OPPID Configuration Variables

**Document Type:** TechNote

**Product(s):** OpenPlant PowerPID

**Version(s):** Selectseries 3+

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These variables are used with OpenPLANT P&ID application. They can be set in the pid.cfg, user.ucf or project.pcf files. The format of the variable is

MY\_VARIABLE=1

# Variable values

Most variables are flags: True or False. These are repressed as 0 or 1

0 = False, Off, No

1= True, On, Yes

If a CFG variable is not defined, then it is off (0)

# Defined Variables

These values define base OPPID behavior. (Bentley Modeling **F**ramework)

### BMF

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BMF\_REPORT\_VALUES\_SCALE\_FACTOR

BMF\_SHOW\_INVALIDDESIGNFILE\_MESSAGEBOX

BMF\_REFRESH\_PROPERTIES\_ON\_FILEOPEN

BMF\_SPEC\_MANAGER

BMF\_BORDERS\_BASE\_CLASS\_NAME

BMF\_ASSEMBLY\_HIGHLIGHT\_TEMPLATE

BMF\_DEFAULT\_ANNOTATION\_TEXTSTYLE

BMF\_DUPLICATE\_TAG\_PROMPT

BMF\_ENABLE\_ECBROWSER\_MANUAL\_CLOSE

BMF\_IS\_ECBROWSER\_MANUALLY\_CLOSED

BMF\_WAS\_ECBROWSER\_ACTIVE\_WHEN\_CLOSED

BMF\_PLANT\_ITEM\_IMPORT

BMF\_PERSISTENCYMANAGER\_LOG\_LEVEL

BMF\_OFFPAGE\_RELATIONSHIP\_CLASS\_NAMES

BMF\_DATABASE\_SHOW\_ERROR\_MESSAGE\_BOX

BMF\_DATABASE\_INCLUDE\_IN\_CLASSINFO\_UPDATE

BMF\_CONVERSION\_EXISTING\_ALLOWED\_ELEMENT\_COUNT

BMF\_CONVERSION\_ALLOW\_DEFINITION\_SAVE

BMF\_VALID\_TRANSPARENT

BMF\_DATABASE\_INCLUDE\_ALL\_CLASSINFO

BMF\_BEHAVIORAL\_SCHEMA\_NAMES

BMF\_BROWSE\_BASE\_CLASS

BMF\_BROWSE\_PROMPT\_LIMIT

BMF\_SHOW\_CLASS\_NAME\_FOR\_COMPONENT\_MANAGER\_DISPLAY

BMF\_ICON\_USE\_COLOR

BMF\_ICON\_DEFAULT\_COLOR

BMF\_BORDER

BMF\_STOP\_NUMBER\_INCREMENTING

### BMF Informational

These variables define EC Class and Relationship names. These name string values are defined in the pid.cfg

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BMF\_INFORMATIONAL\_PIPING\_NETWORK\_SYSTEM\_NAME

BMF\_INFORMATIONAL\_INSTRUMENT\_HAS\_INPUT\_NAME

BMF\_INFORMATIONAL\_INSTRUMENT\_HAS\_OUTPUT\_NAME

BMF\_INFORMATIONAL\_OBJECT\_HAS\_INSTRUMENT\_NAME

BMF\_INFORMATIONAL\_PLANT\_BASE\_OBJECT\_NAME

BMF\_INFORMATIONAL\_BENTLEY\_BASE\_OBJECT\_NAME

BMF\_INFORMATIONAL\_NAMED\_ITEM\_NAME

BMF\_INFORMATIONAL\_DOCUMENT\_IS\_RELATED\_TO\_OBJECT\_NAME

BMF\_INFORMATIONAL\_PAGE\_CONNECTOR\_BASE\_RELATIONSHIP\_NAME

BMF\_INFORMATIONAL\_TWO\_PAGE\_CONNECTORS\_RELATIONSHIP\_NAME

BMF\_INFORMATIONAL\_PAGE\_CONNECTOR\_NAME

BMF\_INFORMATIONAL\_PIPING\_NETWORK\_SEGMENT\_NAME

BMF\_INFORMATIONAL\_PIPING\_NETWORK\_SYSTEM\_HAS\_SEGMENT\_NAME

BMF\_INFORMATIONAL\_PIPING\_COMPONENT\_CLASS\_NAME

BMF\_INFORMATIONAL\_SEGMENT\_HAS\_PIPING\_COMPONENT\_RELATIONSHIP\_CLASS\_NAME

BMF\_INFORMATIONAL\_COMPONENT\_CONNECTS\_TO\_SEGMENT\_NAME

BMF\_INFORMATIONAL\_PIPING\_REDUCER\_NAME

### Hidden

These variables are hidden and are meant not to be viewed or edited thru File->Workspace->Configuration

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\_BMF\_VALIDATE\_BUSINESSKEY\_ON\_ELEMENT\_INFO\_PROPERTY\_CHANGE

\_BMF\_PROJECT\_VERSION

\_PLANT\_PROJECT\_SHOW\_DIFF\_DIALOG

\_BMF\_DISPLAY\_LOAD\_TIMES

\_BMF\_USE\_MIXED\_METRIC\_UNITS

\_BMF\_GEOMETRIC\_TOLERANCE

\_BMF\_GEOMETRIC\_VECTOR\_PRECISION

\_BMF\_SYNC\_TIME\_LIMT

### PID

P&ID related variables.

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PID\_EQUIPMENT\_CONNECTPOINT\_DRAG\_DISCONNECT\_IN\_SPACE

PID\_DWG\_GRIDLOCK\_MODE

PID\_SUPPRESS\_STARTUP\_DIALOG

PID\_HELP\_FILE

PID\_REMOVE\_JOIN\_ADD\_ELEMENT\_TO\_MODEL

PID\_FORCE\_NOZZLE\_ROTATE\_ON\_PLACEMENT

ASSOCIATED\_ITEM\_DEFAULT\_LIST\_CLASSNAME

SUPPRESS\_PAGE\_CONNECTOR\_SYNC

SS2\_CONFIG\_OVERRIDE\_INPROGRESS

USE\_PROPERTY\_WITHOUT\_UNIT\_SUFFIX

ANNOTATION\_SEPARATOR

CLASS\_EDITOR\_EXE\_PATH

### Schematics

Schematics related variables

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SCH\_ENABLE\_INSTRUMENT\_LINE\_AUTO\_ROUTE

SCHEMATICS\_JUMPER\_SAME\_CLASS\_HORIZONTAL\_PRIORITY

SCHEMATICS\_RUN\_INTERIOR\_VERTEX\_GRIP\_SLIDES

SCH\_PAGE\_CONNECTOR\_RELATIONSHIP\_CLASSNAME

SCH\_PAGE\_CONNECTOR\_ZOOM\_ON\_FOLLOW

SCH\_PAGE\_CONNECTOR\_HIGHLIGHT\_ON\_FOLLOW

### Database

These variable define how the database interacts with OPPID

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PLANT\_PROJECT\_SHOW\_SYNC\_COMPLETE\_DIALOG

 0 or 1

PLANT\_PROJECT\_SYNC\_ON\_FILECLOSE

 0 or 1

PLANT\_PROJECT\_BYPASS\_PRIMARY\_UNITS\_CHECK

 0 or 1

PLANT\_PROJECT\_WORKOFFLINE

 0 or 1

PLANT\_PROJECT\_INTEGRATION

 0 or 1

PLANT\_PROJECT\_HIDE\_WORKOFFLINE\_DIALOG

 0 or 1

AP\_ADDITIONAL\_MISSING\_FIELDS\_XML\_FILENAMES

List of addition xmlfile names to add/append/modify database columns

ACTIVE\_ALTERNATEREPOSITORY\_PLUGINID

This variable is defined in the **pid.cfg**. It must be set to **AutoPlantDBSQLECPlugin**. If this is set to any other value, a connection to the database will not be established. If this value is changed the following error will be displayed:

LOG\_ERROR - Bentley.Plant.ModelingFramework.ObjectModel - Exception : Object reference not set to an instance of an object. Stack Trace : at Bentley.Plant.ObjectModel.Model.updateIntervalSyncTimer(Boolean forceStop) at Bentley.Plant.ObjectModel.Model.Open() at Bentley.Plant.ObjectModel.Workspace.OpenModel(String cadDocName, String modelId)

ALLOW\_SYNC\_DELETE\_FROM\_DRAWING

 0 or 1

DISABLE\_PLANT\_PROJECT\_INTEGRATION

 0 or 1

PLANT\_PROJECT\_SYNC\_ON\_FILEOPEN

 Always\_Ask = 0,

 DGN\_2\_ALTREPO = 1,

 ALTREPO\_2\_DGN = 2

PLANT\_PROJECT\_SYNC\_DIRECTION

 Always\_Ask = 0,

 DGN\_2\_ALTREPO = 1,

 ALTREPO\_2\_DGN = 2

SYNC\_DIRECTION\_ON\_FILEOPEN

 Always\_Ask = 0,

 DGN\_2\_ALTREPO = 1,

 ALTREPO\_2\_DGN = 2

PLANT\_PROJECT\_SYNC\_MODE

 Sync\_None = 0,

 Sync\_Instant = 1,

 Sync\_Interval = 2,

 Sync\_Manual = 3

PLANT\_PROJECT\_SYNC\_INTERVAL

 Integer value

 default is 5 mins (300000)

AP\_MAPPED\_SCHEMA

AP\_MAPPING

AP\_MAPPING\_APPLICATION

AP\_PROJECT\_ID

AP\_PROJECT\_ROOT

### Export

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OWL\_SCHEMA

OWL\_PROJECT\_UNIT\_SUPPLEMENTAL

### Mixed Metric

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ALT\_SCALE\_FACTOR

ALT\_CELL\_SCALE\_FACTOR

ALT\_BUBBLE\_SIZE

ALT\_OVAL\_BUBBLE\_WIDTH\_SIZE

ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR

ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR\_FOR\_POINTS

ALT\_SIZE\_LIST

ALT\_RUN\_SIZE

ALT\_RUN\_NOMINALSIZE

ALT\_BORDER\_LIST

DEFAULT\_INSTRUMENT\_ANNOTATION\_CLASS

ALT\_USE\_METRIC\_SPEC\_MODE\_SIZE

USE\_SCALE\_FOR\_ANNOTATION

ALT\_SCALE\_TOLERANCE

### PSPID conversion

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PSPID\_CONVERSION\_CONVERT\_TAGS

PSPID\_PIPE\_RUN\_JSM\_CLASS\_NAME

PSPID\_INSTRUMENT\_LINE\_JSM\_CLASS\_NAME

PSPID\_CONVERSION\_JSM\_COMP\_ID\_PROPERTY\_NAME

PSPID\_CONVERSION\_JSM\_PIPE\_PROPERTY\_NAME

PSPID\_CONVERSION\_JSM\_ALTERNATE\_CLASSNAME\_FROM\_PROPERTY\_NAME

DisablePiperunConversion

PID\_CONVERSION\_FILE\_EXTENSION

PID\_CONVERSION\_PROVIDERS\_CONFIGURATION\_PATH

PID\_ASSEMBLY\_DIR

PID\_SHOW\_LOG\_BATCH\_ON\_COMPLETE

PID\_CONVERSION\_HELP\_FILE