

OpenPlant PowerPID

**Customization Trouble Shooting Guide**

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**Document Version History**

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**Software Versions**

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| **Application Name** | **Version** |
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# Overview

This document is compilation of tips and tricks to assist the administrator in trouble shooting OpenPlant PowerPID and its related schemas. Included are system debug settings and what to look for in regards to common issues found when customizing the application and schemas.

##  OpenPlant PowerPID Specific Items

###  PID Log Level Settings

1. Modify the **PID.cfg** file located in the product install directory …\config\appl set the section shown below to level “**-3”** for day to day customization verification and level “**-5”** for more detailed information when you’re completely stumped as to the root of an error. MOST OFTEN level “**-3**” is sufficient.

# Message logging level

# FATAL = 0

# ERROR = -1

# WARNING = -2

# INFO = -3

# DEBUG = -4

# TRACE = -5

PID\_LOG\_LEVEL : 0

1. You can also set this variable in the **UCF** file by loading OpenPlant PowerPID.
	1. From the menu select **Workspace>Configuration…**



* 1. In the **Configuration: User [untitled]** dialog and the **View/modify all configuration variables** section select **PID\_LOG\_LEVEL** and then pick the **Edit…** button.



* 1. In the **Edit Configuration Variable** dialog set the **New Value:** to the desired level and select the **OK** button.



* 1. Back at the **Configuration: User [untitled]** dialog select the **OK** button and when prompted with the **Alert** to save changes select the **Yes** button and then exit OpenPlant PowerPID. The next time this is loaded the new log level setting will be honored.



### Retrieving Component Class Name, Relationship and Property Data

1. Place the component in a PID drawing.
2. Select the component using the **Selection** tool.
3. From the **Key-in** window type in “**pid component dump**” (less quotes) and then hit the **enter** key.



1. The subsequent dialog(s) will contain the necessary information in regards to class name, relationships with other components and property data.



### Retrieving Component Connection Point Locations

1. Place the component in a PID drawing. Example a Valve.
2. Select the valve using the **Selection** tool.
3. Load the **key-in** window.
4. Type in “**pid component connectpoints**” (less quotes) and hit enter.



Results



1. To disable the connect points – select the component and load the **key-in** window.
2. Type in “**pid components connectpoints 0**” (less quotes) and hit enter.



### Manually Placing New Components – No Task Exist

1. Load OpenPlant PowerPID and create a new or load an existing PID.
2. Load the **key-in** window and type the following “**pid insert openplant\_pid CONE\_ROOF\_TANK** and press **enter**. As noted below the syntax is

**pid insert** = Insertion command

**openplant\_pid** = Schema name

**CONE\_ROOF\_TANK** = Class Name of component.



## Schema and Other Files

### Manually Editing Connect Points in the Cell Library XML file.

1. Load the desired cell library XML file in a text editor.
2. Locate the desired cell by cell name.
3. Edit or add connect points as required. Note break down of required vs. optional fields for each cell record.



 <CellData instanceID="Nozzle" xmlns="SchematicsCells.01.00">

 <ConnectPoints>

 <NamedLocation>

 <Name>CP1</Name>

 <OriginOffset>0.0,0,0</OriginOffset>

 <Direction>-1,0,0</Direction>

 </NamedLocation>

 <NamedLocation>

 <Name>CP2</Name>

 <DisplayLabel>Face</DisplayLabel>

 <OriginOffset>0.1,0,0</OriginOffset>

 <Direction>1,0,0</Direction>

 </NamedLocation>

 </ConnectPoints>

 </CellData>

 From the above:

 **Name** = User defined name. This is REQURIED

**OriginOffset** = distance from cell origin point to the connect point in X, Y, Z direction. This is REQUIRED but can be “0”

**Direction** = Direction of connect point from its own location. This is RQUIRED. This is used to determine which direction the cell will be in relation to an adjoining component located at that connect point.

**DisplayLabel** = User defined label for the connect point – This is OPTIONAL. If no value is needed the omit this line from the record.

# Notes