

## PCC 2100 Connections to ATS – rev 2

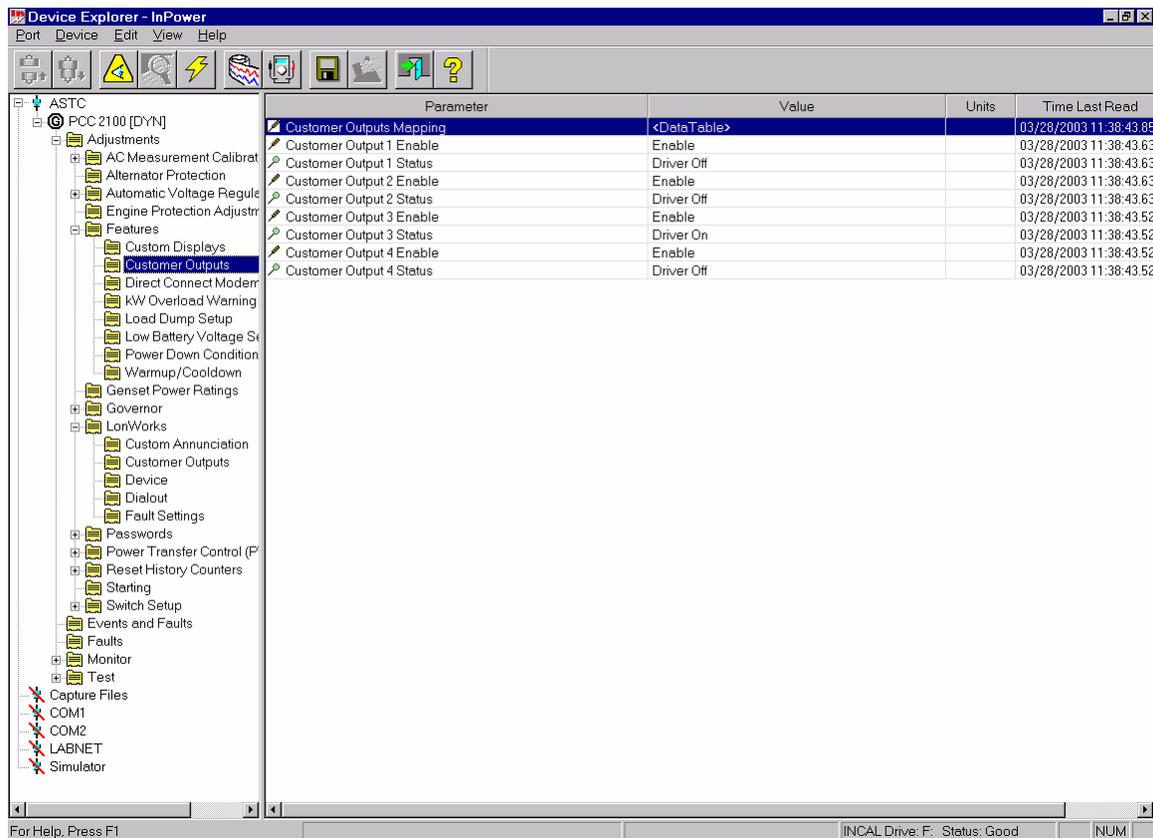
In this course we'll discuss the setup and bindings PCC 2100 for annunciation using both networked and non-networked transfer switches. We'll also review binding with DIMs, reading system data and general PCC2100 configuration and binding techniques.

### Section 1. Review of PCC 2100 configuration with InPower

In this section we'll review setting some of the PCC 2100's configurable parameters.

#### Customer Outputs

The PCC 2100's 4 output relays can be mapped to events and enabled or disabled by navigating to "Adjustment-Features-Customer Outputs". The event code and color of each LED can be modified, and the LEDs can be enabled or disabled. Access this by navigating to "Adjustments-Features-Customer Outputs"



The screenshot shows the InPower Device Explorer interface. The left pane displays a tree view of the device configuration, with 'Customer Outputs' selected under the 'Features' folder. The right pane shows a table of parameters for the 'Customer Outputs Mapping'.

Parameter	Value	Units	Time Last Read
Customer Outputs Mapping	<DataTable>		03/28/2003 11:38:43.05
Customer Output 1 Enable	Enable		03/28/2003 11:38:43.63
Customer Output 1 Status	Driver Off		03/28/2003 11:38:43.63
Customer Output 2 Enable	Enable		03/28/2003 11:38:43.63
Customer Output 2 Status	Driver Off		03/28/2003 11:38:43.63
Customer Output 3 Enable	Enable		03/28/2003 11:38:43.52
Customer Output 3 Status	Driver On		03/28/2003 11:38:43.52
Customer Output 4 Enable	Enable		03/28/2003 11:38:43.52
Customer Output 4 Status	Driver Off		03/28/2003 11:38:43.52

Event codes are set by clicking on "Data Table". These outputs can also be enabled or disabled by navigating to "Test-Outputs-Customer Outputs." Always remember to Save Adjustments or values will be changed back during the next start order. Note that these 4 relays are NOT the same as the Customer Outputs in the LonWorks section.

**Data Table for Assign fault codes to activate relays.**

Customer	Event
Customer	1540
Customer	1541
Customer	1463
Customer	1465

1540

Save

Close

Paste

For a list of available events navigate to “Events and Faults”

Device Explorer - InPower

Port Device Edit View Help

ASTC

- PCC 2100 [DYN]
  - Adjustments
  - AC Measurement Calibrat
  - Alternator Protection
  - Automatic Voltage Regule
  - Engine Protection Adjustr
  - Features
    - Custom Displays
    - Customer Outputs
    - Direct Connect Moderr
    - KW Overload Warning
    - Load Dump Setup
    - Low Battery Voltage St
    - Power Down Condition
    - Warmup/Cooldown
  - Genset Power Ratings
  - Governor
  - LonWorks
  - Passwords
  - Power Transfer Control (P
  - Reset History Counters
  - Starting
  - Switch Setup
  - Events and Faults
  - Faults
  - Monitor
  - Test
  - Capture Files
  - COM1
  - COM2
  - LABNET
  - Simulator

Fault Code	Fault Description	Fault Effect	Notification	
121	Engine speed sensor failure	Shutdown	Dial Out	Dis
135	Oil pressure sensor input voltage too high - shorted to power	Warning	Don't Dial Out	Dis
141	Oil pressure sensor input voltage too low - shorted to ground or open circuit	Warning	Don't Dial Out	Dis
143	Oil pressure below normal	Warning	Don't Dial Out	Dis
144	Coolant temperature sensor voltage too high - shorted to power or open circuit	Warning	Don't Dial Out	Dis
145	Coolant temperature sensor voltage too low - shorted to ground	Warning	Don't Dial Out	Dis
146	Coolant temperature above normal	Warning	Don't Dial Out	Dis
151	Coolant temperature far above normal	Shutdown	Don't Dial Out	Dis
197	Coolant level below normal	Warning	Don't Dial Out	Dis
212	Oil temperature sensor input voltage too high - shorted to power or open circuit	Warning	Don't Dial Out	Dis
213	Oil temperature sensor input voltage too low - shorted to ground	Warning	Don't Dial Out	Dis
234	Engine overspeed	Shutdown	Dial Out	Dis
235	Coolant level far below normal	Shutdown	Don't Dial Out	Dis
353	Engine failed to fire during cranking.	Shutdown	Dial Out	Dis
415	Oil pressure far below normal	Shutdown	Dial Out	Dis
421	Oil temperature above normal	Warning	Don't Dial Out	Dis
441	Battery voltage is at or below the low battery voltage threshold for a time greater than or equal	Warning	Don't Dial Out	Dis
442	Battery voltage is at or above the high battery voltage threshold for a time greater than or equ	Warning	Don't Dial Out	Dis
1311	The customer #1 switch is in an active state.	None	Don't Dial Out	Dis
1312	The customer #2 switch is in an active state.	None	Don't Dial Out	Dis
1313	The network input #1 is in an active state.	None	Don't Dial Out	Dis
1314	The network input #2 is in an active state.	None	Don't Dial Out	Dis
1315	The network input #3 is in an active state.	None	Don't Dial Out	Dis
1316	The network input #4 is in an active state.	None	Don't Dial Out	Dis
1317	The customer #3 switch is in an active state.	None	Don't Dial Out	Dis
1318	The customer #4 switch is in an active state.	None	Don't Dial Out	Dis
1334	Critical AC Scaler out of range.	Shutdown	Don't Dial Out	Dis
1335	Non critical AC Scaler out of range.	Warning	Don't Dial Out	Dis
1337	A LonWorks network Wink command has been issued to the unit.	None	Don't Dial Out	Dis
1416	Shutdown fault has occurred but genset has not shutdown due to the battle short flag being ene	Warning	Don't Dial Out	Dis
1417	Controller failed to power down correctly	Warning	Don't Dial Out	Dis
1433	Controller has received a local Emergency Stop command	Shutdown	Dial Out	Dis
1434	Controller has received a remote Emergency Stop command	Shutdown	Dial Out	Dis
1435	Engine Cold Warning - Engine may not start	Warning	Don't Dial Out	Dis
1438	Engine failed to rotate when cranking was commanded.	Shutdown	Don't Dial Out	Dis
1442	During cranking the battery voltage is at or below the weak battery threshold for a time greater	Warning	Don't Dial Out	Dis
1443	Battery voltage is so low during cranking that the controller has been reset three times.	Shutdown	Don't Dial Out	Dis
1444	The KW load on the genset is at or above the overloaded warning threshold for a time greater the	Warning	Don't Dial Out	Dis

For Help, Press F1

INCAL Drive: F. Status: Good

NUM



## LonWorks Custom Relay Events

This feature allows the customer to map PCC 2100 events to the 16 relays on a DIM using the network variable nvoRelayCustom. The first 8 events can be mapped to the 8 relays on a DIM base board and the last 8 events can be mapped to the 8 relays of a DIM expansion board. This will work with either self-installed/autobound networks or LonMaker installed networks. Navigate to “Adjustments-LonWorks-Customer Outputs – Custom Relay Events”.

The screenshot displays the 'Device Explorer - InPower' application window. The left-hand tree view shows the device hierarchy for 'AIRPORT', with 'PCC 2100 [DVC1]' selected. Underneath, the 'LonWorks' folder is expanded to show 'Customer Outputs', which is further expanded to 'Custom Relay Events'. The main window area shows a table with the following data:

Parameter	Value	Units	Time Last Read
Custom Relay Events	<DataTable>		05/14/2004 17:48:05.57
Custom Outputs	<DataTable>		05/14/2004 17:48:13.39

A dialog box titled 'Data Table for Assign event numbers to desired relays.' is open in the foreground. It contains a table with 16 rows, each labeled 'Event Identifier' and containing the value '0'. A green checkmark is visible in the right-hand column of the first row. The dialog also features 'Save', 'Close', and 'Paste' buttons.

The Windows taskbar at the bottom shows the Start button, several open applications including 'Rich R. Scro...', 'Training Ma...', and two instances of 'PCC 2100 ...', along with system icons for network, volume, and battery, and a clock showing 5:51 PM on 5/14/2004.

## LonWorks Custom Outputs

This feature allows the customer to map PCC 2100 events to 5 network variables which can be bound to individual annunciator LEDs or DIM relays. This can only be done with LonMaker installed networks. Navigate to “Adjustments-LonWorks-Customer Outputs – Custom Outputs”.

The screenshot shows the Device Explorer application window for a PCC 2100 device. The left sidebar displays a tree view of the device's configuration, with 'LonWorks' expanded to show 'Customer Outputs'. The main window displays a table with the following data:

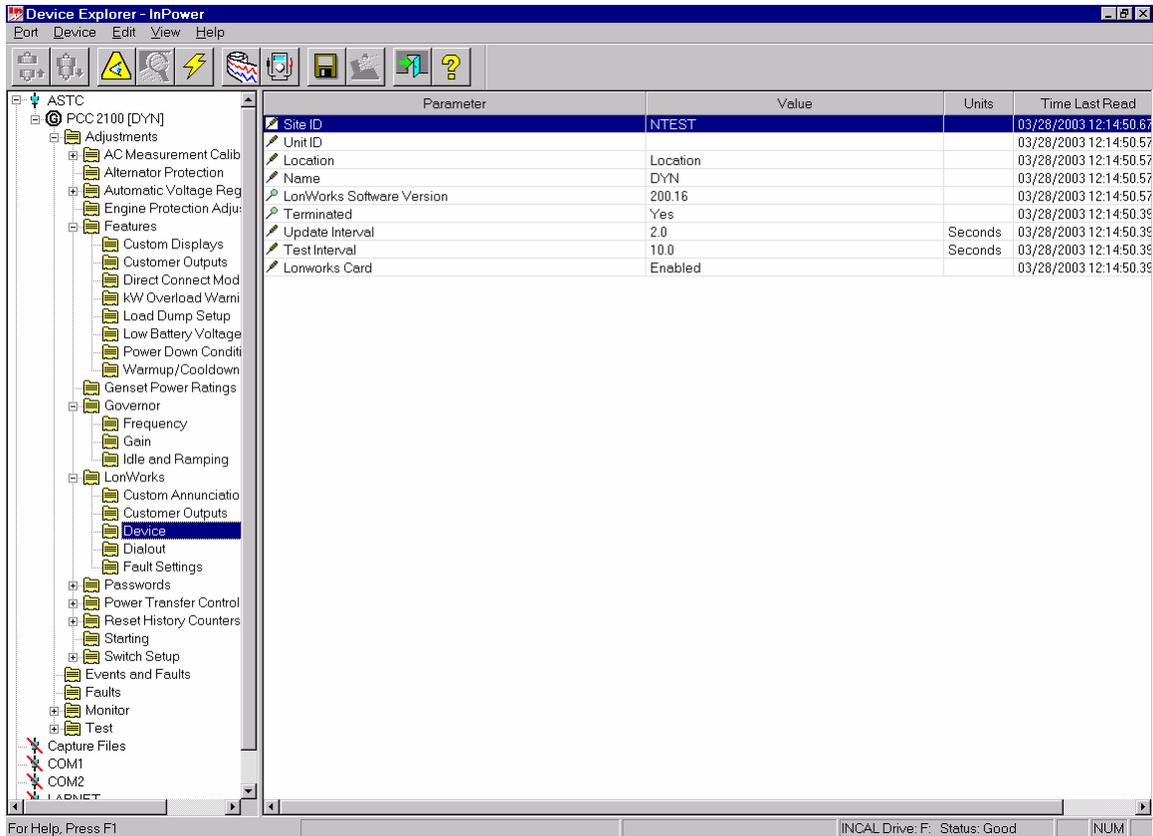
Parameter	Value	Units	Time Last Read
Custom Relay Events	<DataTable>		05/14/2004 18:03:57.44
Custom Outputs	<DataTable>		05/14/2004 17:48:13.39

A dialog box titled "Data Table for Enter up to 5 fault codes to define nvoCustom..." is open, showing a table with 5 rows for "Event Identifier" and a corresponding "Value" field. The Value field contains "0" and has a green checkmark icon. Buttons for "Save", "Close", and "Paste" are visible.

Event Identifier	Value
0	0
0	
0	
0	
0	

## LonWorks Device

Several LonWorks parameters can be modified by navigating to “Adjustments-LonWorks-Device”. (Note that with the PCC 2100 the LonWorks card auto enables when the card is detected. “Enable is provided in InPower” so that LonWorks can be disabled if the card is removed.) Also, to properly deliver alarms to PCW 2.0 “Site ID” must be set to the network name and “Name” must be set to the device name used when setting up this network with LonMaker. The configuration plug in will write to this location on the NCM, however LonMaker by itself will not. If you don’t run the plug in you’ll have to write this information with InPower. After writing this information press the “Reset” pin on the PCC 2100 NCM for these changes to take effect.



The screenshot shows the 'Device Explorer - InPower' application window. The left pane displays a tree view of the device configuration for 'PCC 2100 [DYN]'. The 'LonWorks' folder is expanded, and the 'Device' sub-folder is selected. The right pane displays a table of parameters and their values.

Parameter	Value	Units	Time Last Read
Site ID	NTEST		03/28/2003 12:14:50.67
Unit ID			03/28/2003 12:14:50.57
Location	Location		03/28/2003 12:14:50.57
Name	DYN		03/28/2003 12:14:50.57
LonWorks Software Version	200.16		03/28/2003 12:14:50.57
Terminated	Yes		03/28/2003 12:14:50.35
Update Interval	2.0	Seconds	03/28/2003 12:14:50.35
Test Interval	10.0	Seconds	03/28/2003 12:14:50.35
Lonworks Card	Enabled		03/28/2003 12:14:50.35

## Dialout

The alarm dialout characteristics can be set by navigating to “Adjustments-LonWorks-Dialout”. Up to 5 hosts can be enabled to receive alarms. (Note that host phone numbers are not set written to the device with InPower but are written to the network gateway (SLTA-10) using Echelon’s LinkManager program. If the “Dialout Break” parameter is enabled it will cause the network gateway to hang up an existing connection and dialout upon receipt of an alarm. If it is disabled it will not break an existing connection to deliver an alarm. After writing this information press the “Reset” pin on the PCC 2100 NCM plug in. changes to take effect. Note that dial out parameters can also be set using the configuration plug in.

The screenshot shows the InPower Device Explorer interface. The left pane displays a tree view of the device configuration, with 'PCC 2100 [DYN]' selected. Under 'Adjustments', 'LonWorks', and 'Dialout', the 'Dialout Break' parameter is highlighted in blue. The right pane shows a table of parameters and their values.

Parameter	Value	Units	Time Last Read
Host 1	Enabled		03/28/2003 12:24:49.42
Host 2	Disabled		03/28/2003 12:24:49.31
Host 3	Disabled		03/28/2003 12:24:49.31
Host 4	Disabled		03/28/2003 12:24:49.31
Host 5	Disabled		03/28/2003 12:24:49.31
Dialout Retries	0		03/28/2003 12:24:49.20
Retry Delay	10.0	Seconds	03/28/2003 12:24:49.20
Dialout Break	Disabled		03/28/2003 12:24:49.20
Connection Time-out	60.0	Seconds	03/28/2003 12:24:49.20

## LonWorks Fault Settings

By navigating to “Adjustments-LonWorks-Fault Settings” event names can be assigned to the 8 network faults. These faults can be autobound to the states of the 8 customer inputs on a DIM, or they can be individually bound with LonMaker to output network variables on a DIM or some other device.

Also on this screen, a customer can enter event codes for Battery Charger Fail, S1 Circuit Breaker trip, Low Fuel Level and Genset Connected.

Battery Charger Fail, Low Fuel Level and Genset Connected events are all required for NFPA110 annunciation. S1 Circuit Breaker trip is part of the extended annunciation set.

A typical use for this feature would be in an application in which NFPA110 annunciation was required and a non-networked transfer switch is used. Two signals coming from the transfer switch (genset connected and battery charger fail) are required to be annunciated. The customer would wire those signals to two of the four customer switches on the 2100 and would enter the event codes for those inputs on this screen. The event codes for customer switches 1 through 4 are 1311, 1312, 1317 and 1318.

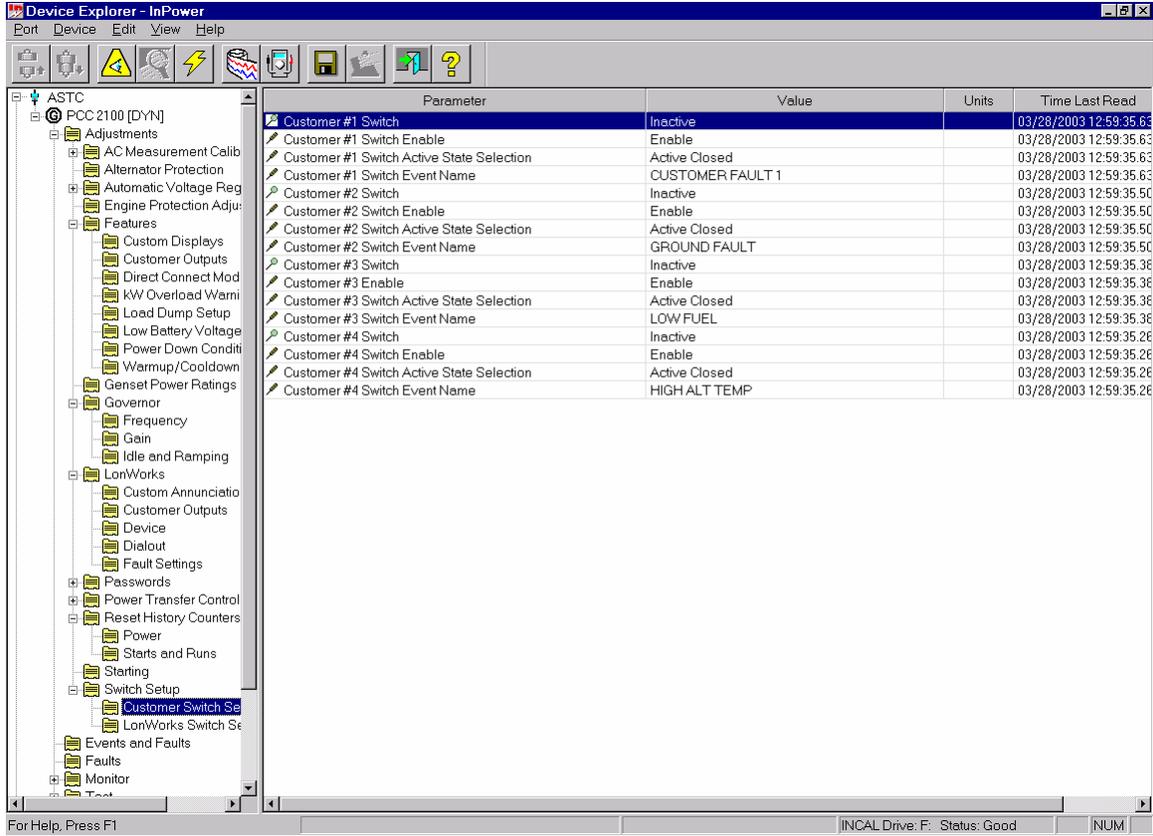
The screenshot shows the 'Device Explorer - InPower' application window. The left-hand tree view is expanded to 'PCC 2100 [DVC1]' > 'LonWorks' > 'Fault Settings'. The main area displays a table of parameters:

Parameter	Value	Units	Time Last Read
Network Input #1 Status	Inactive		05/15/2004 08:17:43.39
Network Input #1 Event Name	NETWORK FAULT 1		05/15/2004 08:17:43.39
Network Input #2 Status	Inactive		05/15/2004 08:17:43.39
Network Input #2 Event Name	NETWORK FAULT 2		05/15/2004 08:17:43.39
Network Input #3 Status	Inactive		05/15/2004 08:17:43.39
Network Input #3 Event Name	NETWORK FAULT 3		05/15/2004 08:17:43.39
Network Input #4 Status	Inactive		05/15/2004 08:17:43.39
Network Input #4 Event Name	NETWORK FAULT 4		05/15/2004 08:17:43.39
Network Input #5 Status	Inactive		05/15/2004 08:17:43.39
Network Input #5 Event Name	NETWORK FAULT 5		05/15/2004 08:17:43.39
Network Input #6 Status	Inactive		05/15/2004 08:17:43.39
Network Input #6 Event Name	NETWORK FAULT 6		05/15/2004 08:17:43.39
Network Input #7 Status	Inactive		05/15/2004 08:17:43.39
Network Input #7 Event Name	NETWORK FAULT 7		05/15/2004 08:17:43.39
Network Input #8 Status	Inactive		05/15/2004 08:17:43.39
Network Input #8 Event Name	NETWORK FAULT 8		05/15/2004 08:17:43.39
Battery Charger AC Failure Fault Code	0	event code	05/15/2004 08:17:43.39
S1 Circuit Breaker Trip Fault Code	0	event code	05/15/2004 08:17:43.39
Low Fuel Level Fault Code	0	event code	05/15/2004 08:17:43.39
Genset Connected Fault Code	0	event code	05/15/2004 08:17:43.39

The Windows taskbar at the bottom shows the Start button, 'Training Materials' folder, 'PCC 2100 Connection...' window, 'Device Explorer - InP...' window, system tray with 100% volume, and the time 8:18 AM on 5/15/2004.

## **Customer Switch Setup**

By navigating to “Adjustments-Switch Setup-Customer Switch Setup” a customer can configure the active state, enable or disable, and assign a name to each of the 4 customer inputs.



The screenshot shows the 'Device Explorer - InPower' application window. The left pane displays a tree view of the device configuration, with 'Customer Switch Setup' selected under the 'Switch Setup' folder. The main pane displays a table of parameters for the customer switches.

Parameter	Value	Units	Time Last Read
Customer #1 Switch	Inactive		03/28/2003 12:59:35.63
Customer #1 Switch Enable	Enable		03/28/2003 12:59:35.63
Customer #1 Switch Active State Selection	Active Closed		03/28/2003 12:59:35.63
Customer #1 Switch Event Name	CUSTOMER FAULT 1		03/28/2003 12:59:35.63
Customer #2 Switch	Inactive		03/28/2003 12:59:35.50
Customer #2 Switch Enable	Enable		03/28/2003 12:59:35.50
Customer #2 Switch Active State Selection	Active Closed		03/28/2003 12:59:35.50
Customer #2 Switch Event Name	GROUND FAULT		03/28/2003 12:59:35.50
Customer #3 Switch	Inactive		03/28/2003 12:59:35.38
Customer #3 Switch Enable	Enable		03/28/2003 12:59:35.38
Customer #3 Switch Active State Selection	Active Closed		03/28/2003 12:59:35.38
Customer #3 Switch Event Name	LOW FUEL		03/28/2003 12:59:35.38
Customer #4 Switch	Inactive		03/28/2003 12:59:35.26
Customer #4 Switch Enable	Enable		03/28/2003 12:59:35.26
Customer #4 Switch Active State Selection	Active Closed		03/28/2003 12:59:35.26
Customer #4 Switch Event Name	HIGH ALT TEMP		03/28/2003 12:59:35.26

## **LonWorks Switch Setup**

This section is the same as the “Adjustments-LonWorks-Fault Settings”

## **Customer Supplied Wiring Connections**

By navigating to “Monitor-Customer Supplied Wiring Connections-Inputs” names can be assigned to the customer inputs, as is done in the “Customer Switch Setup” section. Names and active states for these inputs can also be assigned by navigating to “Test-Inputs-Customer Supplied Wiring Connections”.

## Section 2. PCC 2100 Autobinding

The PCC 2100 can be self-installed on a network and autobound to one transfer switch (either an OTPC with an NCM card or a CCM-ATS) and up to 3 Annunciators and 4 DIMs (but no more than 5 DIMs and Annunciators combined.)

There are three different annunciation sets that the PCC 2100 can send to an annunciator or DIM when autobound: NFPA 110, Extended and Custom. Here is a listing of the NFPA 110 and Extended sets:

### NFPA 110

Field	Description	Event(s)
<i>bit0</i>	Check Genset	Common Warning or Shutdown Alarm
<i>bit1</i>	Genset Supplying Load	Genset Connected
<i>bit2</i>	Genset Running	Ready To Load (Genset Available)
<i>bit3</i>	Not In Auto	Not In Auto
<i>bit4</i>	High Battery Voltage	High Battery Voltage
<i>bit5</i>	Low Battery Voltage	Low Battery Voltage Weak Battery Dead Battery
<i>bit6</i>	Charger AC Failure	<i>Must be configured by user.</i>
<i>bit7</i>	Fail To Start	Fail To Start Fail To Crank
<i>bit8</i>	Low Coolant Temperature	Low Coolant Temperature
<i>bit9</i>	Pre-High Engine Temperature	High Engine Temperature Warning High Oil Temperature Warning
<i>bit10</i>	High Engine Temperature	High Engine Temperature Shutdown
<i>bit11</i>	Pre-Low Oil Pressure	Low Oil Pressure Warning
<i>bit12</i>	Low Oil Pressure	Low Oil Pressure Shutdown
<i>bit13</i>	Overspeed	Overspeed Overfrequency
<i>bit14</i>	Low Coolant Level	Low Coolant Level Warning Low Coolant Level Warning
<i>bit15</i>	Low Fuel Level	<i>Must be configured by user.</i>

### Extended

Field	Description	Event(s)
<i>bit0</i>	Check Genset	Common Warning or Shutdown Alarm
<i>bit1</i>	Ground Fault	<i>Must be configured by user.</i>
<i>bit2</i>	High AC Voltage	High AC Voltage
<i>bit3</i>	Low AC Voltage	Low AC Voltage
<i>bit4</i>	Underfrequency	Underfrequency
<i>bit5</i>	Overload	Overload
<i>bit6</i>	Overcurrent	Overcurrent Warning Overcurrent Shutdown
<i>bit7</i>	Short Circuit	Short Circuit
<i>bit8</i>	Reverse kW	Reverse kW
<i>bit9</i>	Reverse kVAR	Reverse kVAR
<i>bit10</i>	Fail to Sync	<i>Not Supported</i>

Field	Description	Event(s)
<i>bit11</i>	Fail to Close	Fail to Close - Genset CB Fail to Close - Utility CB
<i>bit12</i>	Load Demand	<i>Not Supported</i>
<i>bit13</i>	Genset CB Tripped	<i>Must be configured by user.</i>
<i>bit14</i>	Utility CB Tripped	<i>Must be configured by user.</i>
<i>bit15</i>	Emergency Stop	Emergency Stop - Local Emergency Stop - Remote

For custom annunciation, the 16 events to be annunciated are set up using InPower as described in the “LonWorks Custom Annunciation” section. InPower is also used to set up the event code for the “Charger AC Failure”, “Genset Connected” and “Low Fuel” bits in the NFPA 110-annunciation set and the “Utility CB Tripped” bit in the Extended annunciation set. This is described in the “LonWorks Fault Settings” section.

The PCC 2100 can also be bound to a DIM so 16 events on the PCC 2100 can be mapped to DIM relays. This is described in the “LonWorks Customer Outputs” section. The 8 DIM customer inputs can be mapped to the PCC 2100 Network Faults. This is described in the “LonWorks Fault Settings” section.

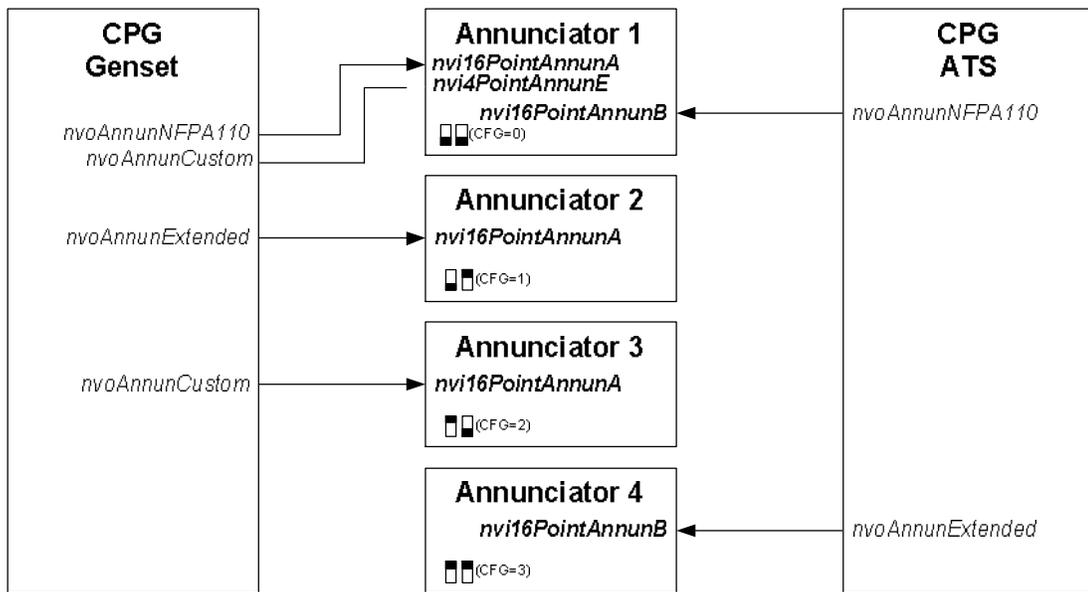
The PCC 2100 can also be autobound by a transfer switch so that the transfer switch can issue a start command to a genset over the network.

### **The Self-Install and Autobinding Process**

1. Physically connect all devices to a twisted pair. Provide power to all devices.
2. Configure 2100 customer switch inputs using InPower as described above. For NFPA110 annunciation, Charger AC Fail, Genset Supplying load and Low Fuel are all required. A low fuel signal should always be wired to one of the customer switch inputs. A networked transfer switch will communicate status of Charger Fail and Genset Supplying Load events to the annunciator. If a non-networked transfer switch is used these signals will have to be wired to customer switch inputs on the 2100 and InPower must be used to assign the event codes to the annunciation set.
3. Install PCC 2100 to the network first. Press and hold the service pin for more than two seconds. The NCM will go through its start up sequence with the “OK” and “I/O” LEDs flashing rapidly, then the “OK” LED will blink the node address set by the dip switch, pause, and repeat. The default node address for the PCC 2100 is 1, which will look like a steady ½ Hz pulse.
4. Install the ATS (either PC ATS or CCM-ATS) next if a networked ATS is used. If a networked ATS is not used skip this step. Make sure that the node address configuration dipswitch is set to a different address than the PCC 2100. Press and hold the service pin for more than two seconds. The device will go through its start up sequence then “OK” LED will blink the node address set by the dipswitch, pause, and repeat. The default node address for all CPG FT-10 transfer switch nodes is 2. It will bind its Start Command output variable with the PCC 2100’s Start Command Input variable.
5. Install annunciator(s) next. Set the node address dipswitches to an address different than the PCC 2100 and transfer switch addresses. Set the configuration dipswitches according to the following diagram depending on which annunciation set you want to use.

## Annunciator AutoBinding

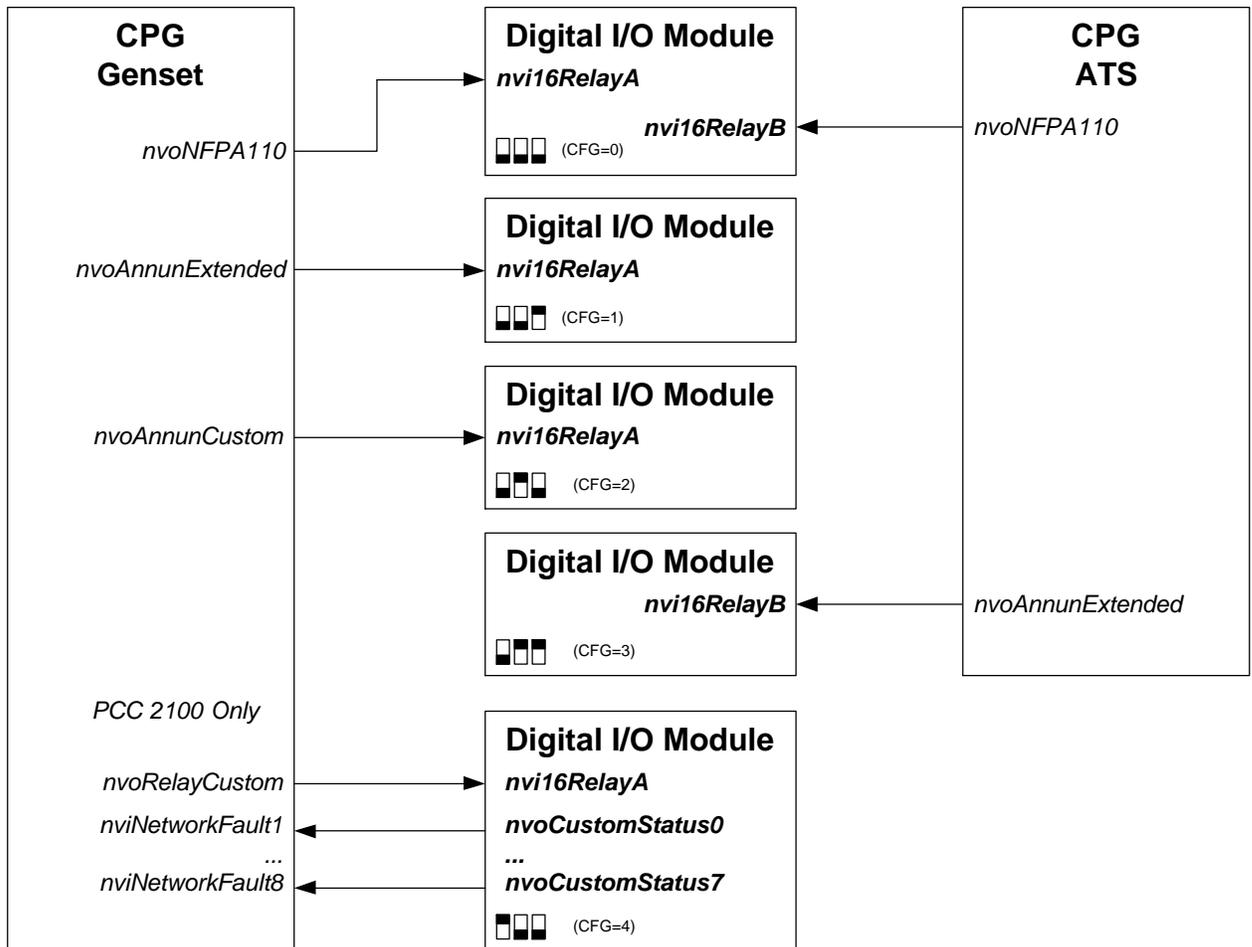
ON	SWITCH	CFG.
	<input type="checkbox"/>	0 - NFPA 110
I	<input type="checkbox"/>	1 - EXTENDED, GENSET
	<input type="checkbox"/>	2 - CUSTOM
	<input type="checkbox"/>	3 - EXTENDED, ATS
	5 6	



Note: *nvoAnnunCustom* - *nvi4PointAnnunE* binding in NFPA110 config is only valid for autobinding with PCC2100 or PCC3200 sets

# DIM AutoBinding

ON	SWITCH	CFG
↑		0 - NFPA 110
		1 - EXTENDED, GENSET
		2 - CUSTOM
		3 - EXTENDED, ATS
		4 - RELAY CUSTOM, DYNASTY ONLY
		5 - REMOVE ALL BINDINGS
		6 - REMOVE ALL BINDINGS
		7 - REMOVE ALL BINDINGS



After setting the node address and configuration dipswitches, press and hold the service pin for more than two seconds. The device will go through its start up sequence then “OK” LED will blink the node address set by the dip switch, pause, and repeat and the device will be bound to the correct annunciation set if the genset or transfer switch node has been correctly installed. The default node address for DIMs is 8.

**Autobinding for NFPA 110 Annunciation with PCC 2100 and PC ATS**

Physically install PCC 2100, PC ATS and Annunciator as stated above. Confirm that they each have a different node address and that the annunciator is configured for NFPA 110 annunciation. Press and hold the service pins for the PCC 2100, PCC ATS and annunciator in that order. Confirm that all three devices are blinking their node addresses and the Network LED on the annunciator is green. Note that the transfer switch NFPA 110 annunciation set is as follows.

Field	Description	Latched	Event	Default
<i>bit0</i>	ATS Common Alarm	N	ATS Common Alarm	0
<i>bit1</i>	Genset Supplying Load	N	Source2 Connected	0
<i>bit2</i>	NA	-		0
<i>bit3</i>	Not In Auto	N	Not In Auto	0
<i>bit4..bit5</i>	NA	-		0
<i>bit6</i>	Charger AC Failure	Y	Charger AC Failure	0
<i>bit7..bit15</i>	NA	-		0

Note that there will be 4 LEDs on the annunciator that both the ATS and the PCC 2100 could try to control. The annunciator will treat this as an OR function. If the event is true from either the PCC 2100 or the ATS the LED will be on.

**Autobinding for NFPA 110 Annunciation with PCC 2100 and a non-networked transfer switch**

In this situation, the Genset supplying and charger failure signals are wired to PCC 2100 customer inputs. Use Inpower to tell the 2100 which event is assigned to which input. Follow the same procedure as is followed when autobinding with a networked transfer switch, simply skipping the step of installing the switch.