx FireLvl1 P4 Wed , DA_Devxx_dt046d , 25
Devxx FireLvl1 P4 Thu , DA_Devxx_dt046d , 33
Devxx FireLvl1 P4 Fri , DA_Devxx_dt046d , 41
//Devxx FireLvl1 P4 Sat , DA_Devxx_dt046d , 49

process
Map_Descriptors
Map_Descriptor_Name , Data_Array_Name , Data_Array_Offs
Devxx Pipe 1 Status , DA_Devxx_dt010 , 0
Devxx Pipe 2 Status , DA_Devxx_dt011 , 0
Devxx Pipe 3 Status , DA_Devxx_dt012 , 0
Devxx Pipe 4 Status , DA_Devxx_dt013 , 0
Devxx Time , DA_Devxx_dt015 , 0
Devxx Fan Speed , DA_Devxx_dt016 , 0
Devxx PipeX Airflow Err , DA_Devxx_dt019 , 0

```

## Appendix E - Web Interface

Note that the web interface provided DOES NOT MEET ANY FIRECODES. It should not be used as part of any fire monitoring system.

The Web interface is simple in function and look and feel. If you wish to develop a more comprehensive interface or customize it for your corporation or project feel free to contact Chipkin for source code and help.

192.168.2.101/CustomUI/protec.html **Note 4**

My LastPass Vault (912) 455-2098 - Go... Best Trail Camera U... What Is My IP Addr... Microsoft Word - A... 1 Vancouver - Comm...

### Manual Commands - Station Fire Summary and Links to Stn Details

HomeManage Gateway .... **Note 1**

Command	Note 2
Trigger Discovery	
Trigger Discovery, new config, restart	
Trigger Remapping	
Trigger Token	

Black=Discovered Brown=PreAlm Yellow=Fire1 Orange=Fire2 Red=Fire3

Stn01	Stn02	Stn03	Stn04	Stn05	Stn06	Stn07	Stn08	Stn09	Stn10
Stn11	Stn12	Stn13	Stn14	Stn15	Stn16	Stn17	Stn18	Stn19	Stn20
Stn21	<b>Note 3</b>	Stn23	Stn24	Stn25	Stn26	Stn27	Stn28	Stn29	Stn30
Stn31	Stn32	Stn33	Stn34	Stn35	Stn36	Stn37	Stn38	Stn39	Stn40
Stn41	Stn42	Stn43	Stn44	Stn45	Stn46	Stn47	Stn48	Stn49	Stn50
Stn51	Stn52	Stn53	Stn54	Stn55	Stn56	Stn57	Stn58	Stn59	Stn60
Stn61	Stn62	Stn63	Stn64	Stn65	Stn66	Stn67	Stn68	Stn69	Stn70
Stn71	Stn72	Stn73	Stn74	Stn75	Stn76	Stn77	Stn78	Stn79	Stn80
Stn81	Stn82	Stn83	Stn84	Stn85	Stn86	Stn87	Stn88	Stn89	Stn90
Stn91	Stn92	Stn93	Stn94	Stn95	Stn96	Stn97	Stn98	Stn99	

**Note 1**

Click on 'Manage Gateway' to get access to the UI used to install files, capture diagnostics and perform some actions that Chipkin Support may direct.

**Note 2**



Discover is done automatically when the gateway starts up but you can re-discover on demand

With the 1<sup>st</sup> command – discovery is performed and applied .

With the 2<sup>nd</sup> command – discovery is performed and used but in addition the gateway configuration is updated and given effect after the restart which comes at the end of the process.

With the 3<sup>rd</sup> command – Each station is told which the next node in the token passing is. This action is performed automatically at the end of the discovery process. There should be no reason to use this unless directed by Chipkin support/

You may be directed by Chipkin Support to use the 4<sup>th</sup> command

### Note 3

If this part of the page is missing then that means that some relevant Data Arrays do not exist in the gateway. Goto 'Manage the Gateway' and perform a full diagnostic and then contact Chipkin Support.

Stations that are

Grey – were not discovered and will not be monitored.

Black – were discovered and the 'Fire State' is normal for all 4 pipes

Red – were discovered and the 'Fire State' is Fire 3 for any pipe

Orange – were discovered and the 'Fire State' is Fire 2 for any pipe and none of the pipes are in Fire 3

Yellow – were discovered and the 'Fire State' is Fire 1 for any pipe and none of the pipes are in Fire 2/3

Brown – were discovered and the 'Fire State' is Pre-Alarm for any pipe and none of the pipes are in Fire 1/2/3

Click a station to see more details of its current status.

### Note 4

To access the web interface

1. Type in the IP address of the gateway  
OR
2. Navigate to ip/CustomUI/protec.html

## Panel 03 Status and Faults

[Home](#)  
[Manage Gateway ....](#)

Command	
Manual Resynch	Note 1
Get Status now - Pipe 1	
Get Status now - Pipe 2	Note 2
Get Status now - Pipe 3	
Get Status now - Pipe 4	

Offset	Parameter	Value
1	Pipe1 Status Cloud T1	0
2	Pipe1 Status Optical T1	0
3	Pipe1 Status CO	0
4	Pipe1 Status Temp. DegC	0
5	Pipe1 Status Optical THist	0
6	Pipe1 Status CO THist	0
7	Pipe1 Status Temp THist	0

### Note 1

Panels do not inform the gateway when a fault has been cleared. On a periodic basis, set in the configuration file, a Resynch is performed. When a panel is told to resynch it re-reports all active faults. You can also do this on command by clicking the button.

### Note 2

Panels Status is updated on a periodic basis ,set in the configuration file, the panel Status is updated. You can also do this on command by clicking the buttons.

## Appendix F - Special Data Arrays

All configurations must contain the following Data Arrays. They are used by the driver.

DA\_MAP\_INFO

DA\_TOKENS

DA\_TEST

DA\_PAGE\_FLAGS

DA\_SILENCE

DA\_DISCOVER

DA\_DISCOVER\_MAN

DA\_Discovered Used to determine the color of the buttons on the web page

DA\_DSCVR\_RSTART

DA\_FIRESUM Used to determine the color of the buttons on the web page

DA\_REMAP

DA\_TOKEN\_TIMER

DA\_NODETEXT

DA\_BO

DA\_Dev00\_FIRE

DA\_FIRESUM

DA\_RESYNCH

DA\_Dev00\_FLT

DA\_xx One of these for each panel

DA\_Devxx\_FIRE One of these for each panel

DA\_Devxx\_FLT One of these for each panel

DA\_Devxx\_SYNCH One of these for each panel

## Appendix G - Trouble Shooting

### 1. Locked by RDM

This message appears on the console of the Protec panels when the Panel’s Pipe Status is read.

The screen will return to normal after 60 seconds have elapsed since the Pipe Status is read. Since this is done periodically expect to see the message repeat.

This applies to any task which uses the ProtecCMD=8 to get data.

### 2. Note 1 - NaN on web pages

This is seen when the DA\_xx Data Array is not present in the configuration. Where xx is the Panel Number.

## Panel 02 Status and Faults

Home  
Manage Gateway ....

Command	
Manual Resynch	
Get Status now - Pipe 1	
Get Status now - Pipe 2	
Get Status now - Pipe 3	
Get Status now - Pipe 4	

Offset	Parameter	Value
1	Pipe1 Status Cloud T1	NaN
2	Pipe1 Status Optical T1	NaN
3	Pipe1 Status CO	NaN
4	Pipe1 Status Temp. DegC	NaN
5	Pipe1 Status Optical THist	NaN

**NOTE 1**

This could also occur on the protec.html page if the following Data Arrays are not present – DA\_discovered and DA\_FIRESUM.

- When a **new panel is added to the trunk** – either perform ‘Discovery with a restart’ on the gateway so it can be discovered and the server (BACNet) objects can be created.
- The CAS BACnet explorer can be used to test the gateway. Download it here

<https://store.chipkin.com/products/tools/cas-bacnet-explorer>

Learn more about BACnet by reading this [booklet](#)

## 5. Silence the alarm

The as shipped config has a wrbx on this mapdesc because we don't want to suppress the alarm in real life. For testing its ok. Change the wrbx to wrbc.

```
Broadcast Silence Cmd , DA_SILENCE , 0 , Wrbc , Dev03 , 10.0s , 2 (Silence) , - , - , 1
```

If you don't do this in plist.ini the next regen will default back to wrbx – as it should. Its not our job to silence alarms.