

Inform, Enhance, Grow. Intelligently.



PnID[™]-User Guide

Intelligent Plant Ltd.

Company number:		SC299081	Registered address:	492 Union Street
VAT number	:	887 3049 84		Aberdeen
E-mail	:	info@intelligentplant.com		AB10 1TS.
Phone	:	01224 596001		

Revision History:

Date	Version	Description	Created by (Initials)	Reviewed by
14/03/2014	0.1	Create User Guide	TG	
05/08/2014	0.2	Updated to reflect latest product revisions	TG	
20/10/2014	0.3	Updated to reflect latest product revisions	TG	
04/12/2014	0.4	Updated to reflect latest product revisions	TG	
14/01/2015	0.5	Updated to reflect latest product revisions	TG	
03/04/2015	0.6	Updated to reflect latest product revisions	TG	
08/05/2015	0.7	Updated to reflect latest product revisions	TG	
16/06/2015	0.8	Updated to reflect latest product revisions	TG	
01/09/2015	0.9	Updated to reflect latest product revisions	TG	
04/01/2016	1.0	Updated to match Brand Guidelines	TG	
31/10/2016	1.1	Updated to reflect latest bootstrap guidelines	TG	
10/01/2017	1.2	Updated to reflect latest product revisions	TG	
30/03/2017	1.3	Updated to reflect latest product revisions	TG	
17/05/2017	1.4	Updated to reflect latest product revisions	TG	
26/05/2017	1.5	Updated to include short cut information	TG	
23/11/2017	1.6	Added link to PnID – Tips & Tricks document	TG	
03/01/2018	1.7	Updated screenshots and Figure Numbers	TG	
02/08/2018	1.8	Updated to reflect latest product revisions	TG	
16/10/2018	1.9	Updated to reflect latest product revisions	TG	
25/09/2019	2.0	What's New topic and layout revisions	TG	SA
10/12/2019	2.1	PnID Profile page – Layout change	TG	
29/09/2021	2.2	New UI – Image updates and New Features	TG	JP
11/11/2021	2.3	Sharing - Perso <mark>nal Da</mark> shbo <mark>ards a</mark> nd G <mark>roup D</mark> ashboards	TG	
24/02/2022	2.4	Updated to refl <mark>ect new</mark> UI	TG	PG
10/10/2022	2.5	Updated to refl <mark>ect new</mark> UI <mark>& New</mark> Feat <mark>ures</mark>	TG	PG
07/12/2022	2.6	Updated to refl <mark>ect Ne</mark> w Features	TG	JP
15/06/2023	2.7	Updated to sho <mark>w rece</mark> nt en <mark>hance</mark> ment <mark>s</mark>	TG	PG
31/08/2023	2.8	Updated to sho <mark>w rece</mark> nt enhancements	TG	PG

© Copyright 2023, Intelligent Plant Ltd.



Table of Contents

1	Purpose of Document			
2	What's New14			
	2.1	2.1 August 2023		
3	Access	to Gesta	alt PnID™15	
4	Getting	J Started	1	
	4.1	Canvas	Area – Dashboard Properties	
	4.2	Left-Sid	e Panel	
		4.2.1	Dashboards	
		4.2.2	Time Controls	
		4.2.3	Symbol Library	
		4.2.4	Genie Library	
		4.2.5	Settings	
		4.2.6	Licensing	
		4.2.7	Export	
		4.2.8	Import	
		4.2.9	Share File	
	4.3	Right-Si	ide Panel	
		4.3.1	Toolbar	
		4.3.2	Dashboard Properties	
		4.3.3	Properties	
		4.3.4	Data & Events	
		4.3.5	Event Manager	
		4.3.6	Snap Pixels	
		4.3.7	Toggle Data Ghost	
		4.3.8	Gradient Settings	
5	Keyboa	rd Shor	tcuts	
	5.1	General		
		5.1.1	Canvas Grid-Enable/Dis <mark>able</mark>	
		5.1.2	Left-Side Panel – Open/ <mark>Close.</mark>	
		5.1.3	Сору	
		5.1.4	Paste	
		5.1.5	Undo	
		5.1.6	Redo	
		5.1.7	Save	
	5.2	Right-Si	ide Panel91	
		5.2.1	Polyline	
		5.2.2	Rectangle91	
		5.2.3	Arc	
		5.2.4	Circle	
		5.2.5	<i>Text</i>	

	5.3	Left-Side Panel	92
		5.3.1 Run Mode	92
		5.3.2 Edit Mode	Э2
6	Creatin	Trends in Gestalt PnID	3
7	Gestalt	PnID – Industry Examples9	96
	7.1	Dil & Gas	96
	7.2	Renewables	97
	7.3	Space Industry	98
	7.4	Building Management	98
	7.5	Food & Beverage	99
	7.6	Shale Gas	00
	7.7	Marine	00
	7.8	Power Generation)1
	7.9	Alarm Analysis)2
	7.10	Data Centre)2
	7.11	Electrical)3



Figures

Figure 3-1 Access the Industrial App Store15
Figure 3-2 Industrial App Store Home Page15
Figure 3-3 Gestalt PnID Profile Page
Figure 4-1 Gestalt PnID Home Page
Figure 4-2 Back, Home and Next Button Links
Figure 4-3 Select Icon to Access Left-Side Panel
Figure 4-4 Left-Side Panel
Figure 4-5 Access Dashboards Area
Figure 4-6 Create a New Page
Figure 4-7 Right-Side Panel
Figure 4-8 Settings
Figure 4-9 Edit Mode
Figure 4-10 Run Mode
Figure 4-11 Preferences – General – Homepage
Figure 4-12 Preferences – Select File
Figure 4-13 Preferences – General – Homepage Set
Figure 4-14 Preferences – General – Linking Method Types
Figure 4-15 Preferences – Drawing – Dashboard Content Settings
Figure 4-16 Preferences – Bindings – Prefix and Suffix
Figure 4-17 Page Zoom - fit
Figure 4-18 Left-Side Panel Options
Figure 4-19 New Dashboard
Figure 4-20 Saving a Dashboard – Save As
Figure 4-21 Left-Side Panel – Time Controls
Figure 4-22 Time Controls – Real Time
Figure 4-23 Time Controls – Historical
Figure 4-24 Data Controller Panel – Play
Figure 4-25 Data Controller Panel – Stop
Figure 4-26 Symbol Library
Figure 4-27 Rename Symbol – Add to Symbol Library
Figure 4-28 Pop-Up - Select Folder

Figure 4-29 Pop-Up – Select Folder from Personal	30
Figure 4-30 Pop-Up – Folder Contents	30
Figure 4-31 Pop-Up – New Symbol Saved to Folder	30
Figure 4-32 Pop-Up – Pop-Up – Share with Group	31
Figure 4-33 Genie Library	32
Figure 4-34 Genie – Add Data – Select Icon	32
Figure 4-35 Add Data – Select Datasource & Tag	32
Figure 4-36 Added Data	33
Figure 4-37 Genie Library – Genie on Canvas	33
Figure 4-38 Add Genie to Library Button	33
Figure 4-39 Genie Value	34
Figure 4-40 Genie Value Descriptor – Select Folder	34
Figure 4-41 Select Folder from Personal	35
Figure 4-42 Pop-Up – Folder Contents	35
Figure 4-43 Pop-Up – New Genie Saved to Folder	35
Figure 4-44 Settings – Run Mode	36
Figure 4-45 Export File from PnID	37
Figure 4-46 Import File into PnID	37
Figure 4-47 Choose – Select File	38
Figure 4-48 Browse File to Import – Select Open	38
Figure 4-49 Import – Select File and Folder	38
Figure 4-50 Import – Select – Personal/Group and Folder	39
Figure 4-51 Share a File	39
Figure 4-52 Share a File – Pop-Up	40
Figure 4-53 File Shared Successfully	40
Figure 4-54 Users and Groups – Share Pending	40
Figure 4-55 Users and Groups – Share Ac <mark>cepted</mark>	41
Figure 4-56 New Share Available	41
Figure 4-57 Right-Side Panel	42
Figure 4-58 Toolbar	42
Figure 4-59 Select Icon	42
Figure 4-60 Select Icon	42
Figure 4-61 Colour Palette	43

Figure 4-62 Polyline Icon
Figure 4-63 Polyline Option
Figure 4-64 Select Shape – Closed Path
Figure 4-65 Rectangle Option
Figure 4-66 Arc Icon
Figure 4-67 Arc Option
Figure 4-68 Arc Type – Draw to Radius Properties
Figure 4-69 Arc Type – Close on Arc Properties
Figure 4-70 Arc Type – Open Arc Properties
Figure 4-71 Arc Type – Filled Arc-1 Properties
Figure 4-72 Arc Type – Filled Arc-2 Properties
Figure 4-73 Circle Option
Figure 4-74 Circle-1 Properties
Figure 4-75 Circle-2 Properties
Figure 4-76 Circle-3 Properties
Figure 4-77 Circle-Change Radius Size
Figure 4-78 Text Icon
Figure 4-79 Text Properties
Figure 4-80 Add Image Icon
Figure 4-81 Standalone User - Image Name and Source Reference
Figure 4-82 Image Height and Width
Figure 4-83 Add Scatterplot Icon
Figure 4-84 Scatterplot Option
Figure 4-85 Scatterplot Pop-Up
Figure 4-86 Select Datasource, Search and Add Tags for X and Y Axis
Figure 4-87 Scatter Plot Marker Colour – Palette
Figure 4-88 Scatterplot Marker Colour Chosen
Figure 4-89 Scatterplot Marker Type
Figure 4-90 Scatterplot – Time Controls
Figure 4-91 Edit Scatterplot
Figure 4-92 Edit Scatterplot Pop-Up53
Figure 4-93 Sparkline Option
Figure 4-94 Sparkline Line Colour Pop-Up

Figure 4-95 Sparkline Pop-Up Completed
Figure 4-96 Sparkline – Time Controls
Figure 4-97 Edit Sparkline
Figure 4-98 Edit Sparkline Pop-Up55
Figure 4-99 Bar Chart Option
Figure 4-100 Bar Chart Pop-Up Completed
Figure 4-101 Bar Chart on Canvas
Figure 4-102 Edit Bar Chart
Figure 4-103 Bar Chart – Aggregate Types
Figure 4-104 Bar Chart – One Tag with Aggregate Type - Sum
Figure 4-105 Button Icon
Figure 4-106 Button Option
Figure 4-107 Button Properties
Figure 4-108 Button Properties - Updated
Figure 4-109 Manage Events Icon
Figure 4-110 Event Manager – Event Types
Figure 4-111 Input Control Option
Figure 4-112 Input Control Properties
Figure 4-113 Input Control Properties - Updated
Figure 4-114 Range Control Option
Figure 4-115 Range Control Properties
Figure 4-116 Range Control Properties - Updated
Figure 4-117 Add Embedded Page Icon
Figure 4-118 Embedded Page Placeholder
Figure 4-119 Default Embedded Page URL
Figure 4-120 Updated Embedded Page URL
Figure 4-121 Dashboard Properties
Figure 4-122 Selected Line Properties
Figure 4-123 Selected Text Properties
Figure 4-124 Selected Text and Line Properties
Figure 4-125 Selected Items to Group
Figure 4-126 Group Icon
Figure 4-127 Grouped Items

Figure 4-128 Changing Text colour within a Group - Properties
Figure 4-129 Changing Text colour
Figure 4-130 Changing Line colour
Figure 4-131 Circle – Send to Back
Figure 4-132 Bring to Front Icon
Figure 4-133 Circle Now in Front
Figure 4-134 Circle Now in Front
Figure 4-135 Send to Back Icon
Figure 4-136 Circle Now Behind
Figure 4-137 Shape – Original Position
Figure 4-138 Rotate Clockwise Icon
Figure 4-139 Original Shape Now Rotated Clockwise
Figure 4-140 Rotate Anti-Clockwise Icon
Figure 4-141 Original Shape Now Rotated Anti-Clockwise
Figure 4-142 Text Rotation – Input Rotation Amount
Figure 4-143 Data and Events
Figure 4-144 Link Data Icon
Figure 4-145 Text Bindings – Select Icon
Figure 4-146 Text Bindings – Add Data
Figure 4-147 Select Datasource, Search, Add Tag
Figure 4-148 Text Bindings – Datasource and Tag Name
Figure 4-149 Text Bindings
Figure 4-150 Colour Bindings – Select Icon
Figure 4-151 Select Add Data Icon
Figure 4-152 Datasource, Search and Available Tags
Figure 4-153 Datasource, Tag Name and Colours
Figure 4-154 Data Bindings Complete
Figure 4-155 X or Y Animation
Figure 4-156 X or Y Fill Animation – Select Icon
Figure 4-157 X or Y Fill Animation – Select Add Data Icon
Figure 4-158 Datasource, Search and Available Tags
Figure 4-159 X or Y Fill Animation Bindings73
Figure 4-160 Y Fill Animation -Example

Figure 4-161 Storing Recent Tags
Figure 4-162 Manage Events Icon
Figure 4-163 Global Events Table
Figure 4-164 Event Manager – Pop-Up 76
Figure 4-165 Event Manager – Component Tool Bar76
Figure 4-166 Event Manager – onValueUpdate - Text
Figure 4-167 Event Manager – onValueUpdate – Add New Component Reference
Figure 4-168 Event Manager – onValueUpdate – Select Component Pop-Up
Figure 4-169 Add Button Icon
Figure 4-170 Button
Figure 4-171 Button Selected
Figure 4-172 Manage Events Icon
Figure 4-173 Component Events Table
Figure 4-174 Event Manager – onclick – Add a New Write Value Action
Figure 4-175 Event Manager – onclick – Add a New Property Change Action
Figure 4-176 Event Manager – Add a New Set Position Action
Figure 4-177 Event Manager –Add a New Set Query Action
Figure 4-178 Add Button
Figure 4-179 Button Event – Rename Button
Figure 4-180 Event Manager – Add a New Component Reference
Figure 4-181 Event Manager – Add a New Component Reference Pop-Up
Figure 4-182 Event Manager – Get Component Reference
Figure 4-183 Event Manager – Add a New Tag Reference
Figure 4-184 Datasource, Search and Available Tags
Figure 4-185 Event Manager – Datasource and Tag Name
Figure 4-186 Event Manager – Add a New Get Tag Value Reference
Figure 4-187 Event Manager – Add a New Get Tag Data Reference
Figure 4-188 Add Input Control
Figure 4-189 Input Control Box
Figure 4-190 Add Range Control Icon
Figure 4-191 Range Control
Figure 4-192 Snap Pixels Options
Figure 4-193 Toggle Data Ghost

Figure 4-194 Gradient Settings
Figure 4-195 Gradient Settings – Pop-Up
Figure 4-196 Gradient Palette – Add More Rows
Figure 4-197 Gradient Palette – Change Colours
Figure 4-198 Vertical Rectangle Gradient
Figure 4-199 Gradient Controls Off
Figure 5-1 Keyboard Shortcut – View or Remove the Grid on the Canvas
Figure 5-2 Keyboard Shortcut – Open or Close the Left-Side Panel
Figure 5-3 Keyboard Shortcut – Ctrl+C – Copy
Figure 5-4 Keyboard Shortcut – Ctrl+V – Paste
Figure 5-5 Keyboard Shortcut – Ctrl+Z – Undo
Figure 5-6 Keyboard Shortcut – Ctrl+Y – Redo
Figure 5-7 Keyboard Shortcut – Ctrl+S – Save
Figure 5-8 Keyboard Shortcut – L - Polyline
Figure 5-9 Keyboard Shortcut – R - Rectangle
Figure 5-10 Keyboard Shortcut – A – Arc
Figure 5-11 Keyboard Shortcut – C – Circle
Figure 5-12 Keyboard Shortcut – T – Text
Figure 5-13 Keyboard Shortcut – Ctrl+R – Run Mode
Figure 5-14 Keyboard Shortcut – Ctrl+E – Edit Mode
Figure 6-1 Trend a Tag in PnID
Figure 6-2 View Tag in Trend
Figure 6-3 Adding New Tag to Same Trend View
Figure 6-4 View Additional Tag in Same T <mark>rend</mark>
Figure 6-5 Save Trend
Figure 6-6 Save Confirmed Pop-Up
Figure 6-7 Trends Showing Two Time Per <mark>iods</mark>
Figure 7-1 Oil & Gas – Central Processing Facility
Figure 7-2 Oil & Gas – Gas Compression
Figure 7-3 Renewables – Onshore Wind Farm
Figure 7-4 Renewables – Tidal Turbine
Figure 7-5 Space Industry – NASA Dashboard
Figure 7-6 Building Management -Office Temperature Management

Figure 7-7 Food and Beverage – Grain Silo System
Figure 7-8 Food and Beverage – Evaporation Process
Figure 7-9 Shale Gas – Shale Gas Extraction
Figure 7-10 Marine – Fuel Tanks Overview100
Figure 7-11 Power Generation – Stirling Engine
Figure 7-12 Power Generation – Plant Controls
Figure 7-13 Alarm Analysis – KPI's
Figure 7-14 Data Centre – Rack Overview
Figure 7-15 Electrical – Electricity Grid
Figure 7-16 Electrical – Pylons Overview



1 Purpose of Document

This document gives instructions on how to use Gestalt PnID[™]. By following the detailed steps within this document this drawing tool allows the creation of simple graphics using lines, shapes, and text. Live data and events can be added to the graphics to show how equipment performs in real time.



2 What's New

This section allows users who may have already browsed this user guide a quick link option to look at the new features and enhancements.

2.1 August 2023

Select this link to view most recent updates:

https://wiki.intelligentplant.com/doku.php?id=general:apps:gestaltpnid:releasenotes



3 Access to Gestalt PnID[™]

Select this link **appstore.intelligentplant.com** to log in to the Industrial App Store. Use either your Google, LinkedIn or Microsoft account or register your organisation with the Industrial App Store.

Welcome to the Industrial App Store							
Industrial App Store Log In	Industrial AppStore Intelligent Plant						
Sign in with Google							
Register my organisation with the Industrial App Store	Industrie Dpp Store						
We use your LinkedIn, Google, or organisation profile to identify you and to personalise your Industrial App Store experience (e.g. to display your name and profile picture). We don't post to your timeline or do anything else with you account.	Intelligent Plant						
Once you have logged in, we use a cookie to identify you on future visits. The Industrial App Store apps that you use may also issue their own cookies. Please consult the cookie policy for individual apps that you use for further information.	Inform, Enhance, Grow. Intellige, http://www.						
★ Show me the apps ★							
던 Need 오 Ou	help? Contact us r cookie policy						
Figure 3-1 Access	the Industrial App Store						

On the Industrial App Store home page, mouseover the Gestalt PnID app card. You have the option to Start (where you will immediately be taken to the home page in PnID) or view More Info about this app.



Figure 3-2 Industrial App Store Home Page

The more info link allows you to browse the profile page to find out a little more information regarding this tool.

You can also find links to the user guide, Tips and Tricks, YouTube Videos, FAQs, App Store Wiki and browse screenshots of dashboards that have been created in Gestalt PnID.

Select Start from the profile area. This will take you to the home page in Gestalt PnID.

Fintelligent Plant	Industrial App Store	°° ⊠ ° ^
A Home	Gestalt PnID	
Aby Account		
ଔ Admin ₩ App Store Wiki	Create high resolution process & Instrumentation process & Contraction of the area of th	Linework Linetypes
• YouTube	Start	Gestalt PnID Linework •Linetypes
	Additional Info	
	Gestalt PnID	
	Sign in and click 'Start' to begin using Gestalt PnID with free demo da	ta
	Gestalt PnID- Drawing Basics	uter Share

Figure 3-3 Gestalt PnID Profile Page

Note:

Bookmark your links for quick access next time.

4 Getting Started

The Home page has links to demo dashboards, select any thumbnail to view a dashboard.

You can now set your own home page by going to the left-side panel, choose settings then choose preferences. In the General area pop-up, choose Select File and select a dashboard from either personal or group folders. Select Save. Your new chosen home page is the page you will see now very time you open Gestalt PnID.



A demo page may have arrows at the top right or left of each page. These are, left arrow to go back, home icon to go to the Home (Overview) page or right arrow to go the next page.

Any arrowhead or home icon shown as an outline indicates that there is no link present. Once you have chosen a demo page to view you can browse through the rest of the demo pages by selecting the right arrow at the top right of each dashboard.



Figure 4-2 Back, Home and Next Button Links



To access the left-side panel select the icon at the top left of your screen.

Figure 4-4 Left-Side Panel

To start drawing, select Dashboards.

📕 🌾 Gestalt - PnID		
Dashboards	C	
Time Controls		
Symbol Library	20	
Genie Library		
Settings	্ঞ	
Logout (User Name)	-	
Figure 4-5 Access Dashboards Area		

To create a new drawing select New from the left-side panel. A pop-up will appear warning that you may lose unsaved work. To save any work already completed on the canvas select cancel, then save your dashboard. To continue select Ok.

Dashboards		
ВАСК	+	
New	[₽	
Save		
Save As		
Export File	[]	
Import File	_	
Dashboards		
Personal Dashboards		
Group Dashboards		

Figure 4-6 Create a New Page

The right-side panel will pop out. You are now in edit mode and you can see that a grid has appeared in the canvas area. You can hide or show the right-side panel by selecting the tab indicator in the middle of this panel. Once in edit mode, remove the left-side panel by either selecting the burger icon at the top left of the page or select M on your keyboard.

🔳 🏶 Ge	stalt - PnID	
Dashboar	ds	C
Time Cont		
Symbol Li		R
Genie Libr		
Settings		୍
Logout (U		6. 882

Note:

Figure 4-7 Right-Side Panel

A short cut to Edit Mode is to select Ctrl-E on your keyboard. Once in Edit Mode the short cut back to Run Mode is to select Ctrl-R on your keyboard.

Your canvas can also be set to run or edit mode by going to the left-side panel and choosing Settings.

📕 🌾 Gestalt - PnID		
Dashboards		
Time Controls		
Symbol Library		
Genie Library		
Settings	৾৾	
Logout (User Name)	-	
Figure 4-8 Settings		

The global settings show that you are in edit mode. Move the toggle option to the left for run mode.

🗧 👴 Global settings	
ВАСК	•
Run / Edit	
Preferences	
Figure 4-9 Edit Mode	
🗧 💩 Global settings	
ВАСК	5
Run / Edit	
Preferences	ŝŝ
Figure 4-10 Run Mode	

You can set preferences so that any dashboard you create will have the same settings. Select the Preferences option.

The General preferences allows you to set any dashboard as your home page. Choose Select File.

≌ Prefe	erences					×
General	Homepage			Home-	B.PnID Sele	ect File
🙏 Drawing	Linking Method				Unique ID	*
					(Cancel)	Save

Figure 4-11 Preferences – General – Homepage

Select the dashboard from either your personal or group folder. Select Ok.

Select File			
PnID /			
Selected file:			
 01-Training BP Bruce-2023 Cheat-Sheets Cheat-Sheets-Templates Compressor-2022 Demo Demo-2022 Demo-Black Demo-Blue Demo-Grey Demo-Traditional Demo-White 			
			(Cancel) (C
	Figure 4-12 F	Preferences - Select File	

≅ Prefere	ences	×			
 General ▲ Drawing ♦ Bindings 	Homepage Linking Method	Home-B.PnID Select File			
		(Cancel) (Save)			
Figure 4-13 Preferences – General – Homepage Set					

The Linking Method refers to the type of link used when you choose Linked PnID from Properties in the right-side panel.

- **Unique ID** will show just the filename of your dashboard and means that if you move a dashboard to a different folder the links will still work as expected
- **Relative Path** will show the folder name(s) and filename of your dashboard and that means that if you move a dashboard to a different folder then the links will be broken



Once you have chosen your preferred linking method type select Save.

The Drawing preferences allows you to set your dashboard width, height and font size by hovering over the current settings and using either the upward/downward arrows, or highlighting the whole number and typing in your new sizes.

To change the font family, mouse click on the current option, and choose your new font from the drop down menu.

Setting the global colour will mean that anything you add to your page will be set to that specific colour. To change colour highlight the existing hex reference and type in your new one. Alternatively mouse click on the existing hex reference to see the colour wheel. Choose your new colour or type in a new hex reference.

Display gradient control can be set to on or off my moving the toggle button. This option can also be found in the right side panel under properties.

If you have updated any of the drawing preferences, select Save.

≅ Prefere	ences		×
i General	Canvas Width Canvas Height Font Size Font Family Global Colour Display Gradient Controls		(1920) (1080) (28) (Verdana, sans-serif ♥ #717073
			(Cancel) (Save)

Figure 4-15 Preferences – Drawing – Dashboard Content Settings

The Bindings preferences allows you to set a default prefix and suffix to a text animation. If you set these then every text binding will have the same prefix and suffix. There is an option to remove or update these when you create a new text binding.

If you have set these in the preferences area, select Save to finish.

≌ Prefere	nces	×
General	Tag Value Prefix Tag Value Suffix	
C. puraniàz		
		(Cancel)(Save)
	Figure 4-16 Preferences – Bindings – Prefix and Suffix	

4.1 Canvas Area – Dashboard Properties

In the drawing canvas area, you can zoom in or out to your desired size. Precision can be controlled by using the snap to pixels feature in the right-side panel. The snap ranges from 1 to 24, with 12 being the default snap.

(Ctrl+Click for more snap pixel information)

Your drawing will fit any screen size in run mode as the Page Zoom option in the dashboard properties area within the right-side panel is by default set to fit.

Dashboard P	roperties	;	
Property	Value		
Auto Fit	false	~	
Event Freq	10		
Fill Colour	#CCCCCC		
Height	1080		
Linking method	unique ID		
Padding	0		
Run Events	true	~	
Show Tooltip	true	~	
Width	1920		
Page Zoom	fit	~	
Generate Template Files			

Figure 4-17 Page Zoom - fit

4.2 Left-Side Panel

The Left-Side Panel has six options – Dashboards, Time Controls, Symbol Library, Genie Library, Settings and Logout.

4.2.1 Dashboards

Select Dashboards to access an existing drawing or start a new drawing.

	📕 🌵 Gestalt - PnID	
	Dashboards	
	Time Controls	
	Symbol Library	
	Genie Library	
	Settings	0
	Logout (User Name)	9., 811
To start a new drawing choose New	Figure 4-18 Left-Side Panel Options	
	Dashboards	
	ВАСК	•
	New	[]
	Save	8
	Save As	B
-	Export File	
	Import File	[]
	Dashboards	
	Personal Dashboards	
	Group Dashboards	

Figure 4-19 New Dashboard

For the new page you have created select Save As from the Dashboards area and rename the page. Select OK.

Dashboards		
BACK	+	
New	[₽	
Save	8	
Save As	8	
Export File	[]	
Import File		
Dashboards		
Personal Dashboards	C	
Group Dashboards		

The canvas will now be set to your new page. You should also see the new drawing name in the url.

4.2.2 Time Controls

Whilst in run mode, from the left-side panel select Time Controls.

🗧 🌾 Gestalt - PnID	
Dashboards	ľ
Time Controls	
Symbol Library	28
Genie Library	*
Settings	්
Logout	-

Figure 4-21 Left-Side Panel – Time Controls

Figure 4-20 Saving a Dashboard – Save As

By default, the Time Controls are set at real-time (Historical toggle button is set to off).

	≡	選 Tin	ne		
	ВАСК			+	
	Historical				
	Refresh Inte	erval	3s		
To set the time to Historical mov	Figure 4-	-22 Time Contr to the right	rols – Real Tim		
	≡	🕮 Tir	ne		
	ВАСК			+	
	Historical				
	Refresh Inte	erval	3s		
	Start Time	Ē	*-10d		
	End Time	Ē	*		
	Step		1h		
	Function		Plot	~	
	Apply			~	
	Play				
	Time Contro	ols			

Figure 4-23 Time Controls – Historical

You can change the historical values by typing in your preferred range into the Interval, Start Time, End Time and Step.

Select Apply and press Play. If needed, change the Function to your preferred option from the dropdown menu, these are Plot, Interp, Max, Min, Avg, Raw.

You will see the Data Controller panel appear at the top of your screen. Select the Play icon. This will automatically step through the available data and loop back round when it gets to the end.

	Sat Oct 30 2021 08:39:50.121			
ct 30 2021	08:39:50.121	- Tue Nov 0	9 2021 08:39:50.121	
		~	ļ	

Figure 4-24 Data Controller Panel – Play

Select the stop icon to get playback to stop.



Find detailed information on Data Functions here:

https://wiki.intelligentplant.com/doku.php?id=dev:data_functions&s[]=interp

4.2.3 Symbol Library

Select Symbol Library from the left-side panel to view the following options:

- Gestalt Symbols Standard symbols included in PnID that anyone can access and use
- Personal Symbols A user can add folders and create symbols here no-one else can access these
- Group Symbols Users can add folders and create symbols here anyone within their group can access these



Figure 4-26 Symbol Library

To use any symbol, select the thumbnail image in any folder and drag it onto the canvas.

To create your own symbol, draw your object then select the whole thing and group it. In the Properties area within the right-side panel, update the group name in the Properties area from 'Group 0' with your new symbol name. Select the Add symbol to Library option.

Dashboard Properties	Dashboard Properties
Properties v	Properties Y
	SQUARE -
Group 0 x=1368, y=168 Property Alignment start	PropertyValueAlignmentstartOpacity1BoldfalseFlashfalseFont TypeArial, sans-serFont Colour#00000Font Size28HyperlinkIItalicfalseLine CaproundLine WeightILine WeightILine Weight0VisibilitytrueAdd symbol to Library
	Add genie to Library
Figure 4-27 Rename Symbol - Add to Symbol Library The pop-up that appears shows your symbol name. Choose Select Folder.	
Create a symbol Symbol Name Enter a name for this symbol SQUARE Template Location	

Figure 4-28 Pop-Up - Select Folder

Another pop-up will appear which shows your Personal folder with folders and dashboards that you have previously created.

The template will be saved in the following folder.

(Select Folder)

No folder selected

Cancel Ok

If the symbol is just for your use, choose the Personal option from the drop-down menu. To save your new symbol to a particular folder within your personal area select that folder. Otherwise select Ok.

Select Folder			
Symbol / Personal V Selected file:			
 Arc-Base Gauge-Base Cosic Tamplatos Gistar Traffic-Lights Widgets Wind-Turbines 			
			Cancel Ok

Figure 4-29 Pop-Up - Select Folder from Personal

If you've chosen to save your new symbol to a specific folder, the next pop-up shows the contents of the folder you have chosen (contents greyed out). Select Ok.

Select Folder				
Symbol / Miscellaneous / Personal v Selected file: Miscellaneous				
 1920x1080-002140 Box-717073 Coil-01 Coil-02 Coil-03 Comp Dual-S Gradient-SMALL-002140 Hyd-Coupling Hyd-Filter Non-Return Pencil Pulon 				
				Cance Ok

Figure 4-30 Pop-Up - Folder Contents

The final pop-up shows the name of your symbol and which folder it's in. On selecting ok a 'Successful' prompt will appear from the bottom left of your screen.

* Create a symbol			
Symbol Name Enter a name for this symbol SQUARE			
Template Location The template will be saved in the following folder.	-		
Symbols\Miscellaneous (Select Folder)			



If you want to share a symbol you have created with others, choose Groups from the drop-down menu instead of Personal and go through the same steps as before.

Select Folder		
Symbol / Personal > Personal Groups e: No file selected		
Arc-Base Gauge-Base Genie-Templates Miscellaneous Orbital Traffic-Lights Widgets Wind-Turbines		
		Cancel Ok
	Figure 4-32 Pon-IIn - Pon-IIn - Share with Group	

Note:

You can adapt symbols that are already in the symbol library.

Select the symbol from the library and drag it onto the canvas. Select the symbol that's now on the canvas and choose the ungroup icon from the right-side panel.

You are now able to adapt the symbol to your own preferences.

Once finished you can group your new symbol and add it to the symbol library. Go to the Properties area and rename your grouped symbol with a relevant description then select Add symbol to Library. Go through the same steps as before to add the new symbol to either your personal or group area.

Check the symbol library to see your updated symbol.

4.2.4 Genie Library

Creating your own genies will stop you having to repeatedly draw the same object and adding data to it.

You can draw something once, link to your data, then add it to the personal or group genies.

Select Genie Library from the left-side panel to view the following options:

- Gestalt Genies Standard genies included in PnID that anyone can access and use
- Personal Genies A user can add folders and create genies here no-one else can access these
- Group Genies Users can add folders and create genies here anyone within their group can access these

😑 🛛 🏶 Gestalt - PnID			
Dashboards		🚍 📴 Genies	
Time Controls		ВАСК	•
Symbol Library	20	Gestalt Genies	***
Genie Library		Personal Genies	1
Settings	্ঞ	Group Genies	2
Logout (User Name)	-		

Figure 4-33 Genie Library

To add an existing genie to your canvas, select the thumbnail image of the genie you wish to use and drag it onto the canvas.

Select the Set Tag icon at the right-hand side of the pop-up.

👻 Gen	ie								
Ge	enie Value		Data	source		Tag Name	e		
0-100-Dial			Please set a tag for this genie value					Ø	
									Cancel Ok
			Figu	ire 4-34 Genie	e – Add I	Data – Select Icor	n		

From the next pop-up select the datasource name from the drop-down menu. Add a wildcard or tag name in the search area, select the search button and select one of the tags from the available tag list. Select Ok.

Please select a tag	
To add a tag to this binding, simply query for it using the tools below, select it, and press OK.	
Datasource:	
Please select a Datasource	~
Search Method:	
Search Query 🗸	
Search:	
(Search)	
Available Tags:	
	~
Tags Returned: 0	
	Cancel Ok

Figure 4-35 Add Data – Select Datasource & Tag

🔄 Genie			
Genie Valu	e Datasource	Tag Name	
0-100-Dia	I Oil Co Demo (Demo Data Sources - IPAppStoreNode)	LIC001	Ø
			(Cancel (

Figure 4-36 Added Data

The data you added into the genie is now within the genie that is on the canvas.



Adding a newly created genie to the genie library follows a similar pattern as adding a symbol to the symbol library. The difference being that with a genie you will be linking to data.

To create a new genie, draw your object then link your data to it. Select the whole thing and group it. In the Properties area within the right-side panel, update the group name in the Properties area from 'Group 0' with your new genie name. Select the Add genie to Library option.



Figure 4-38 Add Genie to Library Button

The pop-up that appears shows your genie name. At the bottom right, add a descriptor to the Genie Value.

For example – this specific genie has a range of 0-100, it should be noted that this genie can be used in the future with any datasource where the specific tag used has the same data range. When a user drags this genie onto their canvas the genie value '0-100-Tag-Limits', is an indicator that the genie will only work with these limits.

Genie Name Enter a name for this Genie.		40 50 60	
(Circle-Gauge		30 20 20	
Genie Location		10 90	
Select the folder you would li	ke to save this Genie to.	0 100	
Genies (Select Folder)			
Tag Table:			
Provide a unique name for ea	ch tag contained within this Genie.		
Data ID	Data Source	Tag Name	Genie Value
0	FCBB05262EADC0B147746EE6DFE	Vib01.PV	
			Calicer
	Figure 4-39 Genie	Value	(Calice)
he descriptor `0-100-Ta	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Fold <mark>e</mark> r (2).	
ne descriptor `0-100-Ta * Create a genie	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Sele <mark>ct Fold</mark> er (2).	
he descriptor `0-100-Ta * Create a genie Genie Name	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
he descriptor `0-100-Ta Create a genie Genie Name Enter a name for this Genie.	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
he descriptor '0-100-Ta Create a genie Genie Name Enter a name for this Genie. (Circle-Gauge	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
ne descriptor '0-100-Ta Create a genie Genie Name Enter a name for this Genie. (Circle-Gauge Genie Location	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
he descriptor '0-100-Ta Create a genie Genie Name Enter a name for this Genie. <u>Circle-Gauge</u> Genie Location Select the folder you would li	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
he descriptor `0-100-Ta Create a genie Genie Name Enter a name for this Genie. <u>Circle-Gauge</u> Genie Location Select the folder you would li <i>Genies</i> Select Folder 2	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho	Value ose Select Folder (2).	
ne descriptor `0-100-Ta Create a genie Genie Name Enter a name for this Genie. (Circle-Gauge Genie Location Select the folder you would li <i>Genies</i> Select Folder 2 Tag Table:	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho ke to save this Genie to.	Value ose Select Folder (2).	
he descriptor '0-100-Ta Create a genie Genie Name Enter a name for this Genie. (Circle-Gauge Genie Location Select the folder you would li Genies Select Folder 2 Tag Table: Provide a unique name for ea	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho ke to save this Genie to.	Value ose Select Folder (2). \tilde{v}_{0}^{0}	1
he descriptor '0-100-Ta Create a genie Genie Name Enter a name for this Genie. Circle-Gauge Genie Location Select the folder you would li Genies Select Folder 2 Tag Table: Provide a unique name for ea Data ID	Figure 4-39 Genie g-Limits' to the Genie Value (1). Cho ke to save this Genie to. ch tag contained within this Genie. Data Source	Value ose Select Folder (2). $\widetilde{t_{000}}$	1 Genie Value

Figure 4-40 Genie Value Descriptor – Select Folder

Another pop-up will appear which shows your Personal folder with folders and dashboards that you have previously created.

If the genie is just for your use, choose the Personal option from the drop-down menu. To save your new genie to a particular folder within your personal area select that folder. Otherwise select Ok.

Select Folder	
Genie / Personal > Selected file: No file selected	
 Batteries B. Dashboards Bruce O-Dashboards P-Dashboards R-Dashboards 	
 1-P-CURVE-DOTS CURRENT Farm-Gauge-1 HMI-BX-002140 Hydraulics-1 Instrumentation-1 Marker, CAR 	
AL LINE REPORTED	Cancel (Ok)

Figure 4-41 Select Folder from Personal

If you've chosen to save your new genie to a specific folder, the next pop-up shows the contents of the folder you have chosen (contents greyed out). Select Ok.

Select Folder			
Genie / Bruce / Personal 🗸 Selected file: Bruce			
 Bruce-Genie Bruce-Genie-60px Bruce-Genie-power40 Bruce-Genie-power60 Bruce-Genie-power624 Bruce-Genie-range750 Bruce-Genie-range160 ESO-Bruce-genie-60 ESO-C-Bruce-Genie-60 SWP-Bruce-Genie-60 			
			Cancel

Figure 4-42 Pop-Up - Folder Contents

The final pop-up shows the name of your genie and which folder it's in. On selecting ok a 'Successful' prompt will appear from the bottom left of your screen.

🖤 Create a genie				
Genie Name				
Enter a name for this Genie.			40 50 60	
Circle-Gauge				
Genie Location			10 0 00	
Select the folder you would lik	e to save this Genie to.			
Genies\Bruce (Select Folder)				
Tag Table:				
Provide a unique name for eac	ch tag contained within this	Genie.		
Data ID	Data Source	e	Tag Name	Genie Value
0	FCBB05262EADC0B14	7746EE6DFE	Vib01.PV	0-100-Tag-Limits
				Cancel Ok



If you want to share a genie you have created with others, choose Groups from the drop-down menu instead of Personal and go through the same steps as before.

Note:

You can adapt genies that are already in the genie library.

Select the genie from the library and drag it onto the canvas. Select the genie that's now on the canvas and choose the ungroup icon from the right-side panel.

You are now able to adapt the genie to your own preferences.

Once finished you can group your new genie and add it to the genie library. Go to the Properties area and rename your grouped genie with a relevant description then select Add genie to Library. Go through the same steps as before to add the new genie to either your personal or group area.

Check the genie library to see your updated genie.

4.2.5 Settings

You can set your page to be in run or edit mode by either accessing the settings within the left-side panel OR select Ctrl-E for edit mode or Ctrl-R for run mode.

(Ctrl+Click for more keyboard shortcut information)

🗮 🏾 🏶 Gestalt - PnID								
Dashboards	Ľ							
Time Controls								
Symbol Library	20	:		، ۞ (Glo	bal s	settings	
Genie Library	-	1	BACK	_			*	
Settings	্ঞ		Run /	Edit				
Logout (User Name)	-	ſ	Prefer	ence	es		• [©] Global settings	
						ВАСК		•
						Run /	'Edit	Ċ
						Prefe	rences	ļļļ
	Fig	jure 4-44	Settings	s – Rur	n Mod	e		

Move the Run/Edit toggle to the right to access edit mode.

To edit a page, make sure your settings are set to edit mode (you cannot edit a page in run mode).
4.2.6 Licensing

If you have a stand-alone version of Gestalt PnID you can check your licence status in the left-side panel. Users that don't have a stand-alone version will not see the license option.

4.2.7 Export

Export a version of your dashboard to your desktop or a folder. Select the dashboard from the Dashboards area in the left-side panel. Select Export File and see the page being downloaded at the bottom left of your screen. Once the download is complete you can open or view it in the area it was exported to.

	Dashboards			
	ВАСК	+		
	New	C\$		
	Save	8		
	Export File	L\$		
	Import File	C\$		
	Dashboards			
	Personal Dashboards			
	Group Dashboards			
	Figure 4-45 Export File from PnI			
4.2.8 Import To import a file into PnID select Impo	ort File from the Dashboards area in I	PnID.		
	Dashboards			
	ВАСК	+		
	New	[]		
	Save			
	Export File	L\$		
	Import File	[]		
	Dashboards			
	Personal Dashboards			
	Group Dashboards			

Figure 4-46 Import File into PnID

A pop-up will appear – Choose Select File and browse for the file you wish to upload, select the file.

<pre> Pice Select File Select Copen.</pre>									
File To Import: Please select a file you would like to import. Iv File Selected Select File Import Location: The file will be saved in the following folder: Prilos Bease enter a name for the imported file. Please enter a name for the imported file. Cancel OK Select Open.		🗘 Imp	ort						
<pre>Please select a file you would like to import.</pre>		File To Impo	rt:						
In the Selected Generative Import Location: The file will be saved in the following folder: PhDs: Select Folder File Name: Please enter a name for the imported file. Cancel OK Figure 4-47 Choose - Select File Select Open. Select Open. C genice: New folder Develoads Import Location: (C) Seech Develoads (C) Seech Develo		Please select a	a file vou would like to import.						
Import Location: The file will be saved in the following folder. Prides Select Folder File Name: Please enter a name for the imported file. Cancel OK Figure 4-47 Choose - Select File Select Open. Select Open. Import of the medicies of the model of the m		No File Selecte	ed (Select File)						
The file will be stated in the following folder. <i>PhIDs</i> (Select Folder) File Name: Please enter a name for the imported file. Cancel OK Figure 4-47 Choose - Select File Select Open. Figure 5 Select File Figure 5 Select File Select Open. Figure 5 Select File Figure 5 Select File		Import Local	tion:						
PitDrs @electFolder File Name: Please enter a name for the imported file. Cancel Ok Figure 4-47 Choose - Select File Select Open. Figure 4-47 Choose - Select File Select Open. V V V V V Develoads Plan File V V V V V V V V V V V V V V V V V V V		The file will be	saved in the following folder.						
File Name: Please enter a name for the imported file. Cancel CK Figure 4-47 Choose - Select File Select Open. Cancel CK Copen C C Search Downloads Copen C C Search Downloads C Search Dow		PnIDs (Selec	t Folder						
Please enter a name for the imported file. Cancel OK Figure 4-47 Choose - Select File Select Open. Cancel OK Select Open. Cancel OK Select Open. Cancel OK Select Open. Select Please Select Open. Select Select File Select Open. Select Select Select File Select Open. Select Select Select File Select Select Select Select File Select Select Select Select File Select Select Select Select Select File Select Select		File Name:							
Figure 4-47 Choose - Select File Select Open. Select Open. Incode file Incod file Incode file <td></td> <td>Please enter a</td> <td>name for the imported file</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Please enter a	name for the imported file						
Cancel OK Figure 4-47 Choose - Select File Select Open.									
Figure 4-47 Choose - Select File Select Open.								Ca	incel Ok
Select Open									
Select Open				Figure 4-47 C	hoose – Seleo	t File			
Intelligent Pike	Select ()nen							
Copen Copen <td< td=""><td></td><td>openi</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		openi							
Criganize New folder Organize New folder Intelligent PL# Intelligent PL# <td></td> <td>🥑 Open</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>×</td>		🥑 Open							×
Organize New folder Intercey-Intellige Intelligent PL# Intelligent PL# <t< td=""><td></td><td>$\leftarrow \rightarrow \checkmark \uparrow$</td><td>↓ > Downloads</td><td></td><td></td><td></td><td>~ C</td><td>Search Downloads</td><td>م</td></t<>		$\leftarrow \rightarrow \checkmark \uparrow$	↓ > Downloads				~ C	Search Downloads	م
Intelliger Name Downloads Downloads Downloads Desktop Desktop Intelligert Pl.# Tracey Videos New folders Pictures Pictures Music Timesheets 2.# Nuck 1902 File name tag-shift.PnID Videos		Organize 👻 New fold	der					≣ •	· 🔲 😗
Downloads Desktop Desktop Desktop Desktop Tracey P Tracey P Videos P New folders P Documents Documents Timesheets 2.* File name: tag-shift.PnID VIdeo		> 🌰 Tracey - Intellige	Name	Date modified	Туре	Size			1
Downloads * On-Dark-Blue-002140.PniD 10/04/2023.06:53 PNID File SKB Desktop Intelligent PL* Tracey Prover Site Documents * Documents * Documents * Timesheets 2.* File name: tag-shift.PniD Value			- Ioday						
 Desktop * Intelligent Pk.* Tracey * Videos * Videos * New folders * Pictures * Documents * Documents * Music * Timesheets 2.* File name tag-shift.PnID 		🛓 Downloads 🖈	01-Dark-Blue-002140.PnID	10/04/2023 06:53	PNID File	5 KB			
 Intelligent PL.* Tracey * Videos * New folders * Pictures * Documents * O Music * Timesheets 2.* File name: tag-shift.PnID ✓ All Files (*.*) ✓ 		i Desktop 🖈							
 Altery A Videos A New folders A Pictures A Documents A Documents A Music A Timesheets 2.A File name: tag-shift.PnID V All Files (*.*) V 		Tracey							
 New folders * Pictures * Documents * Music * Timesheets 2 * File name: tag-shift.PnID v All Files (*.*) v 		Videos 🖈							
 Pictures Documents Music Timesheets 2.* Nuext-2022 File name: tag-shift.PnID All Files (*.*) 		New folders 🖈							
 □ Documents ★ ⑦ Music ★ □ Timesheets 2 ★ □ Work 2022 ★ File name: tag-shift.PnID ✓ All Files (*.*) ✓ 		🔀 Pictures 🛛 🖈							1
Music Music Imesheets 2 File name: tag-shift.PnID All Files (*.*)		📔 Documents 🖈							
Timesheets 2 ♪ West 2022 File name: tag-shift.PnID V All Files (*.*) V		🕖 Music 🛛 🖈							
File name: tag-shift.PnID v All Files (*.*) v		Timesheets 2 🖈							
		File	name: tag-shift.PnID				~	All Files (*.*)	~
Open Cancel								Open	Cancel
Figure 4-48 Browse File to Import – Select Open			Figure	4-48 Browse Fi	ile to Import	- Select Open			
The chosen file will appear in the Filename area of the pop-up(2). Select Ok.	The cho	sen file will ap	ppear in the Filename are	ea of the pop	-up(2). Sel	lect Ok.			
🗅 Import		🗅 Imp	ort						
File To Import:		File To Impo	rt:						

File To Import:	
Please select a file you would like to import.	
No File Selected (Select File)	
Import Location:	
The file will be saved in the following folder.	
PnIDs (Select Folder) 3	
File Name:	
Please enter a name for the imported file.	
01-Dark-Blue-002140.PnID 2	
	(Cance)(Ok)



Choose Select Folder(3)

A new pop-up will appear allowing you to choose where the dashboard will be stored. Select either Personal or Group Dashboards from the drop-down options, then double click on a folder and select Ok to save the dashboard to that area.

Select Folder		
PnID / (Personal ~) Selected file:		
 Wind-Farms Oil and Gas Science and Technology Food and Beveridge Pulp and Paper Batteries Solar 		
	(Cancel (Ok)
	Figure 4-50 Import – Select – Personal/Group and Folder	

4.2.9 Share File

Allow other users to view your work. In the left-side panel go to Dashboards and find the file you want to share from either Personal or Group Dashboards. Select the share icon that sits at the top right of the file name area.

	ß	Home			< *	



When the share pop-up opens you will see two tabs – Share and Permissions.

Share Options tab shows:

- Name of the page you are sharing
- Share and Permission tabs
- Copy file URL
- Drop-down menu Users or Groups
- Option to include trusted sources
- Search option to look for a user
- List of users who you can share with
- Previous and Next pages to look through the list of users
- Drop-down menu that gives the options to give Read, Write or Admin permission
- Cancel or Save options

From the Share tab, choose Users, then the name of that user. Select Read, Write or Admin option from the drop-down list. Select Save.

-				
Inform,	Enhance,	Grow.	Intelligentl	j

s	are		Permissi	ons
-				Copy file URL
Users e trusted sources				
(sroups)
Intelligent Plant				
Aida (Registration Test Acc	ount)			
Aida Sorgentini AppStoreDemo				
Bruce Nicolson				
Christopher Lee				•
George Todd Graham Watts				
Gregor McMurtrie				
Jason Cook				
			(F	Previous Page)(Next Page)
(Read V)				
				Games
				Gance
				Cance
	Figure	4-52 Share a File - Pop-l	Up	Cance
o-up will appear saying that	Figure t the share was succ	4-52 Share a File – Pop- l cessful. Select Close.	Up	Cancer
o-up will appear saying tha	Figure t the share was succ	4-52 Share a File - Pop- l cessful. Select Close.	Up	Cance
o-up will appear saying that Success	Figure t the share was succ	e 4-52 Share a File – Pop- l cessful. Select Close.	Up	Cancer
o-up will appear saying that	Figure t the share was succ	e 4-52 Share a File – Pop- l cessful. Select Close.	Up	Cance
o-up will appear saying that Success	Figure t the share was succ	e 4-52 Share a File – Pop- l	Up	Cance
o-up will appear saying that Success File Home.PnID Shared Suces	Figure t the share was succ	e 4-52 Share a File – Pop- le cessful. Select Close.	Up	Cance
o-up will appear saying that Success File Home.PnID Shared Sucess	Figure t the share was succ	e 4-52 Share a File – Pop- l	Up	
o-up will appear saying that Success File Home.PnID Shared Sucess	Figure t the share was succ	e 4-52 Share a File – Pop- l cessful. Select Close.	Up	
up will appear saying that Success File Home.PnID Shared Sucess	Figure 4	4-52 Share a File – Pop-I cessful. Select Close.	Up	
-up will appear saying tha Success File Home.PnID Shared Success issions Options tab shows	Figure t the share was succ fully. Figure 4	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf	Up	
up will appear saying tha Success File Home.PnID Shared Sucess sissions Options tab shows Users – Lists the page	Figure 4 tully.	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf	Up	
o-up will appear saying that Success File Home.PnID Shared Success issions Options tab shows Users – Lists the page Groups – Lists the page	Figure 4	4-52 Share a File - Pop- cessful. Select Close. 4-53 File Shared Successf	Up	
o-up will appear saying that Success File Home.PnID Shared Sucess issions Options tab shows Users – Lists the page Groups – Lists the gro	Figure 4 fully. Figure 4 users and permissions	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf ons they have they have	Up	
-up will appear saying tha Success File Home.PnID Shared Success ssions Options tab shows Users – Lists the page Groups – Lists the gro t the Permissions tab to se	Figure 4 t the share was succ fully. Figure 4 users and permissions ups and permissions e the Users list for t	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf ons they have they have that dashboard.	Up	
up will appear saying that Success File Home.PnID Shared Success Users – Lists the page Groups – Lists the gro t the Permissions tab to se Share – Home.Pl	Figure 4 t the share was succ fully. Figure 4 users and permissions ips and permissions e the Users list for t	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf ons they have they have that dashboard.	Up	
-up will appear saying that Success File Home.PnID Shared Success Users – Lists the page Groups – Lists the gro t the Permissions tab to so Share - Home.Pri	Figure t the share was succ fully. Figure 4 users and permissions e the Users list for t ID	4-52 Share a File – Pop-I cessful. Select Close. 4-53 File Shared Successf ons they have they have that dashboard.	Up	

Fracey Gray Read 🗸 × Aida Sorgentini - Pending Groups No group permissions Cancel Save

Figure 4-54 Users and Groups - Share Pending

The owner has Admin permission and the user you shared with has Read access only to that page. No permission has been granted to Groups. At this point the 'Pending' is set against the user you have shared with. This is because the user hasn't accepted the share yet. You can change a user's permission from Read to Write or Admin, allowing them permission to update the page. Select Save.

Once the user has accepted the share Pending will be removed from that user's name.

Share - Home.PnID		
Share	Permissions	
Users		Copy file URL
Tracey Gray	(Admin 🗸	×
Aida Sorgentini	(Read v)	×
Groups		
No group permissions		
		(Cancel) (Save)
Figure 4-55 Users a	nd Groups – Share Accepted	

Note:

There must be at least one administrator.

When the user you've shared with opens the Personal Dashboards area, they will be prompted that a new share is available to them. When the user accepts the shared file, it is immediately placed in the user's folder.

lew Folder	۲
New Share Available	~
Home.PnID	×
PnIDs	

Note:

- You can share files and folders with trusted sources outwith your organisation
- If you move a file or folder that you've previously shared the shared users will still have access

Group sharing follows the same procedures as user sharing.

Groups that appear in the Group Dashboards area are part of the Industrial App Store Organisation Groups. Any share with a group will extend the privilege level to everyone in that group.

4.3 Right-Side Panel

The Right-Side Panel is immediately visible when you are in edit mode. This panel can be closed by selecting the tab in the middle of the panel.

This panel allows us to control of the following – Tool Bar, Dashboard Properties, Properties, Data & Events, Snap Pixels, Toggle Data Ghost and Display Gradient Controls.

ר. ∼	- A ©	•••• • <>	
Dashbo	oard Propert	ties >	•
Propert	ties	;	•
Data &	Events	;	•
Snap pix	els	3 ~	
Toggle D)ata Ghost		
Display (Gradient Contr	rols 🌔	
	Figure 4-57 Right-Side F	vanel	

4.3.1 Toolbar

The Toolbar options are Select, Colour Palette, Polyline, Rectangle, Arc, Circle, Add Text, Add Image, Add Scatterplot, Add Chart, Add Bar Chart, Add Button, Add Input Control, Add Range Control, Add Embedded Page.

Select is the default icon (highlighted in green).



4.3.1.2 Colour Palette

Hover over the default colour box and either left-click within the box or select (left-click) the down arrow to view the colour palette.



Figure 4-60 Select Icon

Choose from the colours on show or type in the hexadecimal reference. Close the pop-up by clicking on any area outwith the pop-up.



Once you've chosen an option (left-click mouse over icon) the drop-down menu will close. You can now start drawing on the canvas.



Figure 4-63 Polyline Option

If you've chosen the polyline option, pick a start point on the drawing canvas grid and draw a line. Every time you click the mouse you set a point on the drawing canvas grid. Double Click to finish.

Alternatively, you can draw your shape up to its second last point, double click to finish, select the shape and choose the Closed Path option in the Properties area.

	Properties	~	1	
	Lin	⊡ ne 1∨		
	ເມີ ເມີ			
	Property	Value		
	Opacity Dash Length	1		
	Dash Offset	0		
	Dash Space	12		
	Fill Colour	#000000		
	Fillet Radius	0		
»	Flash	Taise V		
	Line Can	round		
	Line Colour	#000000		
	Line Join	round 🗸		
	Line Type	solid 🗸		
	Line Weight	1		
	Linked pnid			
	Rotation	0 truo		
		Filled		
	Gradie	nt Settings		
Figure 4-64	Select Shape	- Closed Path		

If you've chosen the rectangle option, pick a start point on the drawing canvas grid and stretch the box to your desired shape. Double Click to finish.



4.3.1.4 Arc & Circle

Right-click on the arc icon or drop-down arrow to select either the arc or circle option.



Figure 4-66 Arc Icon

Once you've chosen an option (left-click mouse over icon) the drop-down menu will close. You can now start drawing on the canvas.



Figure 4-67 Arc Option

There are several options available when creating arcs.

Arc Type – Draw to Radius

Pick a start point on the drawing canvas and extend the line to the desired radius length. Click for end of radius and move the cursor round to see the Arc take shape, double-click to finish. Select the Arc you have created then choose the Select icon above the Properties area. Go to the Arc properties in the Properties area and see that this arc is of type Draw to Radius, with a line.



Pick a start point on the drawing canvas and extend the line to the desired radius length. Click for end of radius and move the cursor round to see the Arc take shape, double-click to finish. Select the Arc you have created then choose the Select icon above the Properties area. Go to the Arc properties in the Properties area and see that this arc is type Close on Arcs, with a line.



Figure 4-69 Arc Type – Close on Arc Properties

Arc Type – Open Arc

Pick a start point on the drawing canvas and extend the line to the desired radius length. Click for end of radius and move the cursor round to see the Arc take shape. Double Click to finish the Arc. Select the Arc you have created then choose the Select icon above the Properties area. Go to the Arc properties in the Properties area and see that this arc is type Open Arc, with a line.



Figure 4-70 Arc Type – Open Arc Properties

Arc Type – Filled

Pick a start point on the drawing canvas and extend the line to the desired radius length. Click for end of radius and move the cursor round to see the Arc take shape. Double Click to finish the Arc. Select the Arc you have created then choose the Select icon above the Properties area. Go to the Arc properties in the Properties area and choose the Filled option. In the Arc properties area, you can see that this arc type is Draw to Radius, Filled, with a line.



Figure 4-71 Arc Type – Filled Arc-1 Properties

You can select or deselect any option to show that this shape is filled/unfilled with a colour and a line can be shown/hidden.

In the Arc properties area, you can see that this arc type is Draw to Radius and Filled.



Figure 4-72 Arc Type – Filled Arc-2 Properties

If you've chosen the circle option, pick a start point on the drawing canvas and extend the line to the desired radius length, click once on the canvas to see the circle size.

If the circle is too small, then click anywhere outside of the circle to see your new larger circle size. If the circle is too big select anywhere within the circle to reduce in size.

Double Click to finish the Circle.



Figure 4-73 Circle Option

In the Circle properties area, you can see that this circle is not Filled with a line.



Figure 4-74 Circle-1 Properties

In the Circle properties area, you can see that this circle is Filled with a line.

	спкеа рыа		
	Radius	24	
	Rotation	0	
	Visibility	true 🗸	
	X Scale	1	
	Y Scale	1	
	• F	illed	
	Has Line		
. . .	Gradient Settings		

Figure 4-75 Circle-2 Properties

In the Circle properties area, you can see that this circle is Filled with no line.

Linked pnid				
Radius	24			
Rotation	0			
Visibility	true	~		
X Scale	1			
Y Scale	1			
	Filled			
. F	las Line			
Gradie	nt Settings			
cle-3 Propertie	s			
	Linked pnid Radius Rotation Visibility X Scale Y Scale Gradie	Linked pnid Radius 24 Rotation 0 Visibility true X Scale 1 Y Scale 1 Filled Has Line Gradient Settings	Linked pnid Radius 24 Rotation 0 Visibility true X Scale 1 Y Scale 1 Filled Has Line Gradient Settings Cle-3 Properties	Linked pnid Radius 24 Rotation 0 Visibility true X Scale 1 Y Scale 1 Filled Has Line Gradient Settings

Circle/Arc Radius

If your circle or arc needs to be a specific size, select the circle or arc and go to Properties in the Right-Side Panel. Scroll down to Radius and it shows the existing size in pixels. Change size by adding in your new size. Your circle or arc will now show the new size.





4.3.1.5 Text

Select the Text icon.



Figure 4-78 Text Icon

Place the cursor on the drawing canvas area and mouse-click to see a sample of text appear on the screen.

Select that piece of text and go to the Properties area. You can change any property value for the selected piece of text.

Properties that you can change in relation to that piece of text are:

- Bold (True or False)
- Font Type (Choose from the drop-down menu)
- Font-Colour (Type in new hexadecimal value or mouse-click once for colour palette range and choose colour)
- Font-Size (Insert size) is recognised as pixel size
- Italic (True or False)
- Text (Type in your new text description)

Properties	
Tex	⊒ <mark>]</mark> (t 4 ∨
CD	۵ 🗲
Property	Value
Text Height	21.00
Text Width	86.17
Alignment	center 🗸
Opacity	1
Bold	false 🗸
Decimal places	1
Fill Colour	#000000
Flash	taise 🗸
Font Type	Verdana, san: 🗸
Font Colour	#000000
Font Size	28
Hyperlink	
Thelia	
ITALIC	false 🗸
Line Colour	false 🗸
Line Colour Line Height	false
Line Colour Line Height Linked pnid	false
Line Colour Line Height Linked pnid Max Width	false ✓ #0000000 28 0
Line Colour Line Height Linked pnid Max Width Rotation	false #000000 28 0
Line Colour Line Height Linked pnid Max Width Rotation Text	false #000000 28 0 Text 4
Line Colour Line Height Linked pnid Max Width Rotation Text Visibility	false false 28 0 Text 4 true
Line Colour Line Height Linked pnid Max Width Rotation Text Visibility X Scale	false false 28 0 Text 4 true 1
Line Colour Line Height Linked pnid Max Width Rotation Text Visibility X Scale Y Scale	false F000000 28 0 Text 4 true 1 1
Line Colour Line Height Linked pnid Max Width Rotation Text Visibility X Scale Y Scale Gradien	false false 28 0 Text 4 true 1 1 1 1 1 1 1 1

Figure 4-79 Text Properties

4.3.1.6 Add Image

There are two ways to add images to your page:

- Copy files into the images folder on a web server if you are a standalone user
- Drag an image from your desktop directly onto the canvas

All images are encoded in Base64 and stored within your page.

If images are copied to the images folder on a web server a standalone users can select the Add Image icon.



Place the cursor on the drawing canvas and mouse-click once to see a sample image appear on the screen. Select that sample image and go to the Properties area. In the Source row, type in the name and file type of the image (Images/Your-Image-Name.jpg) from your web server. Save and refresh your dashboard. Your image should appear on the canvas. It is also good practise to rename the 'Unnamed Image 5' to match your image name.



Figure 4-81 Standalone User - Image Name and Source Reference

To add an image from your desktop. Select the image and drag it onto the canvas. Make sure you are in edit mode and that the left-side panel is closed.

If you need to change the image dimensions, select and group the image – this will keep the image aspect ratio. Select the bottom right green square of your grouped image, hold down the left button of your mouse and move the mouse until you get to your required size.

Adding an image to your page this way means that you do not have to change any of the info that's in the Source area.

Properties		~
Unnamed	ம் d Image 5∨	
ຍ ເງ		
Property	Value	
Opacity	1	
Flash	false 🗸	
Height	4500	
Hyperlink		
Linked pnid		
Resx	true	
Rotation	0	
Source	data:image/png;ba:	
Visibility	true 🗸	
Width	1920	

Figure 4-82 Image Height and Width

4.3.1.7 Scatterplot, Sparkline and Bar Chart

Right-click on the scatterplot icon or drop-down arrow to select either the scatterplot, sparkline or barchart option.



Figure 4-83 Add Scatterplot Icon

Once you've chosen an option (left-click mouse over icon) the drop-down menu will close. You can now start drawing on the canvas.



Figure 4-84 Scatterplot Option

If you've chosen the scatterplot option, pick a point on the canvas and draw your scatterplot area (This is similar to the Rectangle, where you pick a point on the screen and make the shape of a rectangle or square). Double click to finish.

The Scatterplot pop-up appears. Add the Number of Data Points per Pair. Click underneath the X-Axis and Y-axis titles to add your tags.

🖄 Scatter	plot 0						
Number of Points pe	er Pair: ()	0					Ô
X-Axis		Y-Axis	Marker Colour	Marke	er Type	A	ctions
Click to Add a T	Tag Clie	ck to Add a Tag		Circle	es 🗸		×
						C	ancel (Save)

Figure 4-85 Scatterplot Pop-Up

Select the Datasource name from the drop-down menu. Add a wildcard or tag name in the search area, select the search button and select one of the tags from the available tag list. Select Ok.

Please select a tag	
To add a tag to this binding, simply query for it using the tools below, select it, and pr	ess ok.
Please select a Datasource	~
Search Method: Search Query V	
Search: (* (Search)	
Available Tags:	
Tags Returned: 0	¥
	Cance Ok)

Figure 4-86 Select Datasource, Search and Add Tags for X and Y Axis

Left-click in the marker colour box to view the colour pop-up option. Choose from the colours on show or type in the hexadecimal reference in the pop-up. Left-click to close the pop-up.

🖄 Scatte	erplot 1			
Number of Point	s per Pair: 6	0		õ
X-Axis	Y-Axis	Marker Colour	Marker Type	Actions
Head	Flow		Circles V	X (Cancel) (Save
		Figure 4-87 Scatter Plot Marke	er Colour – Palette	
🖄 Scatte	erplot 1			
Number of Points	s per Pair: 0	0		C
X-Axis	Y-Axis	Marker Colour	Marker Type	Actions
Head	Flow	#717073	Circles v	Cancel) (Save
		Figure 4-88 Scatterplot Mark	er Colour Chosen	
elect your Marker T	ype.			
🖄 Scatte	erplot 1			_
Number of Point	s per Pair: 0	•		C
X-Axis	Y-Axis	Marker Colour	Marker Type	Actions
Head	Flow	(#717073	Circles V Circles Crosses Dots	Cance Save

Figure 4-89 Scatterplot Marker Type

Select Save.

You can add more than one scatterplot to the scatterplot you have just created. In the pop-up select the Add Tag icon at the top right-hand side. Add your new tags for x and y as previous, set a new marker colour and marker type. Select Ok to finish.

To view your scatterplot, go to the left-side panel and select time controls. Move the toggle button to the right to view your scatterplot.

🕮 Time	
istorical	
lefresh Interval	35
itart Time 🛛 🔳	*-10d
nd Time 📖	
itep	1h
unction	Interp V
pply	✓ •····•
lay	
ime Controls	

You can edit a scatterplot at any time. Select the scatterplot that's on your canvas. Go to Properties in the right-side panel and select Edit Scatterplot.



A pop-up will appear that shows the data in your scatterplot, edit colours, add or remove tags by left-clicking on any option. Select Save to finish.

🖄 Scatte	erplot 1			
Number of Point	s per Pair: 0	0		6
X-Axis	Y-Axis	Marker Colour	Marker Type	Actions
Head	Flow	#717073	Circles 🗸	×
				Cance (Save)
		Figure 4-92 Edit Scatter	blot Pop-Up	



Figure 4-93 Sparkline Option

If you've chosen the sparkline option, pick a point on the canvas and draw your sparkline area (This is similar to the Rectangle, where you pick a point on the screen and make the shape of a rectangle). Double click to finish.

Select your datasource, search and add your tag from the tag pop-up. Select Ok.

The sparkline pop-up appears. Add the Number of Data Points. Add the maximum and minimum range values for the Y-Axis.

Left-click in the line colour box to view the colour pop-up option. Choose from the colours on show or type in the hexadecimal reference in the pop-up. Left-click to close the pop-up. Select Ok.



Figure 4-95 Sparkline Pop-Up Completed

Select Ok. Additional sparklines can be added to a sparkline object that has just been created. In the pop-up select the Add Tag icon at the top right-hand side. Add your new tag and line colour. Select Ok to finish.

To view your sparkline, go to the left-side panel and select time controls. Move the toggle button to the right to view your sparkline.

🔳 🗰 Time		
васк		+
Historical		D
Refresh Interval	3s	
Start Time	*-10d	
End Time	*	
Step	1h	
Function	Interp	~
Apply	~	
Play		
Time Controls	C	

Figure 4-96 Sparkline – Time Controls

You can edit a sparkline at any time. Select the sparkline that's on your canvas. Go to Properties in the right-side panel and select Edit Sparkline.





A pop-up will appear that shows the data in your sparkline, edit by left-clicking any of your properties. Delete a tag by selecting the cross below Actions. Select Ok to finish.

Sparklir 🗠	ne				
Number of Data Poir Maximum Range Va Minimum Range Val	Its:28Iue for Y Axis100ue for Y Axis0	0 0 0			
					6
Data Source	Tag Name	Line Colour	Invert?	Fill Area?	Actions
Oil Co Demo (Demo Data Sources - IPAppStoreNode)	LIC001	(#717073)			×
					(Cancel) (Ok)

Figure 4-98 Edit Sparkline Pop-Up



Figure 4-99 Bar Chart Option

If you've chosen the Bar Chart option, pick a point on the canvas and draw your Bar Chart area (This is similar to the Rectangle, where you pick a point on the screen and make the shape of a rectangle). Double click to finish.

Select your datasource, search and add your tag from the tag pop-up. Select Ok.

The Bar Chart pop-up appears. Add the Number of Bars per Tag. Add border Thickness for the bars (leaving at 0 to disable the bar chart borders), set the Bar Width in pixels (leaving at 0 will mean that the width of each bar will be calculated automatically). From the drop-down menu for Aggregate Type, choose either Sum (Adds all tag values for the interval and displays the total value for the bar) or Averages (Displays an average of all values in the interval).

Left-click in the Border Colour and Fill Colour box to view the colour pop-up option. Choose from the colours on show or type in the hexadecimal reference in the pop-up. Left-click to close the pop-up. Select Ok.



Figure 4-100 Bar Chart Pop-Up Completed

By adding the three tags above to the area you set for your bar chart will give you the following bar chart:

Bar Chart Size							

Figure 4-101 Bar Chart on Canvas

You can edit a bar chart at any time.

Select the bar chart that's on your canvas. Go to Properties in the right-side panel and select Edit Bar Chart. A pop-up will appear that shows the data in your chart, edit colours, add or remove tags.

					Properties		~
		Ba	r Chart	Size	Ba	喧 r Chart 0∨	
					CĽ		
🔟 Bar Chart					Property Aggregation	Value Sum	~
Number of Design Trans					Opacity	1	
Number of Bars per Tag: Border Thickness					Bar Width	80	
Bar Width (px):	80 0				Bar	1	
Aggregate Type:	Sum 🗸				Flash	false	~
35 5 11					> Height		
				\odot	Line Weight	0	
Data Source	Tag Name	Border Colour	Fill Colour	Actions	Linked pnid	0	
FCBB05262EADC0B147746	LIC001	#FF0000	#FF0000	x	Visibility	true	~
Co Demo					Width	240	
FCBB05262EADC0B147746 Co Demo	LIC002	#FF6600	#FF6600	×			
FCBB05262EADC0B147746 Co Demo	LIC003	#006600	#006600	ж	Data & Ev	ents	>
				Cancel) Ok			12 🗸

Figure 4-102 Edit Bar Chart

Any number of tags can be configured to be displayed in the chart, as well as the number of bars to show per tag. The number of bars you select will dictate the interval at which data is aggregated and is calculated from the dashboard's configured time range:

e.g. A dashboard configured for a 24 hour period with a bar chart that contains 24 bars per tag will aggregate the data on an hourly basis.

You can choose from two types of aggregations to be applied, Sum or Average, where Sum will add all the values within an interval and Average will provide an average of all of the values in an interval.

🔟 Bar Chart				
Number of Bars per Tag:	3 0			
Border Thickness:	0 0			
Bar Width (px):	80 08			
Aggregate Type:	Sum 🗸			
	Averages			
				\odot
Data Source	Tag Name	Border Colour	Fill Colour	Actions
FCBB05262EADC0B147746	Flow	#717073	#717073	*
Co Demo	110			* *
				Cancel Ok

Figure 4-103 Bar Chart – Aggregate Types

Using the configuration displayed above will result in the following bar chart:



Figure 4-104 Bar Chart – One Tag with Aggregate Type - Sum

4.3.1.8 Button, Input and Range Control

Add Button, Add Input Control and Add Range Control are Functional components. They allow user interaction to be added to your page and allow custom events to be assigned to them. Choosing one of these options allows you to enable different events.

(Ctrl+Click for more event information)



Figure 4-105 Button Icon

Right-click on the add button icon or drop-down arrow to select either the add button, input control or range control option.



Figure 4-106 Button Option

If you've chosen the Add Button option, click once on the canvas to see your button appear. Select the button, the rightside panel will open and the properties panel will show the properties of that button.

You can change many properties of this button to make it look different.

Properties D Button 0 СIJ Property Value Opacity Border radius 0 **Fill Colour** #00 Flash false Arial, sans-ser 🗸 Font Type #00 Font Colour Font Size Height 20 Hyperlink Line Colour Linked pnid Maximised false Rotation 0 Button Value Visibility true Width 100

Figure 4-107 Button Properties

An example of how you can change properties of a button.

	But	ां Button 0∨			
	CD				
	Property	Value			
	Opacity	1			
	Border radius	6			
	Fill Colour	#717073			
	Flash	false 🗸			
	Font Type	Verdana, sans 🗸			
	Font Colour	#e7e6e6			
Select	> Font Size	10			
	Height	24			
	Hyperlink				
	Line Colour	#717073			
	Linked pnid				
	Maximised	false			
	Rotation	0			
	Value	Select			
	Visibility	true 🗸			
	Width	120			

Figure 4-108 Button Properties - Updated

The changes made to the original button were – Border Radius (6), Fill and Line colour (#717073), Font Colour (#e7e6e6), Height (24), Value (Select), Width (120).

Select the button on the canvas and choose Data & Events from the right-side panel. Select the Manage Events Icon

Data & Events	~ •
\$ 4 , 8	
Figure 4-109 Manage Events Icon	

The Event Manager pop-up will appear allowing you to select your event type and add the relevant code.

🗲 Button	0 Event Manager
onblur	
onchange	
onclick	
ondblclick	
onfocus	
oninput	
onkeydown	
onkeypress	
onkeyup	
onmousedown	
onmouseenter	
onmouseleave	
onmousemove	
onmouseup	
onmousewheel	
	(Cancel) (Save)

Figure 4-110 Event Manager – Event Types

Follow the above steps for all functional components (Add Button, Add Input Control, Add Range Control).

(Ctrl+Click for more event information)

If you've chosen the Add Input Control option, click once on the canvas to see your input control appear. Select the box, the right-side panel will open and the properties panel will show the properties for that input control.



Figure 4-111 Input Control Option

You can change many properties of this input control to make it look different.



Figure 4-112 Input Control Properties

An example of how you can change properties of an input control button.



Figure 4-113 Input Control Properties - Updated

The changes made to the original input control were – Fill and Line colour (#AFABAB), Height (22), Value (My Text), Width (118).

Follow the steps as indicated previously for all functional components – Select the component on the canvas then choose the manage events icon within data and events area. When the pop-up appears choose the event type and add the relevant code.

(Ctrl+Click for more event information)

If you've chosen the Add Range Control option, click once on the canvas to see your range control appear. Select the range control, the right-side panel will open and the properties panel will show the properties for that range control.



Figure 4-114 Range Control Option

You can change some properties of this range control to make it look different.



Figure 4-115 Range Control Properties

An example of how you can change properties of a range control.



Figure 4-116 Range Control Properties - Updated

The change made to the original range control were – Width (118). At this point you cannot change the colour of the input control.

Follow the steps as indicated previously for all functional components – Select the component on the canvas then choose the manage events icon within data and events area. When the pop-up appears choose the event type and add the relevant code.

(Ctrl+Click for more event information)



Figure 4-117 Add Embedded Page Icon

Pick a point on the canvas and draw your embedded page area (This is similar to the Rectangle, where you pick a point on the screen and make the shape of a rectangle or square). Double click to finish. The home page in PnID is set as a placeholder.



Figure 4-118 Embedded Page Placeholder

Go to the Properties area in the right-side panel and the row named source shows the url of the default page that is embedded in this place holder (https://gestalt.intelligentplant.com/).



Figure 4-119 Default Embedded Page URL

To update the embedded page link, delete the existing URL and add the new one, for example (new URL):

https://appstore.intelligentplant.com/

Once the URL has been copied hit return on your keyboard and the embedded placeholder should now show the new link that has just been added.

Note:

Websites that enforce a same-origin policy cannot be displayed in the embedded placeholder.



Figure 4-120 Updated Embedded Page URL

4.3.2 Dashboard Properties

In the Dashboard Properties area, the properties relate to the canvas.

- Auto Fit When set at True, will fit the view to the bounds of your PnID
- Event Freq How frequent the onTimer event will run in the background
- Fill Colour Change Background colour of canvas
- Height Change limits height
- Padding Can be applied to the dashboard
- Run Events Turns events on/off
- Width Change limits width
- Page Zoom Drop-down box that gives the options, zoom to fit, width or height
- Generate Template Files Generate many files from a template

Dashboard Properties					
Property	Value				
Auto Fit	false	~			
Event Freq	10				
Fill Colour	#CCCCCC				
Height	600				
Padding	0				
Run Events	true	~			
Width	800				
Page Zoom	fit	~			
Generate T	emplate Files				

Figure 4-121 Dashboard Properties

4.3.3 Properties

To enable properties - Select a component from the canvas. Different properties are shown depending on what component you selected from your canvas.

Selecting a line will give you properties for that line.



The Line has a reference name Line 1 (you can rename this). The Line Colour is black, Line Weight is 1, Line Type is solid.

টা Text 0∨ CO Property Text Height Value 21.00 Align ent Text Decimal plac Flash Font Type Font Colou Font Size Italic Line Colou Line Height Linked pnid Max Width Text X Scale Y Scale Gradient Settings

Figure 4-123 Selected Text Properties

Selecting a piece of text will give you properties for that piece of text.

The text has a reference name Text 0 (you can rename this). The text has Alignment center, if a tag binding is added to this piece of text, it will have one Decimal Place(s) after the point. The Font Type is Verdana, Font Colour is black, Font Size is 28px. The actual text descriptor is Text 0.

Selecting two or more components will initially only enable a user to set the alignment of those two components together. To update properties of each component, select the icon (>) to the right of each component name 'Text 0' or 'Line 1' to see all of that component's properties.



4.3.3.1 Grouping

To group lines or shapes choose the Select icon from the tool bar. Select the items to group then select the Group icon from the Properties area.



You can now change some properties in a group without ungrouping. To change the text colour in a group, double-click on the text. Choose Text 1> in the properties area.

	Properties Y
	医非白斑
	甲制业量
	Group 2> Text 1>
XXX.X	Data & Events
	Snap pixels 🛛 💙
	Toggle Data Ghost

Figure 4-128 Changing Text colour within a Group - Properties

The existing text colour can be changed by clicking in the Font Colour area(1). You can either choose from the colour wheel or add the hexadecimal reference(2). Click anywhere to remove the colour wheel.



Figure 4-129 Changing Text colour

To change linework colour make sure that you double-click on one of the green handles at the corner of the line.



4.3.3.2 Copying

Select your object to copy and right click on your mouse and a pop-up will appear.

Select copy then right click again and select paste. Alternatively, you can copy using the keyboard. Select the object to copy and select Ctrl-C to copy, then select Ctrl-V to paste.

If you have an item in the Symbol Library, drag the item from there onto the drawing canvas and copy as many times as you require. Alternatively, just keep dragging the same symbol from the library onto the canvas as required.

4.3.3.3 **Bring to Front/Send to Back**

Select the shape or line you want to 'Bring to Front' or 'Send to Back'. Select the icon from the Properties area.



Figure 4-131 Circle – Send to Back



Figure 4-132 Bring to Front Icon



Figure 4-133 Circle Now in Front



Figure 4-134 Circle Now in Front



Figure 4-135 Send to Back Icon



Figure 4-136 Circle Now Behind

4.3.3.4 Rotation

Using the Rotation icons in the Properties area you can rotate a grouped object by 90-degree increments.

To rotate clockwise or anti-clockwise, Select the object to rotate and choose either of the rotate icons.



Figure 4-137 Shape – Original Position



Figure 4-138 Rotate Clockwise Icon



Figure 4-139 Original Shape Now Rotated Clockwise



Figure 4-140 Rotate Anti-Clockwise Icon



Figure 4-141 Original Shape Now Rotated Anti-Clockwise

Note:

To rotate text or an object you can also use the rotate feature in the Properties area.

Select your text or grouped object.

In the Properties area scroll down to Rotation and add the new rotation angle.



Figure 4-142 Text Rotation – Input Rotation Amount

4.3.4 Data & Events

Selecting an icon from left to right allows you to Link Data, Manage Events or get the tag list.



4.3.4.1 Link Data

From the canvas select the object you would like to add data bindings to. Select the Data & Events option from the Right-Side Panel to open.

	D	ata & Ev	ents	~		
		Ø	€,>			
		Figure 4	-144 Link Data Icon			
Select the Link Data icon						
Text Bindings						
When the pop-up appear	s select the icon	at the right si	de of the pop-up.			
Text 0 Bindi	ngs					
Bound Property	Data Source	Tag Name No bindii	Data Range/State ngs to display	OffSet	Value	Close
		Figure 4-145 1	ext Bindings – Select Id	con		
Select Add Data icon.						
🕜 Text 0 Bindi	ngs					
Bound Property	Data Source	Tag Name	Data Range/State	OffSet	Value	Actions
						6
						Close



Select the Datasource name from the drop-down menu. Add a wildcard or tag name in the search area, select the search button and select one of the tags from the available tag list. Select Ok.

Please select a tag	
To add a tag to this binding, simply query for it using the tools below, select it, and press OK.	
Please select a Datasource	~
Search Method:	
Search Query 🗸	
Search:	
Search	
Available Tags:	
	~
Tags Returned: 0	
Cance	UK
Figure 4-147 Select Datasource, Search, Add Tag	
You will see that the selected Datasource and tag name appear in this pop-up.	
Text 0 Bindings	
Bound Property Data Source Tag Name Data Range/State OffSet Value Act	ions
text V Oil Co Demo (LIC001 min max 0 Pre-Text Post-Text)	×
e de la constante de	8
	Close
Figure 4-148 Text Bindings – Datasource and Tag Name	
• Go to the Bound Property drop down list and select Text. Set the Data Range for the text	
• Add a Pre-Text descriptor if you want any text to appear before the completed text binding	
• Add a Post-Text descriptor if you wa <mark>nt any</mark> text to appear a <mark>fter th</mark> e text binding	
• If no Value Pre-Text or Post-Text is needed select the Save icon on the right-hand side, then select Cl	ose
Text 0 Bindings	
Round Property Data Source Tag Name Data Dange /State OffCet Value	
text FCBB05262EADC LIC001 (0 - 100) 0 - %	Ø
	Close

Figure 4-149 Text Bindings

The last pop-up shows all the binding properties for that piece of text. Select Close.

With your page in run mode, you can see how the tag is performing in real time by selecting the Play icon in the Time Controls area in the left-side panel.

Colour Bindings

Select the shape you want to add a colour binding to and choose Link to Data from the right-side panel. When the pop-up appears select the icon at the right side of the pop-up.

	Ings					
ound Property	Data Source	Tag Name No bindir	Data Range/State ngs to display	OffSet	Value	Close
		Figure 4-1	50 Colour Bindings – Sele	ct Icon		
ct the left icon	at the right side o	of the pop-up.				
Arc 1 B	indings					
Bound Property	y Data Source	Tag Name	Data Range/State	OffSet	Value	Actions
		Figure	4-151 Select Add Data Ic	on		
ct the Datasour	rce name from the ne of the tags fro	e drop-down m om the available	enu. Add a wildcard o a tag list. Select Ok.	or tag name in t	he search area,	select the se
t the Datasour on and select o Please s	rce name from the ne of the tags fro select a tag	e drop-down m om the available	enu. Add a wildcard c tag list. Select Ok.	or tag name in t	he search area,	select the se
ct the Datasour on and select o Please s To add a tag to the Datasource:	rce name from the ne of the tags fro select a tag his binding, simply qu	e drop-down mom the available lery for it using the	enu. Add a wildcard o a tag list. Select Ok. tools below, select it, and	pr tag name in t press OK.	he search area,	select the se
t the Datasour on and select o Please select of Datasource: Please select a Da	rce name from the ne of the tags fro select a tag nis binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard o a tag list. Select Ok. tools below, select it, and	pr tag name in t press OK.	he search area,	select the se
t the Datasour on and select o Please select and Datasource: Please select a Da Search Methods Search Query	rce name from the ne of the tags fro select a tag his binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard c tag list. Select Ok.	pr tag name in t	he search area,	select the se
ct the Datasour on and select of Please select Datasource: Please select a Da Search Method: Search Query ~ Search: *	rce name from the ne of the tags fro select a tag his binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard o a tag list. Select Ok. tools below, select it, and	pr tag name in t	he search area,	select the se
ct the Datasour on and select of Please select and Datasource: Please select a Da Search Methods Search Query ~ Search: * Search	rce name from the ne of the tags fro select a tag his binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard o a tag list. Select Ok.	press OK.	he search area,	select the se
t the Datasour on and select of Please select and Datasource: Please select a Da Search Method: Search Query ~ Search: (* Search) Available Tags:	rce name from the ne of the tags fro select a tag nis binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard o	pr tag name in t	he search area,	select the se
t the Datasour on and select of Please select a Datasource: Please select a Da Search Method: Search Query v Search: * Search Available Tags: Tags Returned: 0	rce name from the ne of the tags fro select a tag nis binding, simply qu tasource	e drop-down mom the available	enu. Add a wildcard o a tag list. Select Ok.	press OK.	he search area,	select the se

Figure 4-152 Datasource, Search and Available Tags

Select the Datasource name from the drop-down menu. Select the Search button and select one of the tags from the available tag list. Select OK.

Note:

In the Search area wildcards can be used.

You will see that the Datasource and tag names already chosen, appear in the pop-up.

Go to the Bound Property drop down list and select fill-colour. Set the Data Range for the fill-colour. Change the Value default colour if needed by either typing in the hexadecimal value or click in the Value box for the colour palette. Once you have chosen the colour, select Close to close the palette. Select the Save icon on the right side. Select Close.

Arc 1 Bind	dings					
Bound Property	Data Source	Tag Name	Data Range/State	OffSet	Value	Actions
(fill-colour v)	Oil Co Demo (LIC001	0 50	0	(#FF0000)	×
(fill-colour 🗸	Oil Co Demo (LIC001	50 100	0	(#006600)	×
						Close)
		Figure 4-153 Dat	asource, Tag Name and C	Colours		

The last pop-up shows all of the binding properties for that object. Select Close.

Arc 1 Bin	dings								
Bound Property	Data Sourc	e	Tag Name	Data R	ange/State	OffSet	: \	Value	
fill-colour	FCBB05262EAD	DC	LIC001	(0) - 50)	0	#	FF0000	
fill-colour	FCBB05262EAD	DC	🗆 LIC001	(50	0 - 100)	0	#(006600	
									Close

Figure 4-154 Data Bindings Complete

With your page in run mode, you can see how the tags perform in real time by selecting the Play icon in the Time Controls area in the left-side panel (In run mode this shape will be red when the data falls between 0-50 and green when the data falls between 50-100).

You can also set colour bindings to line-colour and font-colour. These options can be found in the Bound Property drop down menu.

Fill Animation (X or Y)

If you have a shape where the fill animation will go in an upward/downward direction (Y-axis) choose the top two nodes of that shape. If you have a shape where the direction will go to the right/left (X-axis) choose the nodes that are at the right side of your shape.



Figure 4-155 X or Y Animation
Select the two nodes at the right side of the x animation rectangle or top two of the y animation. Select the link data icon from data and events area in the right-side panel. When the pop-up appears select the icon at the right side of the pop-up.

Bound Property	Data Source	Tag Name No bind	Data Range/State dings to display	OffSet	Value	•
						C
		Figure 4-156 X o	r Y Fill Animation – Select	Icon		
t the left icon at t	he right side of th	ne pop-up.				
t the left icon at t	the right side of th 1 Bindings	ne pop-up.				
Rectangle Bound Property	the right side of th 1 Bindings Data Source	ne pop-up. Tag Name	Data Range/State	OffSet	Value	Actio
Rectangle Bound Property	the right side of th 1 Bindings Data Source	ne pop-up. Tag Name	Data Range/State	OffSet	Value	Actio

Select the Datasource name from the drop-down menu. Add a wildcard or tag name in the search area, select the search button and select one of the tags from the available tag list. Select Ok.

Please select a tag			
To add a tag to this binding, simply query for it using the tools b	elow, select it, and pr	ress OK.	
Datasource:			
Please select a Datasource			~
Search Method:			
Search Query 👻			
Search:			
ж 			J
Search			
Available Tags:			
			~
Tags Returned: 0			
			Cancel Ok



You will see that the Datasource and tag name now appear in the pop-up. Go to the Bound Property drop down list and choose x or y. Set the Data Range for the Bound Property. Set the Value – Scale Minimum and Scale Maximum. Save Changes. Select Close.

Rectangle	1 Bindings					
Bound Property	Data Source	Tag Name	Data Range/State	OffSet	Value	Actions
(x v)	Oil Co Demo (Vib1	0 100 Scaling: Linear	0	-120 0	X
						Close



Note 1:

The Scale Minimum and Scale Maximum settings are the amount you want the element to be displaced in pixels based on the data value.

With your page in run mode, you can see how the tag is performing in real time by selecting Time Controls in the leftside panel.

If you have set the fill animation on the Y axis you should see the animation move vertically in size depending on the real time data that is coming through. If you have set the fill animation to the X axis you should see the animation move horizontally.

You can change both the Data Minimum/Data Maximum and the Scale Minimum and Scale Maximum in the property bindings. The Scale Maximum amount is derived from the total size of your fill animation.

For example:

The screenshot below shows that the fill shape is 10 grid squares high so the Scale Maximum in the Data Binding will be $-120 (10 \times 12)$ and Scale Minimum will be 0.

Whatever the size of the fill shape, it should be multiplied by 12 to get its Scale Maximum. Remember to set the scale maximum number as (-) minus because the top two handles of this object that were chosen to bind this object are classed as being at zero. Therefore, anything below that would be a minus number.



Figure 4-160 Y Fill Animation -Example

A Fill Animation that measures 6 grid boxes high would mean the Scale Maximum would be -72 (6 x 12) and Scale Minimum 0.

Note 2:

When you add additional tags to your dashboard the pop-up now stores the recent tags used.

Please Select a Tag		
To add a tag to this binding, simply query for it using	g the tools below, select it, and press OK.	
Datasource:		
Oil Co Demo (Demo Data Sources - IPAppStoreNode)		~
Search Method:		
Search Query 🗸		
Search:		
*lic		
Search		
Available Tags:		
LIC005		~
Tags Returned: 20	_	
Recent Tags:		
Oil Co Demo (Demo Data Sources - IPAppStoreNode)		
LIC005 LIC004		
LIC003		
LICUU2 LICUU1		
		(Cancel)(Ok



4.3.5 Event Manager

The event manager allows you to implement customised logic into your dashboard via a JavaScript scripting engine.

You can write JavaScript to access the properties of components that exist within the dashboard and generate the following set of restricted actions:

- Writing a value to a datasource
- Change a component property
- Set position of a component

This script can then be assigned to an event, which will run when that event occurs.

Data & Events

4.3.5.1 Event Types

Select the manage events icon from the right-side panel.

Figure 4-162 Manage Events Icon

(Ctrl+Click to go back to button, Input & Range Control)

The event manager pop-up will appear. The initial event options are on the left-hand side, these are global events and are not specifically tied to components.

		Glo	bal I	Ev	ents		
Event Ty	уре						Trigger
onValueUp	odate			V tl	/hen ne da	new v ashboa	alue is pushed to rd
OnTime	er			C c p	n a s onfig rope	set inte ured b rty eve	erval which can be y the PnID ent frequency

Figure 4-163 Global Events Table

🗲 PnID I	Event Manager
	$\odot \boxdot \boxdot \boxdot \boxdot \boxdot \boxdot$
onValueUpdate	
onTimer	
	Cancel Save

Figure 4-164 Event Manager – Pop-Up

The top right-hand side of the pop-up shows the component tool bar, from left to right they are:

- Play Button (test script)
- Add new write value action
- Add new property change action
- Add new set position action
- Add new set query action
- Add new component reference
- Add new tag reference
- Add a new get tag value reference
- Add a new get tag data reference

🗲 PnID	Event Manager
onValueUpdate	
onTimer	
	Cance) Save

Figure 4-165 Event Manager – Component Tool Bar

To enable the event type onValueUpdate add a text object to your canvas, to be able to identify this text in the upcoming steps rename it in the properties area.

2	4-Text Dashboard Properties Properties 24-Text
PnID Event Manager ontvalueUpdate ontimer	Image: Section of the section of t
	Line Colour de Cocco Line Height 23 Linked pnid Max Width 0 Text 24-Text 24-Te
Fig	Gradent Setings

You can check your new reference to this piece of text by selecting the 'Add a New Component Reference' icon.

🗲 PnID E	Event Manager	Image: State of the state o
onValueUpdate on Limer		
		Cancel Save
	Figure 4-167 Event Manager – onVal	ueUpdate – Add New Component Reference

A pop-up will appear, and the name of your component can be seen. If there are many components in the pop-up select the actual name reference (will turn grey) then choose the Select button. The text reference now appears in the event manager. Type in the relevant code.

	Select a Compone	ent			
	Id	Name	Туре	In Group?	
	l36kzn	24-Text	Text	No	
					Cancel
		Figure 4-168 Event Manager – c	onValueUpdate – Select C	component Pop-Up	1
On c	hoosing the Select butto	n the pop-up will close, and	d Add Button.		
Sele	ct the Add Button icon.				
			۵.		
		רי ר _י A	1 6 💷 - 🕿 🚬		
		Dashboard	Properti	>	
		Properties		~	
Click	and on the convector	Figure 4-	169 Add Button Icon		
CIIC	t once on the canvas to s	ee your button appear.			
			Button		
		Figu	re 4-170 Button		

In the right-side panel choose the select icon and select the button that was just placed on the canvas.



Go to the right-side panel and open Data & Events. Select the Manage Events icon.



Figure 4-172 Manage Events Icon

The options to choose from in the Event Manager are:

Componen	t Events		
Event Type	Trigger		
onblur	When component loses focus		
onchange	When component value changes		
onclick	When component is clicked		
ondblclick	When component is double clicked		
onfocus	When component gains focus		
oninput	When component receives input		
onkeydown	When key is pressed down whilst component has focus		
onkeypress	When key is initially pressed whilst component has focus		
onkeyup	When key is released whilst component has focus		
onmousedown	When a mouse button is pressed down whilst a component has focus		
onmouseenter	When mouse cursor initially hovers over component		
onmouseleave	When mouse cursor leaves hovered component		
onmousemove	When mouse is moved over a component		
onmouseup	When a mouse button is released whilst a component has focus		
onmousewheel	When scroll wheel is used whilst a component has focus		

Figure 4-173 Component Events Table

Select onclick from the left side options, then select the Add a New Write Value Action from the right-side options. There are place holders that show what should be typed in the write value area.

🗲 Buttor	n 0 Event Manager	
onblur	<pre>i 1 writeValue("[Datasource Name]", "[Tag Name]", "[Value To Write]", "[Note]", "[Su</pre>	ccess Callback]", "[Fail Callback]")
onchange		
onclick		
onabiclick		
onfocus		
oninput		
onkeydown		
onkeypress		
onkeyup		
onmousedown		
onmouseenter		
onmouseleave		
onmousemove		
onmouseup		
onmousewheel		
	.(
		Cancel Save
-		

Figure 4-174 Event Manager – onclick – Add a New Write Value Action

Select onclick from the left side options, then select the Add a New Property Change Action from the right-side options. There are place holders that show what should be typed in the change property area.

🗲 Buttor	n 0 Event Manager	() (<mark>) () () () () () () () () () () () () ()</mark>
onblur	<pre>i 1 writeValue("[Datasource Name]", "[Tag Name]", "[Value To Write]", "[Note]", "[Su</pre>	ccess Callback]", "[Fail Callback]")
onchange		
onclick		
onddiclick	1	
onfocus		
oninput		
onkeydown		
onkeypress		
onkeyup		
onmousedown		
opmouseleave		
onmousemove		
onmouseup		
onmousewheel		
		Cancel Save

Figure 4-175 Event Manager – onclick – Add a New Property Change Action

Select onclick from the left side options, then select the Add a New Set Position Action from the right-side options. There are place holders that show what should be typed in the set position area.

🗲 Select	Event Manager			⊙ ∅ ∉ <mark>∅</mark> ≅ € ∅ ≅ €
onblur	<pre>i 1 setPosition("[Component Id]", "[X Position]", "[Y Pos</pre>	sition]")		
onchange				
onclick				
ondbiclick				
onfocus				
oninput				
onkeydown				
onkeypress				
onkeyup				
onmousedown				
onmouseenter				
onmouseleave				
oppouseup				
onmousewheel				
onnousenneer				
	l			
				Cancel Save

Figure 4-176 Event Manager – Add a New Set Position Action

Select onclick from the left side options, then select the Add New Set Query Action from the right-side options. There are place holders that show what should be typed in the set query area.

🗲 Butto	1 Event Manager	
onblur onchange ondblclick onfocus oninput onkeydown onkeyup onwousedown onmouseedown	<pre># 1 setQuery("[Start Time]", "[End Time]", "[Data Function]")]</pre>	
onmouseleave onmousemove onmouseup onmousewheel		
		Cancel Save
1.3.5.2	Figure 4-177 Event Manager –Add a New Set Query Action	
n the right-side	panel	
	る し し し し し し し し し し し し し	
	Figure 4-178 Add Button	

To use the button event with Add a New Component Reference, it is good practise to rename 'Button' in the properties area.

> Propertie ⊑ Select∨ CO ۹ 🏲 Property Value Opacity Border radius Fill Colour Flash - -Font Type Arial, sans-ser 🗸 Select Font Colour #e7e6e6 Font Size 10 Height 24 Hyperlink Line Colour #000 Linked pnid Maximised false Value Select 120 Width

Figure 4-179 Button Event – Rename Button

Select the Add a New Component Reference from the right-side options.

🗲 Select	t Event Manager	o d e c e <mark>c </mark> c e e
onblur onchange onclick ondblclick onfocus onieydown onkeypress onkeyup onmousedown onmouseenter		
onmouseleave onmousemove onmouseup onmousewheel		Cance) Save

Figure 4-180 Event Manager – Add a New Component Reference

A pop-up will appear – you will see the name of your component 'Select'.

S	Select a Component				
Id	Na	ame T	Гуре	In Group?	
rwg	ntq7 Se	elect C	Control	No	
					Cancel Select

Figure 4-181 Event Manager – Add a New Component Reference Pop-Up

Select that line reference and then choose the Select button from the bottom right-hand side of the pop-up.

The event manager pop-up 'Id rwgtq7' in the pop-up is the identifier that you will see in the event manager. Type in the relevant code.

🗲 Select	t Event Manager	
onblur	1 getComponent("rwgtq7") // Retrieve Component with Id rwgtq7	
onchange		
onclick		
ondblclick		
onfocus		
oninput		
onkeydown		
onkeypress		
onkeyup		
onmouseenter		
onmouseleave		
onmousemove		
onmouseup		
onmousewheel		
		Cancel Save
-		



Select the Add a New Tag Reference from the right-side options.

🗲 Select	: Event Manager	·> ▷ ㅌ ♡ ㅌ
onblur	1	
onchange		
onclick		
ondblclick		
onfocus		
oninput		
onkeydown		
onkeypress		
onkeyup		
onmousedown		
onmouseenter		
onmouseleave		
oppouseup		
onmousewheel		
	I(
		Cancel Save

Figure 4-183 Event Manager – Add a New Tag Reference

Select the Datasource name from the drop-down menu. Add a wildcard or tag name in the search area, select the search button and select one of the tags from the available tag list. Select Ok.

✔ Please select a tag	
To add a tag to this binding, simply query for it using the tools below, select it, and press OK.	
Datasource:	
Please select a Datasource	
Search Method:	
Search Query 🗸	
Search:	
(Search)	
Available Tags:	
	~
Tags Returned: 0	
	Cance) Ok

Figure 4-184 Datasource, Search and Available Tags

The event manager will show the datasource name and tag name that you have chosen. Type in your code.

🗲 Select	: Event Manager	
onblur onchange	i 1 "IP Datasource", "LIC001"	
onclick ondblclick		
onfocus		
onkeydown		
onkeypress onkeyup		
onmousedown onmouseenter		
onmouseleave		
onmouseup		
onmousewneel		
		Cancel Save



If you select the Add a New Get Tag Value Reference, it follows the same steps as the Add a New Tag Reference. You can select the datasource name, search for your tag, choose that tag from the drop-down list, then select ok.

PnID Event Manager	
onValueUpdate (3 etVAlue("1º Dotasource", "LICOL")) onTimer	
	Cancel Save
Figure 4-186 Event Manager –	Add a New Get Tag Value Reference

If you select the Add a New Get Tag Data Reference, it follows the same steps as the Add a New Tag Reference and Add a New Get Tag Value Reference. You can select the datasource name, search for your tag, choose that tag from the dropdown list, then select ok.

🗲 Buttor	n 1 Event Manager		
) 🕑 🖆 🖸 🖬 🖸 🖻 🖬
onblur	<pre>i 1 getTagData("IP Datasource", "LIC001")]</pre>		
onchange			
onclick			
ondblclick			
onfocus			
onkeydown			
onkeypress			
onkeyup			
onmousedown			
onmouseenter			
onmouseleave			
onmouseup			
onmousewheel			
	`		
			Cancel Save

Figure 4-187 Event Manager – Add a New Get Tag Data Reference

4.3.5.3	Add Input Contro	ы						
Select the Add I	nput Control icon.							
		٦. Das Proj	∩, hboa perti	, A Ird es	D D Prop	• dil •		
			Figure	4-18	8 Add Iı	nput C	Control	

Click once on the canvas to see the input control box appear.



4.3.6 Snap Pixels

The snap pixels option ranges from 1 through to 24 pixels. The default setting is set at 12. For more intricate work you can change the snap size to a smaller range but remember to change it back to the default setting once you have drawn that particular item (Suggested pixel settings for precise drawings are 1, 3, or 6).

Select the drop-down menu to see the snap pixel options.



Figure 4-192 Snap Pixels Options

Ctrl+Click Back to Canvas Area – Dashboard Properties

4.3.7 Toggle Data Ghost

Move the toggle option to the right while in edit mode. This option allows the user a quick view of the current state of bindings (apart from visible and flash bound properties) and ensures bindings are working correctly without having to change to run mode.



You can set gradients within shapes.

Draw a shape on your canvas. Select the shape and got to properties in the right-side panel. Select Gradient Settings from the bottom of the properties list.



Figure 4-194 Gradient Settings

A pop-up will appear showing you the colour of the shape you have drawn and selected.

Palette	
Start 0 % End 100 %	
	Close

Figure 4-195 Gradient Settings – Pop-Up

For the example below, to add a gradient the plus icon (+) has been selected twice - see new rows appear. Change the black colour in the second and third rows to another colour.

You can see the Gradient Controls appear (diagonal line). The controls allow you to set the look of the gradient.

Palette	
Fill 🗸 🌓 🕂 📕	
Start 10 % End 55 %	
#000000 Start 55 % End 77 % ×	
#000000 Start 77 % End 100 % × Linear/Radial Angle -63.43494882292201	

Figure 4-196 Gradient Palette – Add More Rows

With the colours now changed, the gradient in this rectangle is taking shape.



Move the gradient controls diagonal line from the nodes that appear on that line, until you are happy with the look of your gradient. You can move each node individually.

As the requirement for this rectangle is to have a vertical gradient, the angle also needs to be changed.

Type in a suitable angle in the angle space.

Note that all colours in the palette have been changed from those in the previous screenshot. As you move the gradient controls the start and end boxes containing colour percentages automatically change. You can also type in start and end ranges. Click in any box and type in a number.



Figure 4-198 Vertical Rectangle Gradient

Now that the shape and gradient is completed, best practise is to turn off the gradient controls (these are switched to on by default).

These can be found at the bottom of the right-side panel. Move the toggle button to the left and the controls are now hidden.

Palette	Dashboard Properties
	Properties
Fill - C +	Data & Events
(#AFABAB) Start (0) % End (20) %	₽ 1 _K ⊳ @
#e7e6e6 Start 20 % End 40 % ×	Snap pixels 12 🗸
	Toggle Data Ghost
	Display Gradient Controls

Figure 4-199 Gradient Controls Off

5 Keyboard Shortcuts

5.1 General

5.1.1 Canvas Grid - Enable/Disable

Once in Edit Mode a grid will appear immediately on the canvas. To disable or enable the canvas grid select G on your

keyboard.



5.1.6 Redo

In Edit Mode select Ctrl+Y. You can redo multiple times.



5.2.4 Circle

In Edit Mode select C.



Ctrl+Click to go back to Settings

6 Creating Trends in Gestalt PnID

You can create trends from any animation in your drawing.

Selecting Data

Right-click an animation to view the pop-up options. Select one of the time settings. Select In New Window. The trend tool opens in a new tab next to the PnID tab.

50.0)%		
⁵⁵ –	🖸 Open Link in New Window	\mathbf{N}	
	Manage Bindings		
50 +	Irrend Past Hour		
	O Trend Past Day	, /	
	O Trend Past Week	🔸 🗗 In New Window	
	O Trend Past Month	(No Trend Window	ws Open)
	O Trend Past Year	•	
	O Trend Custom Range	•	
	Figure 6-1 Trend a Tag in	PnID	

You can now view the trend of the animation you have just selected.

≡	Hain			Play
	C C C C C C C C C C C C C C C C C C C	Titlebars < & Windows Colour		
Empty	r Window View: Trand V Display Mode: Absolute V		Oct 05 2022 11:33:03	LLC001 🗸 LLC001 V 🌣 🦑 🧔 💶 🗙
51.8				
51.6				
51.4				
51.2				
51			-50.9950	
50.8			l.	
50.6				
50.2				
50			/	50 1/001 1
49.8				
49.6				
49.4				
49.2				
40 0				
48.6				
48.4				
48.2				
48				
47.8				
47.6				
47.4				
47				
46.8				
46.6				
46.4				
46.2				E 46.2009
46				
45.8				
45.4				
45.2				
-65 	25 Sep 30 Sep	10ct 20ct	л 3 Ост	4 Oct 5 Oct
-				

Figure 6-2 View Tag in Trend

To include more tags from the drawing in the same trend right click on another animation. Select the same time period and choose In Window 1 option. This option will add the new tag to the same trend.



Figure 6-3 Adding New Tag to Same Trend View

The new tag has been included in your trend.

=				Main		<u>^</u>			Play	
-	5002		28 September 2022 14 August 2022	(Dist. at) (Auto)		@ Wed Oct 05 2022 11:41:04 GMT+0	100		riay	
		Relative Time	T (Days V) (0 (Days V) Start Time End Time	Function Interval	Live Updates		0			
Empty	y Window	View: Trend	✓ Display Mode: Absolute	~		Oct 05 2022 11:41	1:04			LIC001 🗸 🛛 LIC002 🗸 🗘 🥔 🏉 💶 🗙
52		53 1704								28 September 2022 11:41 - 5 October 2022 11:41
51.8		32.27.34								
51.6										
51.4										
51.2										
51								50.9959		
50.8								M		
50.6										
50.2										
50										50 LIC002
49.5										
49.6										
49.4										
49.2										
49										
48.6										
45.4										/ /
48.2										/
43										1
47.8										
47.6										/
47.4										(
47.4										
46.8										
46.6										
46.4									$\langle \rangle \rangle / /$	
46.2									46.2009	
46										
45.8										
45.4										
45.2										
∎°		29 Sep	30 5	ep	1 Oct	2 Oct		3 Oct	4 Oct	5 Oct
								A		

Figure 6-4 View Additional Tag in Same Trend

To save the trend go to the Left-Side Panel, choose Save As. Rename the Trend with an appropriate name, select Ok.

🕞 Personal Dashboar	rds	NGR 2022 11-41:04 CHT-0100	Play	
васк	+	Time Punction Jiker ca	UC001 ¥ UC002 *	• • • • • ×
Save As	B		28 September 2022 1	1:41 - 5 October 2022 11:41
New folder		Co Save As		
	٥	S12244 Citemana		
BP	n 2	(Trend 001.pgt)		
BP North Sea	₽ ×			
friday-folder	n ×	Cance Ok		50 UC002
Invinity				
Levenmouth	NG ×			
Met Office	1 1 1 1 1 1 1 1 1 1			
Monday-New-Folder	*			
Orbital 02				
ORE Catapult	• • •			
Steve-A	* *			
Tesla	* *			
Tracey2	* *			
Tuesday-Folder	*			
Wells	*			
01-14-Monday-1	□ < ×		46.2009	
01-Inv-Ex	□ ×			
01-Orb-Overview	D ×			
01-Thursday-16	$\mathbb{D}_{\mathbf{x}}^{<}$			
01-well-a	$\square_{\mathbf{x}}^{<}$		4.0ct	\$ Oct
03-Battery-Current-Cycle-Times	□ *			

Figure 6-5 Save Trend

A pop-up will appear to confirm the trend has been saved successfully. Select Ok.

✓ Saved					
Plot "Trends\Tre	nd-001.ipgt" saved suc	cessfully			

Figure 6-6 Save Confirmed Pop-Up

You can create a trend that shows more than one time setting for a specific animation, but they would be shown in different windows in the trend, even though you selected In Window 1 for the second instance and time setting.



Figure 6-7 Trends Showing Two Time Periods

For further information on how to use trend see the Gestalt Trend User Guide.

7 Gestalt PnID – Industry Examples

For additional info link to $PnID^{TM}$ – Tips and Tricks (Ctrl+Click).

7.1 Oil & Gas



Figure 7-1 Oil & Gas - Central Processing Facility



Figure 7-2 Oil & Gas - Gas Compression

7.2 Renewables



Figure 7-4 Renewables – Tidal Turbine

7.3 Space Industry



Figure 7-5 Space Industry - NASA Dashboard

7.4 Building Management



Figure 7-6 Building Management -Office Temperature Management

7.5 Food & Beverage



Figure 7-8 Food and Beverage – Evaporation Process

7.6 Shale Gas



Figure 7-9 Shale Gas – Shale Gas Extraction

7.7 Marine



Figure 7-10 Marine – Fuel Tanks Overview

7.8 Power Generation



Figure 7-11 Power Generation – Stirling Engine



Figure 7-12 Power Generation – Plant Controls

7.9 Alarm Analysis



Figure 7-13 Alarm Analysis – KPI's

7.10 Data Centre





7.11 Electrical



Figure 7-15 Electrical – Electricity Grid

Pylons Overview	
13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 + 21 + 22 + 23 + 24 + 19 + 19 + 19 + 19 + 19 + 10 + 10 + 10	
25 26 27 28 29 30 31 32 33 34 35 36	

Figure 7-16 Electrical – Pylons Overview



Inform, Enhance, Grow. Intelligently.

Intelligent Plant Ltd

492 Union Street

Aberdeen

AB10 1TS