



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 - Personal Dashboards and Group Dashboards	TG	
24/02/2022	2.4	Updated to reflect new UI	TG	PG
10/10/2022	2.5	Updated to reflect new UI & New Features	TG	PG
07/12/2022	2.6	Updated to reflect New Features	TG	JP
15/06/2023	2.7	Updated to show recent enhancements	TG	PG
31/08/2023	2.8	Updated to show recent enhancements	TG	PG

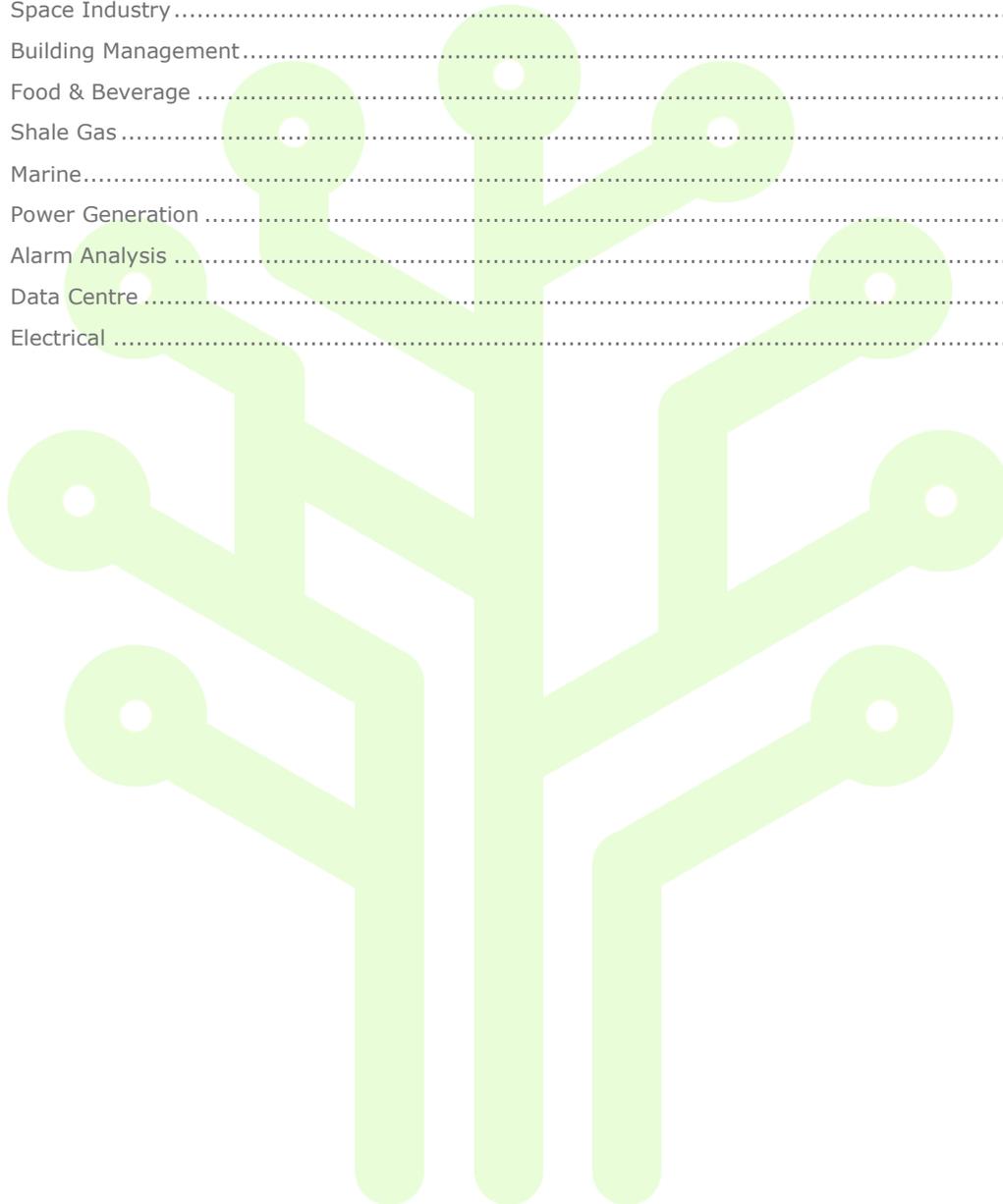
© Copyright 2023, Intelligent Plant Ltd.



Table of Contents

1	Purpose of Document	13
2	What's New	14
2.1	August 2023	14
3	Access to Gestalt PnID™	15
4	Getting Started	17
4.1	Canvas Area – Dashboard Properties.....	24
4.2	Left-Side Panel	25
4.2.1	Dashboards	25
4.2.2	Time Controls	26
4.2.3	Symbol Library	28
4.2.4	Genie Library.....	31
4.2.5	Settings	36
4.2.6	Licensing.....	37
4.2.7	Export	37
4.2.8	Import.....	37
4.2.9	Share File.....	39
4.3	Right-Side Panel	41
4.3.1	Toolbar	42
4.3.2	Dashboard Properties	63
4.3.3	Properties	64
4.3.4	Data & Events.....	69
4.3.5	Event Manager.....	75
4.3.6	Snap Pixels.....	85
4.3.7	Toggle Data Ghost.....	86
4.3.8	Gradient Settings	86
5	Keyboard Shortcuts	90
5.1	General	90
5.1.1	Canvas Grid-Enable/Disable.....	90
5.1.2	Left-Side Panel – Open/Close.....	90
5.1.3	Copy.....	90
5.1.4	Paste	90
5.1.5	Undo	90
5.1.6	Redo.....	91
5.1.7	Save.....	91
5.2	Right-Side Panel	91
5.2.1	Polyline.....	91
5.2.2	Rectangle.....	91
5.2.3	Arc.....	91
5.2.4	Circle.....	92
5.2.5	Text	92

5.3	Left-Side Panel	92
5.3.1	Run Mode	92
5.3.2	Edit Mode	92
6	Creating Trends in Gestalt PnID	93
7	Gestalt PnID – Industry Examples	96
7.1	Oil & 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	100
7.7	Marine.....	100
7.8	Power Generation	101
7.9	Alarm Analysis	102
7.10	Data Centre	102
7.11	Electrical	103



Figures

Figure 3-1 Access the Industrial App Store	15
Figure 3-2 Industrial App Store Home Page	15
Figure 3-3 Gestalt PnID Profile Page	16
Figure 4-1 Gestalt PnID Home Page	17
Figure 4-2 Back, Home and Next Button Links.....	17
Figure 4-3 Select Icon to Access Left-Side Panel.....	18
Figure 4-4 Left-Side Panel	18
Figure 4-5 Access Dashboards Area.....	19
Figure 4-6 Create a New Page	19
Figure 4-7 Right-Side Panel.....	20
Figure 4-8 Settings.....	20
Figure 4-9 Edit Mode	21
Figure 4-10 Run Mode	21
Figure 4-11 Preferences – General – Homepage.....	21
Figure 4-12 Preferences – Select File	22
Figure 4-13 Preferences – General – Homepage Set.....	22
Figure 4-14 Preferences – General – Linking Method Types	23
Figure 4-15 Preferences – Drawing – Dashboard Content Settings	23
Figure 4-16 Preferences – Bindings – Prefix and Suffix.....	24
Figure 4-17 Page Zoom - fit.....	24
Figure 4-18 Left-Side Panel Options	25
Figure 4-19 New Dashboard	25
Figure 4-20 Saving a Dashboard – Save As.....	26
Figure 4-21 Left-Side Panel – Time Controls	26
Figure 4-22 Time Controls – Real Time.....	27
Figure 4-23 Time Controls – Historical	27
Figure 4-24 Data Controller Panel – Play.....	28
Figure 4-25 Data Controller Panel – Stop	28
Figure 4-26 Symbol Library	28
Figure 4-27 Rename Symbol – Add to Symbol Library	29
Figure 4-28 Pop-Up - Select Folder	29

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 Accepted	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	43
Figure 4-63 Polyline Option	43
Figure 4-64 Select Shape – Closed Path	44
Figure 4-65 Rectangle Option	44
Figure 4-66 Arc Icon.....	44
Figure 4-67 Arc Option	45
Figure 4-68 Arc Type – Draw to Radius Properties	45
Figure 4-69 Arc Type – Close on Arc Properties.....	45
Figure 4-70 Arc Type – Open Arc Properties.....	45
Figure 4-71 Arc Type – Filled Arc-1 Properties	46
Figure 4-72 Arc Type – Filled Arc-2 Properties	46
Figure 4-73 Circle Option.....	46
Figure 4-74 Circle-1 Properties	46
Figure 4-75 Circle-2 Properties	47
Figure 4-76 Circle-3 Properties	47
Figure 4-77 Circle-Change Radius Size	47
Figure 4-78 Text Icon.....	48
Figure 4-79 Text Properties.....	48
Figure 4-80 Add Image Icon.....	49
Figure 4-81 Standalone User - Image Name and Source Reference.....	49
Figure 4-82 Image Height and Width	50
Figure 4-83 Add Scatterplot Icon	50
Figure 4-84 Scatterplot Option	51
Figure 4-85 Scatterplot Pop-Up	51
Figure 4-86 Select Datasource, Search and Add Tags for X and Y Axis	51
Figure 4-87 Scatter Plot Marker Colour – Palette	52
Figure 4-88 Scatterplot Marker Colour Chosen	52
Figure 4-89 Scatterplot Marker Type	52
Figure 4-90 Scatterplot – Time Controls	53
Figure 4-91 Edit Scatterplot	53
Figure 4-92 Edit Scatterplot Pop-Up	53
Figure 4-93 Sparkline Option.....	54
Figure 4-94 Sparkline Line Colour Pop-Up	54

Figure 4-95 Sparkline Pop-Up Completed	54
Figure 4-96 Sparkline – Time Controls	55
Figure 4-97 Edit Sparkline	55
Figure 4-98 Edit Sparkline Pop-Up.....	55
Figure 4-99 Bar Chart Option.....	56
Figure 4-100 Bar Chart Pop-Up Completed	56
Figure 4-101 Bar Chart on Canvas	56
Figure 4-102 Edit Bar Chart	57
Figure 4-103 Bar Chart – Aggregate Types.....	57
Figure 4-104 Bar Chart – One Tag with Aggregate Type - Sum.....	57
Figure 4-105 Button Icon	58
Figure 4-106 Button Option.....	58
Figure 4-107 Button Properties	58
Figure 4-108 Button Properties - Updated.....	59
Figure 4-109 Manage Events Icon	59
Figure 4-110 Event Manager – Event Types.....	59
Figure 4-111 Input Control Option	60
Figure 4-112 Input Control Properties.....	60
Figure 4-113 Input Control Properties - Updated	60
Figure 4-114 Range Control Option	61
Figure 4-115 Range Control Properties	61
Figure 4-116 Range Control Properties - Updated	61
Figure 4-117 Add Embedded Page Icon.....	62
Figure 4-118 Embedded Page Placeholder.....	62
Figure 4-119 Default Embedded Page URL	62
Figure 4-120 Updated Embedded Page URL.....	63
Figure 4-121 Dashboard Properties.....	63
Figure 4-122 Selected Line Properties.....	64
Figure 4-123 Selected Text Properties	64
Figure 4-124 Selected Text and Line Properties	65
Figure 4-125 Selected Items to Group.....	65
Figure 4-126 Group Icon	65
Figure 4-127 Grouped Items	65

Figure 4-128 Changing Text colour within a Group - Properties	65
Figure 4-129 Changing Text colour.....	66
Figure 4-130 Changing Line colour	66
Figure 4-131 Circle – Send to Back.....	66
Figure 4-132 Bring to Front Icon	66
Figure 4-133 Circle Now in Front.....	67
Figure 4-134 Circle Now in Front.....	67
Figure 4-135 Send to Back Icon	67
Figure 4-136 Circle Now Behind	67
Figure 4-137 Shape – Original Position	67
Figure 4-138 Rotate Clockwise Icon.....	67
Figure 4-139 Original Shape Now Rotated Clockwise	67
Figure 4-140 Rotate Anti-Clockwise Icon	68
Figure 4-141 Original Shape Now Rotated Anti-Clockwise.....	68
Figure 4-142 Text Rotation – Input Rotation Amount.....	68
Figure 4-143 Data and Events	69
Figure 4-144 Link Data Icon	69
Figure 4-145 Text Bindings – Select Icon	69
Figure 4-146 Text Bindings – Add Data	69
Figure 4-147 Select Datasource, Search, Add Tag	70
Figure 4-148 Text Bindings – Datasource and Tag Name.....	70
Figure 4-149 Text Bindings	70
Figure 4-150 Colour Bindings – Select Icon.....	71
Figure 4-151 Select Add Data Icon	71
Figure 4-152 Datasource, Search and Available Tags	71
Figure 4-153 Datasource, Tag Name and Colours	72
Figure 4-154 Data Bindings Complete	72
Figure 4-155 X or Y Animation	72
Figure 4-156 X or Y Fill Animation – Select Icon	73
Figure 4-157 X or Y Fill Animation – Select Add Data Icon	73
Figure 4-158 Datasource, Search and Available Tags	73
Figure 4-159 X or Y Fill Animation Bindings	73
Figure 4-160 Y Fill Animation -Example.....	74

Figure 4-161 Storing Recent Tags	74
Figure 4-162 Manage Events Icon	75
Figure 4-163 Global Events Table	75
Figure 4-164 Event Manager – Pop-Up	76
Figure 4-165 Event Manager – Component Tool Bar	76
Figure 4-166 Event Manager – onValueUpdate - Text.....	77
Figure 4-167 Event Manager – onValueUpdate – Add New Component Reference.....	77
Figure 4-168 Event Manager – onValueUpdate – Select Component Pop-Up	78
Figure 4-169 Add Button Icon	78
Figure 4-170 Button	78
Figure 4-171 Button Selected	78
Figure 4-172 Manage Events Icon	78
Figure 4-173 Component Events Table	79
Figure 4-174 Event Manager – onclick – Add a New Write Value Action	80
Figure 4-175 Event Manager – onclick – Add a New Property Change Action	80
Figure 4-176 Event Manager – Add a New Set Position Action	80
Figure 4-177 Event Manager –Add a New Set Query Action.....	81
Figure 4-178 Add Button	81
Figure 4-179 Button Event – Rename Button	81
Figure 4-180 Event Manager – Add a New Component Reference.....	82
Figure 4-181 Event Manager – Add a New Component Reference Pop-Up	82
Figure 4-182 Event Manager – Get Component Reference.....	82
Figure 4-183 Event Manager – Add a New Tag Reference.....	83
Figure 4-184 Datasource, Search and Available Tags	83
Figure 4-185 Event Manager – Datasource and Tag Name.....	83
Figure 4-186 Event Manager – Add a New Get Tag Value Reference.....	84
Figure 4-187 Event Manager – Add a New Get Tag Data Reference	84
Figure 4-188 Add Input Control.....	84
Figure 4-189 Input Control Box.....	85
Figure 4-190 Add Range Control Icon.....	85
Figure 4-191 Range Control.....	85
Figure 4-192 Snap Pixels Options.....	85
Figure 4-193 Toggle Data Ghost	86

Figure 4-194 Gradient Settings	86
Figure 4-195 Gradient Settings – Pop-Up	87
Figure 4-196 Gradient Palette – Add More Rows	87
Figure 4-197 Gradient Palette – Change Colours	88
Figure 4-198 Vertical Rectangle Gradient.....	89
Figure 4-199 Gradient Controls Off.....	89
Figure 5-1 Keyboard Shortcut – View or Remove the Grid on the Canvas.....	90
Figure 5-2 Keyboard Shortcut – Open or Close the Left-Side Panel	90
Figure 5-3 Keyboard Shortcut – Ctrl+C – Copy	90
Figure 5-4 Keyboard Shortcut – Ctrl+V – Paste	90
Figure 5-5 Keyboard Shortcut – Ctrl+Z – Undo.....	90
Figure 5-6 Keyboard Shortcut – Ctrl+Y – Redo.....	91
Figure 5-7 Keyboard Shortcut – Ctrl+S – Save	91
Figure 5-8 Keyboard Shortcut – L - Polyline	91
Figure 5-9 Keyboard Shortcut – R - Rectangle.....	91
Figure 5-10 Keyboard Shortcut – A – Arc	91
Figure 5-11 Keyboard Shortcut – C – Circle.....	92
Figure 5-12 Keyboard Shortcut – T – Text	92
Figure 5-13 Keyboard Shortcut – Ctrl+R – Run Mode	92
Figure 5-14 Keyboard Shortcut – Ctrl+E – Edit Mode.....	92
Figure 6-1 Trend a Tag in PnID.....	93
Figure 6-2 View Tag in Trend.....	93
Figure 6-3 Adding New Tag to Same Trend View	94
Figure 6-4 View Additional Tag in Same Trend	94
Figure 6-5 Save Trend	95
Figure 6-6 Save Confirmed Pop-Up.....	95
Figure 6-7 Trends Showing Two Time Periods.....	95
Figure 7-1 Oil & Gas – Central Processing Facility	96
Figure 7-2 Oil & Gas – Gas Compression.....	96
Figure 7-3 Renewables – Onshore Wind Farm	97
Figure 7-4 Renewables – Tidal Turbine	97
Figure 7-5 Space Industry – NASA Dashboard.....	98
Figure 7-6 Building Management -Office Temperature Management	98

Figure 7-7 Food and Beverage – Grain Silo System 99

Figure 7-8 Food and Beverage – Evaporation Process 99

Figure 7-9 Shale Gas – Shale Gas Extraction 100

Figure 7-10 Marine – Fuel Tanks Overview 100

Figure 7-11 Power Generation – Stirling Engine 101

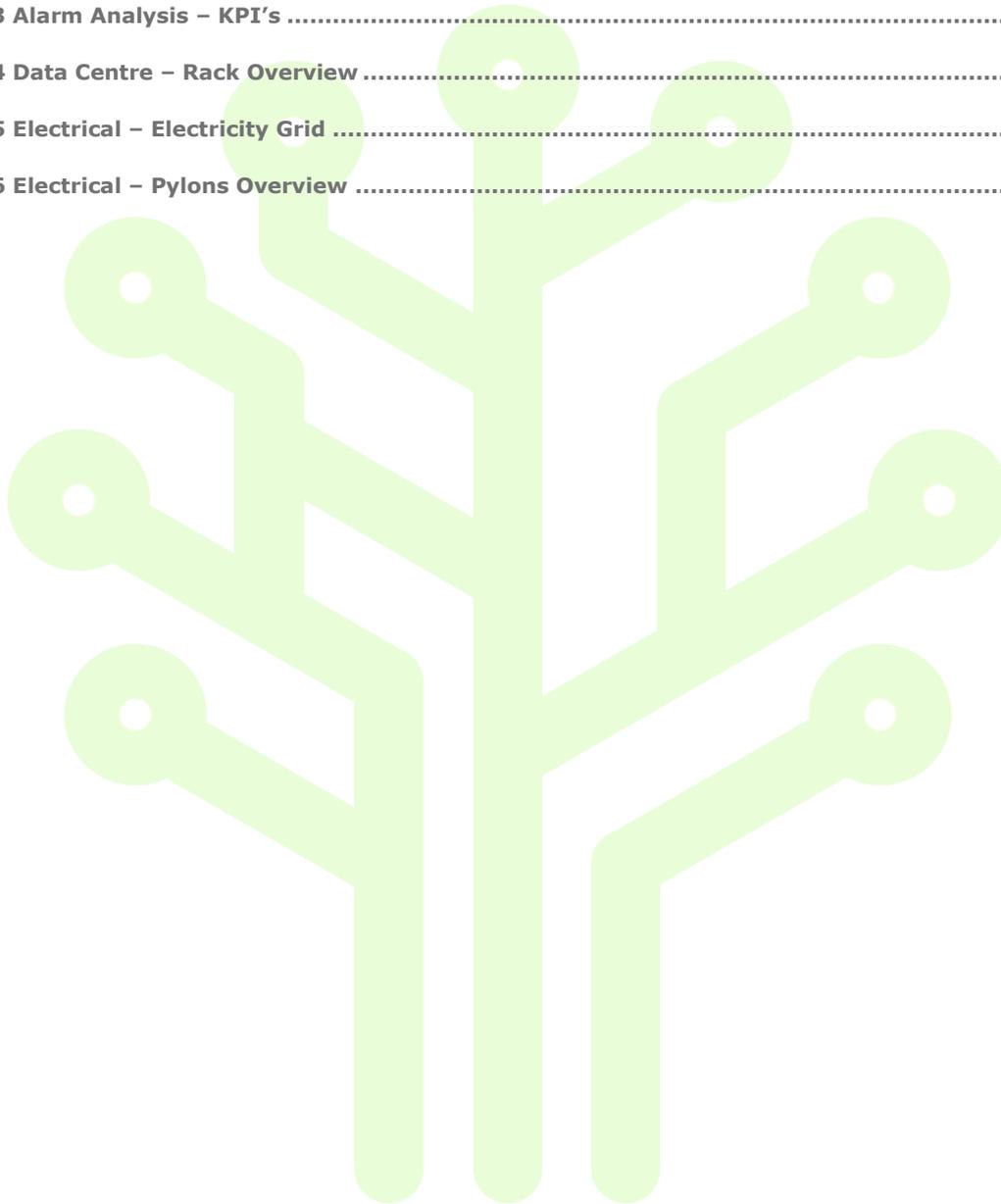
Figure 7-12 Power Generation – Plant Controls 101

Figure 7-13 Alarm Analysis – KPI’s 102

Figure 7-14 Data Centre – Rack Overview 102

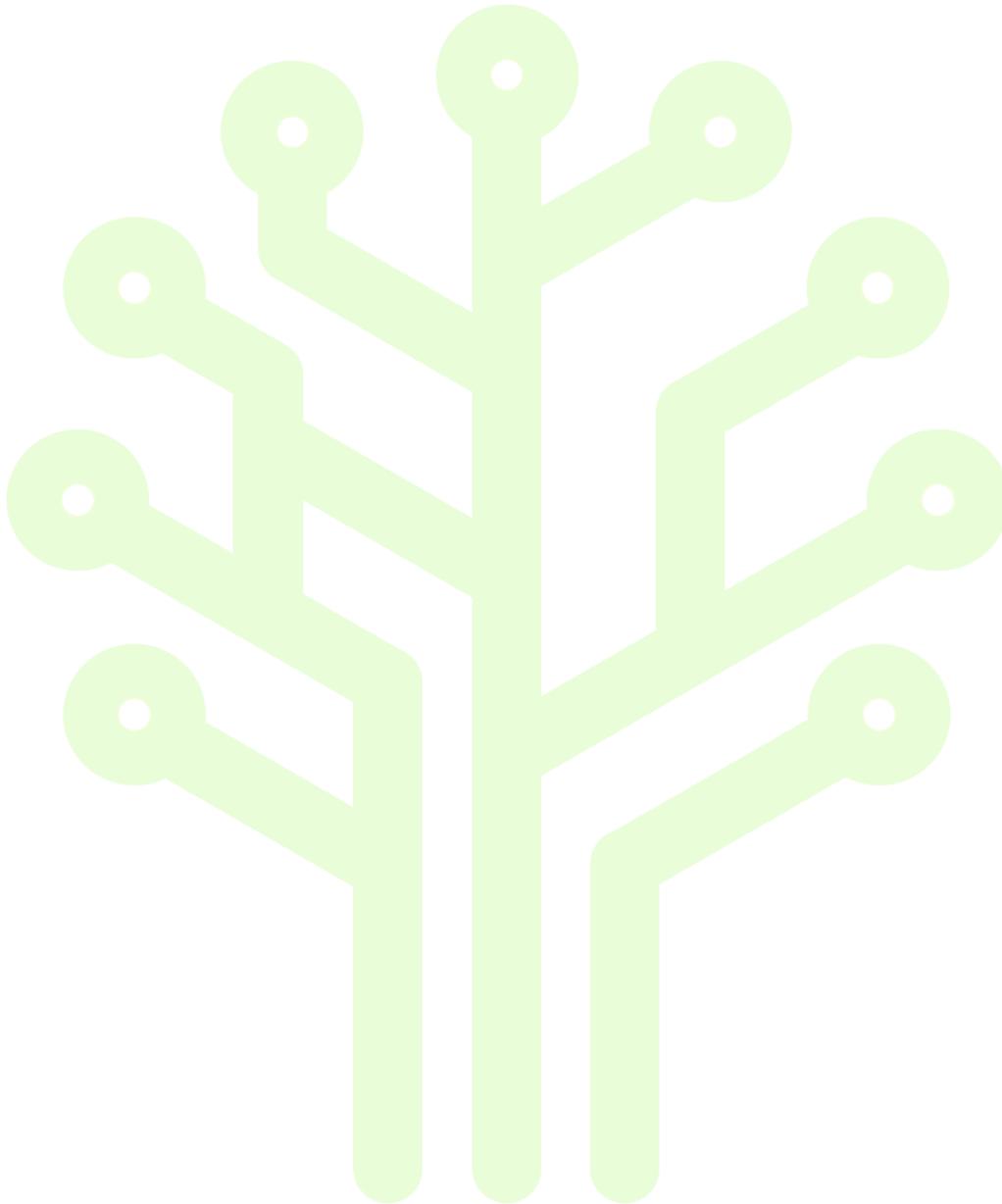
Figure 7-15 Electrical – Electricity Grid 103

Figure 7-16 Electrical – Pylons Overview 103



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.



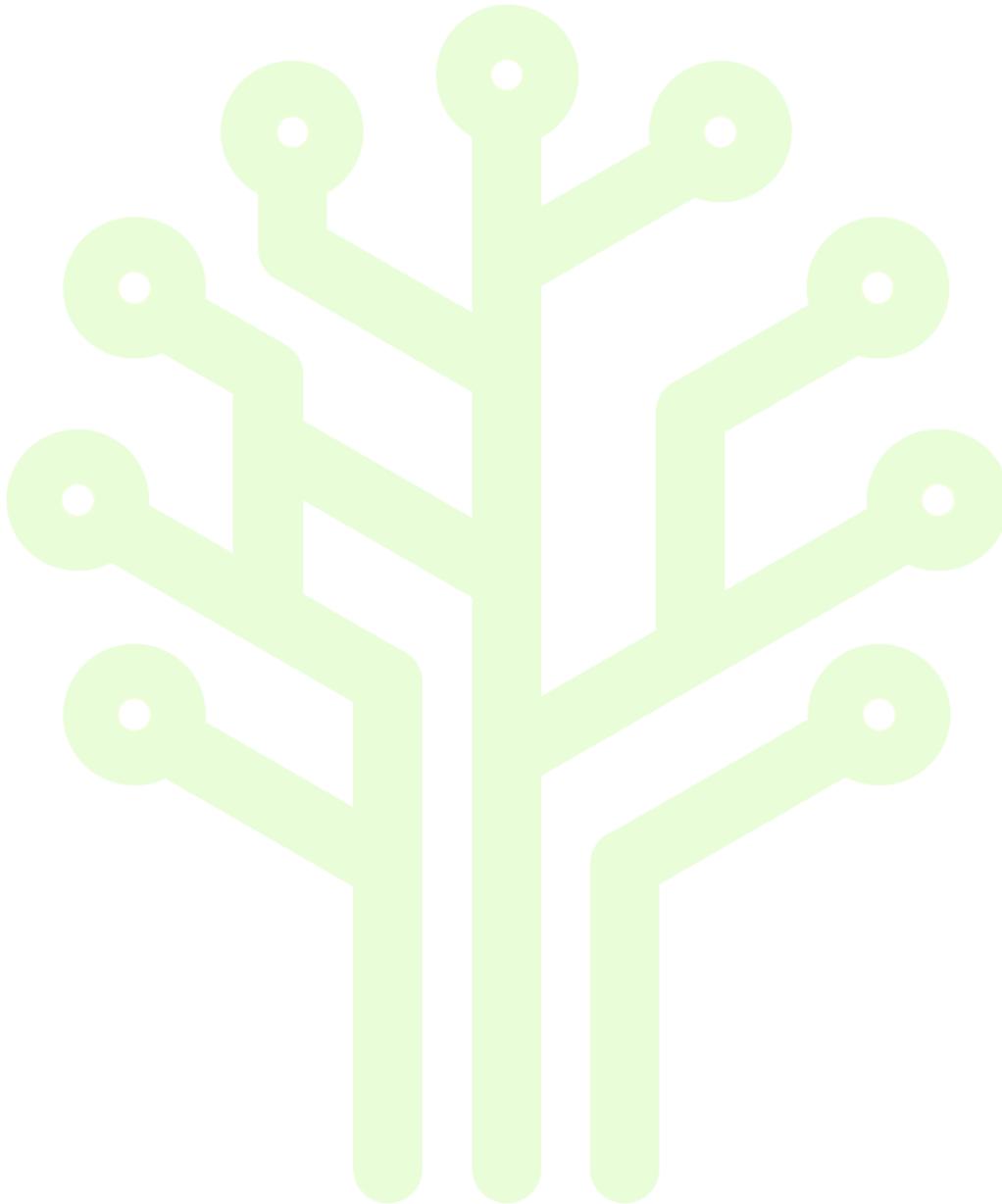
2 What's New

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.

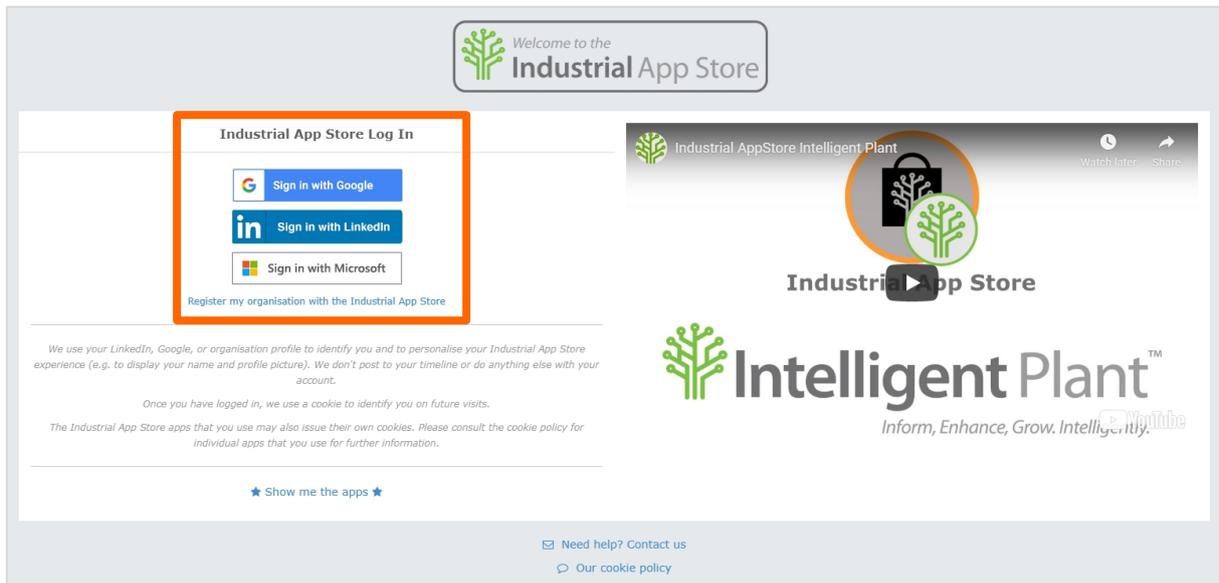


Figure 3-1 Access the Industrial App Store

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.

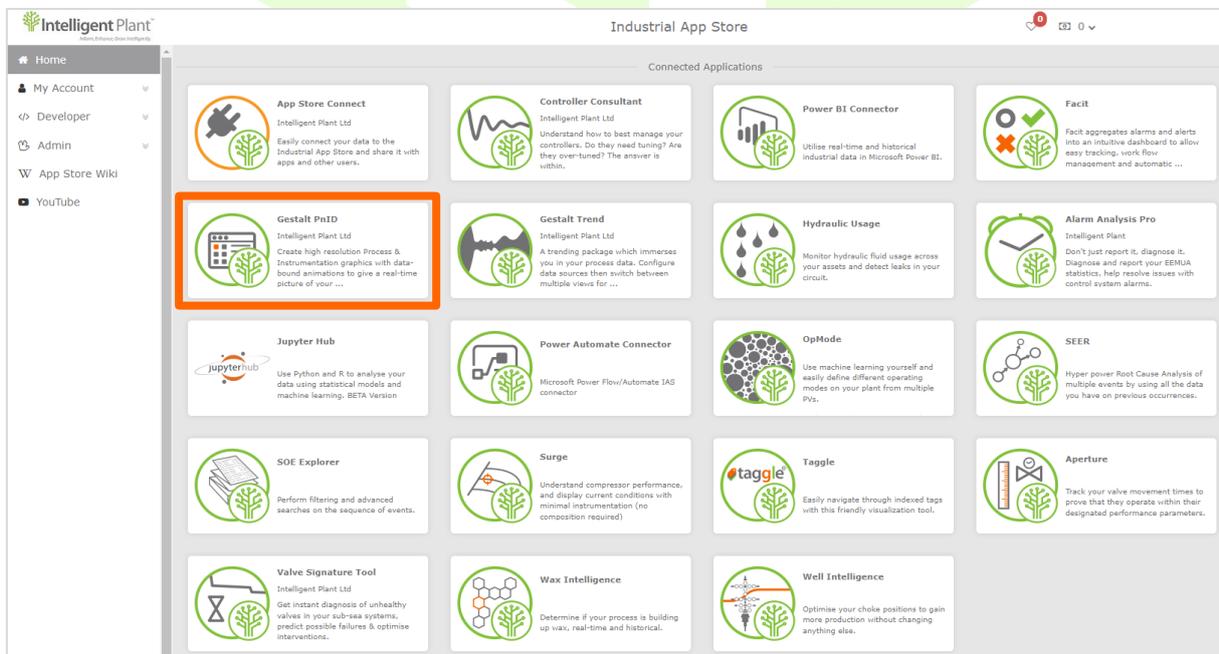


Figure 3-2 Industrial App Store Home Page

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.

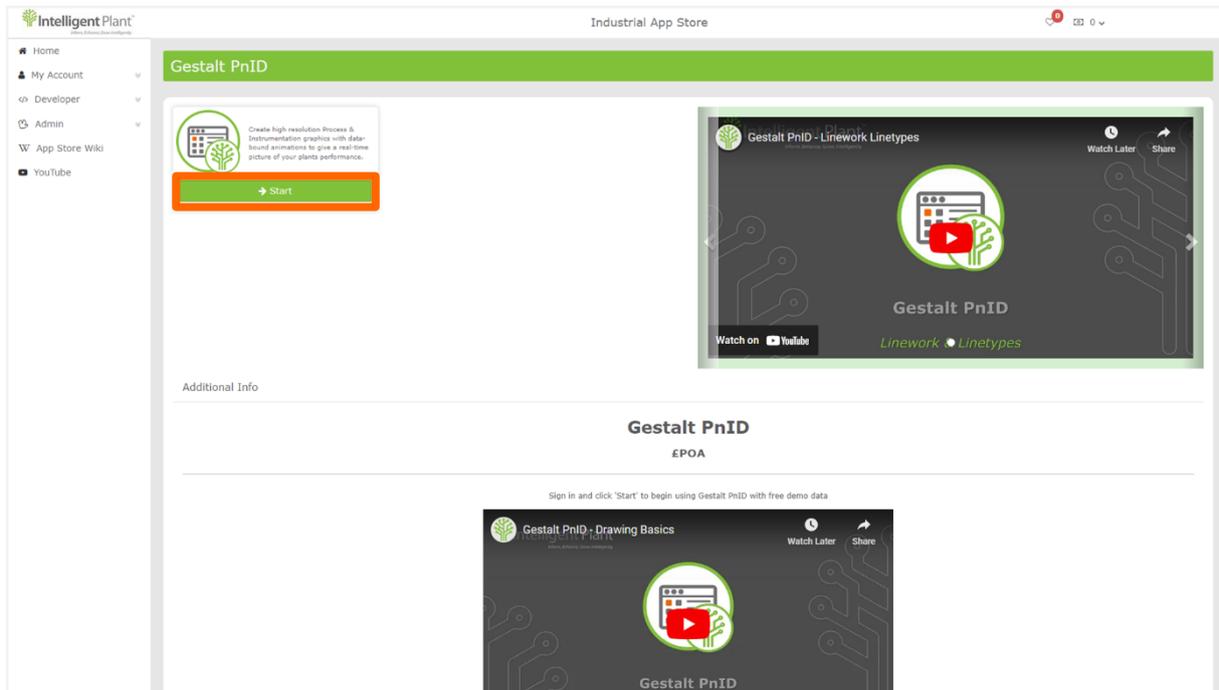


Figure 3-3 Gestalt PnID Profile Page

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.



Figure 4-1 Gestalt PnID Home Page

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 4-3 Select Icon to Access Left-Side Panel

With the left-side panel now in view you can select any option to continue.



Figure 4-4 Left-Side Panel

To start drawing, select Dashboards.

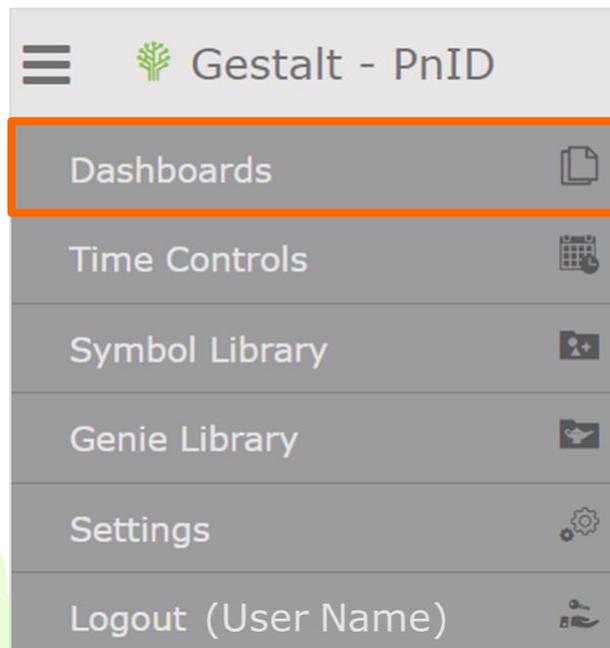


Figure 4-5 Access Dashboards Area

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.

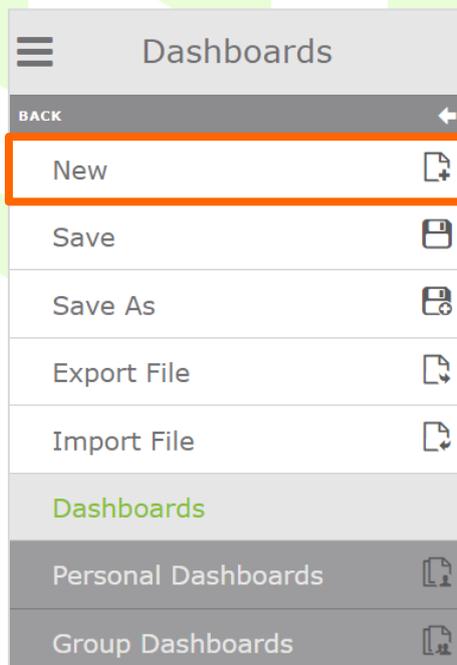


Figure 4-6 Create a New Page

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.



Figure 4-7 Right-Side Panel

Note:

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.

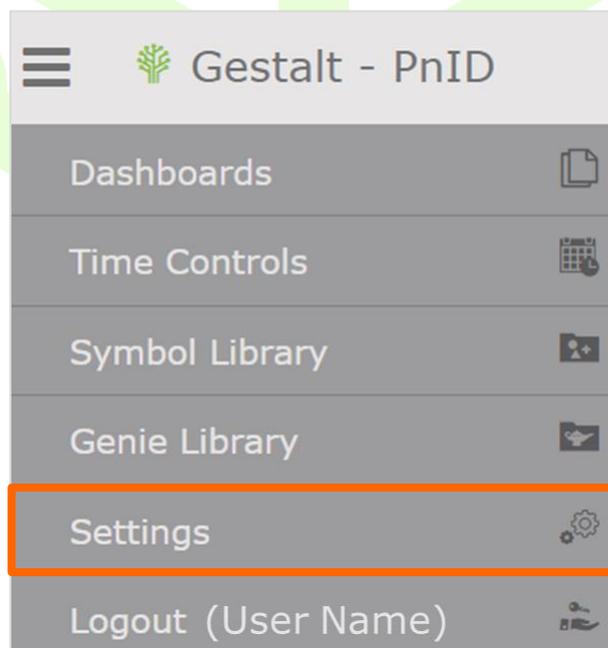


Figure 4-8 Settings

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

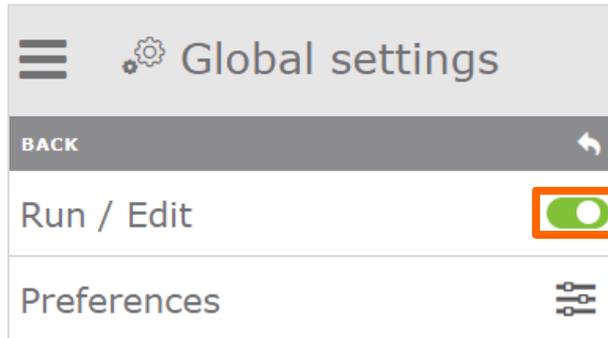


Figure 4-9 Edit Mode

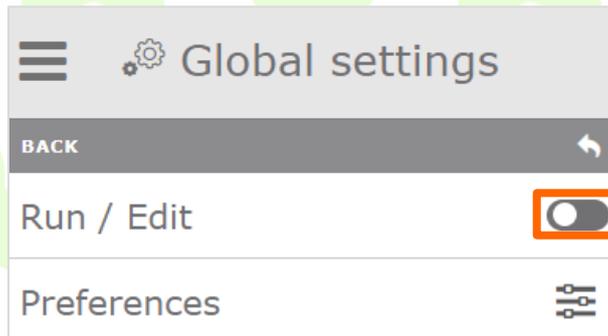


Figure 4-10 Run Mode

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.

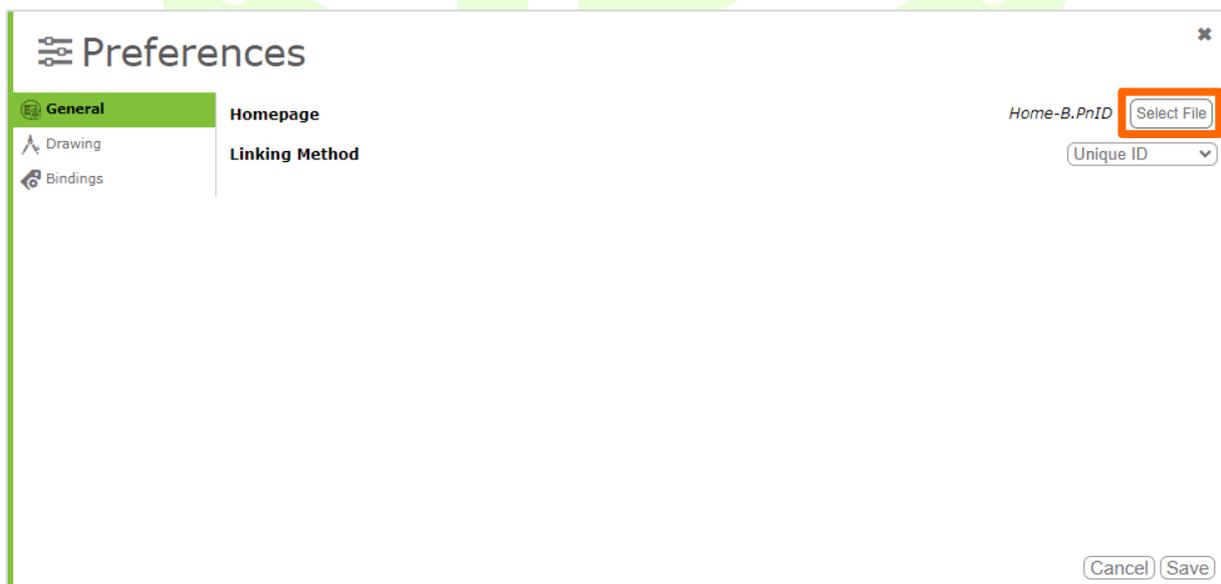


Figure 4-11 Preferences – General – Homepage

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

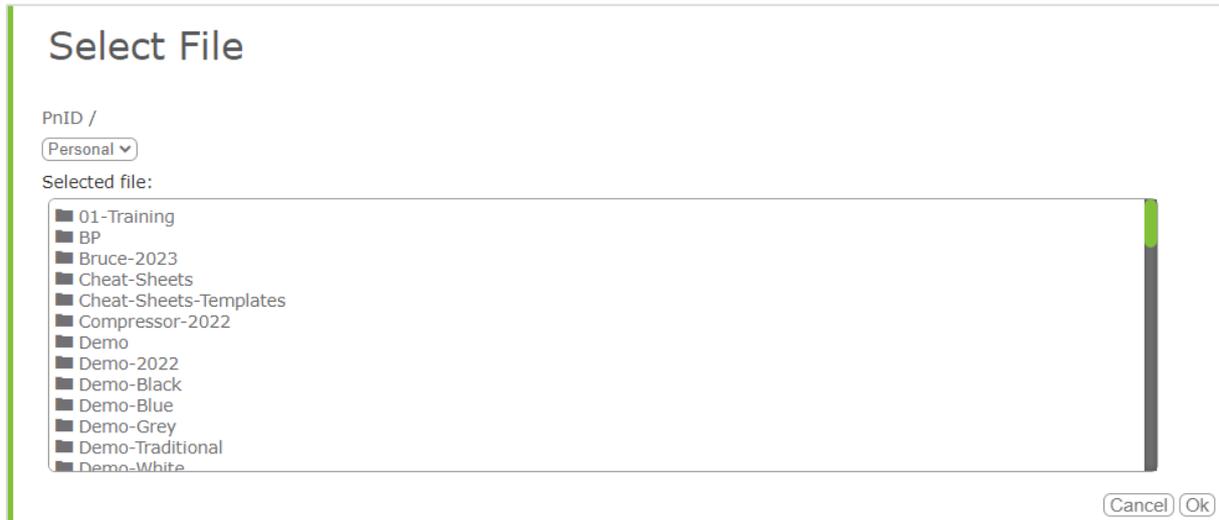


Figure 4-12 Preferences – Select File

You will then see the filename of the chosen dashboard next to the Select File button. Select Save

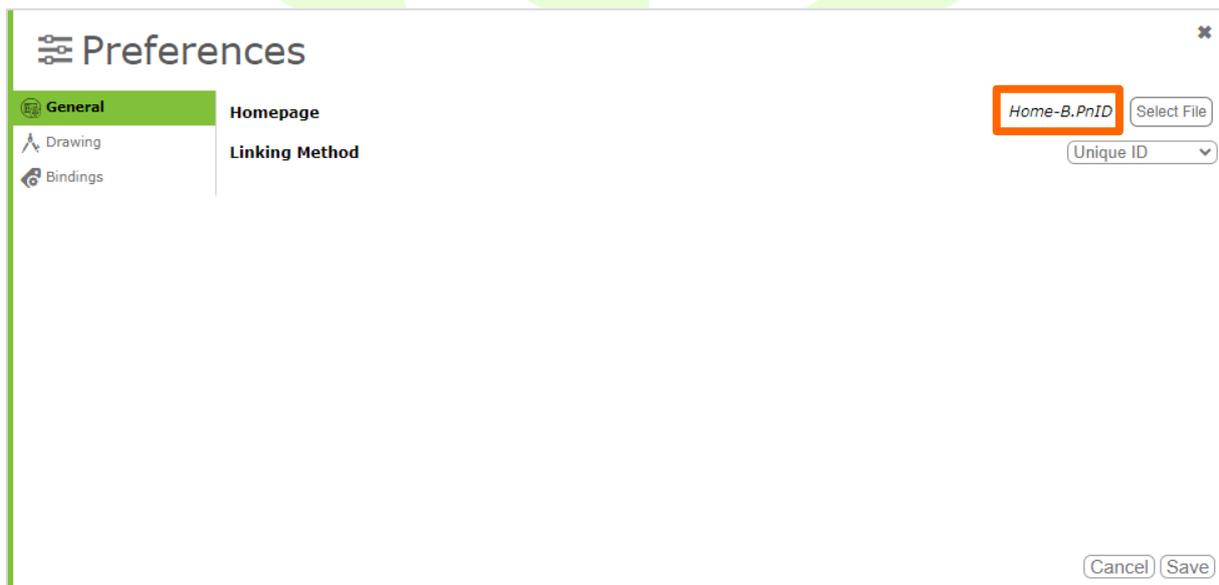


Figure 4-13 Preferences – General – Homepage Set

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

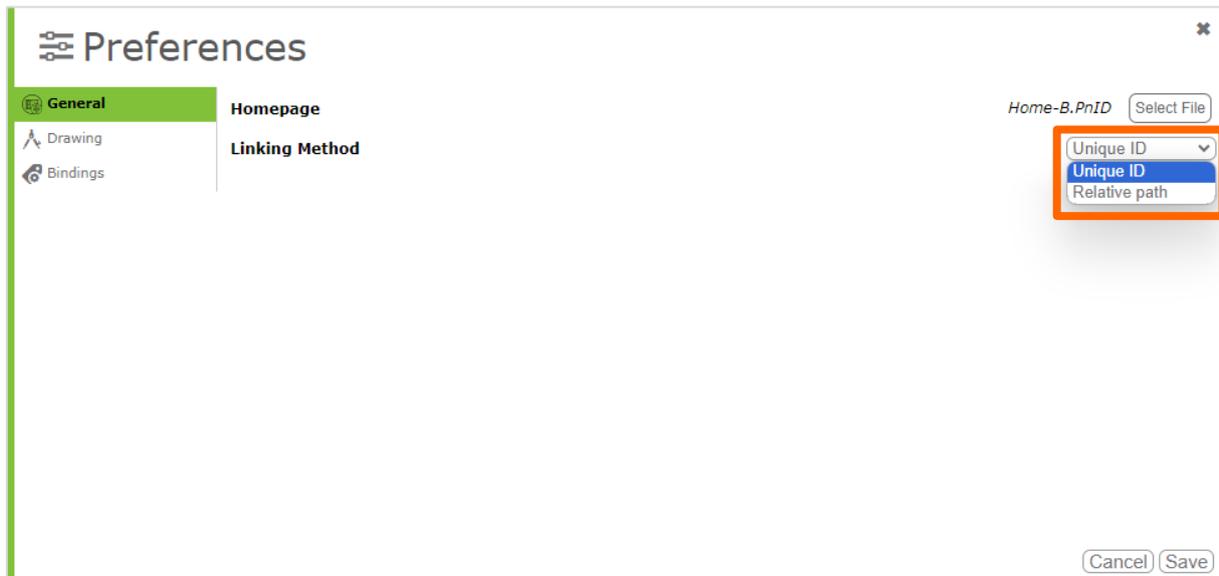


Figure 4-14 Preferences – General – Linking Method Types

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 by 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.

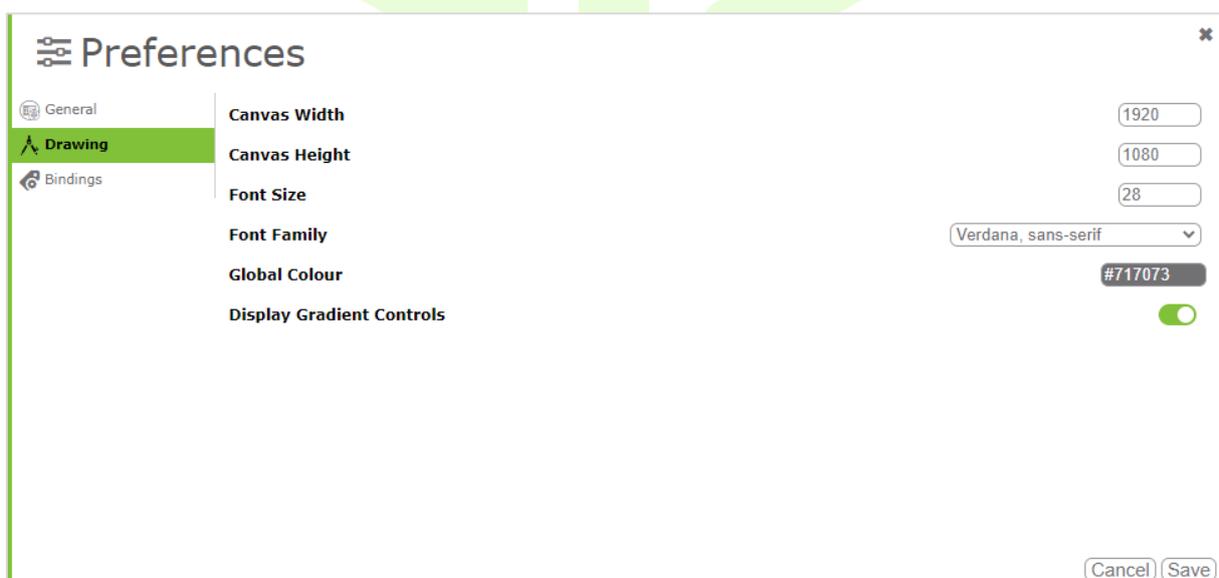


Figure 4-15 Preferences – Drawing – Dashboard Content Settings

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.

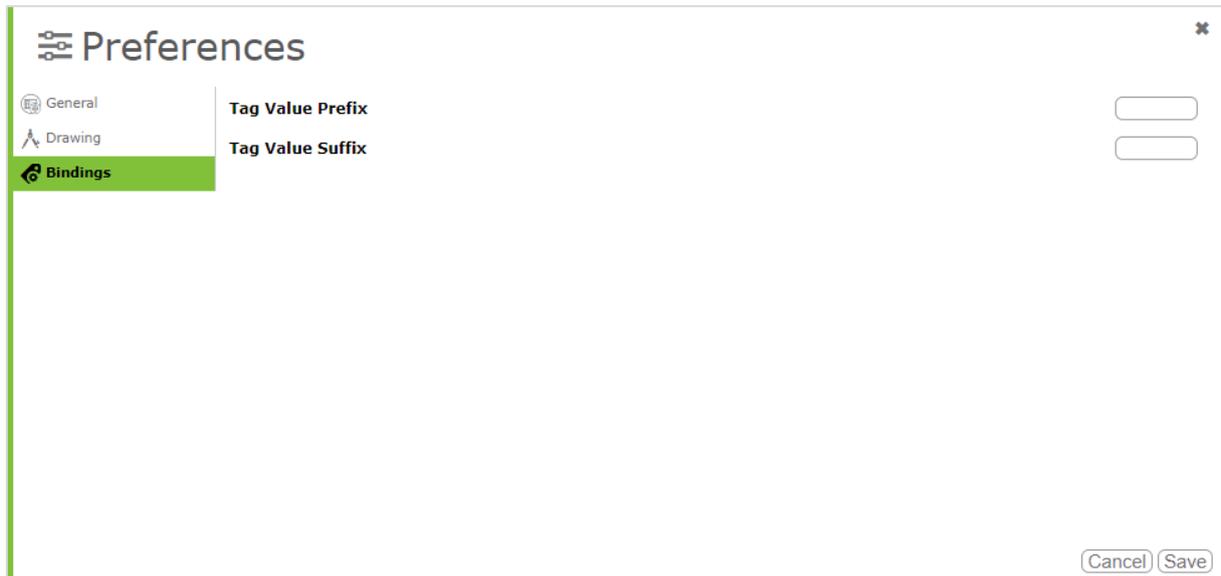


Figure 4-16 Preferences – Bindings – Prefix and Suffix

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.

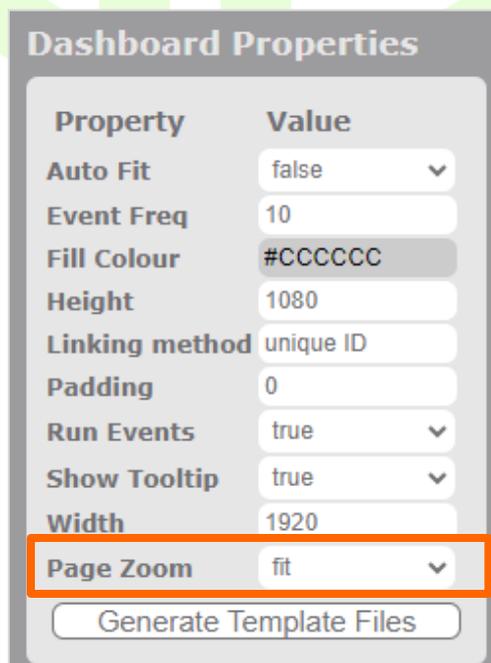


Figure 4-17 Page Zoom - fit

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.

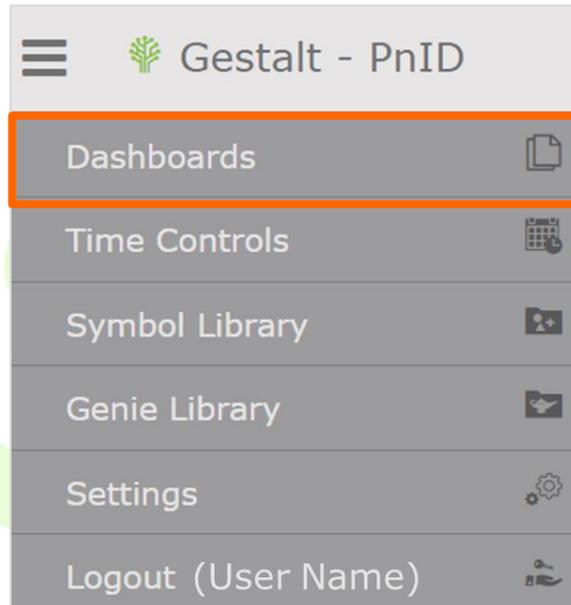


Figure 4-18 Left-Side Panel Options

To start a new drawing choose New.

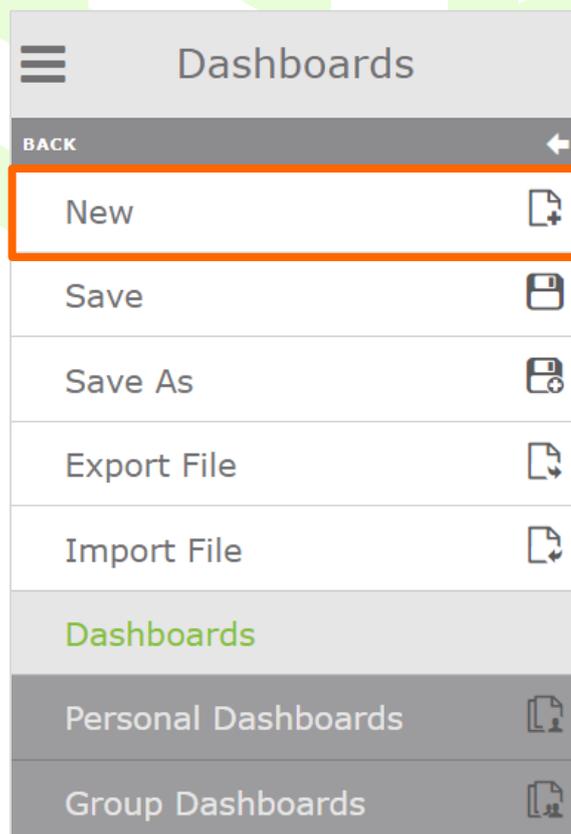


Figure 4-19 New Dashboard

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

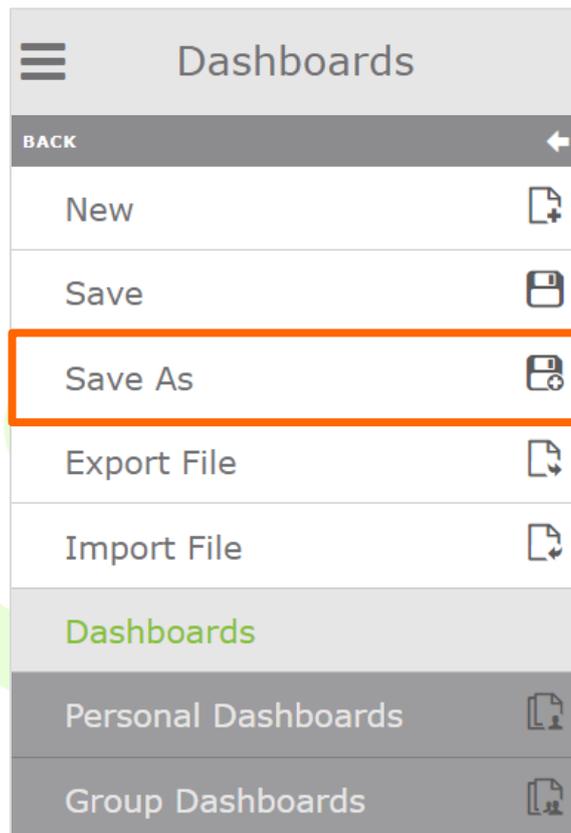


Figure 4-20 Saving a Dashboard – Save As

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.

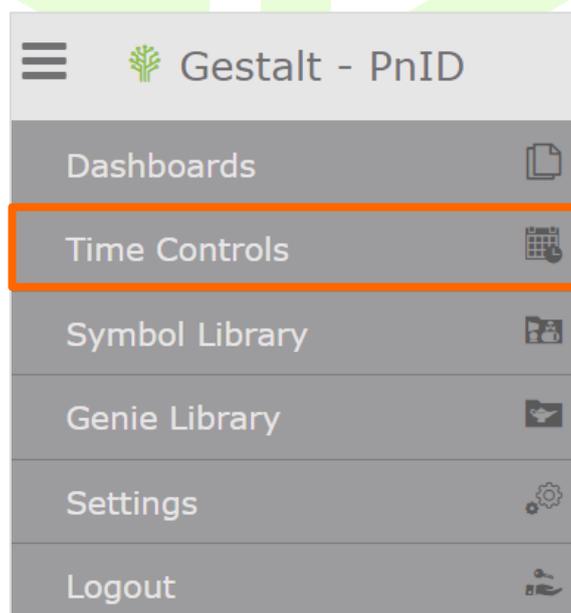


Figure 4-21 Left-Side Panel – Time Controls

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

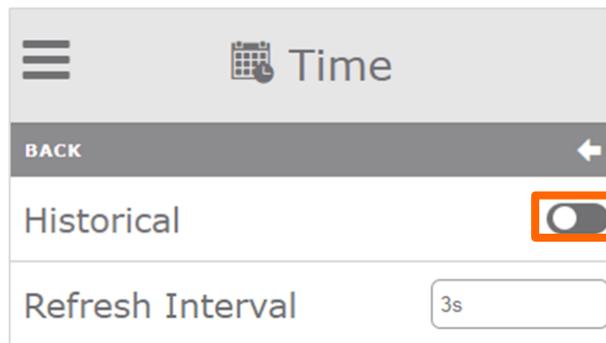


Figure 4-22 Time Controls – Real Time

To set the time to Historical move the toggle option to the right.

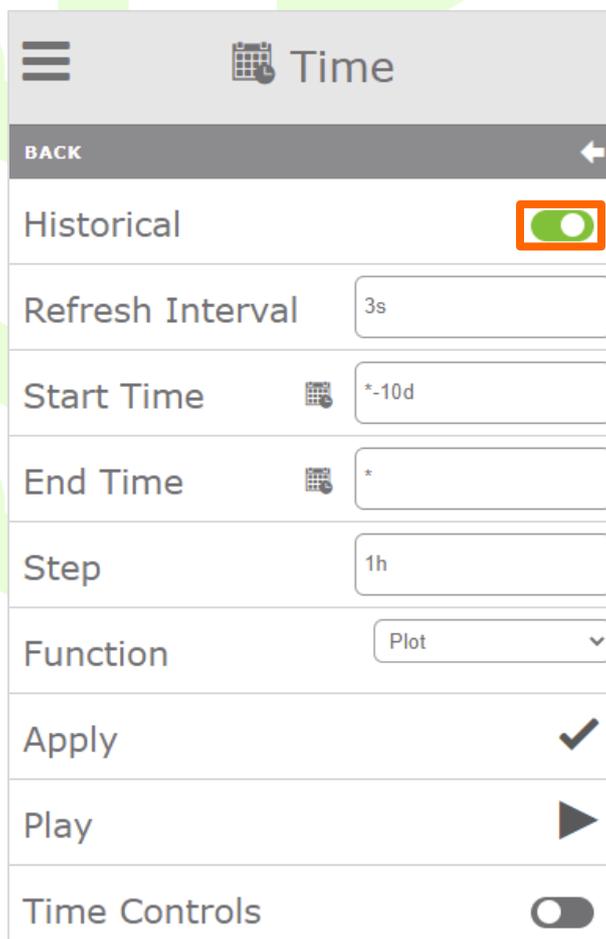


Figure 4-23 Time Controls – Historical

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.



Figure 4-24 Data Controller Panel – Play

Select the stop icon to get playback to stop.

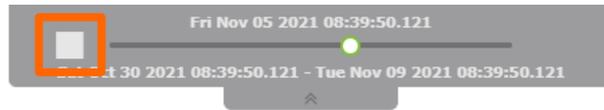


Figure 4-25 Data Controller Panel – Stop

Find detailed information on Data Functions here:

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

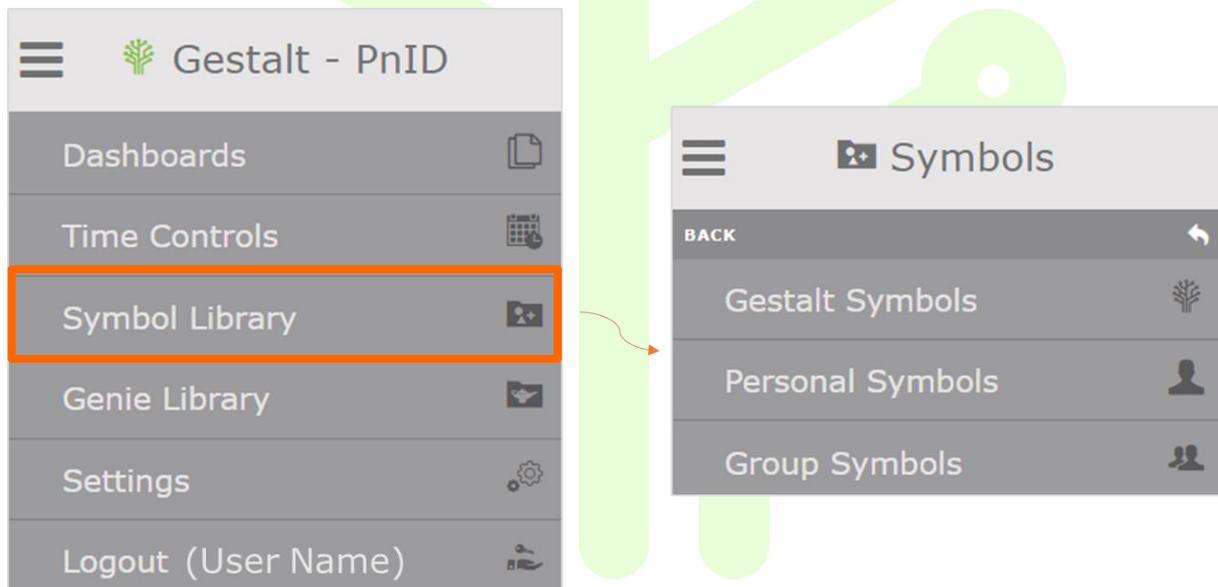


Figure 4-26 Symbol Library

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.

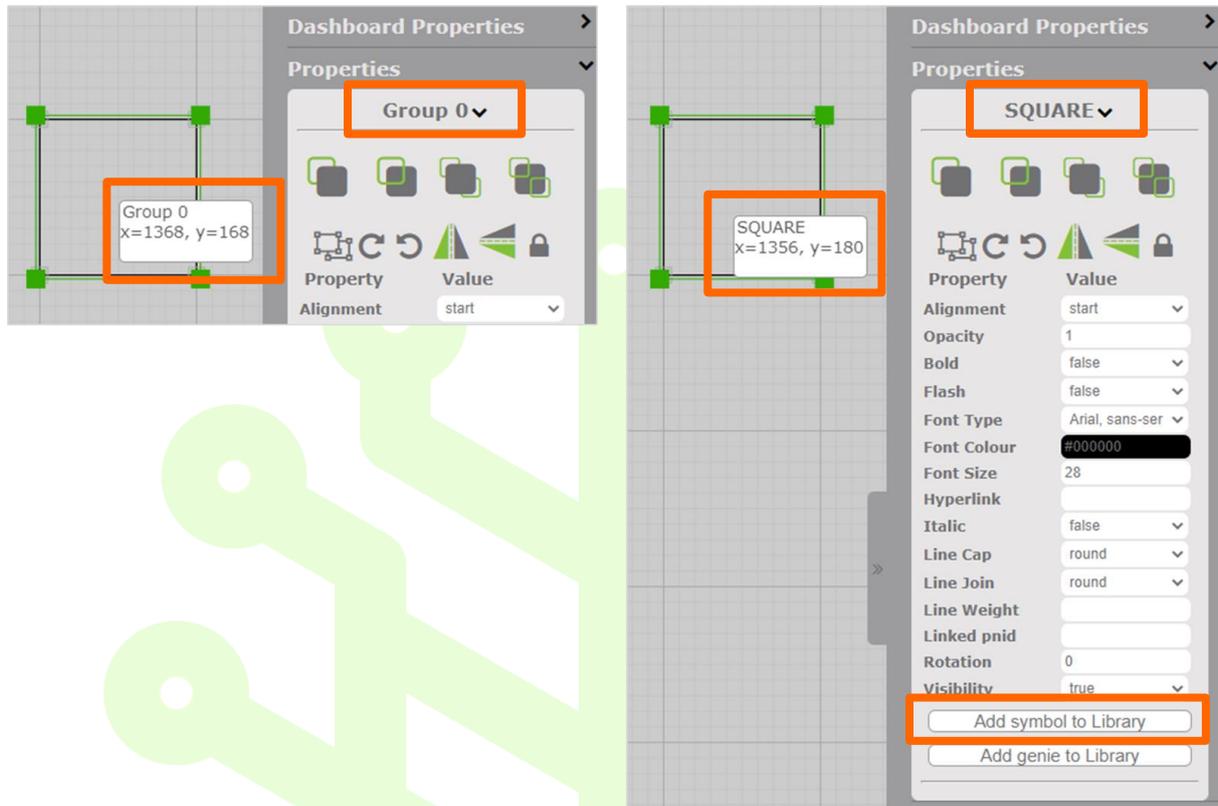


Figure 4-27 Rename Symbol – Add to Symbol Library

The pop-up that appears shows your symbol name. Choose Select Folder.

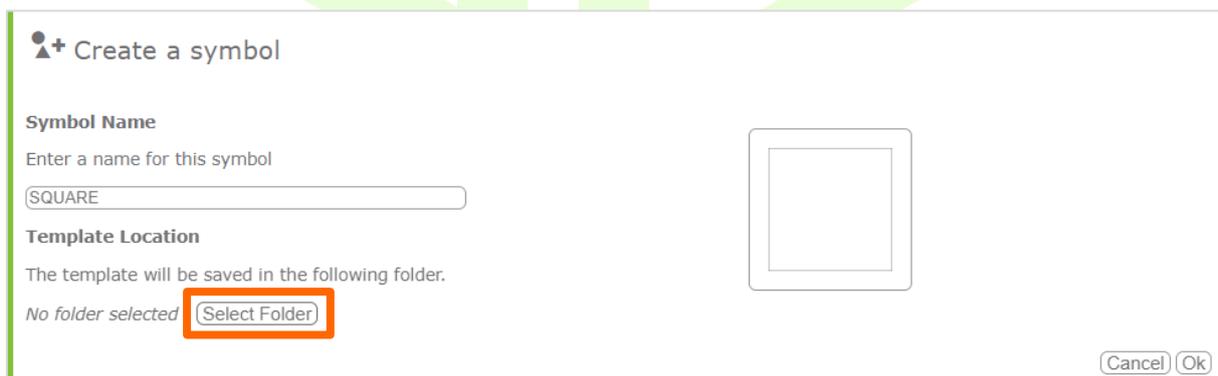


Figure 4-28 Pop-Up - Select Folder

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

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.

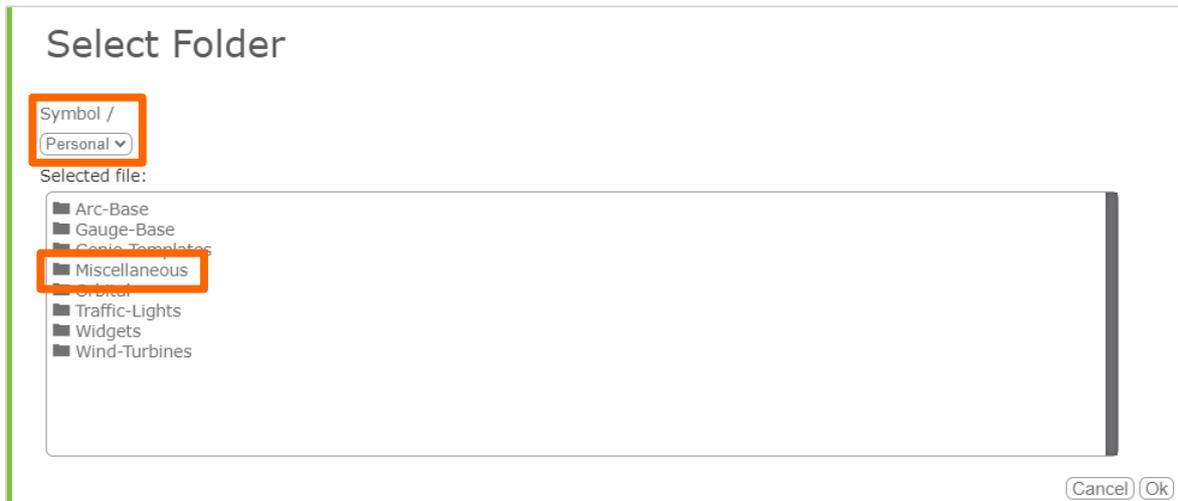


Figure 4-29 Pop-Up – Select Folder from Personal

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.

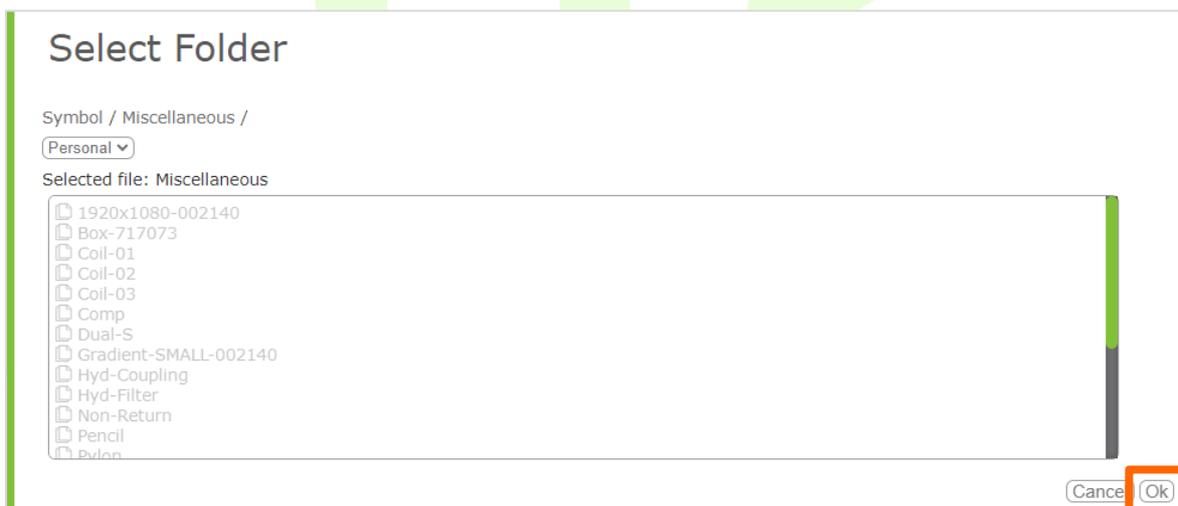


Figure 4-30 Pop-Up – Folder Contents

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.

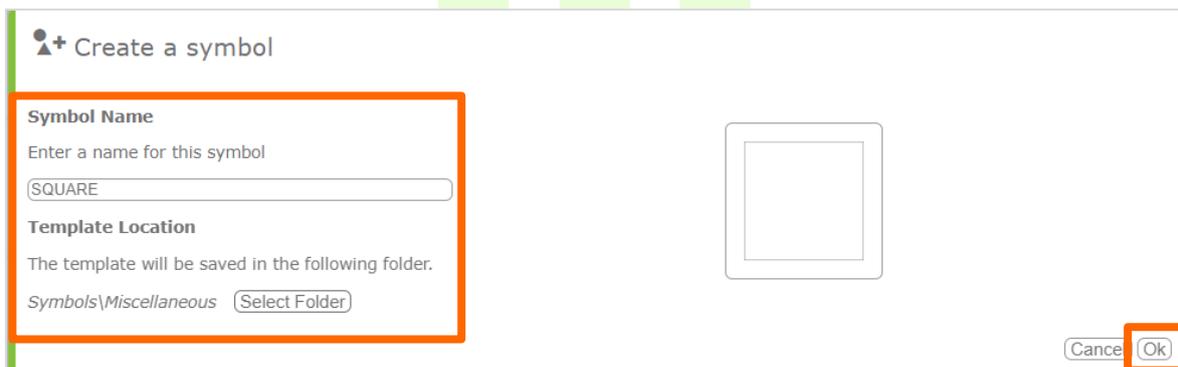


Figure 4-31 Pop-Up – New Symbol Saved to Folder

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.

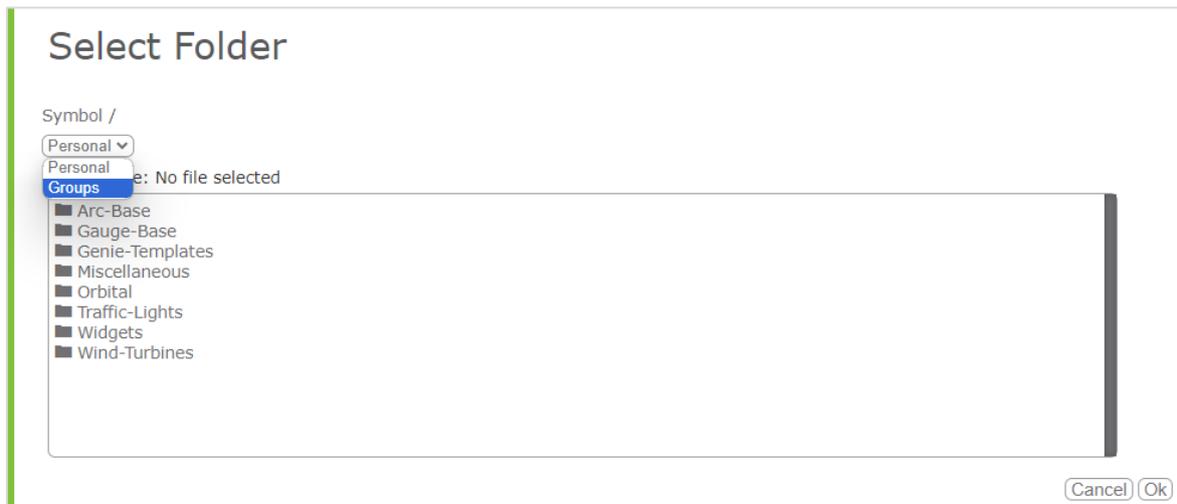


Figure 4-32 Pop-Up – Pop-Up – Share with Group

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

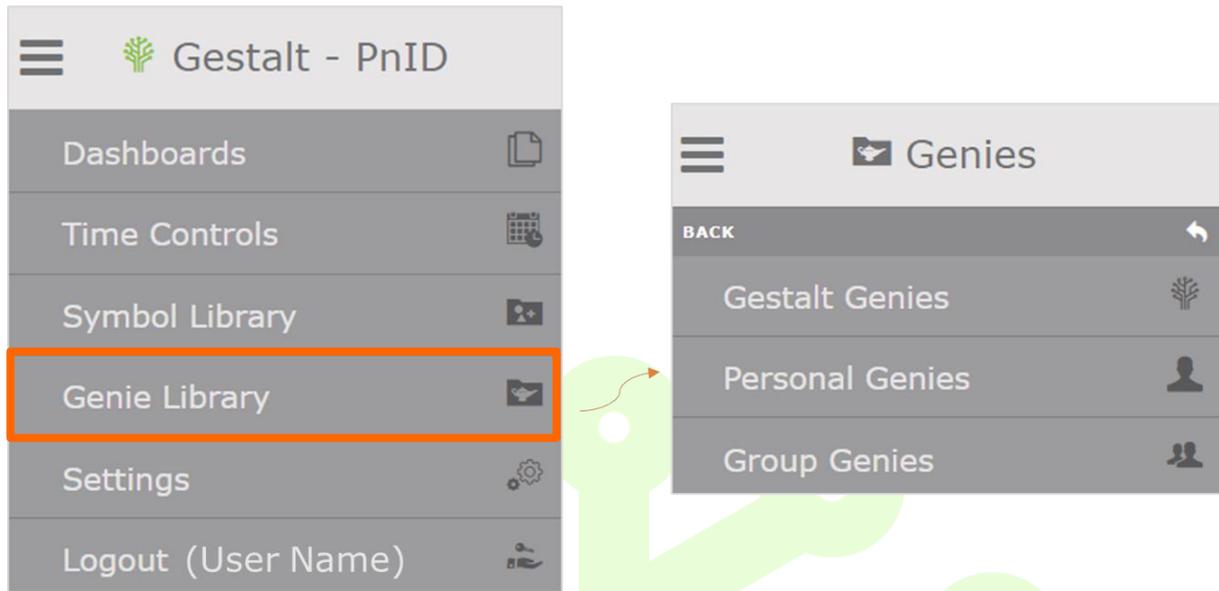


Figure 4-33 Genie Library

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.

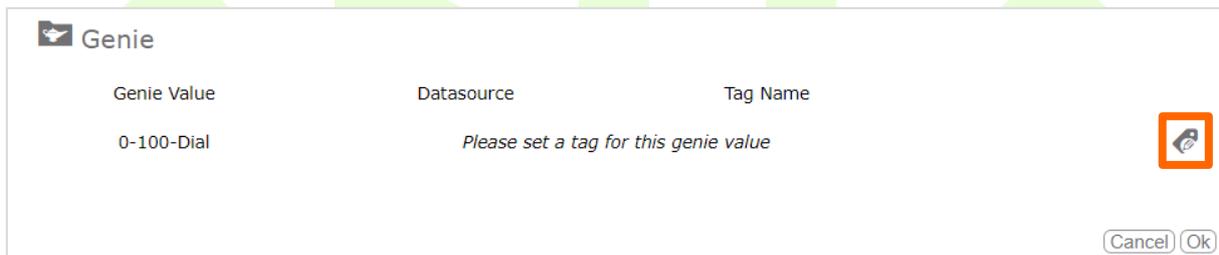


Figure 4-34 Genie – Add Data – Select Icon

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.

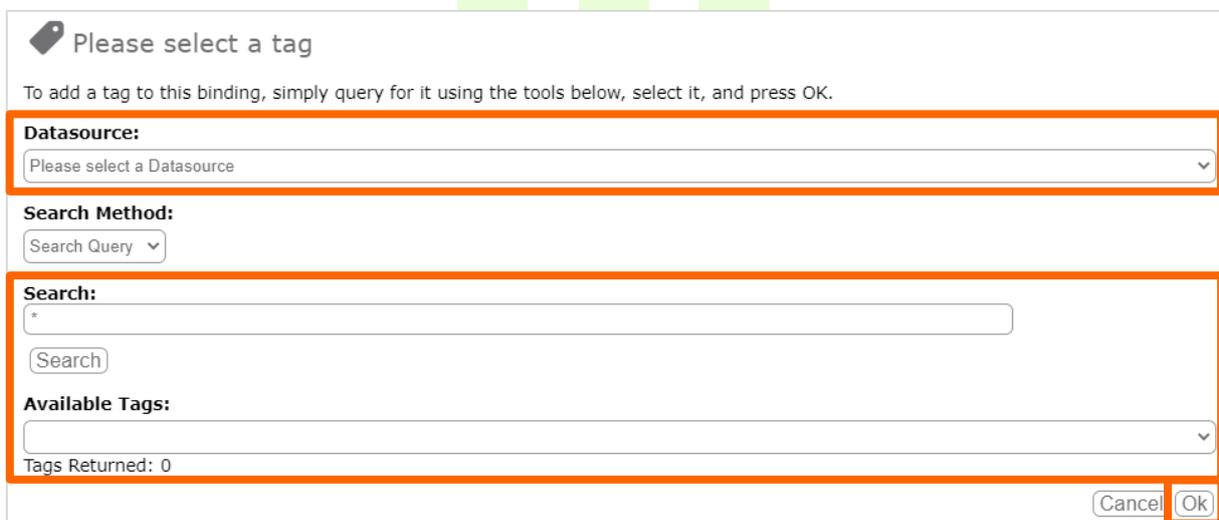


Figure 4-35 Add Data – Select Datasource & Tag

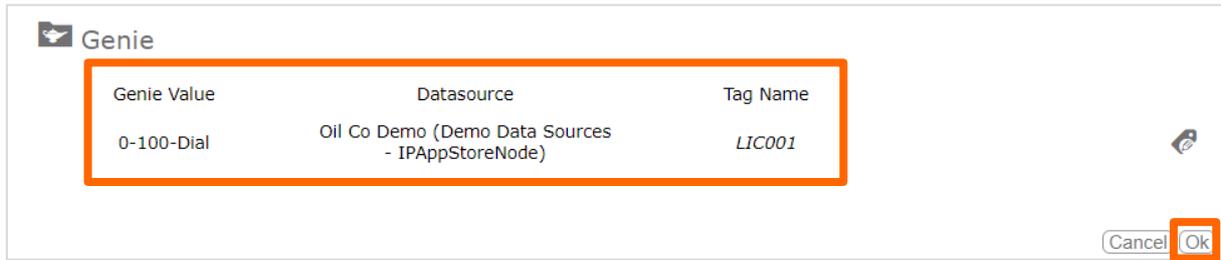


Figure 4-36 Added Data

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

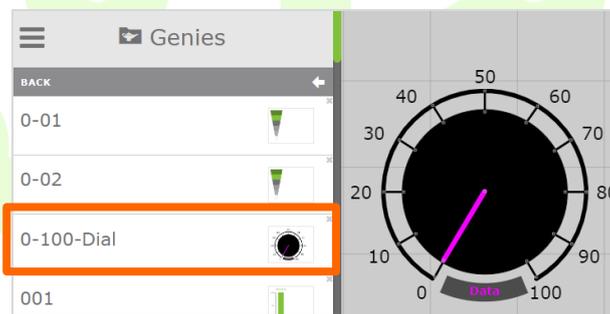


Figure 4-37 Genie Library – Genie on Canvas

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.

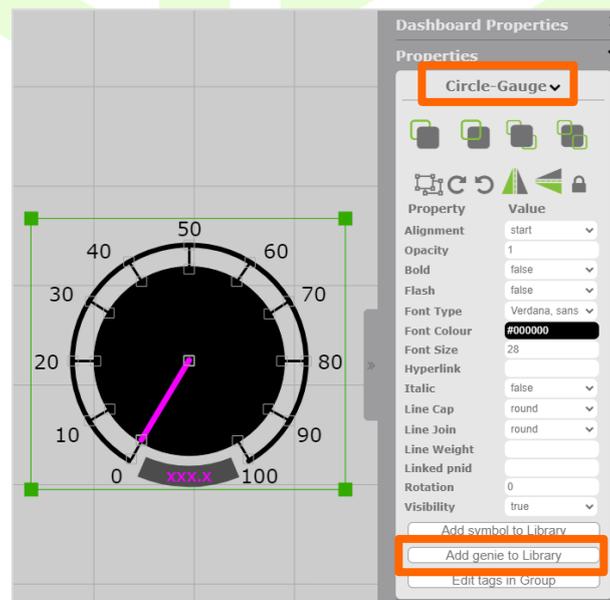
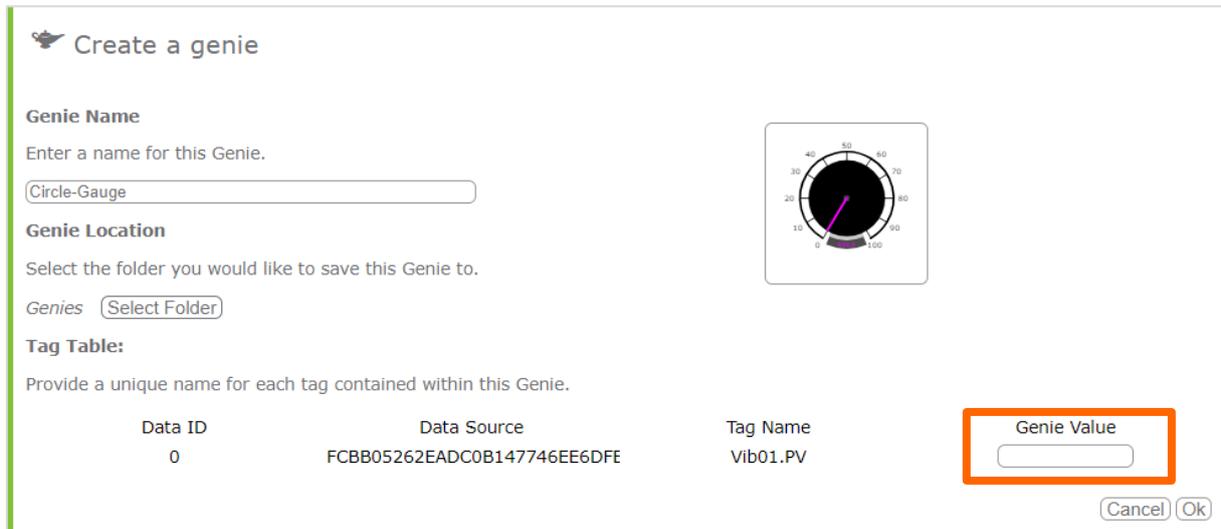


Figure 4-38 Add Genie to Library Button

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.



Create a genie

Genie Name
Enter a name for this Genie.
Circle-Gauge

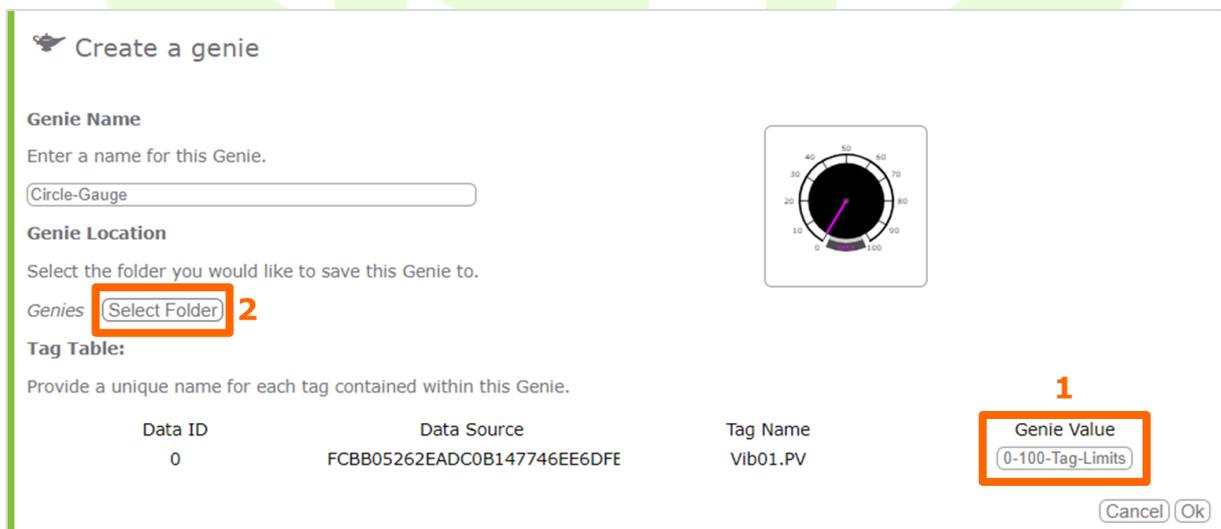
Genie Location
Select the folder you would like to save this Genie to.
Genies

Tag Table:
Provide a unique name for each tag contained within this Genie.

Data ID	Data Source	Tag Name	Genie Value
0	FCBB05262EADC0B147746EE6DFE	Vib01.PV	

Figure 4-39 Genie Value

Add the descriptor '0-100-Tag-Limits' to the Genie Value (1). Choose Select Folder (2).



Create a genie

Genie Name
Enter a name for this Genie.
Circle-Gauge

Genie Location
Select the folder you would like to save this Genie to.
Genies 2

Tag Table:
Provide a unique name for each tag contained within this Genie.

Data ID	Data Source	Tag Name	Genie Value
0	FCBB05262EADC0B147746EE6DFE	Vib01.PV	0-100-Tag-Limits

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.

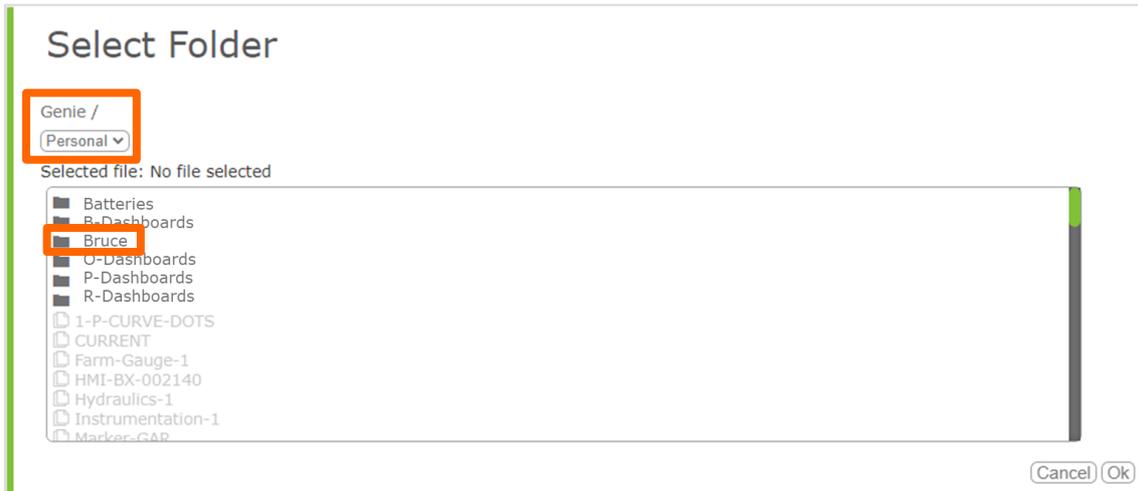


Figure 4-41 Select Folder from Personal

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.

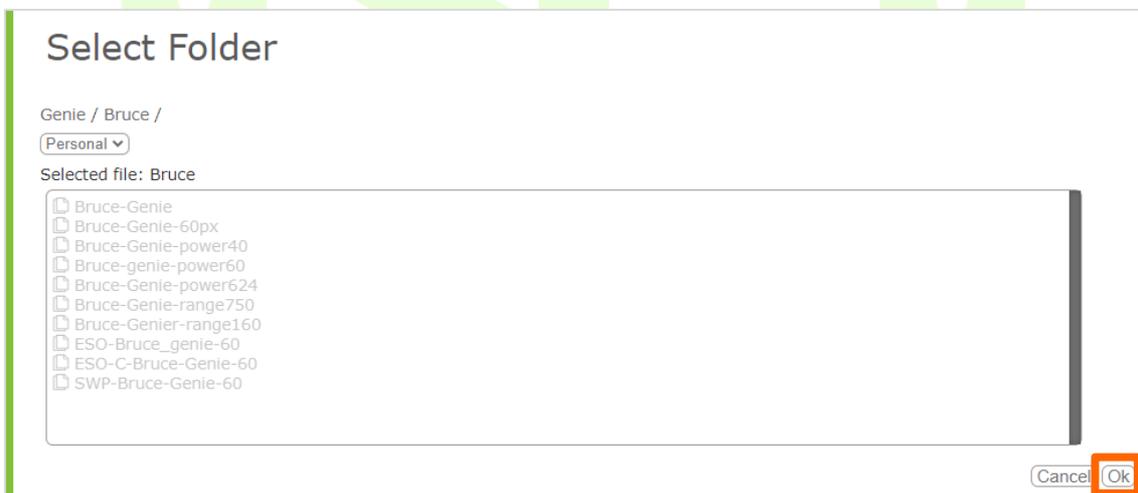


Figure 4-42 Pop-Up – Folder Contents

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.

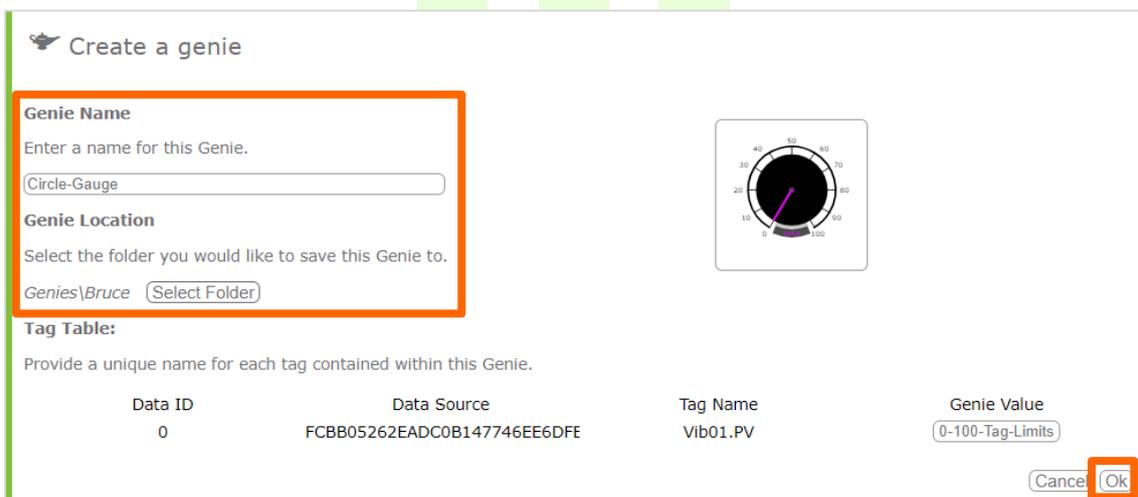


Figure 4-43 Pop-Up – New Genie Saved to Folder

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)

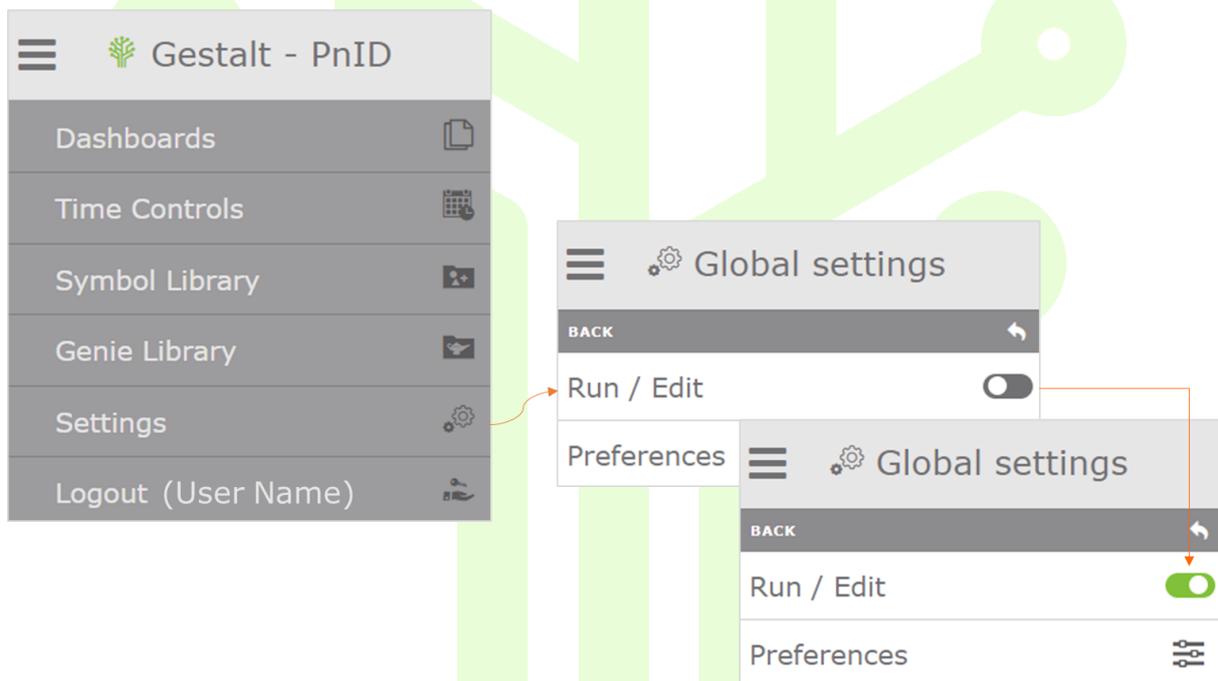


Figure 4-44 Settings – Run Mode

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.

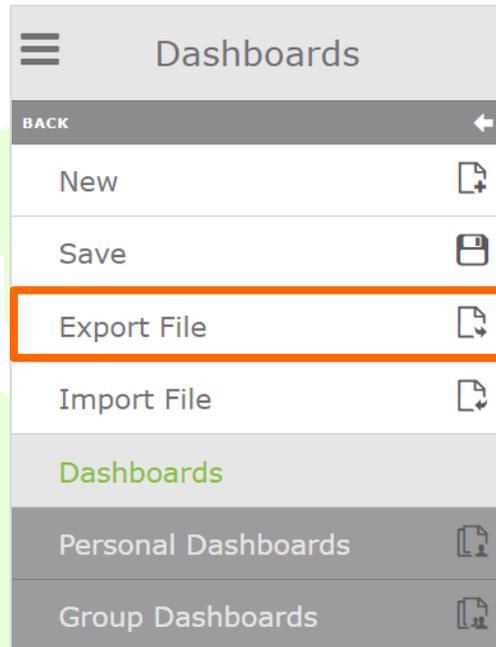


Figure 4-45 Export File from PnID

4.2.8 Import

To import a file into PnID select Import File from the Dashboards area in PnID.

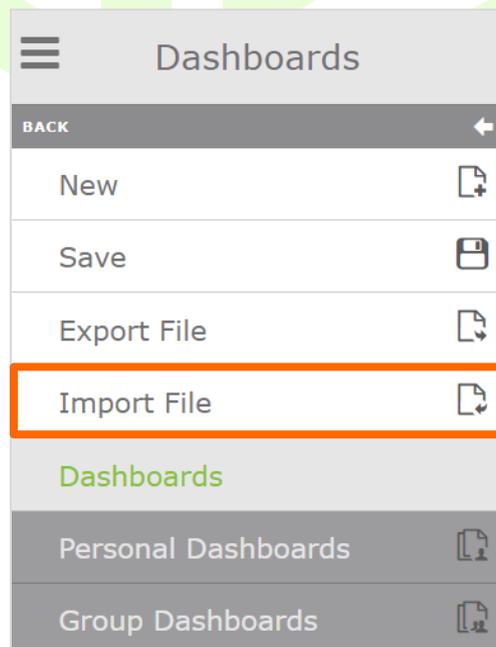


Figure 4-46 Import File into PnID

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

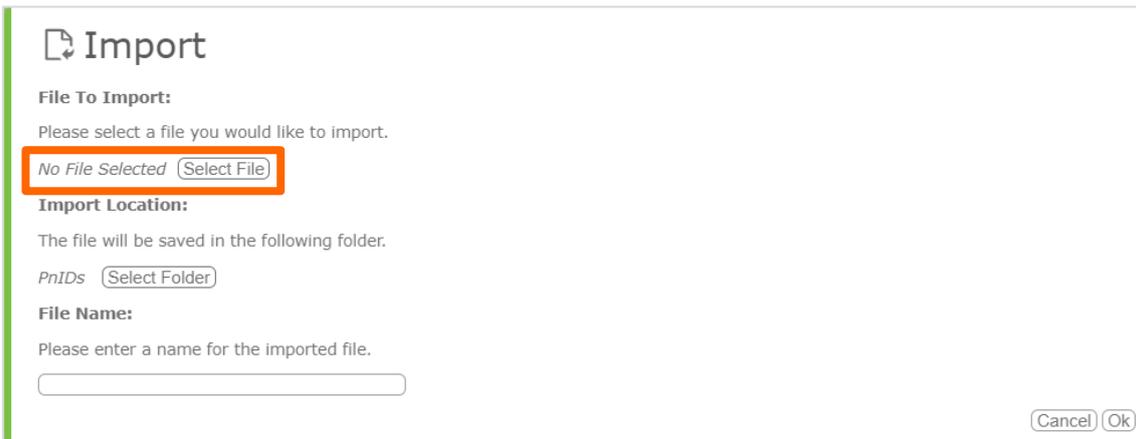


Figure 4-47 Choose – Select File

Select Open.

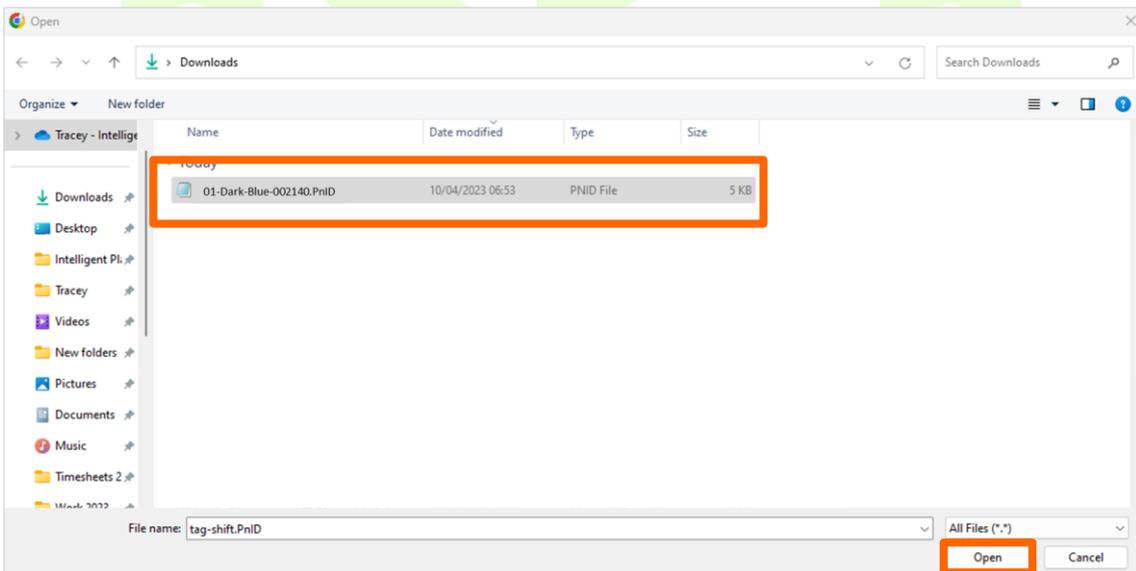


Figure 4-48 Browse File to Import – Select Open

The chosen file will appear in the Filename area of the pop-up(2). Select Ok.



Figure 4-49 Import – Select File and Folder

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.

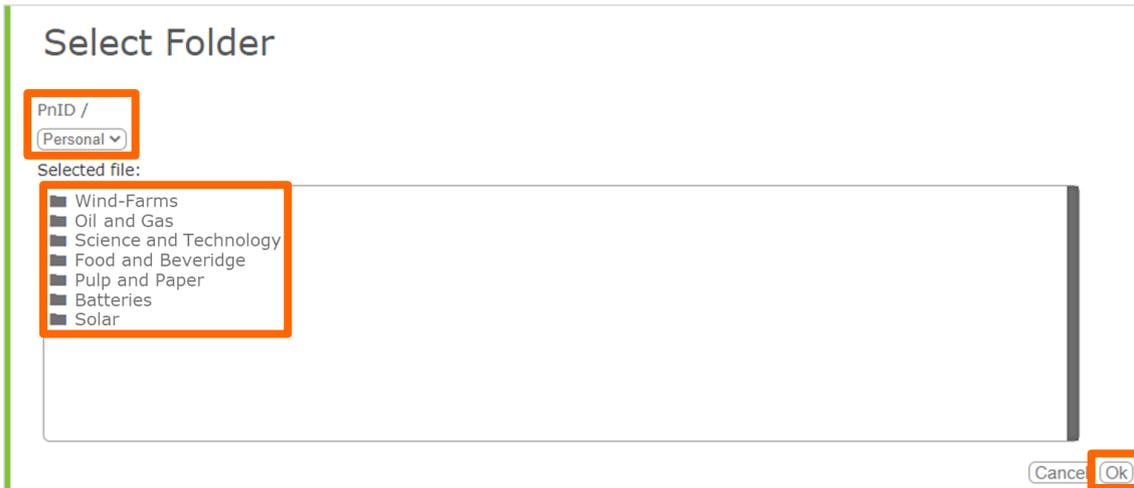


Figure 4-50 Import – Select – Personal/Group and Folder

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.



Figure 4-51 Share a File

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.

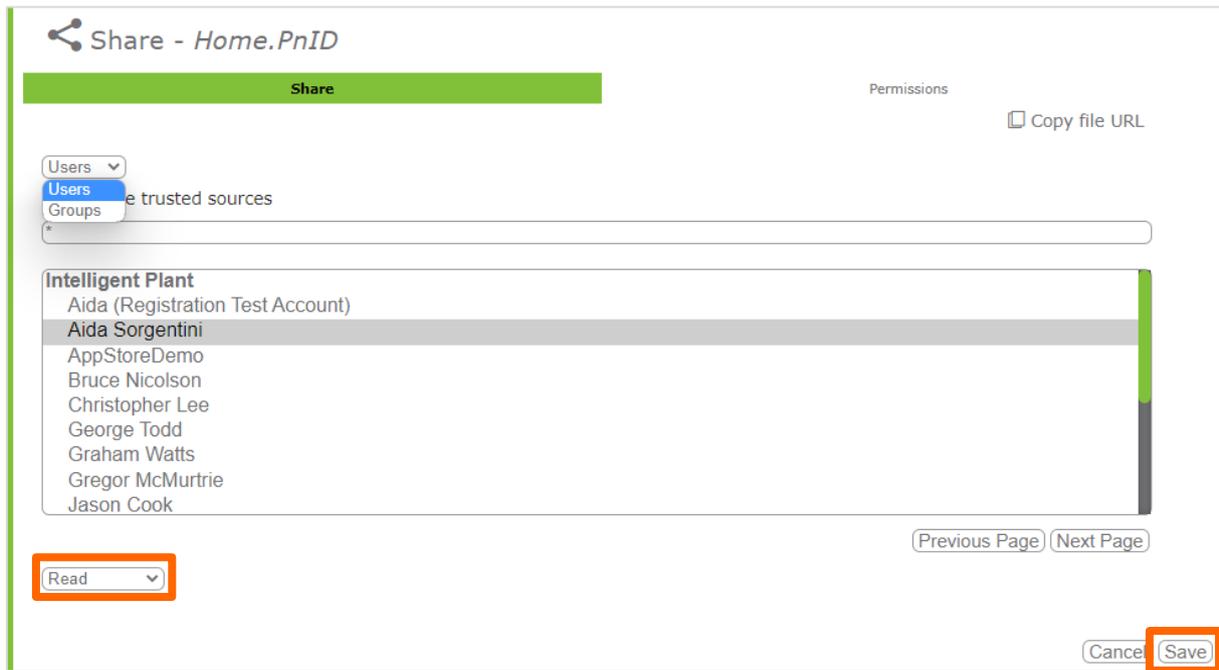


Figure 4-52 Share a File – Pop-Up

A pop-up will appear saying that the share was successful. Select Close.



Figure 4-53 File Shared Successfully

Permissions Options tab shows:

- Users – Lists the page users and permissions they have
- Groups – Lists the groups and permissions they have

Select the Permissions tab to see the Users list for that dashboard.

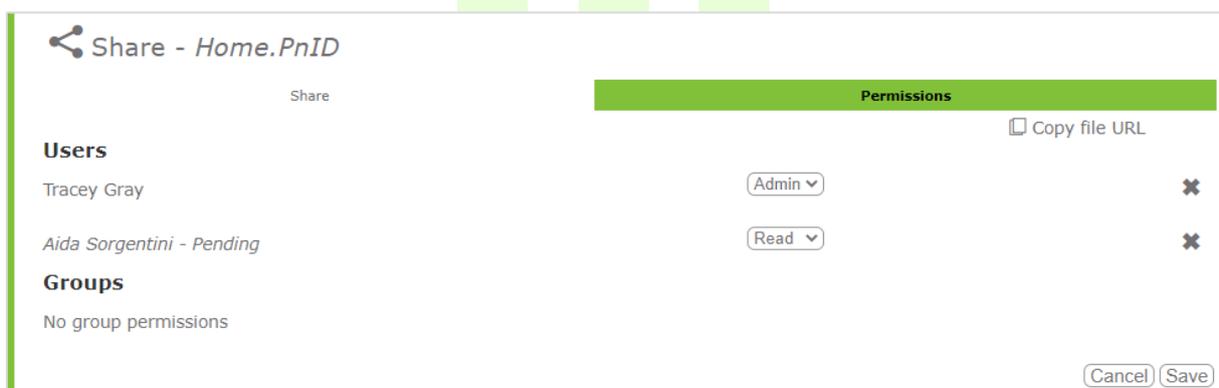


Figure 4-54 Users and Groups – Share Pending

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.

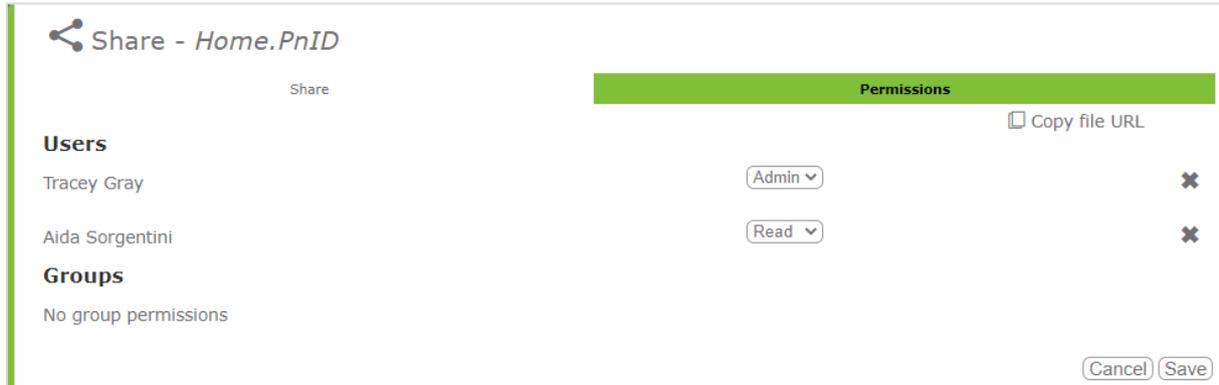


Figure 4-55 Users and Groups – Share Accepted

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.

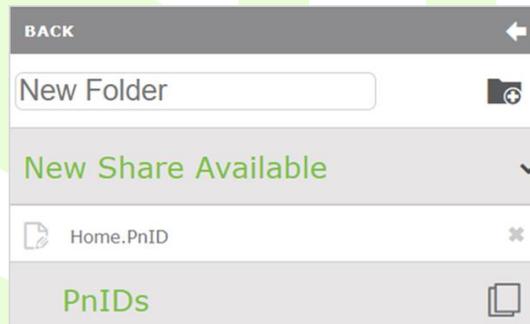


Figure 4-56 New Share Available

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.

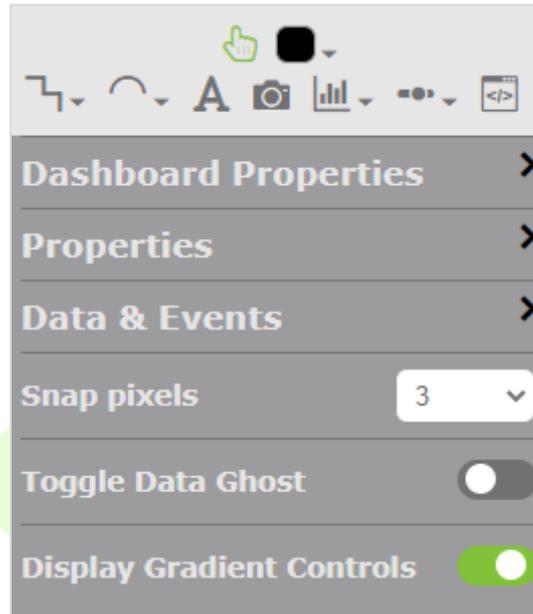


Figure 4-57 Right-Side Panel

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).

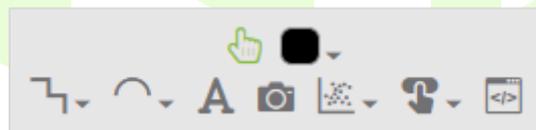


Figure 4-58 Toolbar

4.3.1.1 Select

When you want to group, move or copy items choose the Select icon.

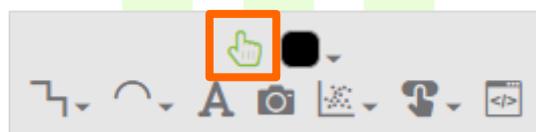


Figure 4-59 Select Icon

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.

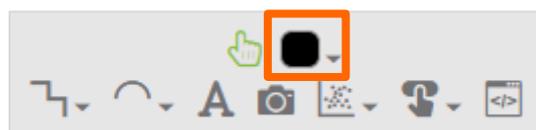


Figure 4-60 Select Icon

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.

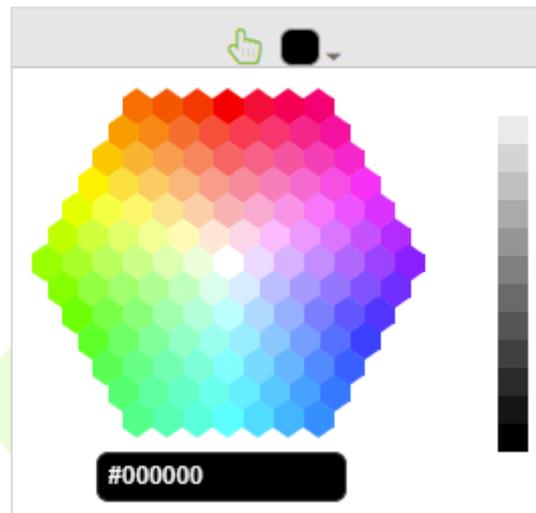


Figure 4-61 Colour Palette

4.3.1.3 Polyline & Rectangle

Right-click on the polyline icon or drop-down arrow to select either the polyline or rectangle option.

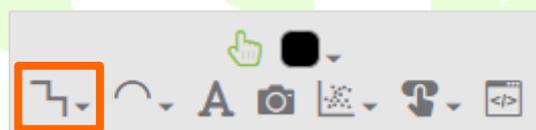


Figure 4-62 Polyline Icon

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.

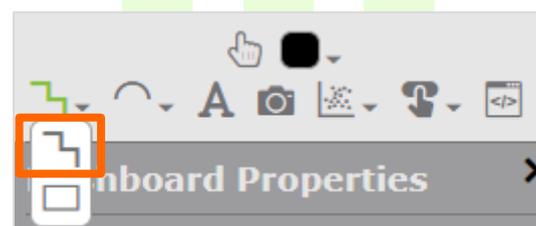


Figure 4-63 Polyline Option

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.

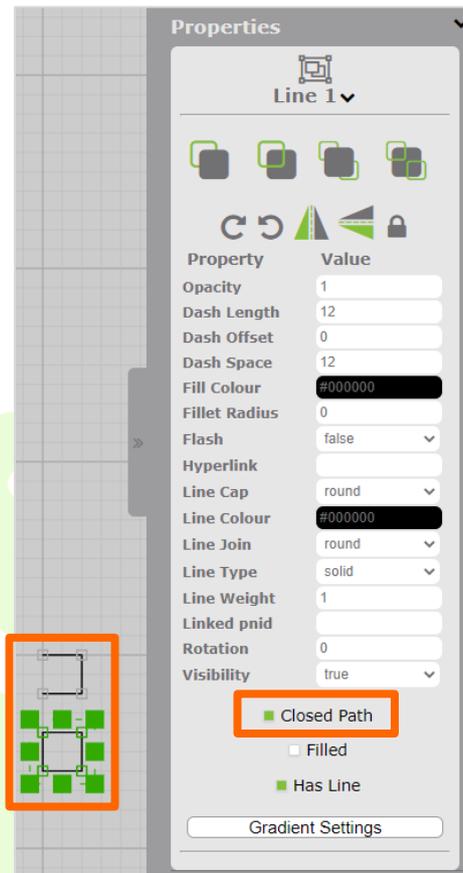


Figure 4-64 Select Shape – Closed Path

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.

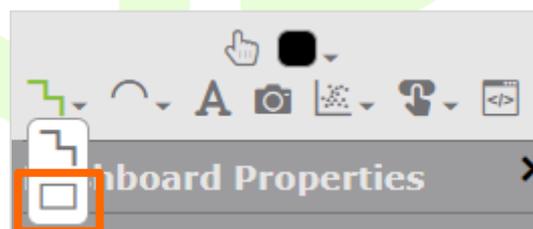


Figure 4-65 Rectangle Option

4.3.1.4 Arc & Circle

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

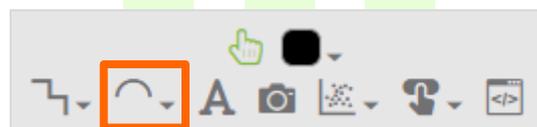


Figure 4-66 Arc Icon

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.

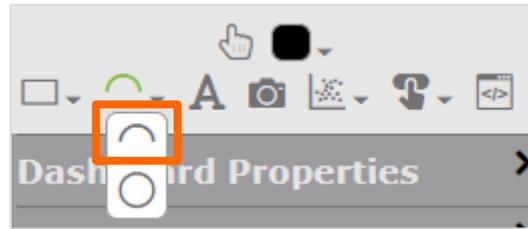


Figure 4-67 Arc Option

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.



Figure 4-68 Arc Type – Draw to Radius Properties

Arc Type – Close on Arcs

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.

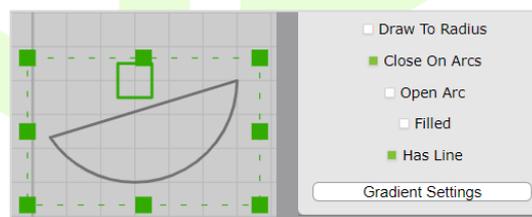


Figure 4-69 Arc Type – Close on Arc Properties

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.

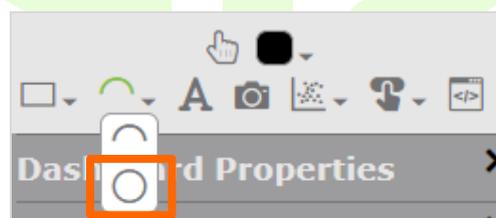


Figure 4-73 Circle Option

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

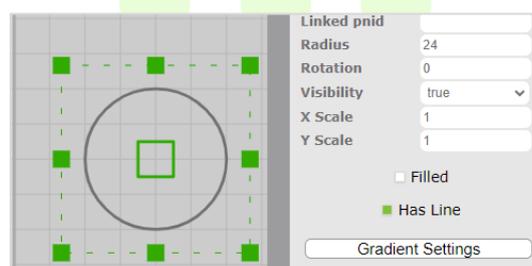


Figure 4-74 Circle-1 Properties

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

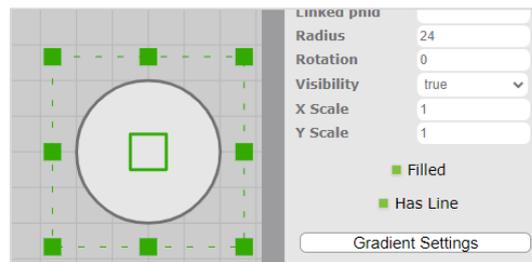


Figure 4-75 Circle-2 Properties

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

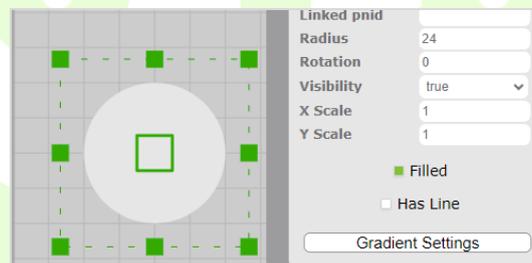


Figure 4-76 Circle-3 Properties

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.

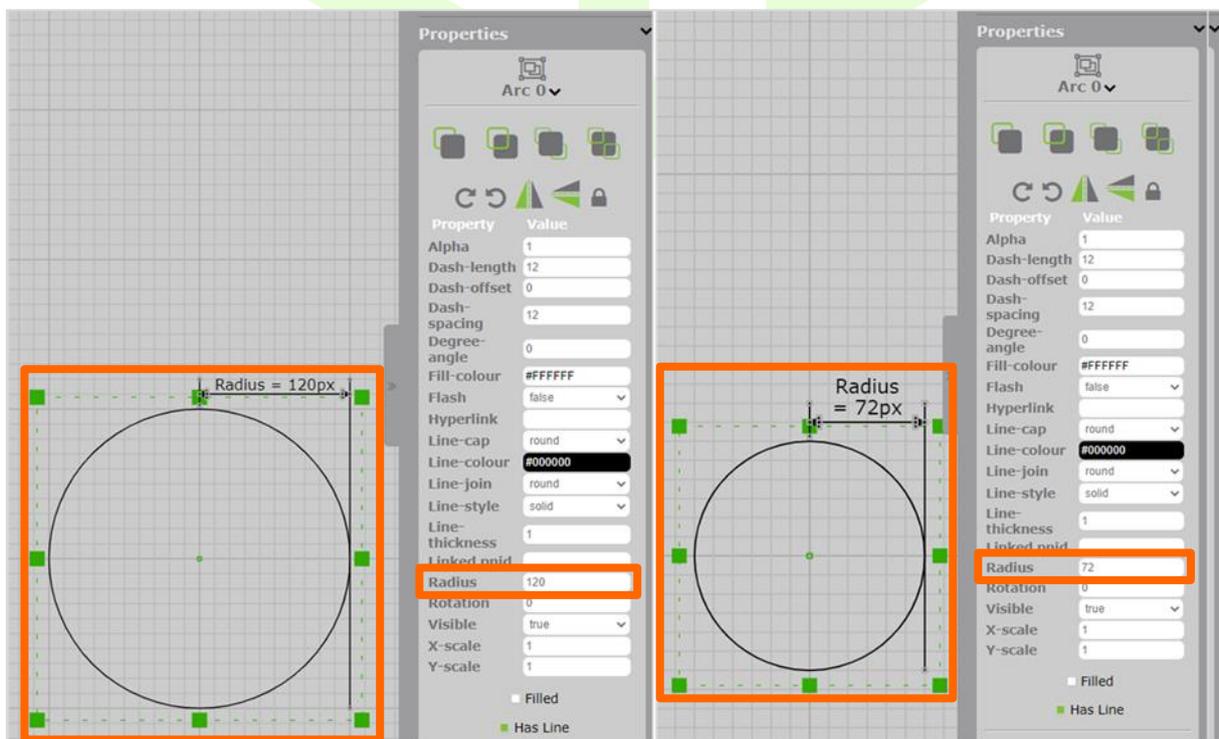


Figure 4-77 Circle-Change Radius Size

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)

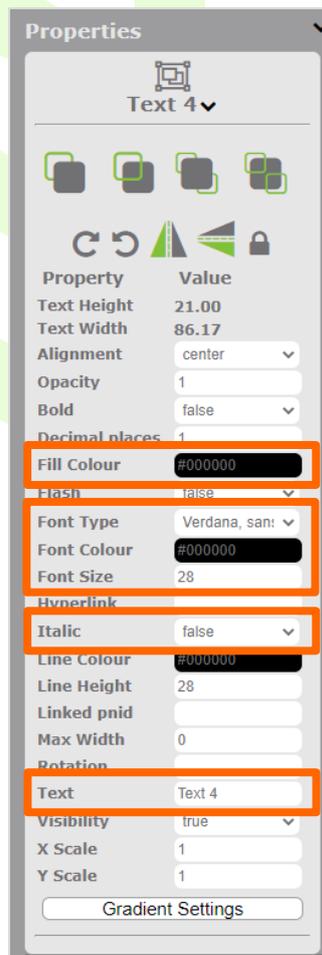


Figure 4-79 Text Properties

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.

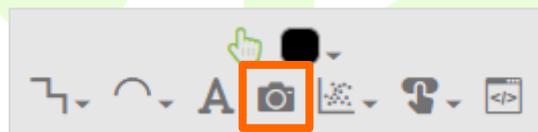


Figure 4-80 Add Image Icon

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.

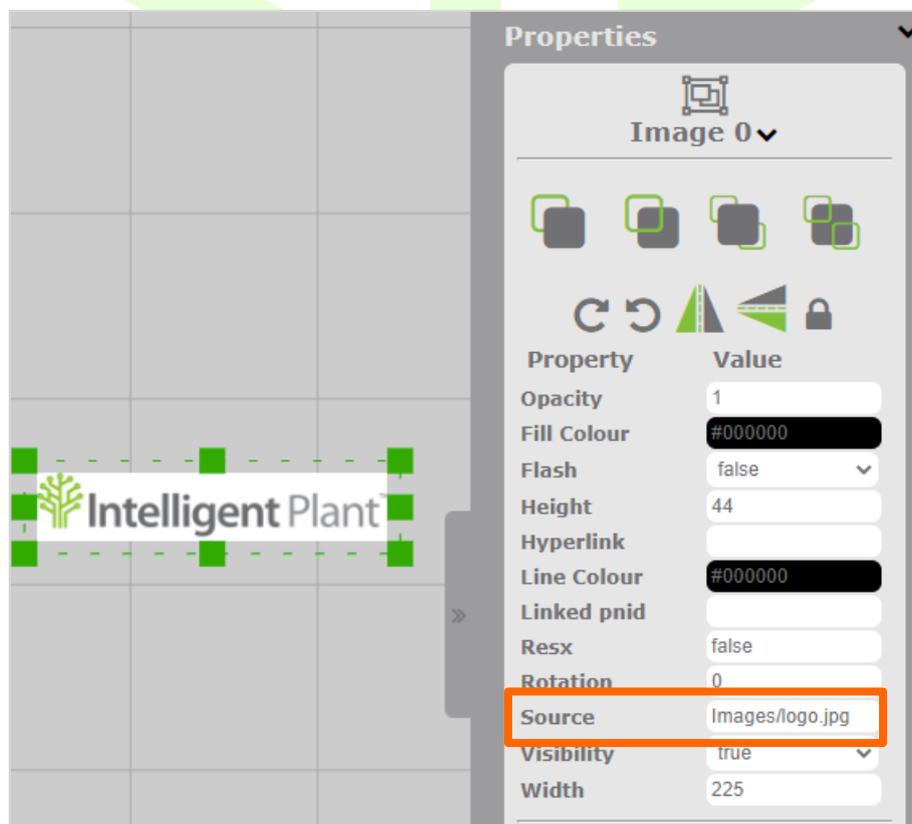


Figure 4-81 Standalone User - Image Name and Source Reference

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.

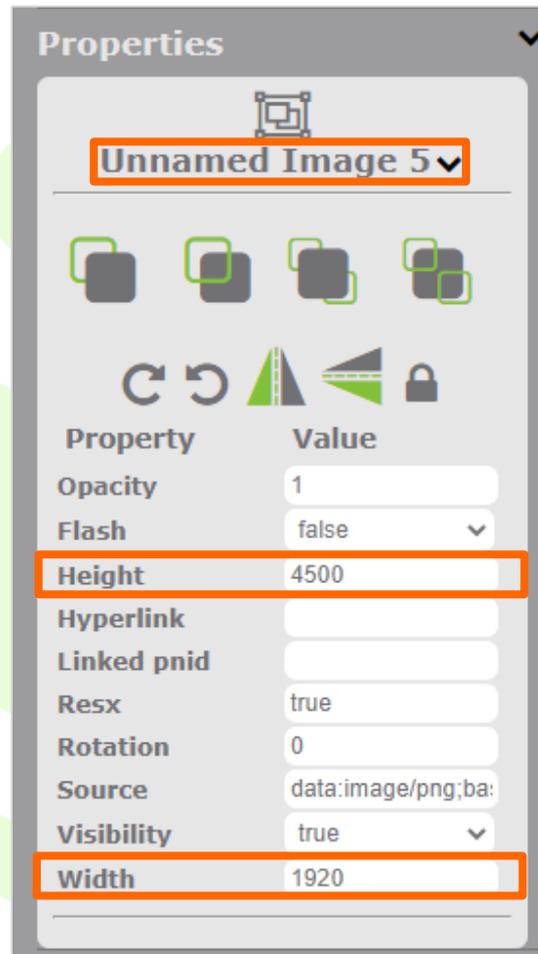


Figure 4-82 Image Height and Width

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.

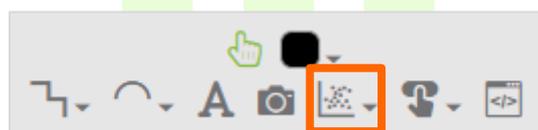


Figure 4-83 Add Scatterplot Icon

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.

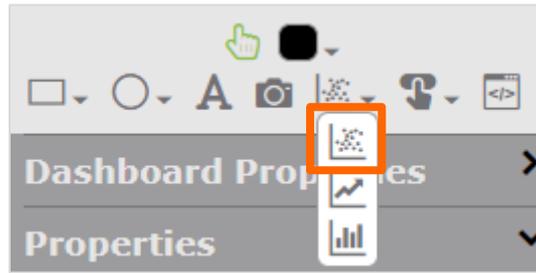


Figure 4-84 Scatterplot Option

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.

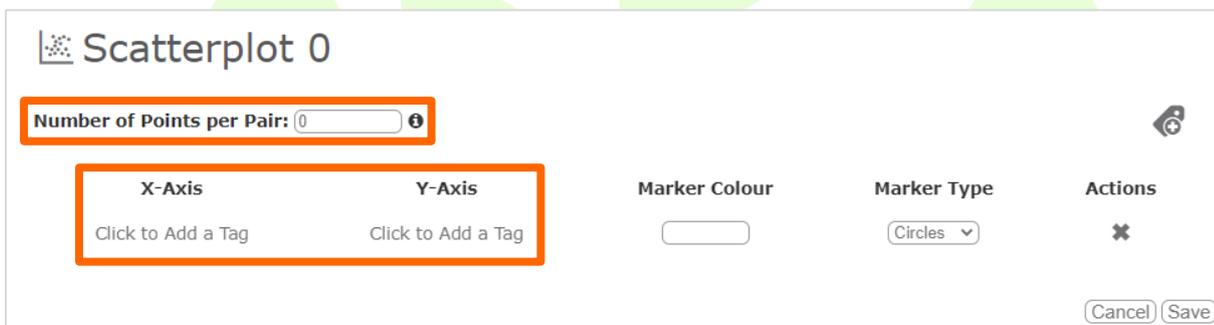


Figure 4-85 Scatterplot Pop-Up

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.

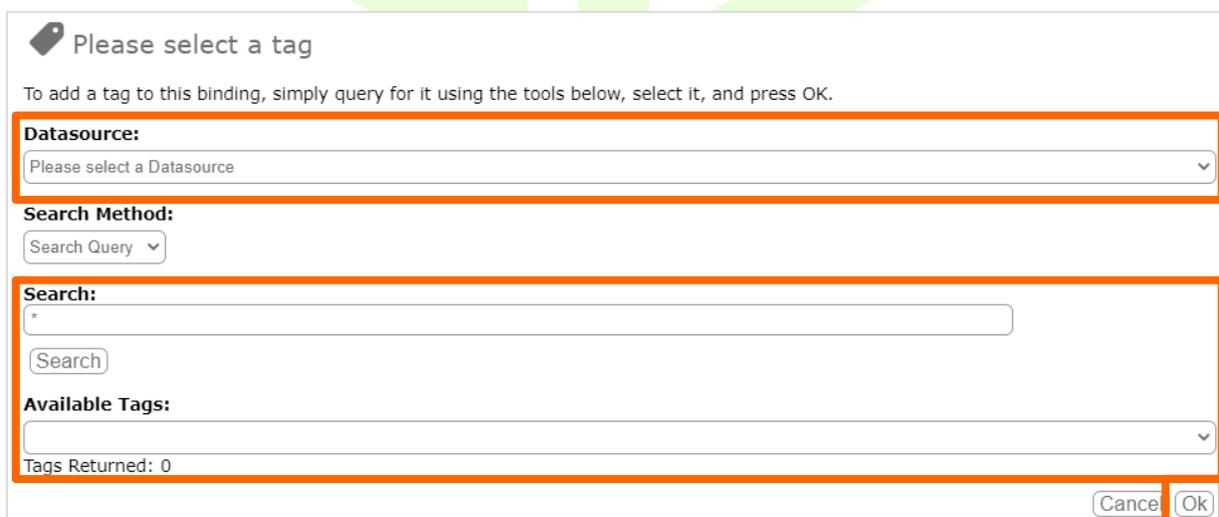


Figure 4-86 Select Datasource, Search and Add Tags for X and Y Axis

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.

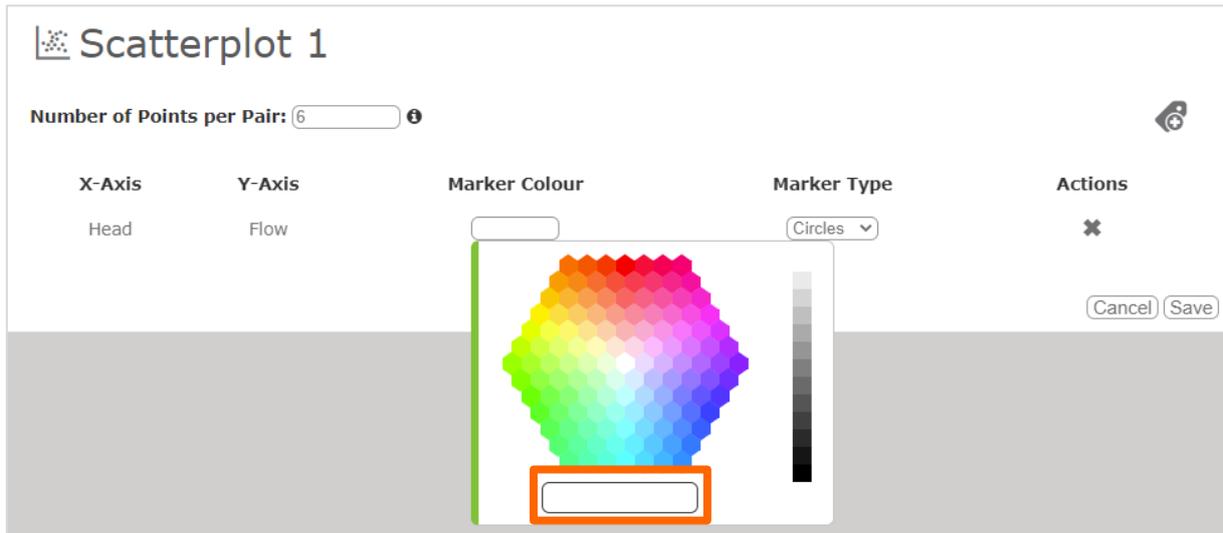


Figure 4-87 Scatter Plot Marker Colour – Palette

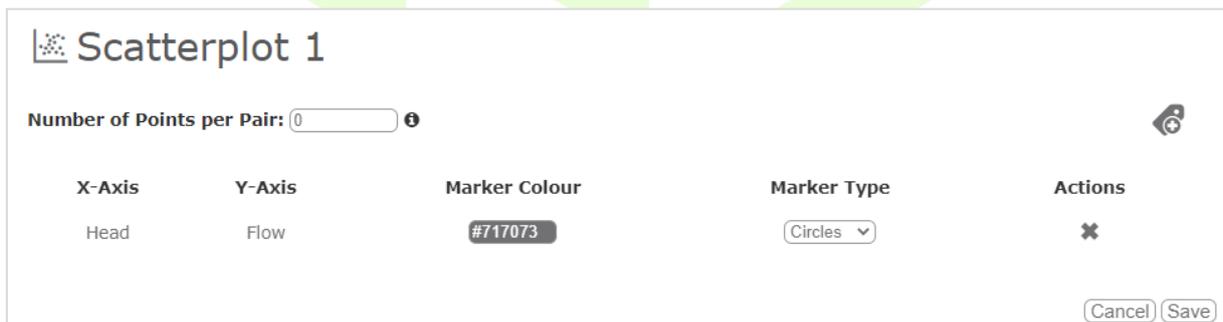


Figure 4-88 Scatterplot Marker Colour Chosen

Select your Marker Type.

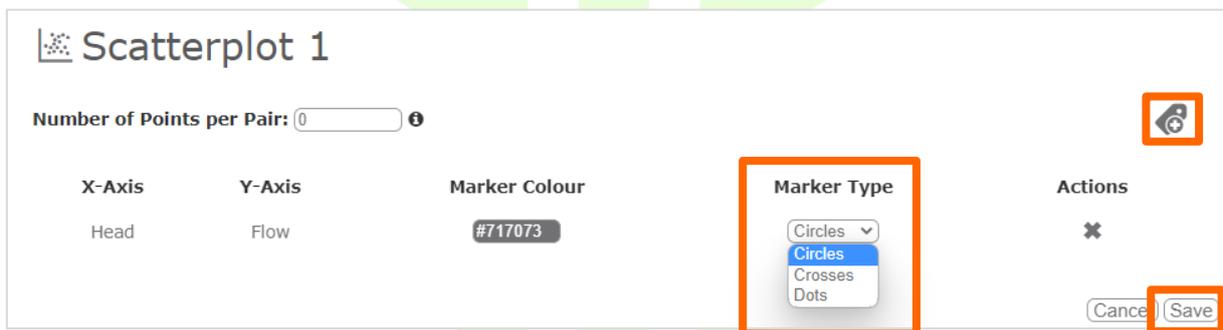


Figure 4-89 Scatterplot Marker Type

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.

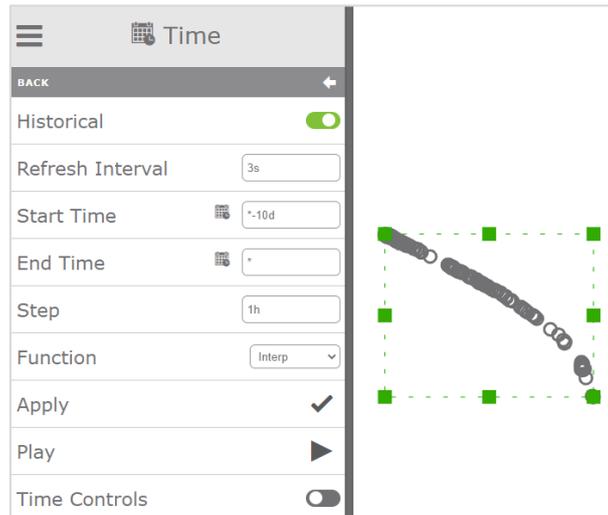


Figure 4-90 Scatterplot – Time Controls

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.



Figure 4-91 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.



Figure 4-92 Edit Scatterplot Pop-Up

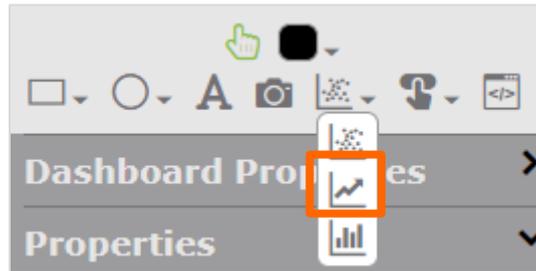


Figure 4-93 Sparkline Option

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.

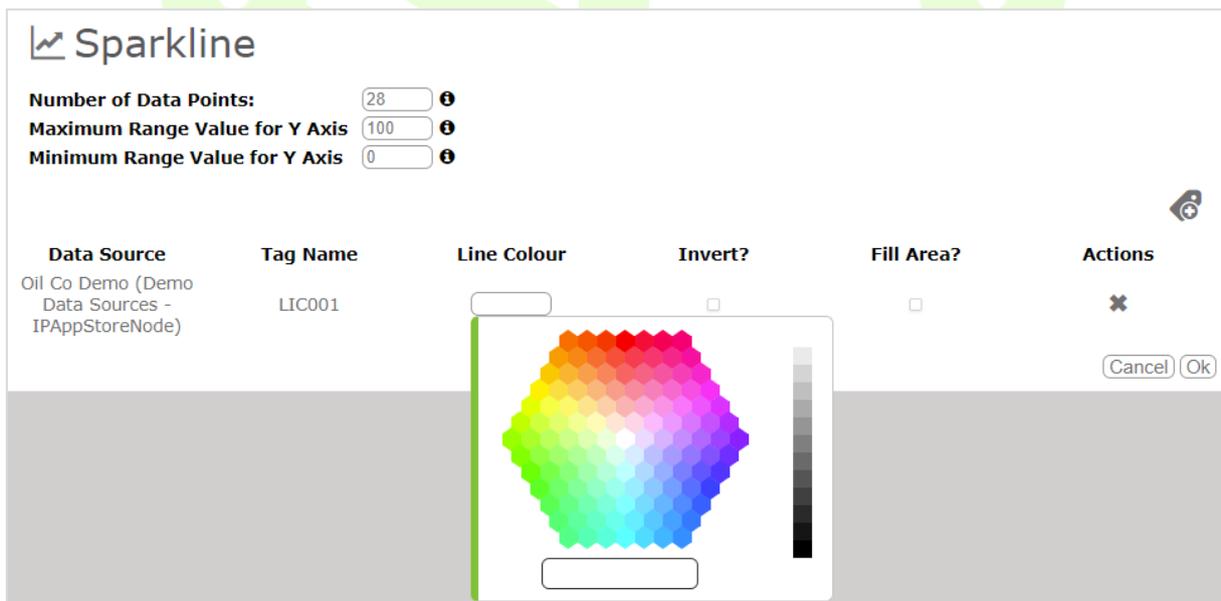


Figure 4-94 Sparkline Line Colour Pop-Up



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.

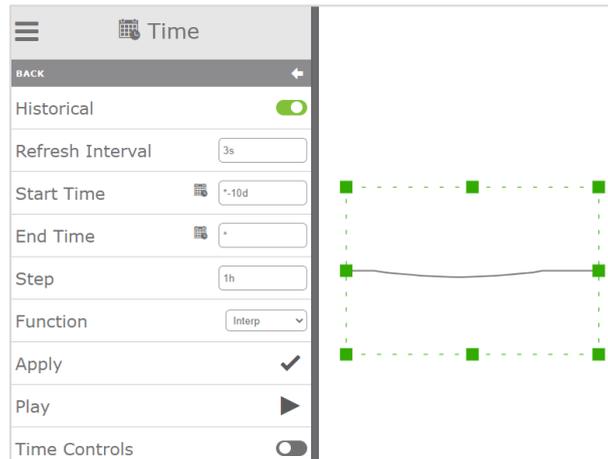


Figure 4-96 Sparkline – Time Controls

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.

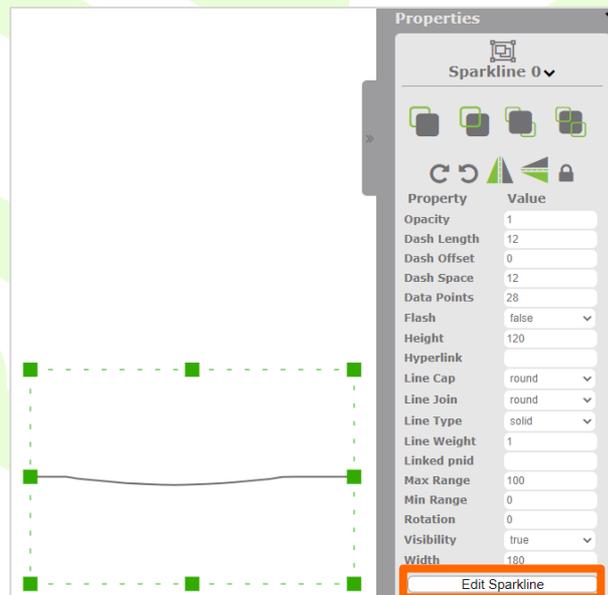


Figure 4-97 Edit Sparkline

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.



Figure 4-98 Edit Sparkline Pop-Up

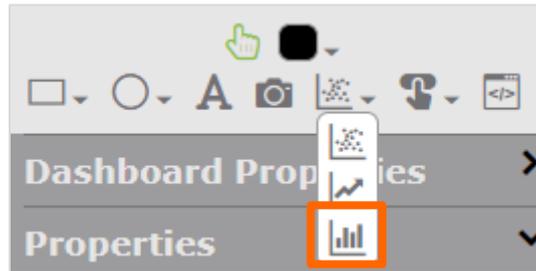


Figure 4-99 Bar Chart Option

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.

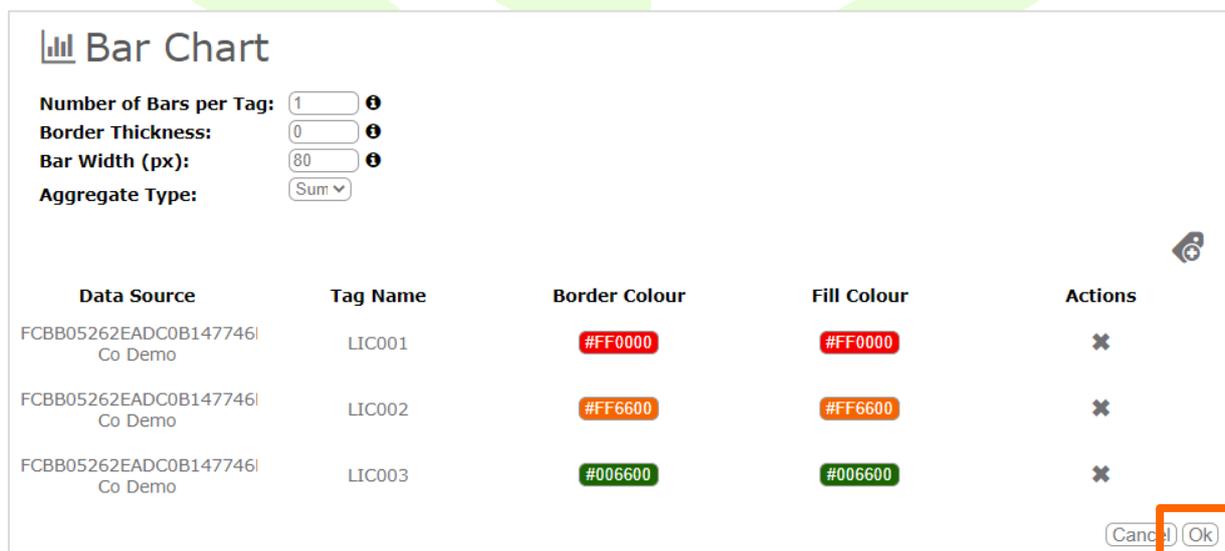


Figure 4-100 Bar Chart Pop-Up Completed

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



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.

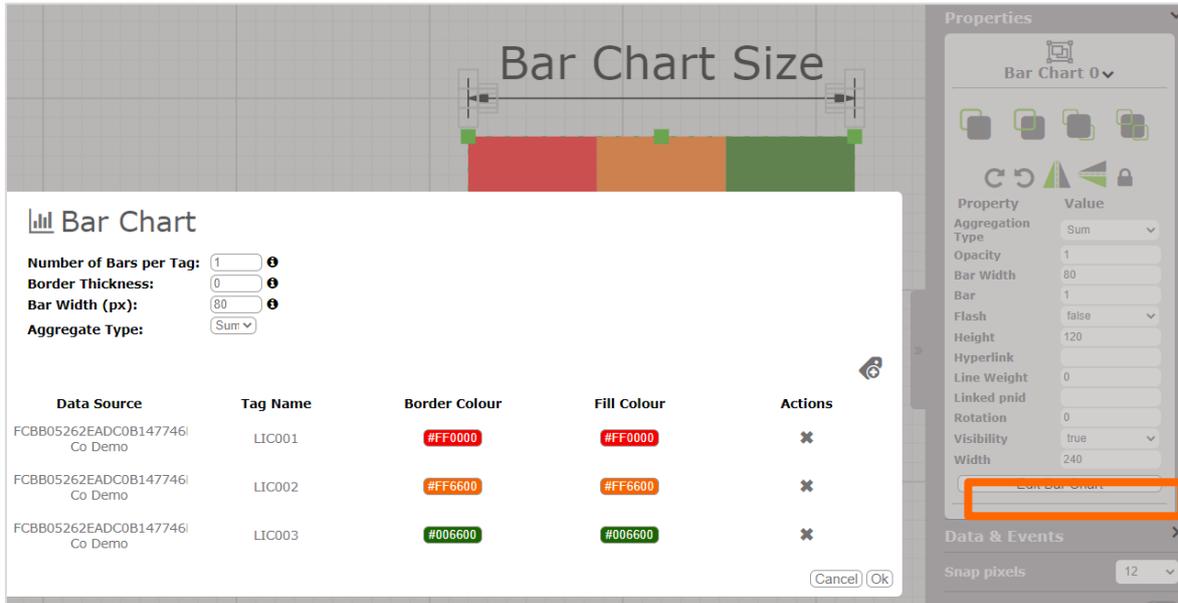


Figure 4-102 Edit Bar Chart

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.

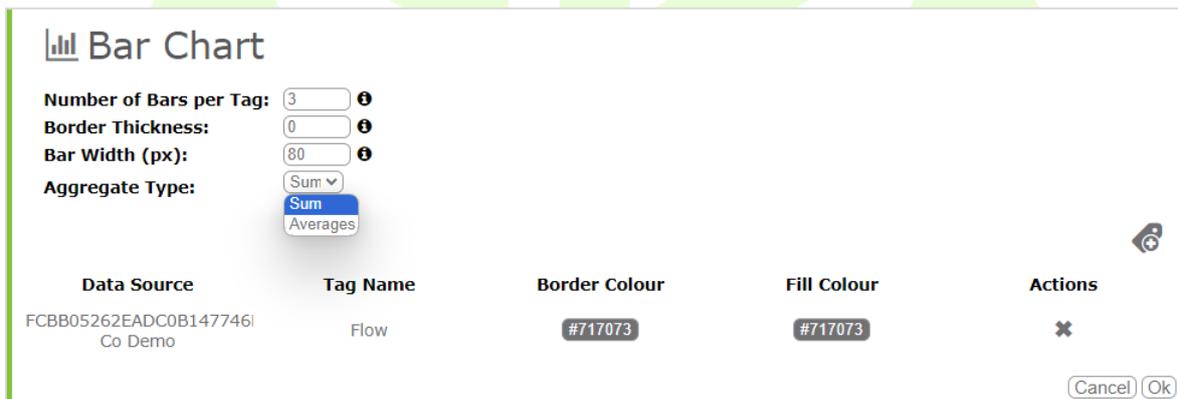


Figure 4-103 Bar Chart – Aggregate Types

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

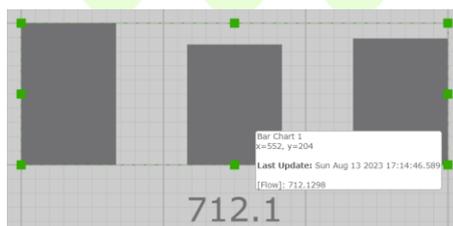


Figure 4-104 Bar Chart – One Tag with Aggregate Type - Sum

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)

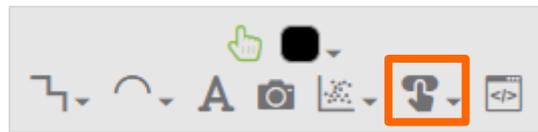


Figure 4-105 Button Icon

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

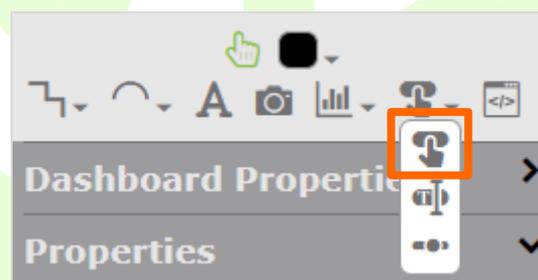


Figure 4-106 Button Option

If you've chosen the Add Button option, click once on the canvas to see your button appear. Select the button, the right-side 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.

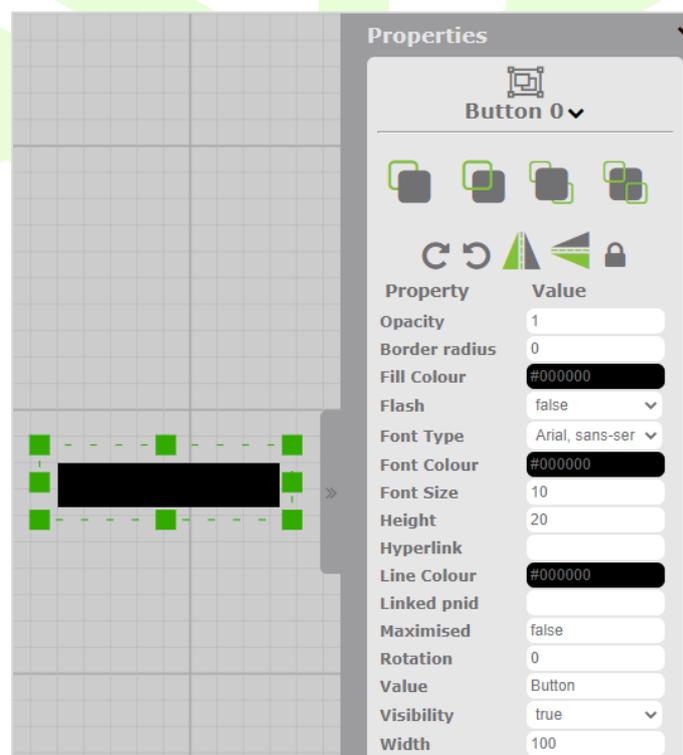


Figure 4-107 Button Properties

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

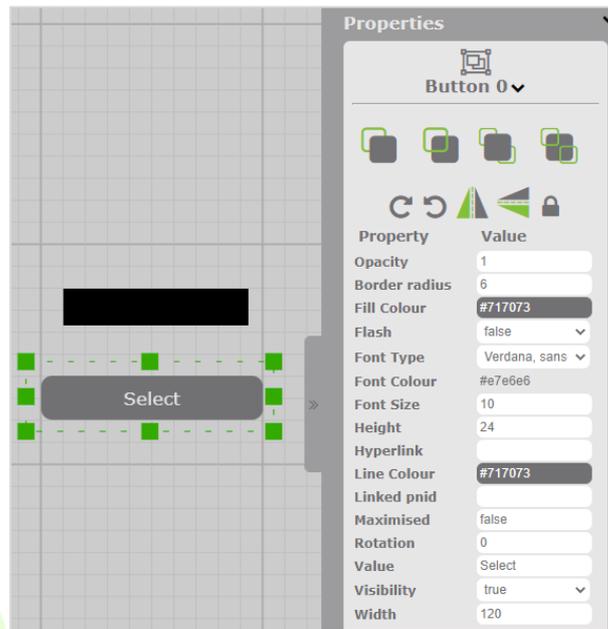


Figure 4-108 Button Properties - Updated

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



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.

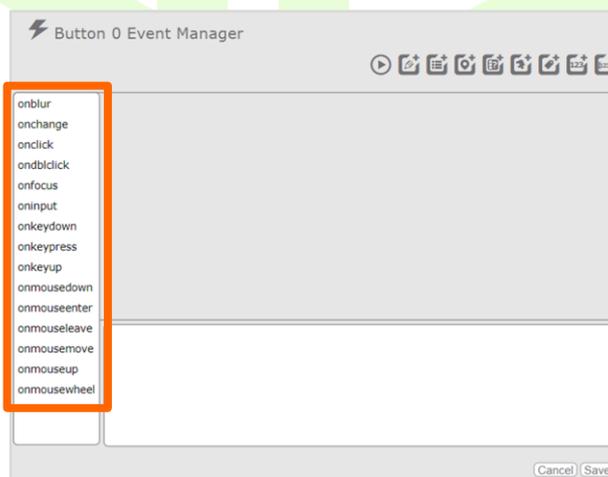


Figure 4-110 Event Manager – Event Types

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.

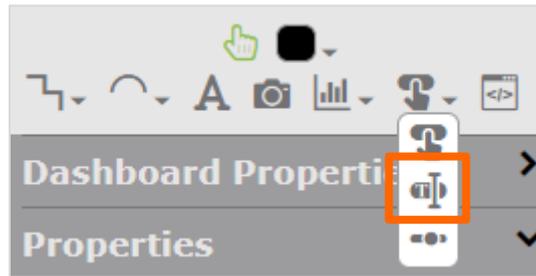


Figure 4-111 Input Control Option

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

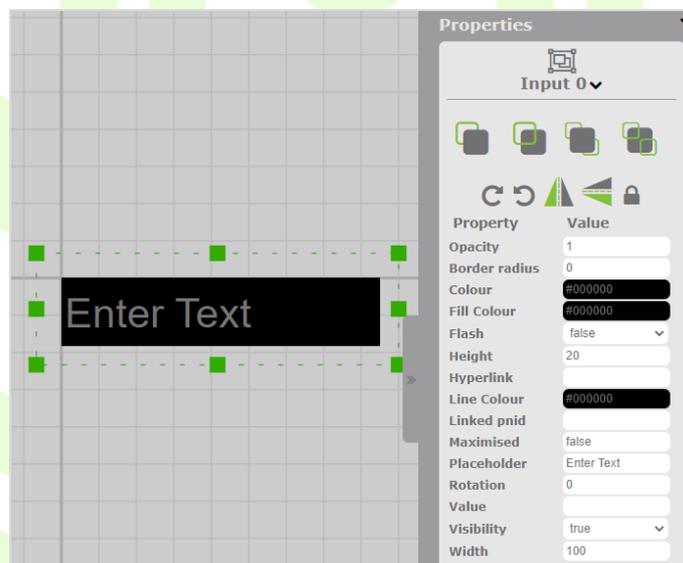


Figure 4-112 Input Control Properties

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

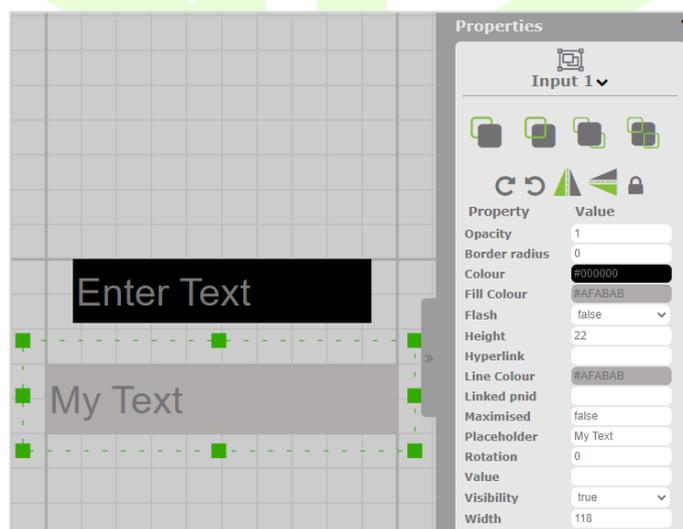


Figure 4-113 Input Control Properties - Updated

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.

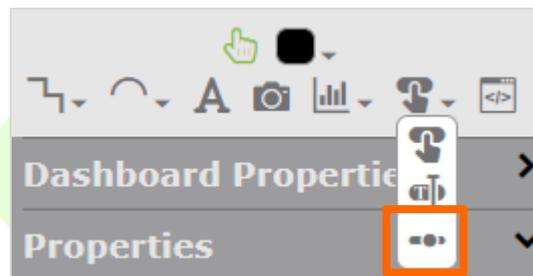


Figure 4-114 Range Control Option

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

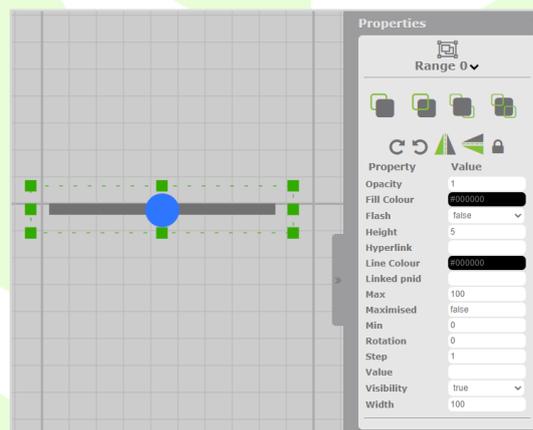


Figure 4-115 Range Control Properties

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

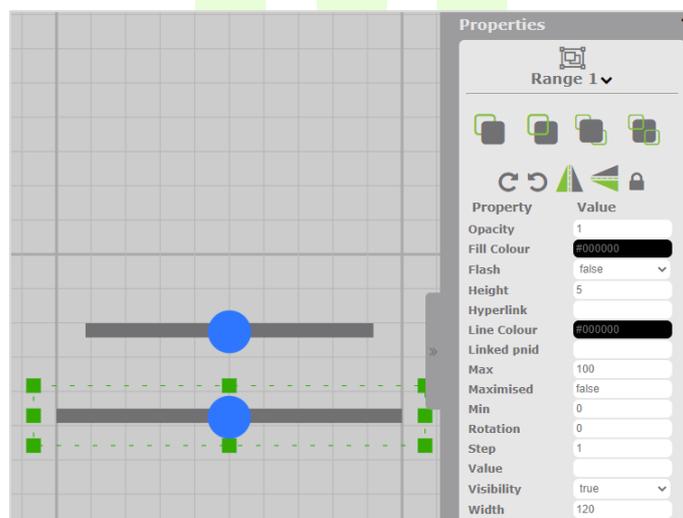


Figure 4-116 Range Control Properties - Updated

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)

4.3.1.9 Add Embedded Page

Select the Add Embedded Page icon.

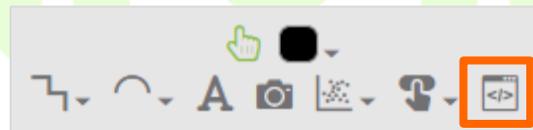


Figure 4-117 Add Embedded Page Icon

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. Select the 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/>).

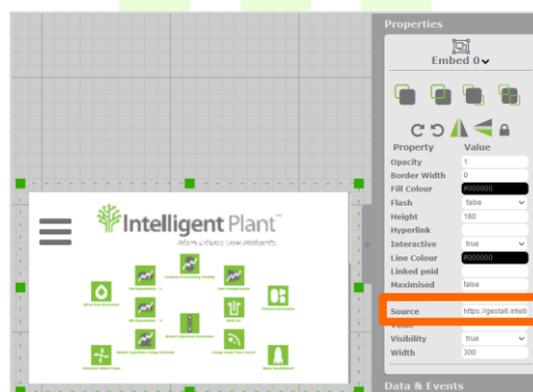


Figure 4-119 Default Embedded Page URL

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.

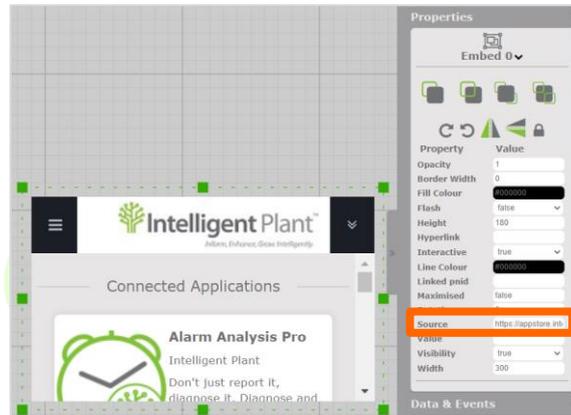


Figure 4-120 Updated Embedded Page URL

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

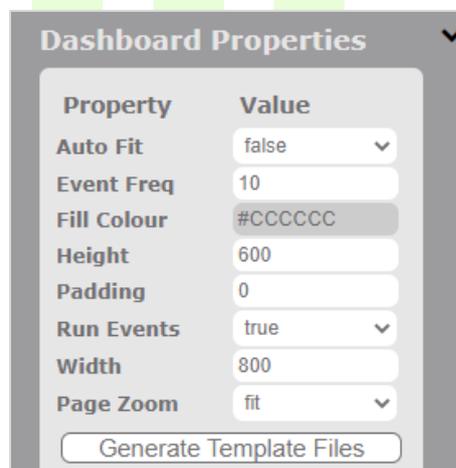


Figure 4-121 Dashboard Properties

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.

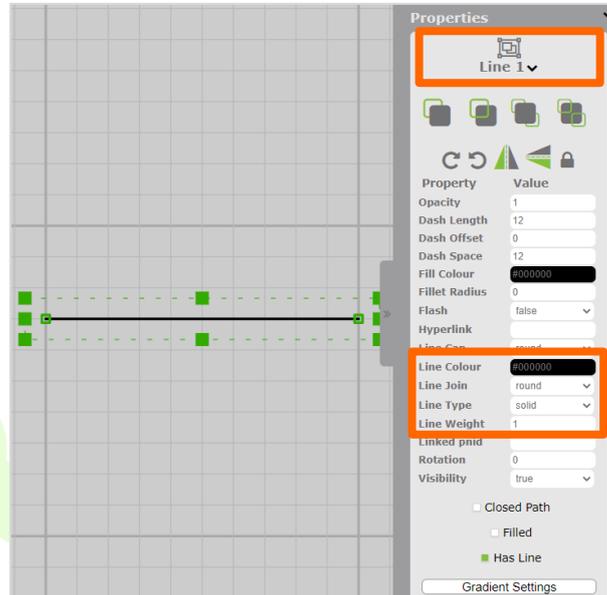


Figure 4-122 Selected Line Properties

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.

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

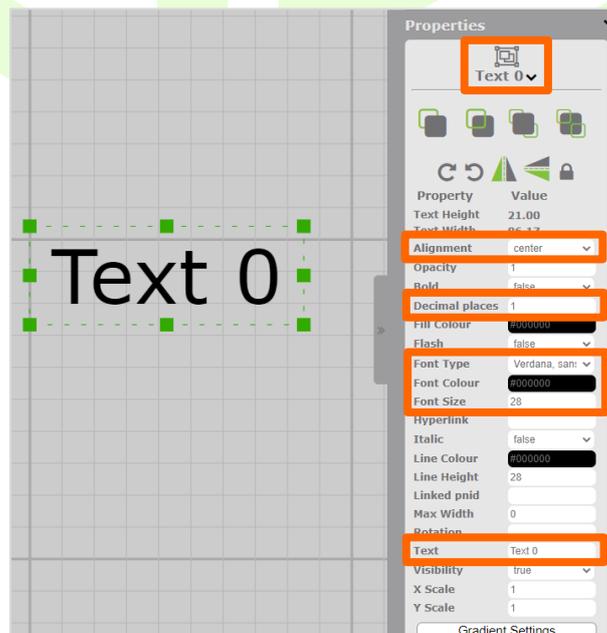


Figure 4-123 Selected Text Properties

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.



Figure 4-124 Selected Text and Line 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.

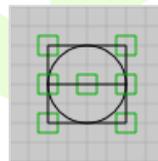


Figure 4-125 Selected Items to Group

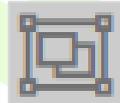


Figure 4-126 Group Icon

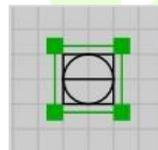


Figure 4-127 Grouped Items

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.

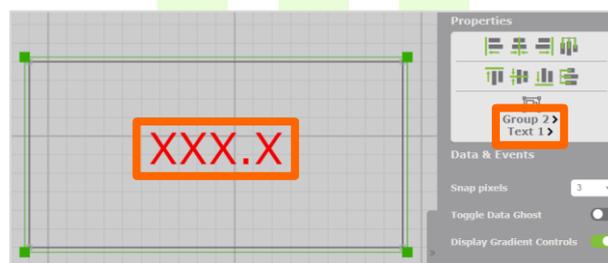


Figure 4-128 Changing Text colour within a Group - Properties

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.

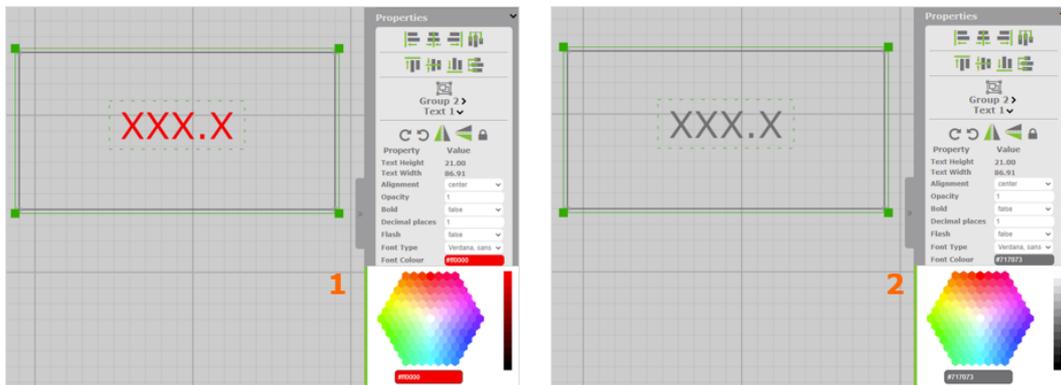


Figure 4-129 Changing Text colour

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

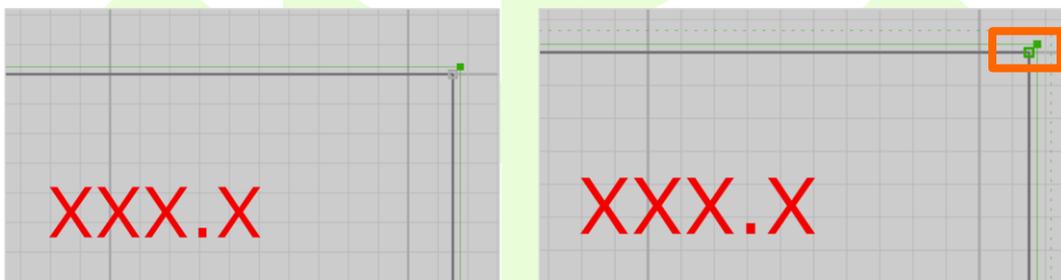


Figure 4-130 Changing Line colour

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.

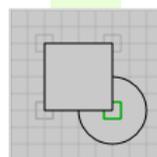


Figure 4-131 Circle – Send to Back



Figure 4-132 Bring to Front Icon

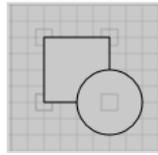


Figure 4-133 Circle Now in Front

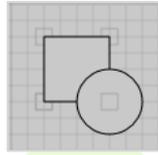


Figure 4-134 Circle Now in Front



Figure 4-135 Send to Back Icon

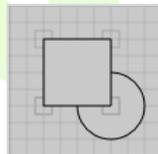


Figure 4-136 Circle Now Behind

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.

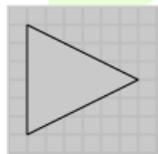


Figure 4-137 Shape – Original Position



Figure 4-138 Rotate Clockwise Icon

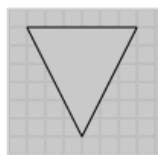


Figure 4-139 Original Shape Now Rotated Clockwise



Figure 4-140 Rotate Anti-Clockwise Icon

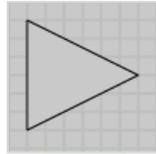


Figure 4-141 Original Shape Now Rotated Anti-Clockwise

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.

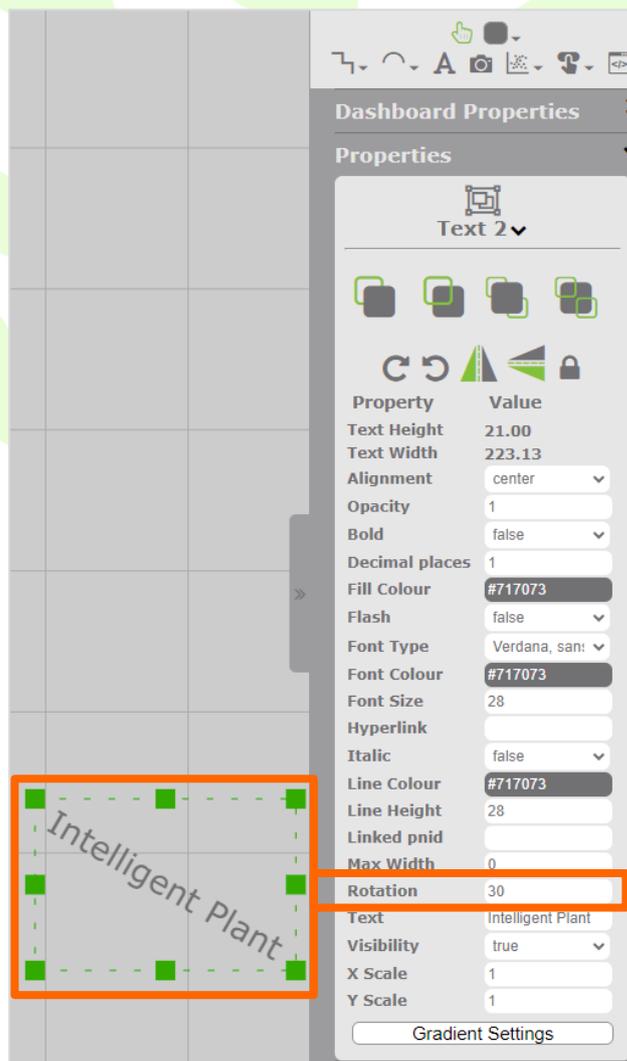


Figure 4-142 Text Rotation – Input Rotation Amount

4.3.4 Data & Events

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



Figure 4-143 Data and Events

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.

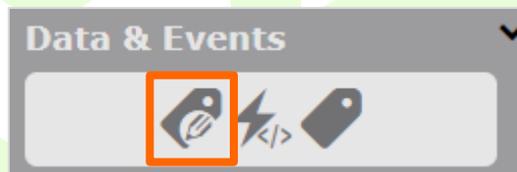


Figure 4-144 Link Data Icon

Select the Link Data icon.

Text Bindings

When the pop-up appears select the icon at the right side of the pop-up.



Figure 4-145 Text Bindings – Select Icon

Select Add Data icon.



Figure 4-146 Text Bindings – Add Data

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 4-147 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	Actions
text	Oil Co Demo (...)	LIC001	min max	0	Pre-Text Post-Text	Save 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 want any text to appear after the text binding
- If no Value Pre-Text or Post-Text is needed select the Save icon on the right-hand side, then select Close

Text 0 Bindings

Bound Property	Data Source	Tag Name	Data Range/State	Offset	Value	Actions
text	FCBB05262EADC...	LIC001	(0 - 100)	0	- %	Save 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.

Figure 4-150 Colour Bindings – Select Icon

Select the left icon at the right side of the pop-up.

Figure 4-151 Select Add Data Icon

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.

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.

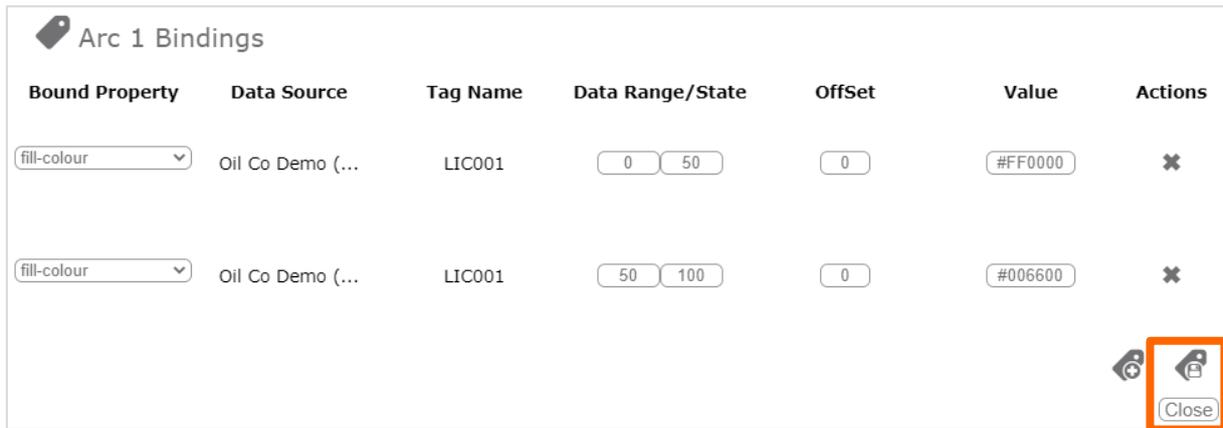


Figure 4-153 Datasource, Tag Name and Colours

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

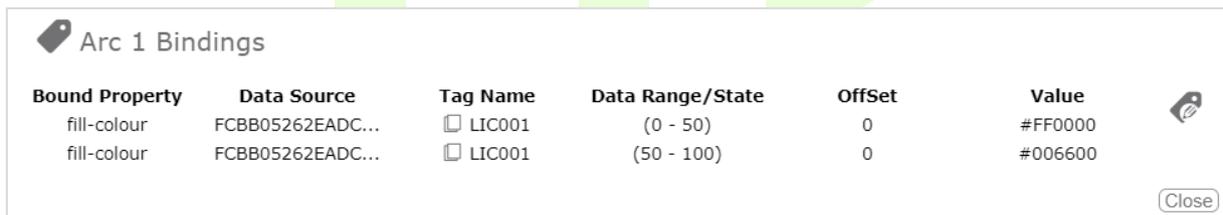


Figure 4-154 Data Bindings Complete

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.

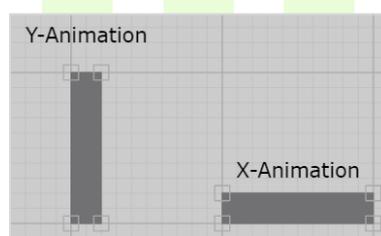


Figure 4-155 X or Y Animation

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.



Figure 4-156 X or Y Fill Animation – Select Icon

Select the left icon at the right side of the pop-up.



Figure 4-157 X or Y Fill Animation – Select Add Data Icon

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.

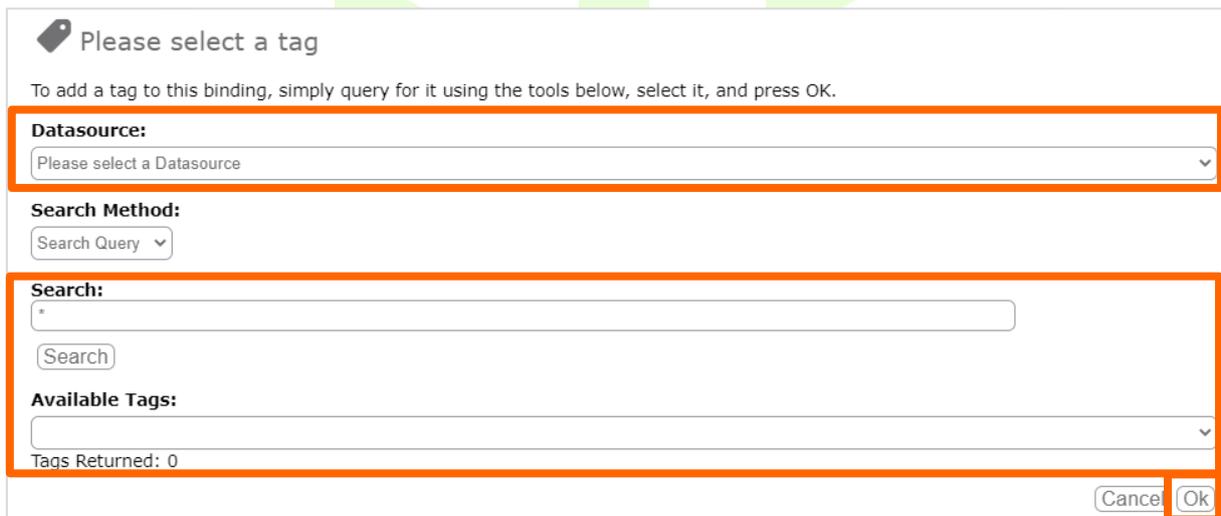


Figure 4-158 Datasource, Search and Available Tags

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.

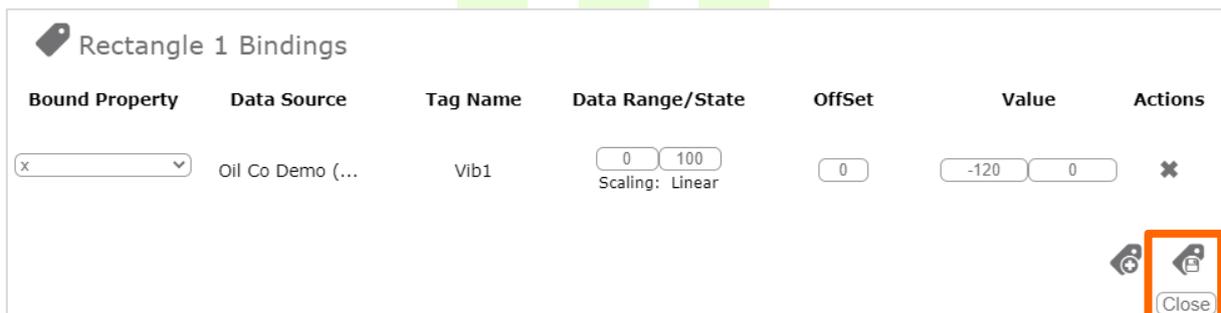


Figure 4-159 X or Y Fill Animation Bindings

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 left-side 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 x 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.

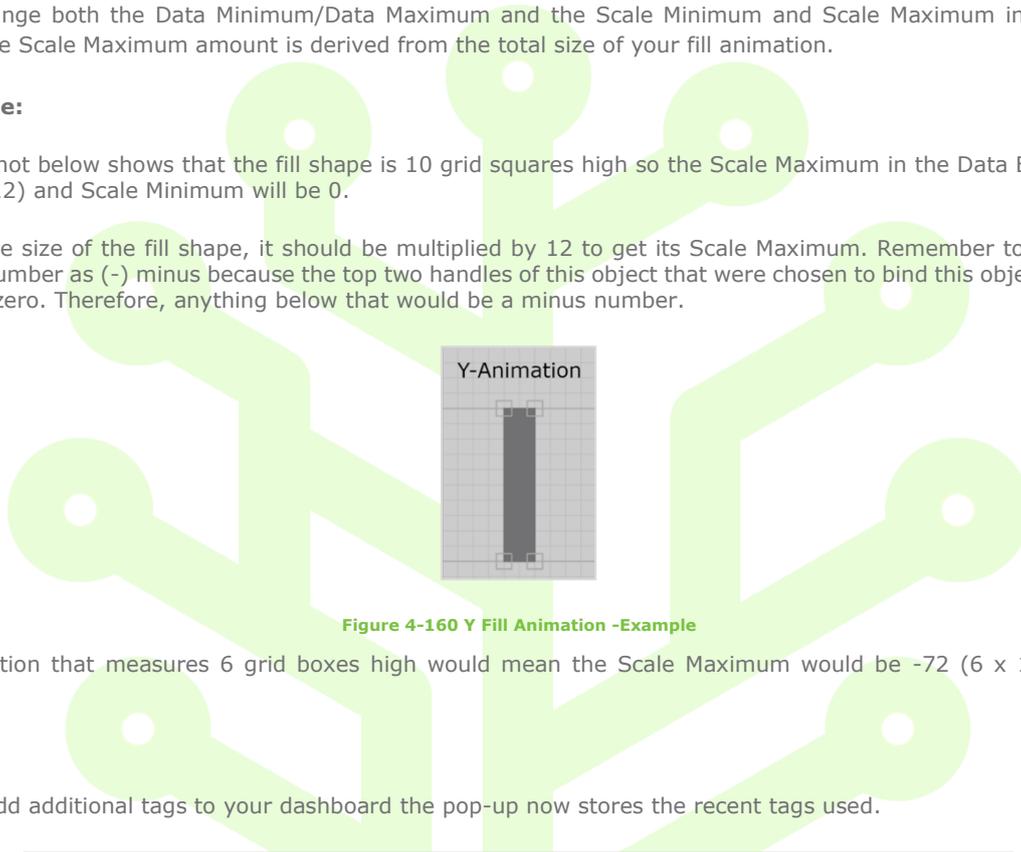


Figure 4-160 Y Fill Animation -Example

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 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
- LIC002
- LIC001

Cancel OK

Figure 4-161 Storing Recent Tags

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.

4.3.5.1 Event Types

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

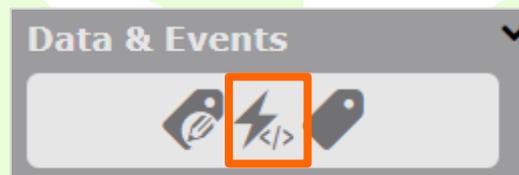


Figure 4-162 Manage Events Icon

(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.

Global Events	
Event Type	Trigger
onValueUpdate	When new value is pushed to the dashboard
OnTimer	On a set interval which can be configured by the PnID property event frequency

Figure 4-163 Global Events Table

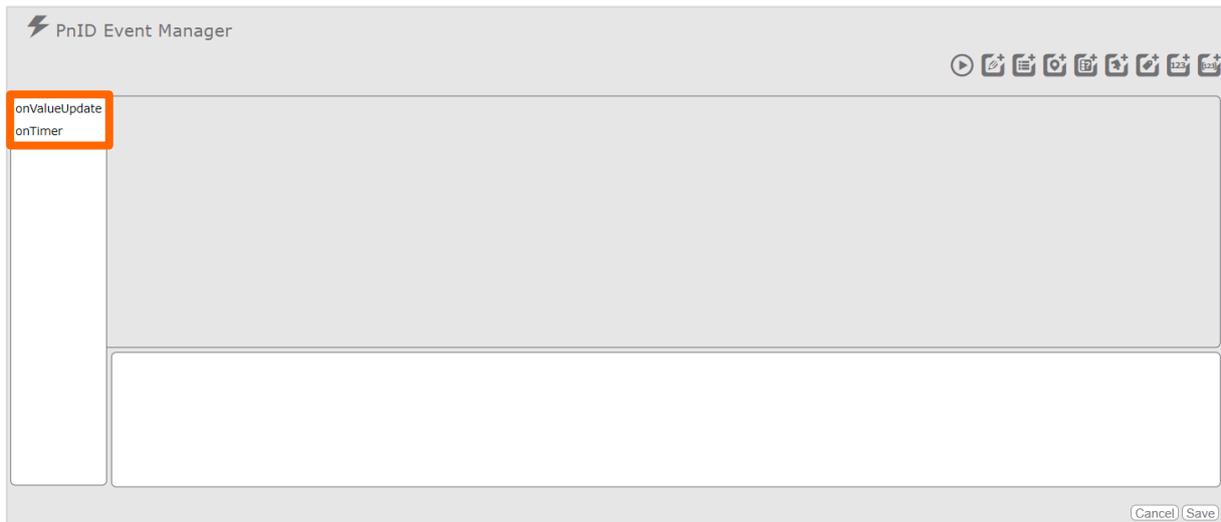


Figure 4-164 Event Manager – Pop-Up

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

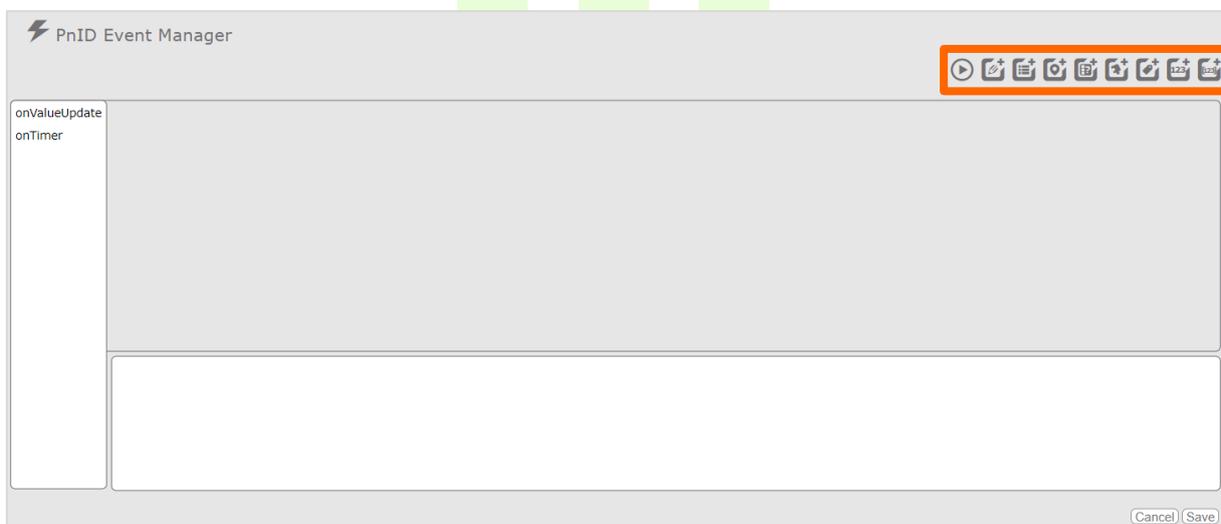


Figure 4-165 Event Manager – Component Tool Bar

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.

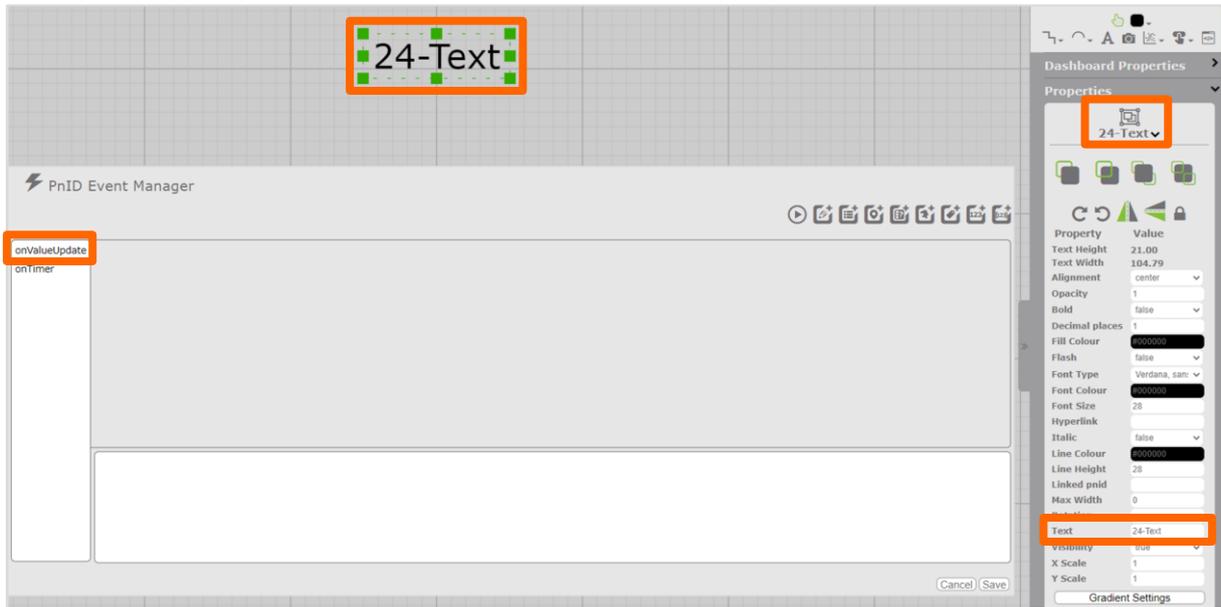


Figure 4-166 Event Manager – onValueUpdate - Text

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

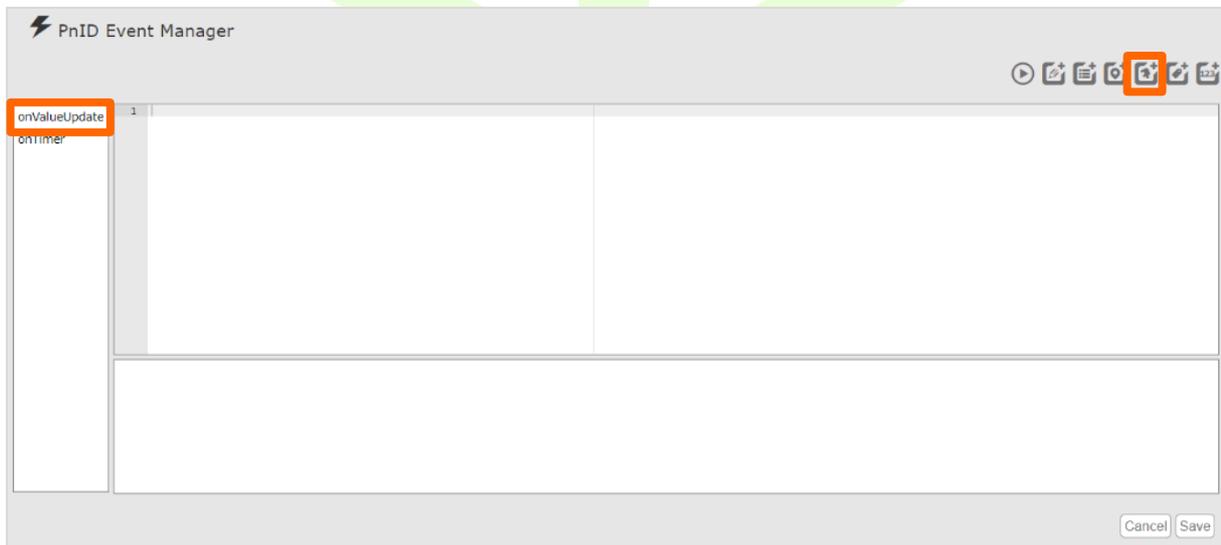


Figure 4-167 Event Manager – onValueUpdate – Add New Component Reference

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.

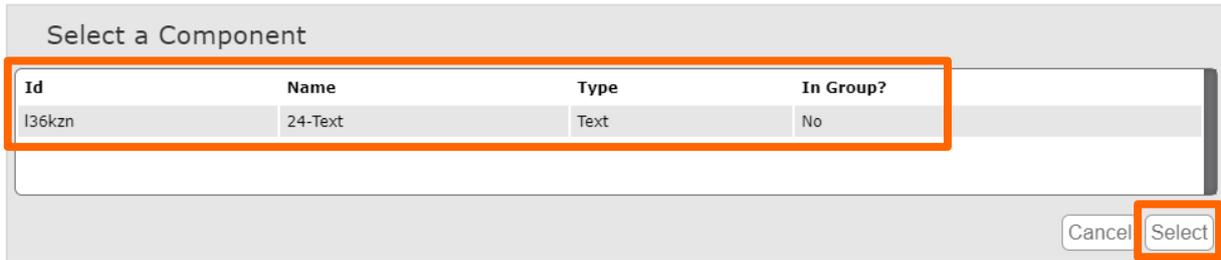


Figure 4-168 Event Manager – onValueUpdate – Select Component Pop-Up

On choosing the Select button the pop-up will close, and Add Button.

Select the Add Button icon.

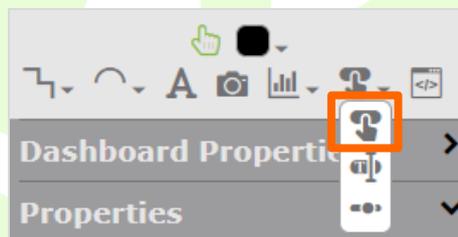


Figure 4-169 Add Button Icon

Click once on the canvas to see your button appear.



Figure 4-170 Button

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



Figure 4-171 Button Selected

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:

Component 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.



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.

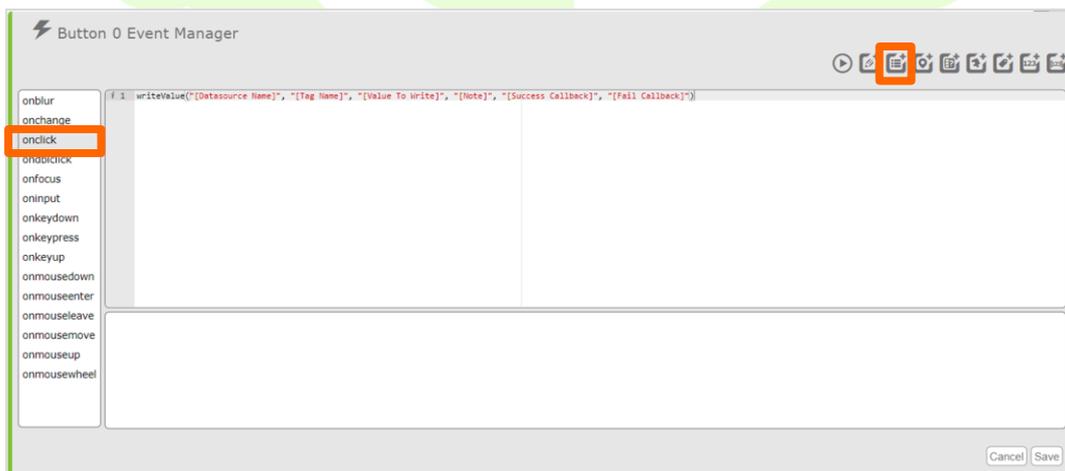


Figure 4-175 Event Manager – onclick – Add a New Property Change Action

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.

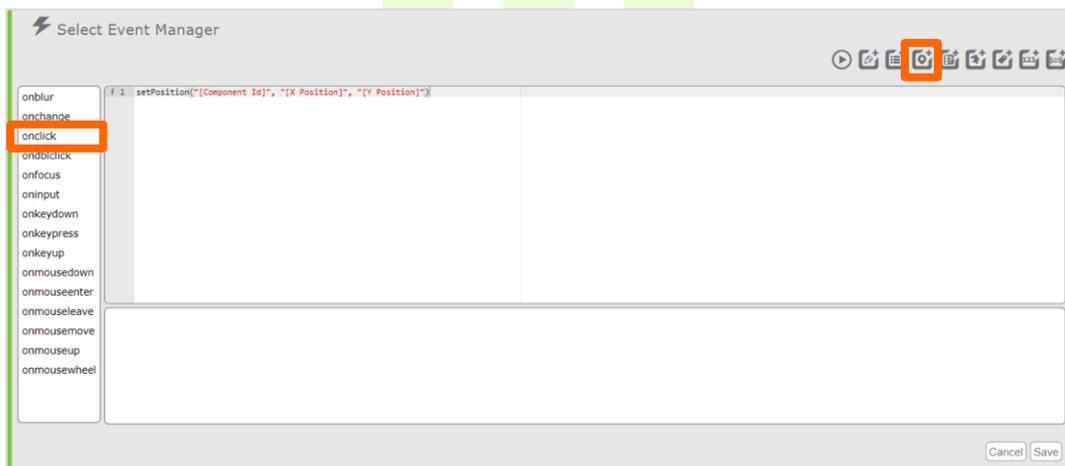


Figure 4-176 Event Manager – Add a New Set Position Action

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.

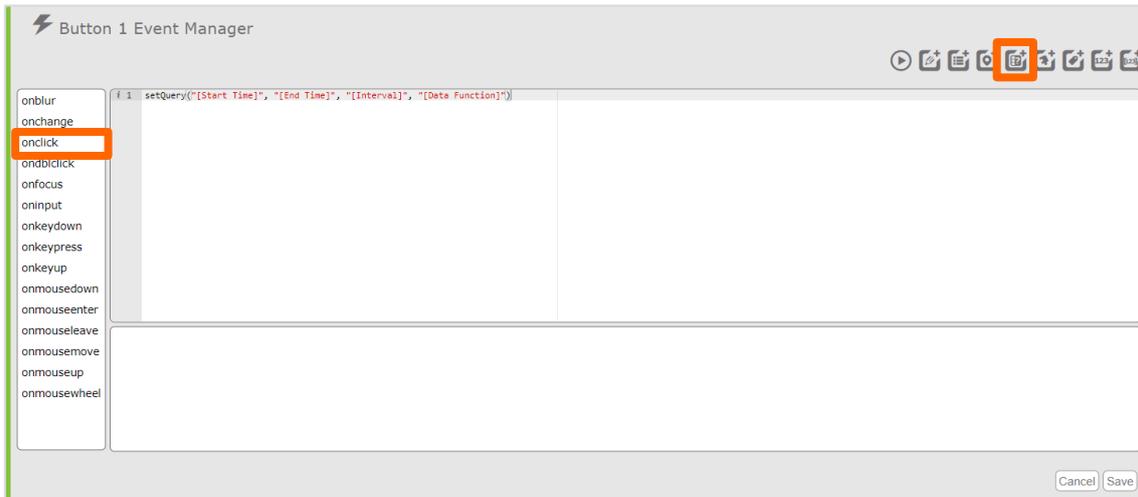


Figure 4-177 Event Manager –Add a New Set Query Action

4.3.5.2 Add Button

In the right-side panel

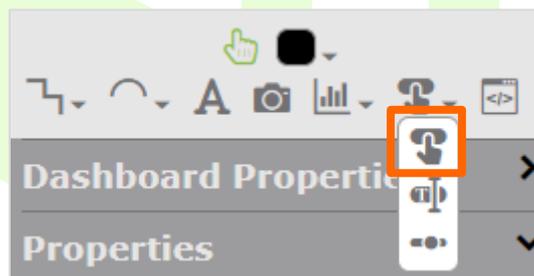


Figure 4-178 Add Button

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

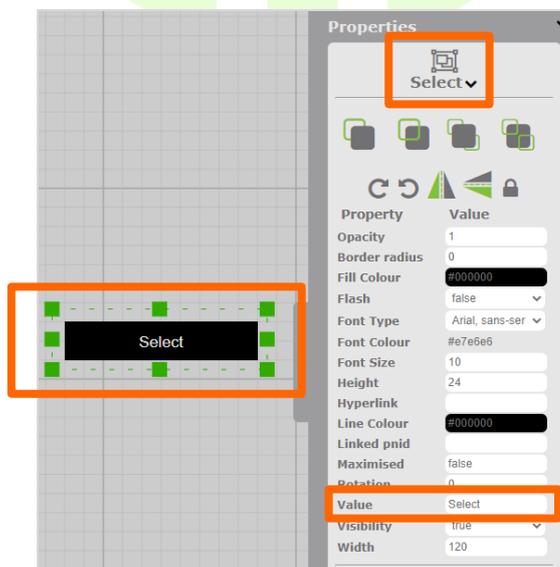


Figure 4-179 Button Event – Rename Button

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



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

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

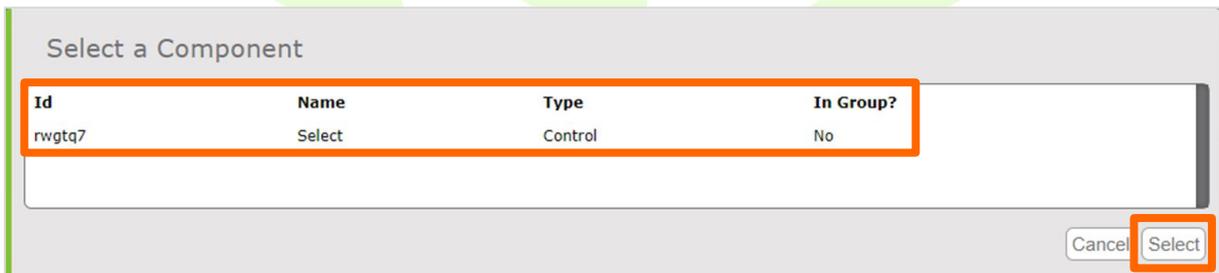


Figure 4-181 Event Manager – Add a New Component Reference Pop-Up

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.

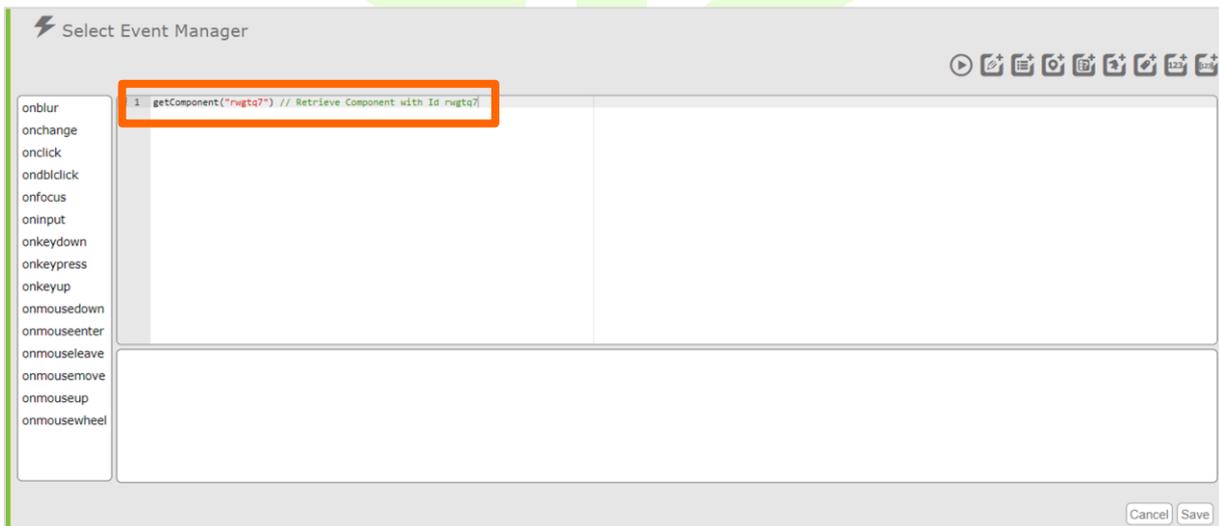


Figure 4-182 Event Manager – Get Component Reference

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



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.

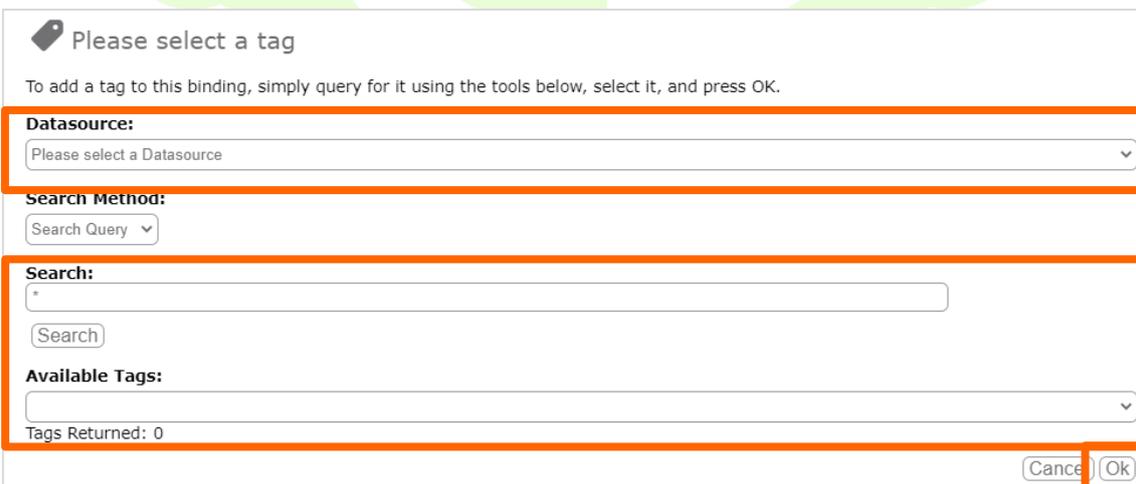


Figure 4-184 Datasource, Search and Available Tags

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

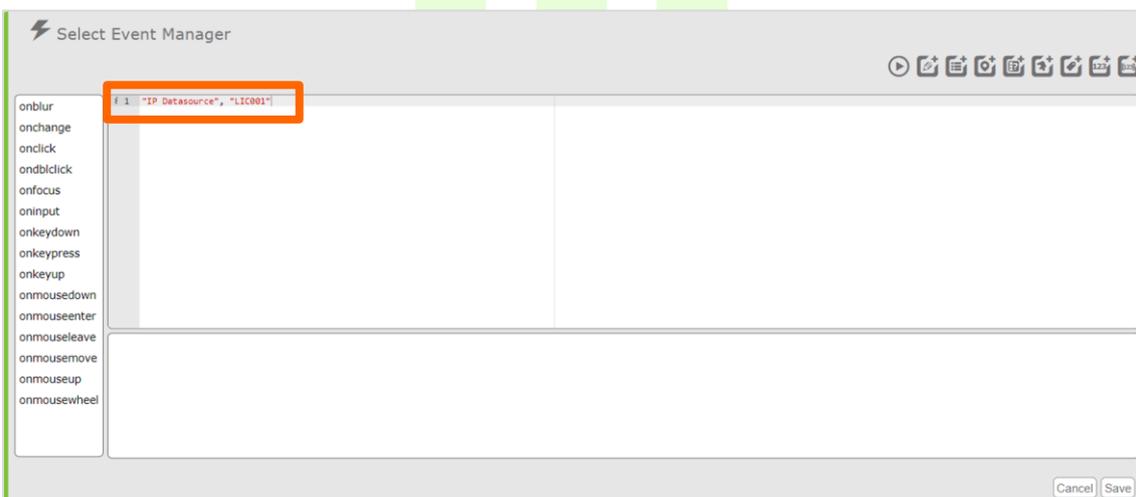


Figure 4-185 Event Manager – Datasource and Tag Name

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.

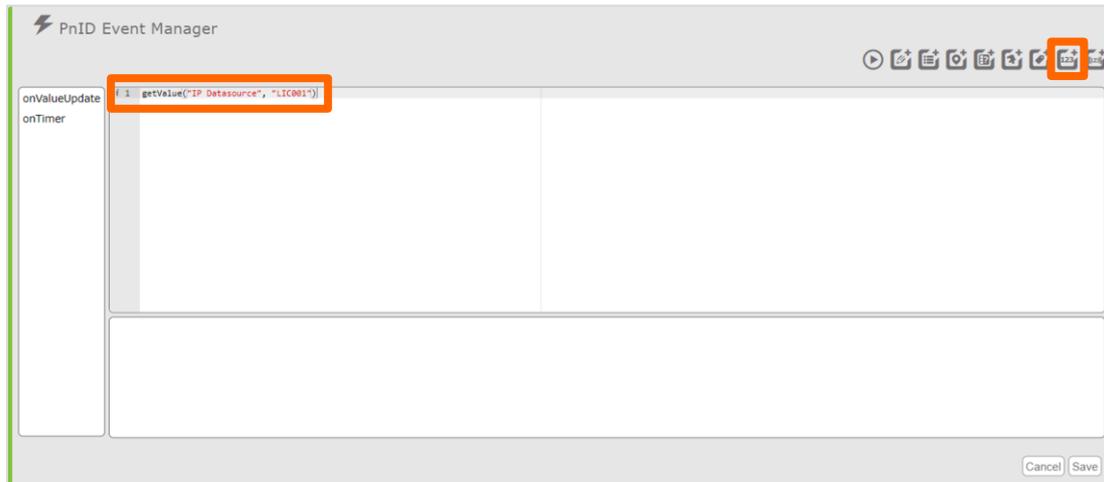


Figure 4-186 Event Manager – Add a New Get Tag Value Reference

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 drop-down list, then select ok.

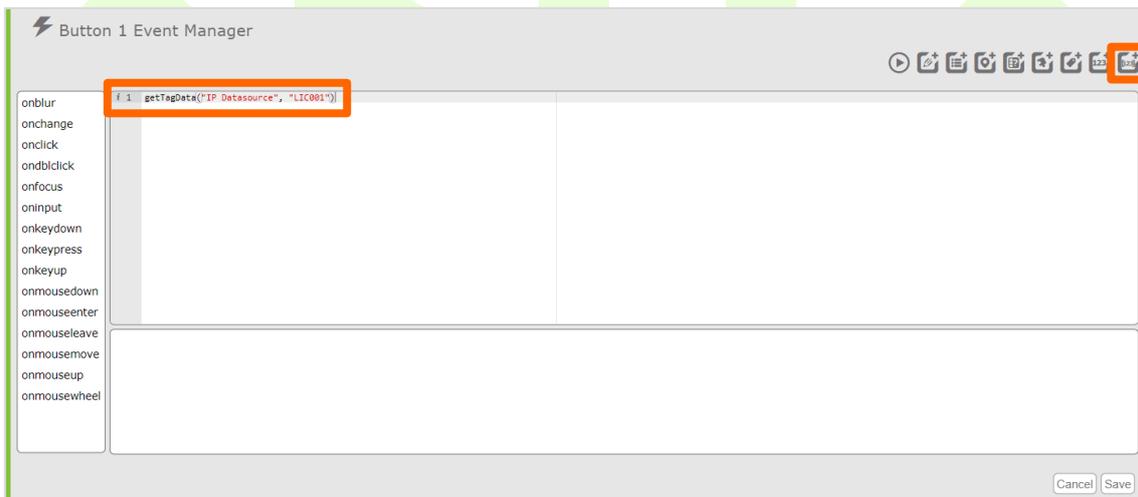


Figure 4-187 Event Manager – Add a New Get Tag Data Reference

4.3.5.3 Add Input Control

Select the Add Input Control icon.

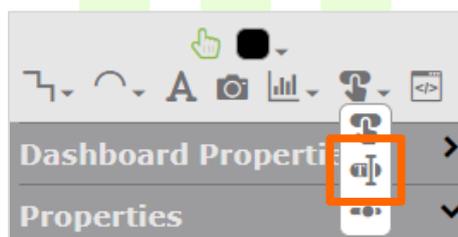


Figure 4-188 Add Input Control

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



Figure 4-189 Input Control Box

To add any event, follow same steps as stated previously.

4.3.5.4 Add Range Control

Select the Add Range Control icon.

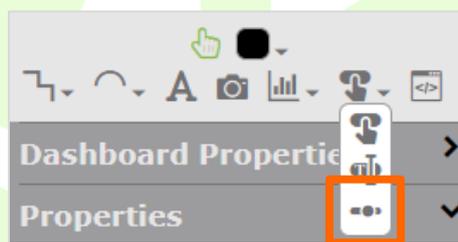


Figure 4-190 Add Range Control Icon

Click once on the canvas to see the range control slider appear.



Figure 4-191 Range Control

To add any event, follow same steps as stated previously.

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.

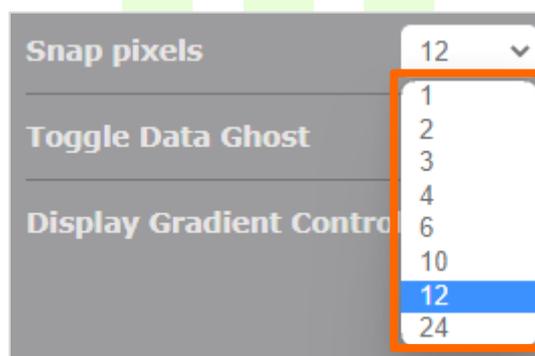


Figure 4-192 Snap Pixels Options

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.

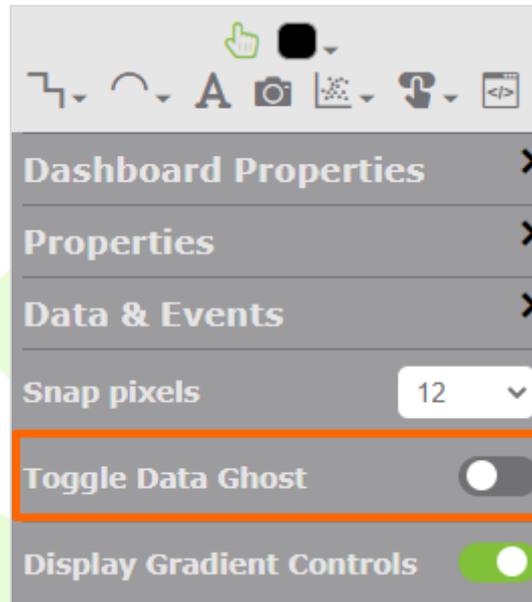


Figure 4-193 Toggle Data Ghost

4.3.8 Gradient Settings

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.

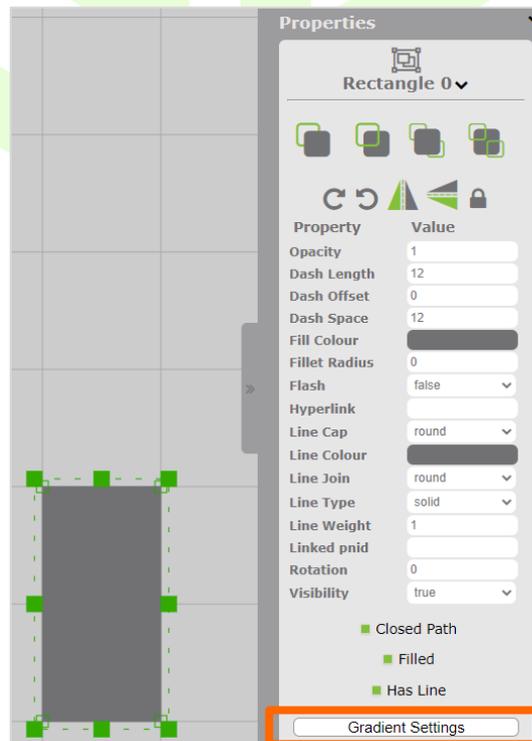


Figure 4-194 Gradient Settings

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

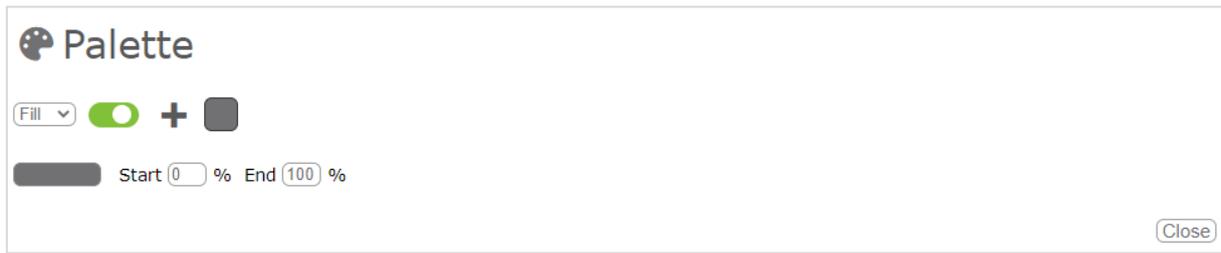


Figure 4-195 Gradient Settings – Pop-Up

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.

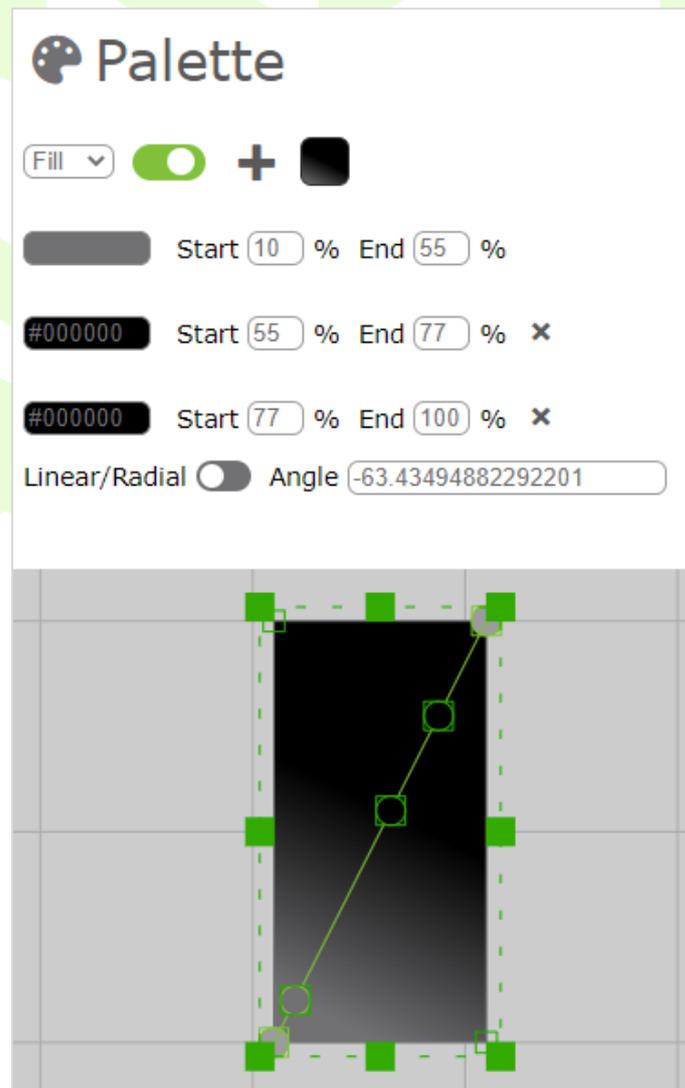


Figure 4-196 Gradient Palette – Add More Rows

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

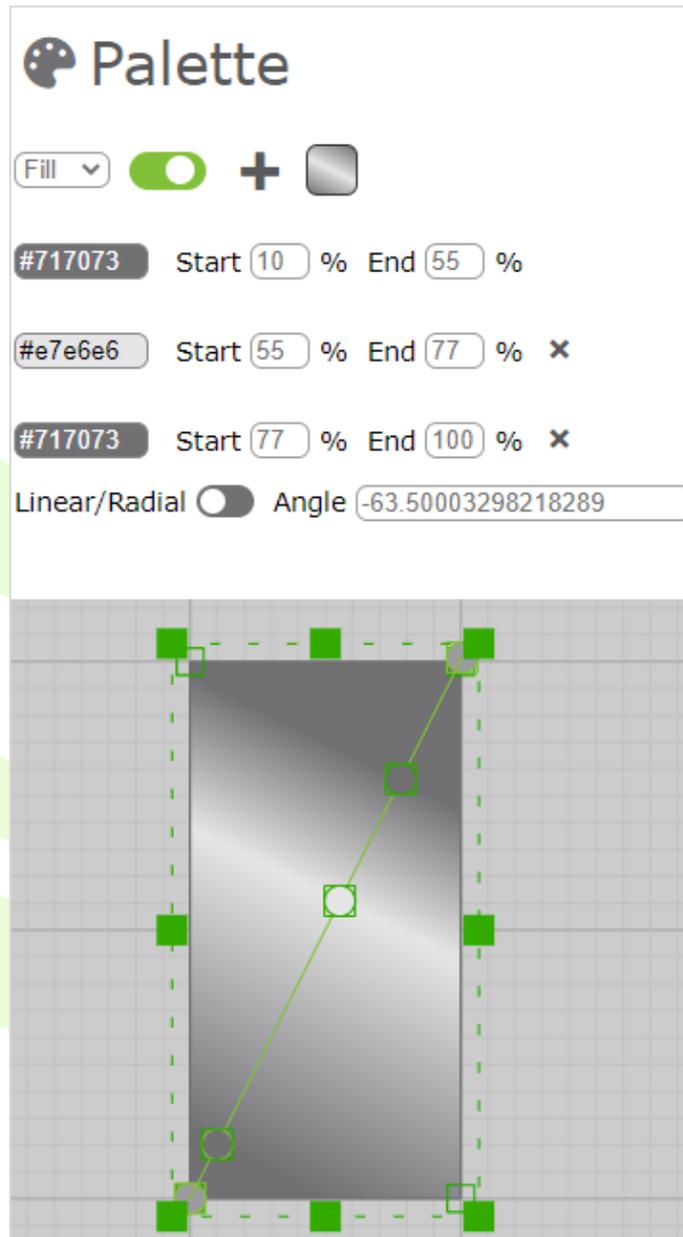


Figure 4-197 Gradient Palette – Change Colours

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.

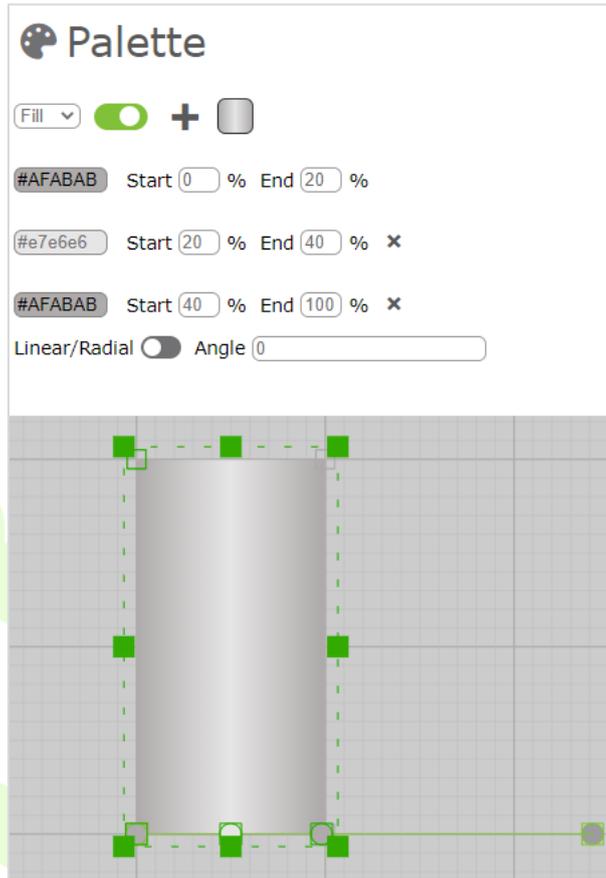


Figure 4-198 Vertical Rectangle Gradient

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.

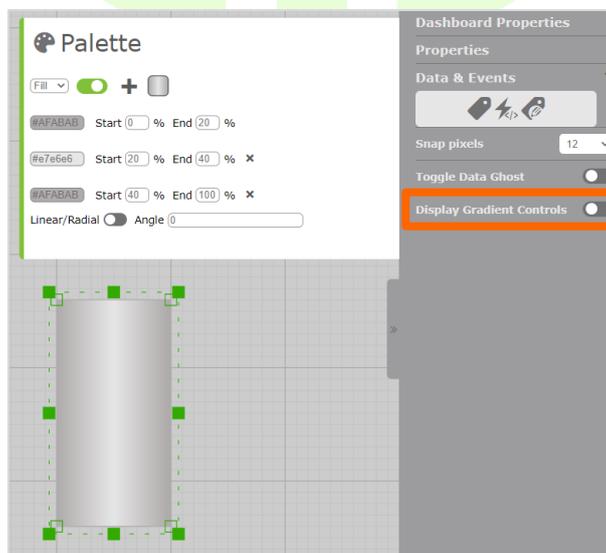


Figure 4-199 Gradient Controls Off

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.



Figure 5-1 Keyboard Shortcut – View or Remove the Grid on the Canvas

5.1.2 Left-Side Panel – Open/Close

To open or close the left-side panel select M on your keyboard.



Figure 5-2 Keyboard Shortcut – Open or Close the Left-Side Panel

5.1.3 Copy

In Edit Mode select Ctrl+C.



Figure 5-3 Keyboard Shortcut – Ctrl+C – Copy

5.1.4 Paste

In Edit Mode select Ctrl+V.



Figure 5-4 Keyboard Shortcut – Ctrl+V – Paste

5.1.5 Undo

In Edit Mode select Ctrl+Z. You can undo multiple times.



Figure 5-5 Keyboard Shortcut – Ctrl+Z – Undo

5.1.6 Redo

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



Figure 5-6 Keyboard Shortcut – Ctrl+Y – Redo

5.1.7 Save

In Edit Mode select Ctrl+S.



Figure 5-7 Keyboard Shortcut – Ctrl+S – Save

5.2 Right-Side Panel

The following shortcuts are for some options in the drawing toolbar.

5.2.1 Polyline

In Edit Mode select L.



Figure 5-8 Keyboard Shortcut – L - Polyline

5.2.2 Rectangle

In Edit Mode select R.



Figure 5-9 Keyboard Shortcut – R - Rectangle

5.2.3 Arc

In Edit Mode select A.



Figure 5-10 Keyboard Shortcut – A – Arc

5.2.4 Circle

In Edit Mode select C.



Figure 5-11 Keyboard Shortcut – C – Circle

5.2.5 Text

In Edit Mode select T.



Figure 5-12 Keyboard Shortcut – T – Text

5.3 Left-Side Panel

5.3.1 Run Mode

In Edit Mode select Ctrl+R.



Figure 5-13 Keyboard Shortcut – Ctrl+R – Run Mode

5.3.2 Edit Mode

To get from Run Mode to Edit Mode select Ctrl+E.



Figure 5-14 Keyboard Shortcut – Ctrl+E – Edit Mode

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.

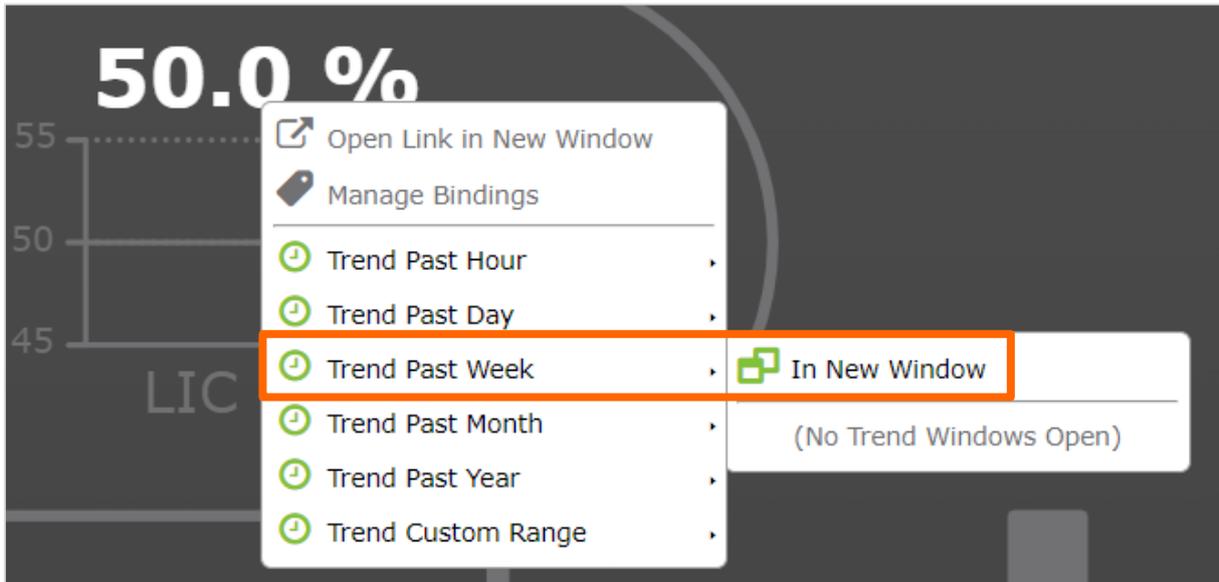


Figure 6-1 Trend a Tag in PnID

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

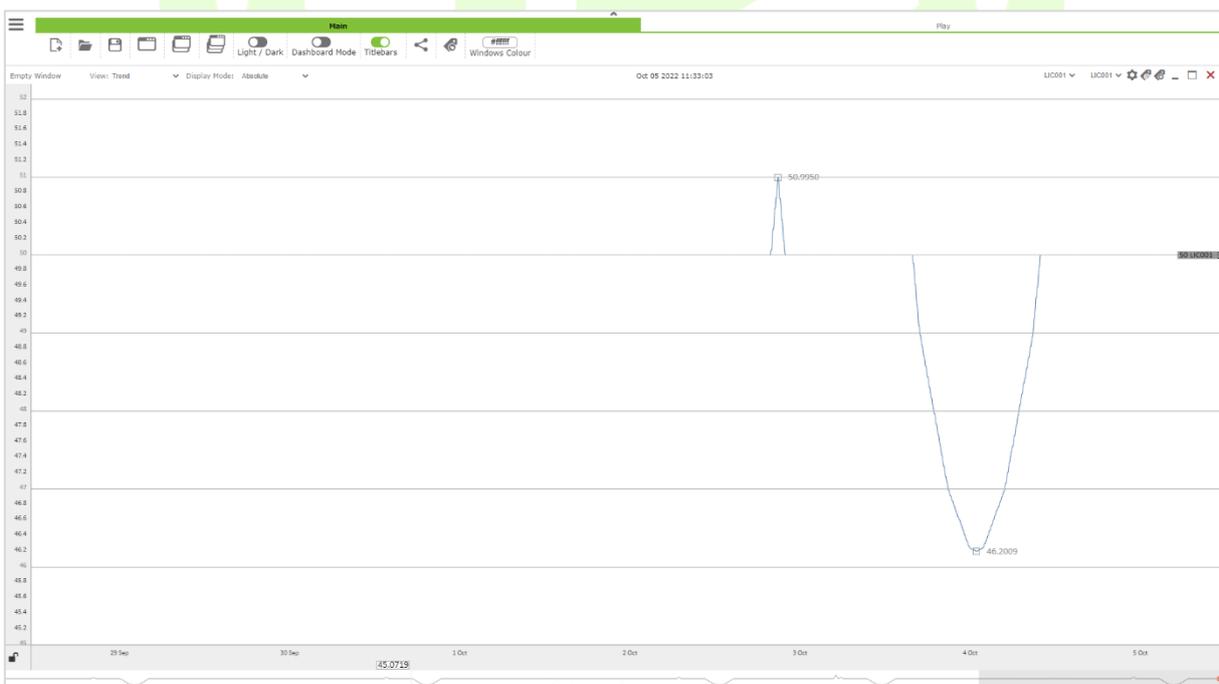


Figure 6-2 View Tag in Trend

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.

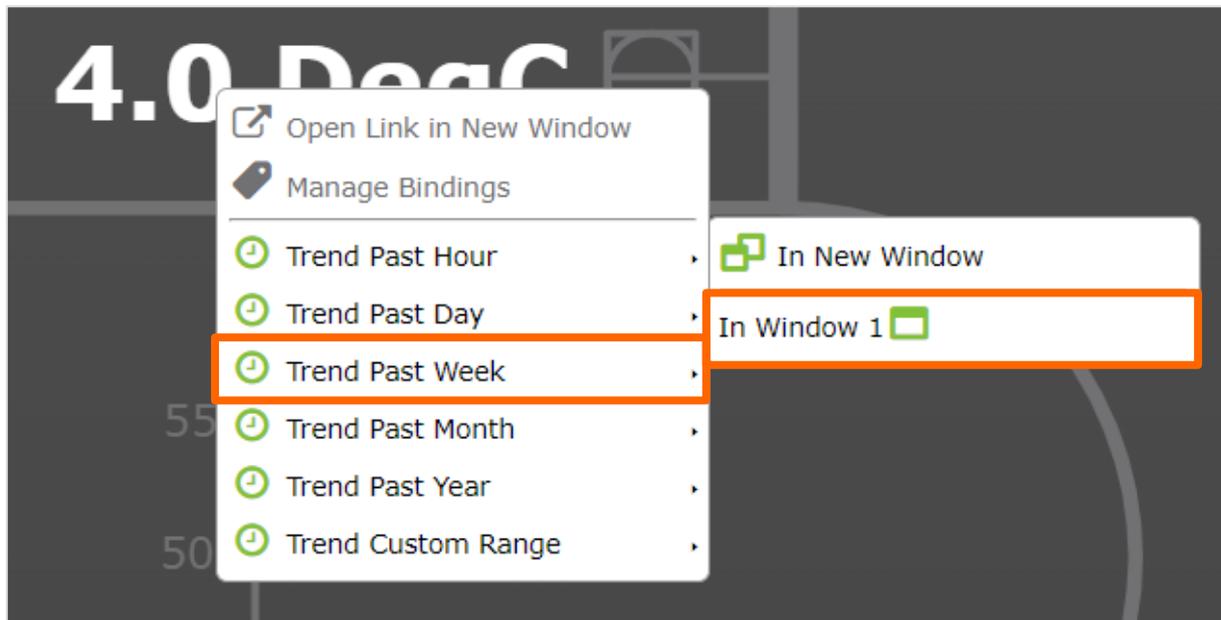


Figure 6-3 Adding New Tag to Same Trend View

The new tag has been included in your trend.

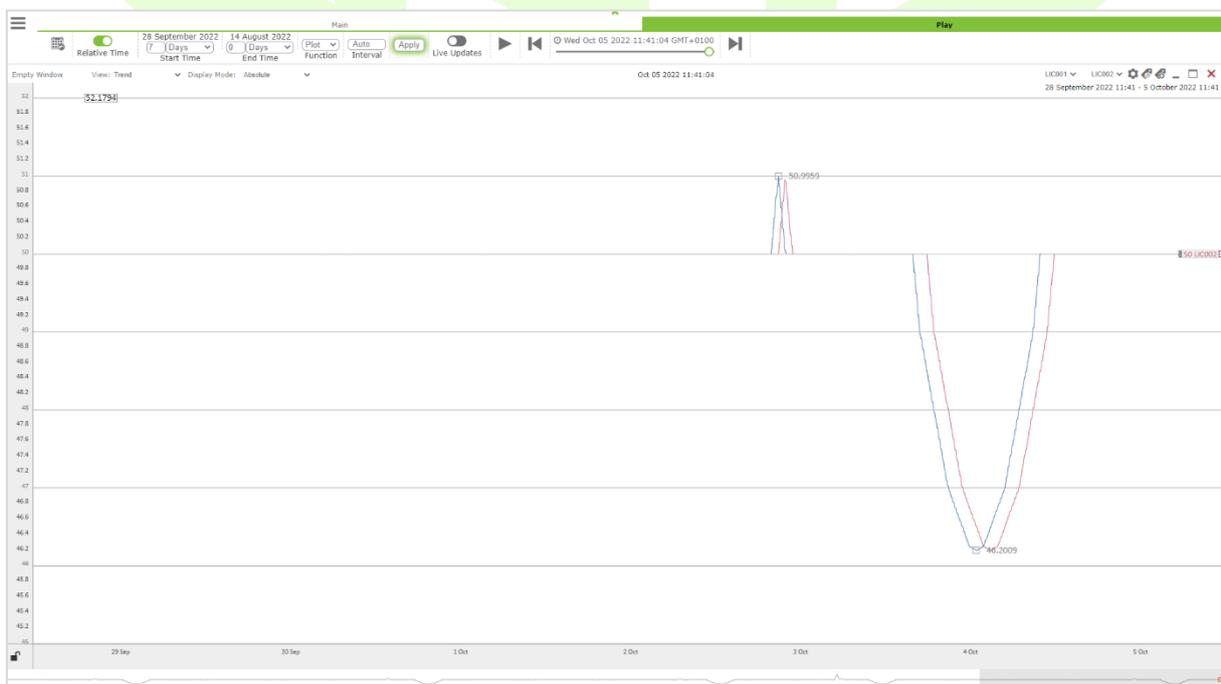


Figure 6-4 View Additional Tag in Same Trend

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

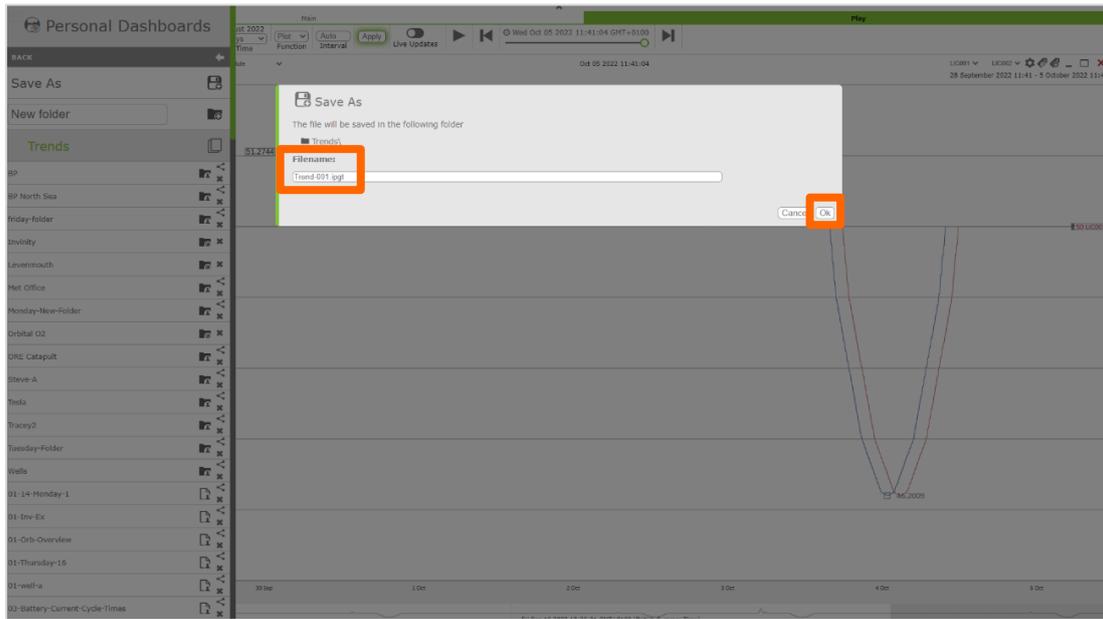


Figure 6-5 Save Trend

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



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.

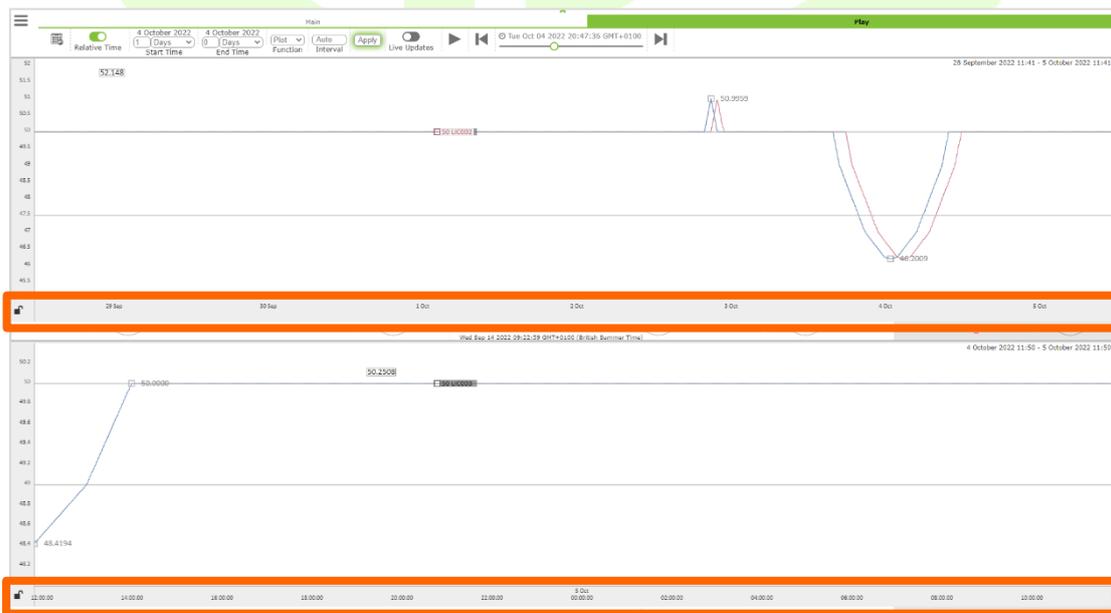


Figure 6-7 Trends Showing Two Time Periods

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™ – Tips and Tricks (Ctrl+Click).

7.1 Oil & Gas

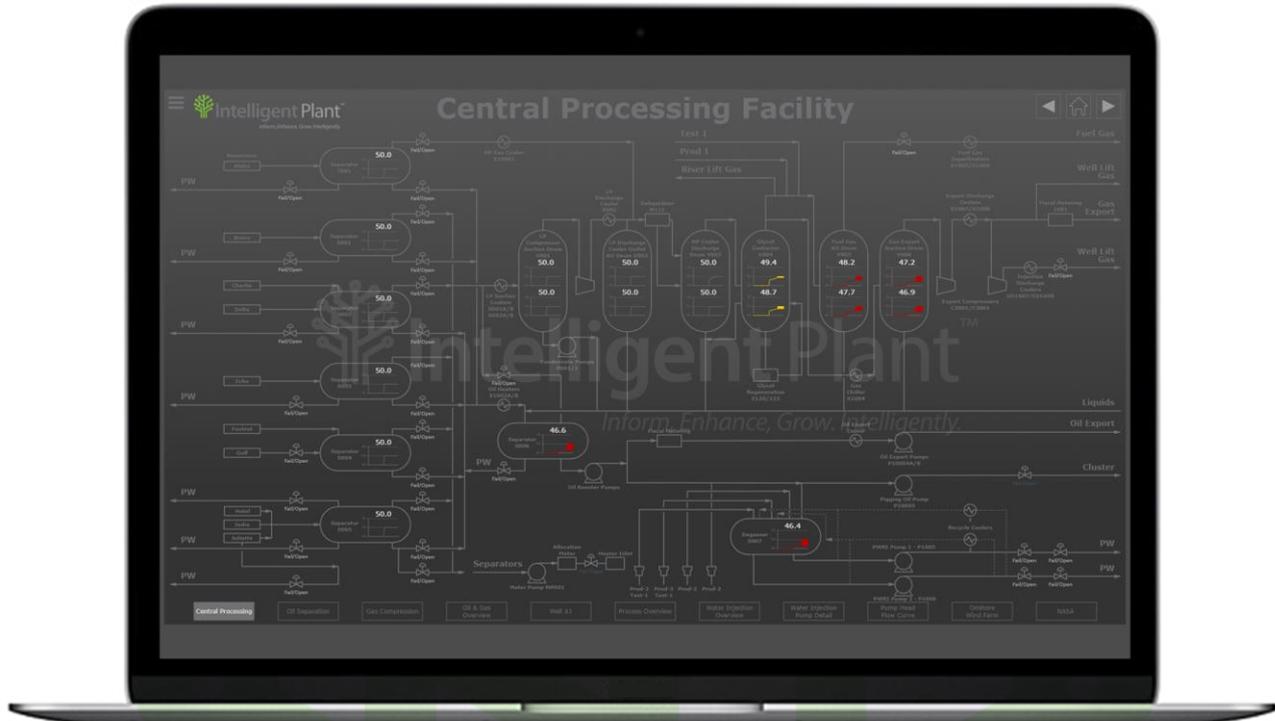


Figure 7-1 Oil & Gas – Central Processing Facility

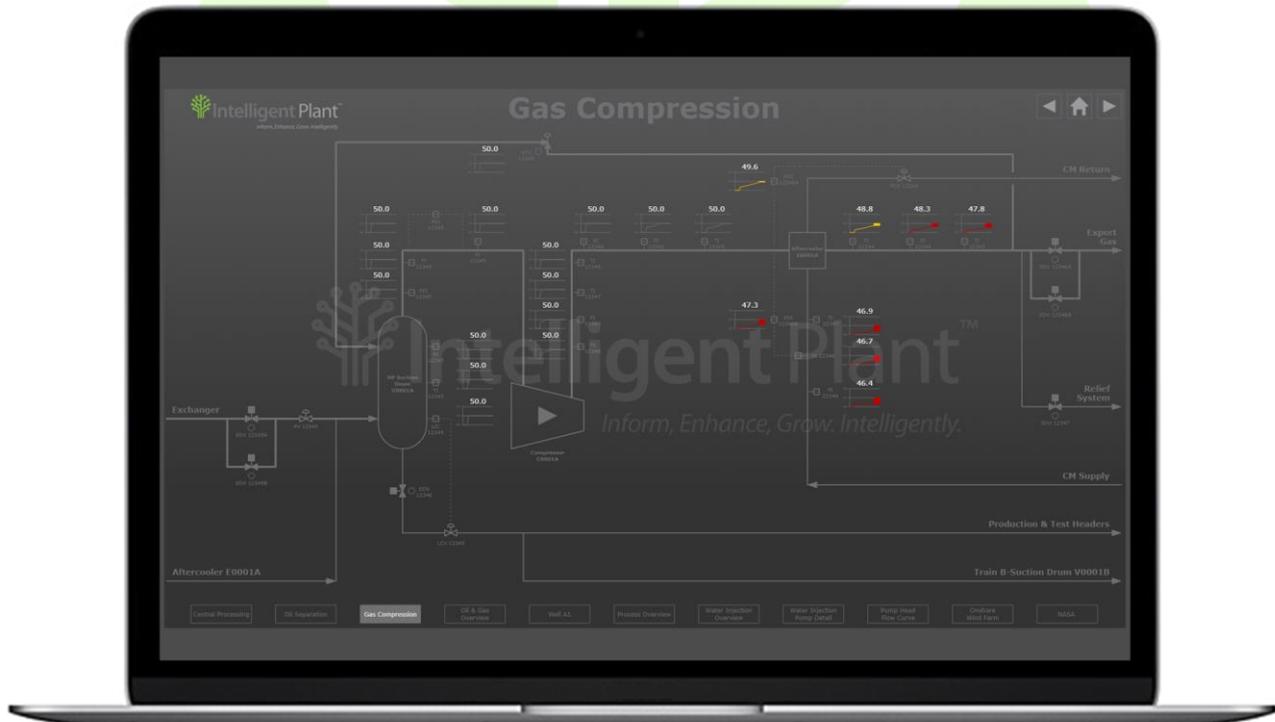


Figure 7-2 Oil & Gas – Gas Compression

7.2 Renewables



Figure 7-3 Renewables – Onshore Wind Farm

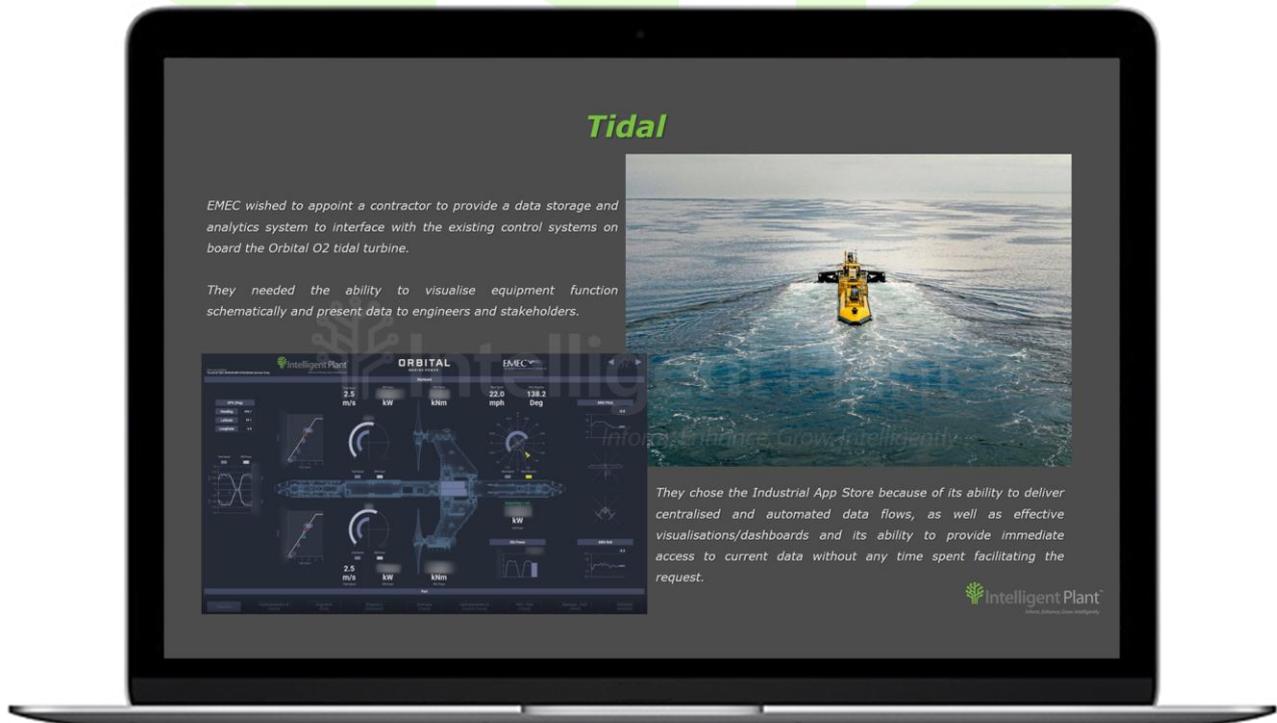


Figure 7-4 Renewables – Tidal Turbine

7.3 Space Industry



Figure 7-5 Space Industry – NASA Dashboard

7.4 Building Management

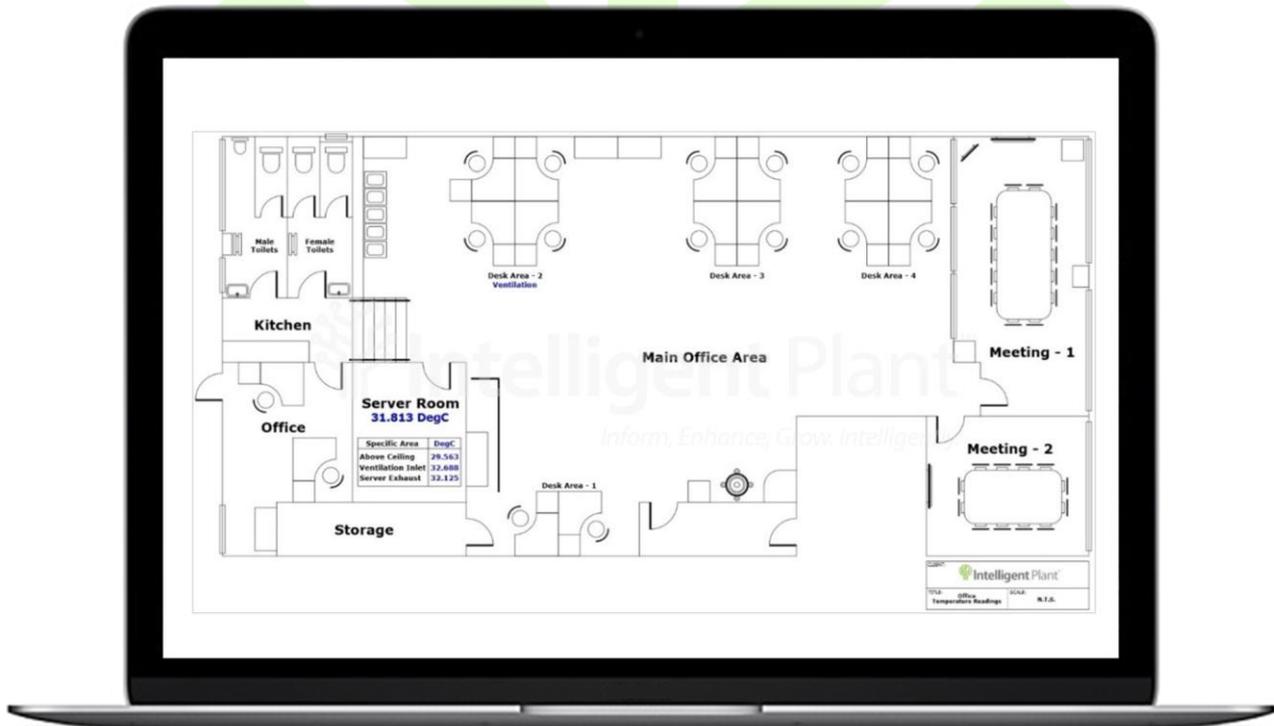


Figure 7-6 Building Management –Office Temperature Management

7.5 Food & Beverage

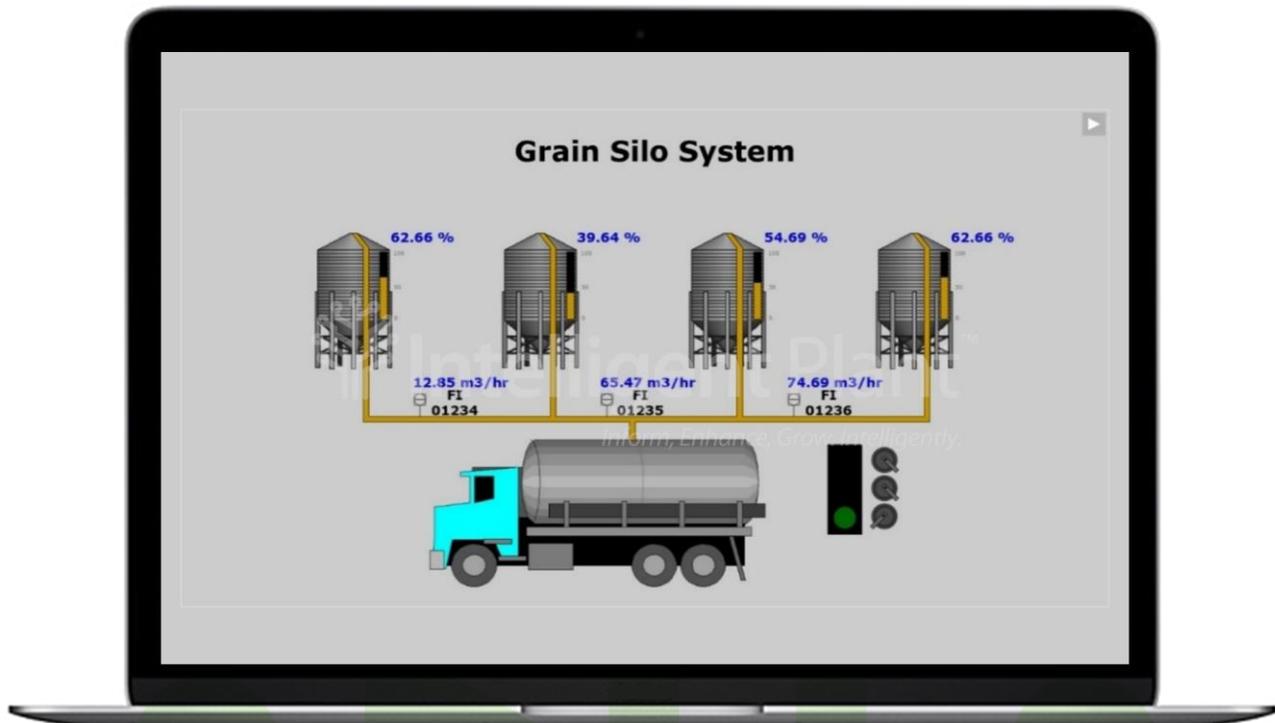


Figure 7-7 Food and Beverage – Grain Silo System

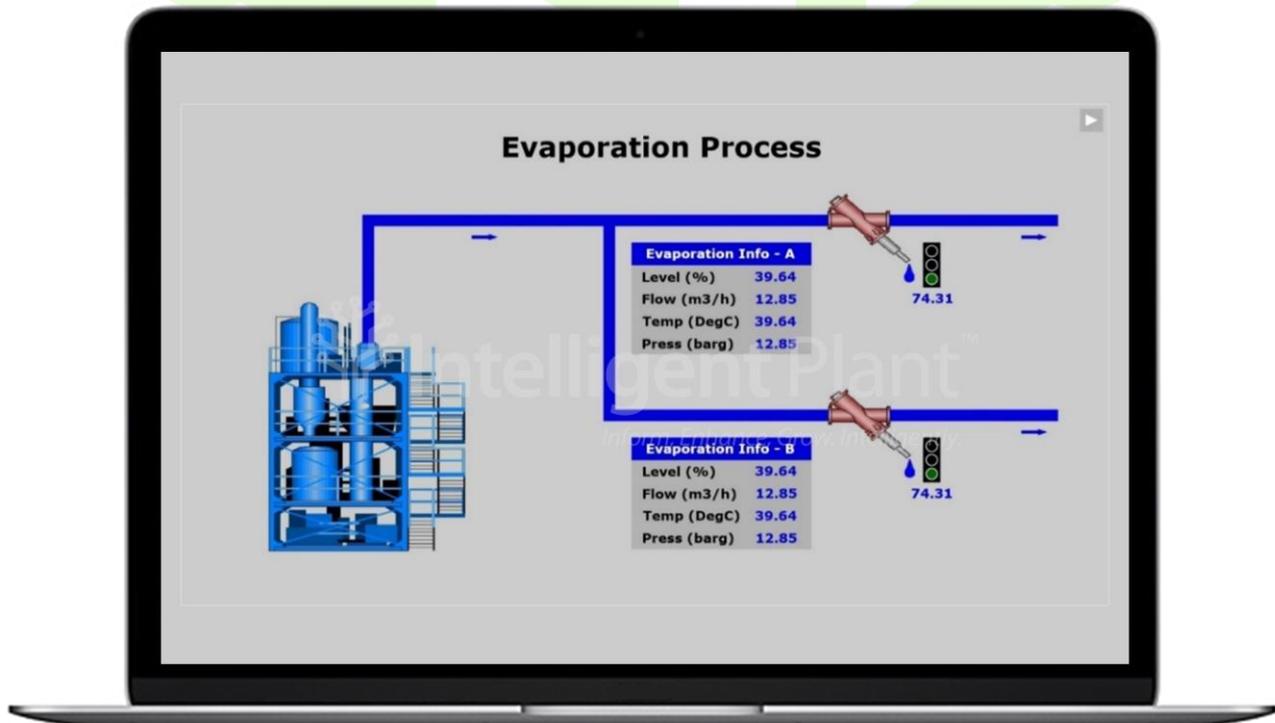


Figure 7-8 Food and Beverage – Evaporation Process

7.6 Shale Gas

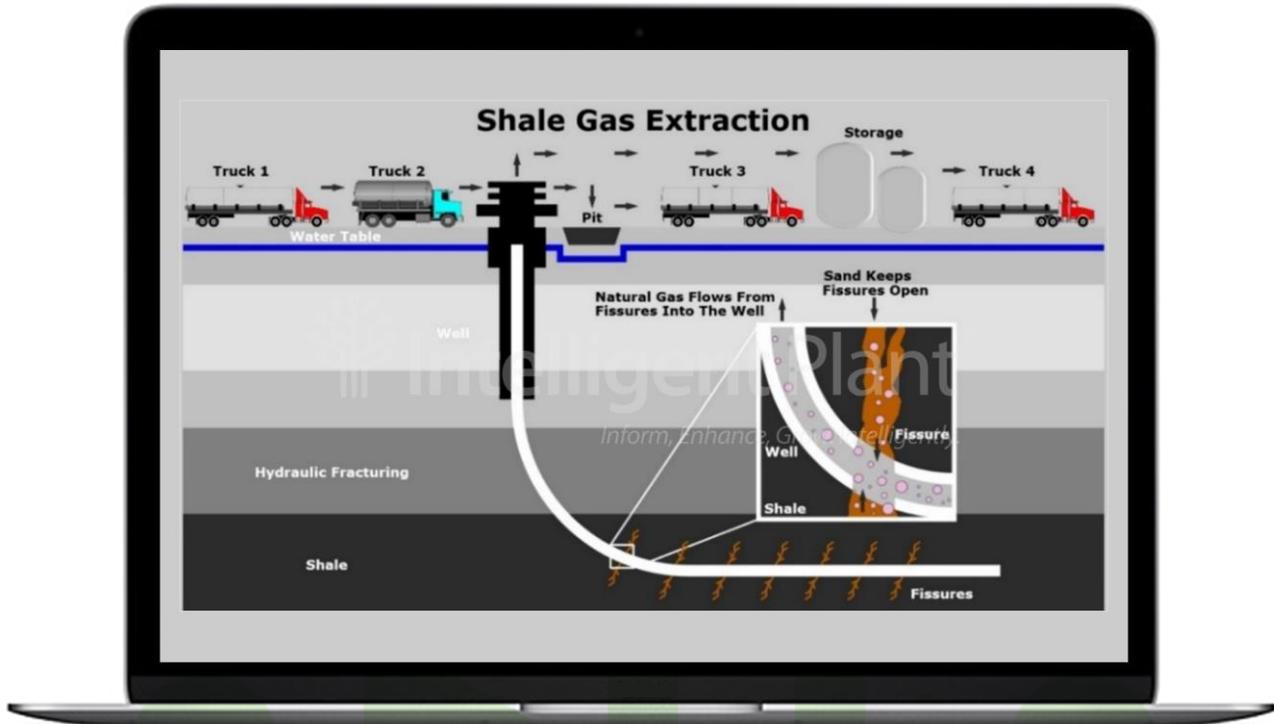


Figure 7-9 Shale Gas – Shale Gas Extraction

7.7 Marine

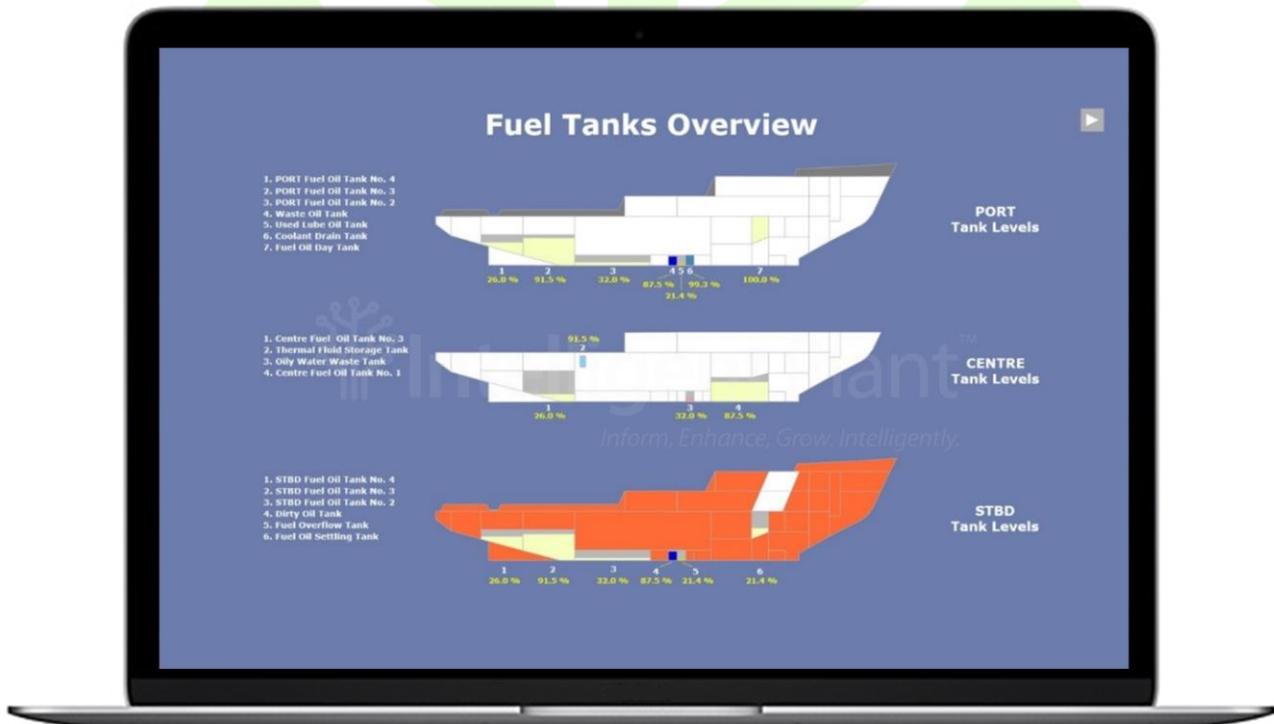


Figure 7-10 Marine – Fuel Tanks Overview

7.8 Power Generation

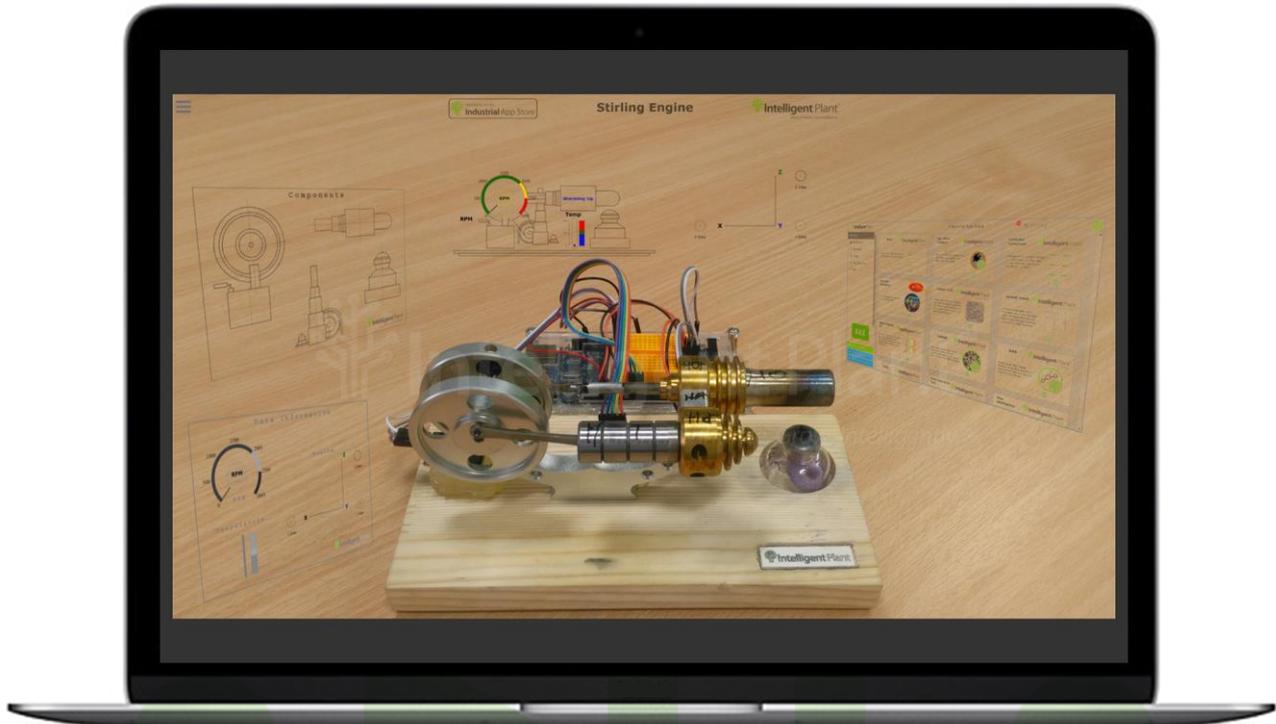


Figure 7-11 Power Generation – Stirling Engine



Figure 7-12 Power Generation – Plant Controls

7.9 Alarm Analysis

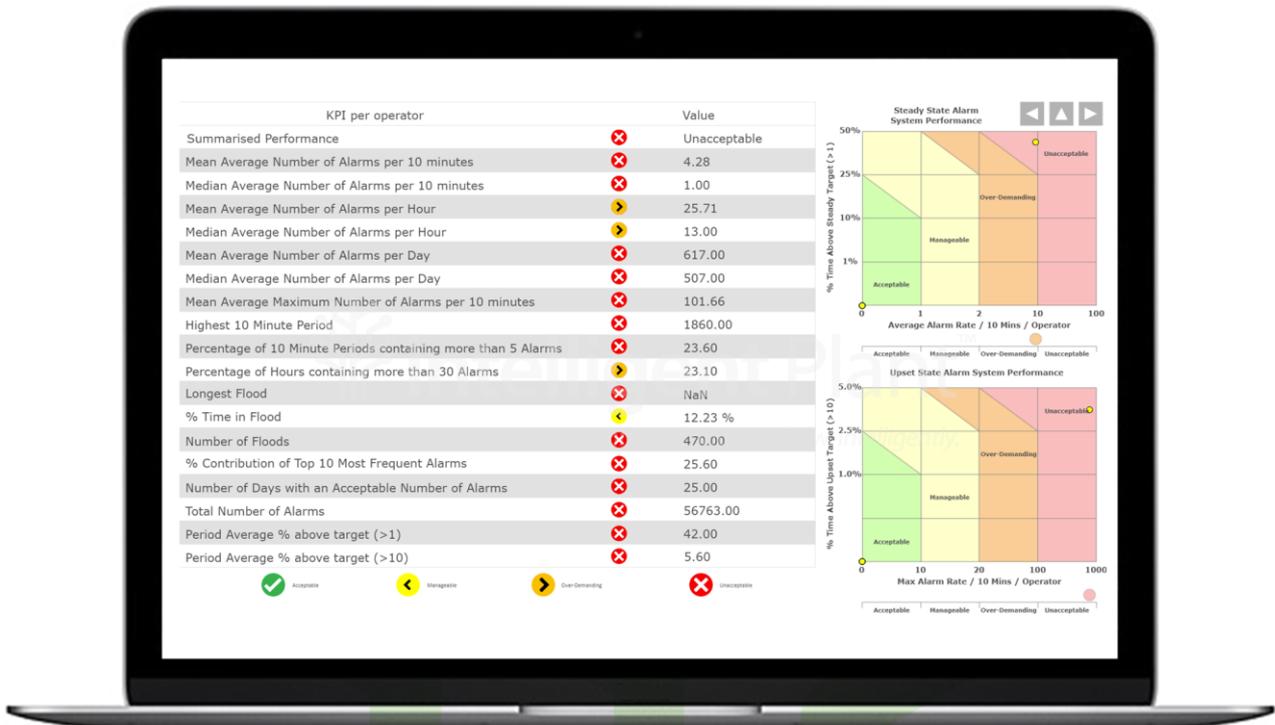


Figure 7-13 Alarm Analysis – KPI's

7.10 Data Centre

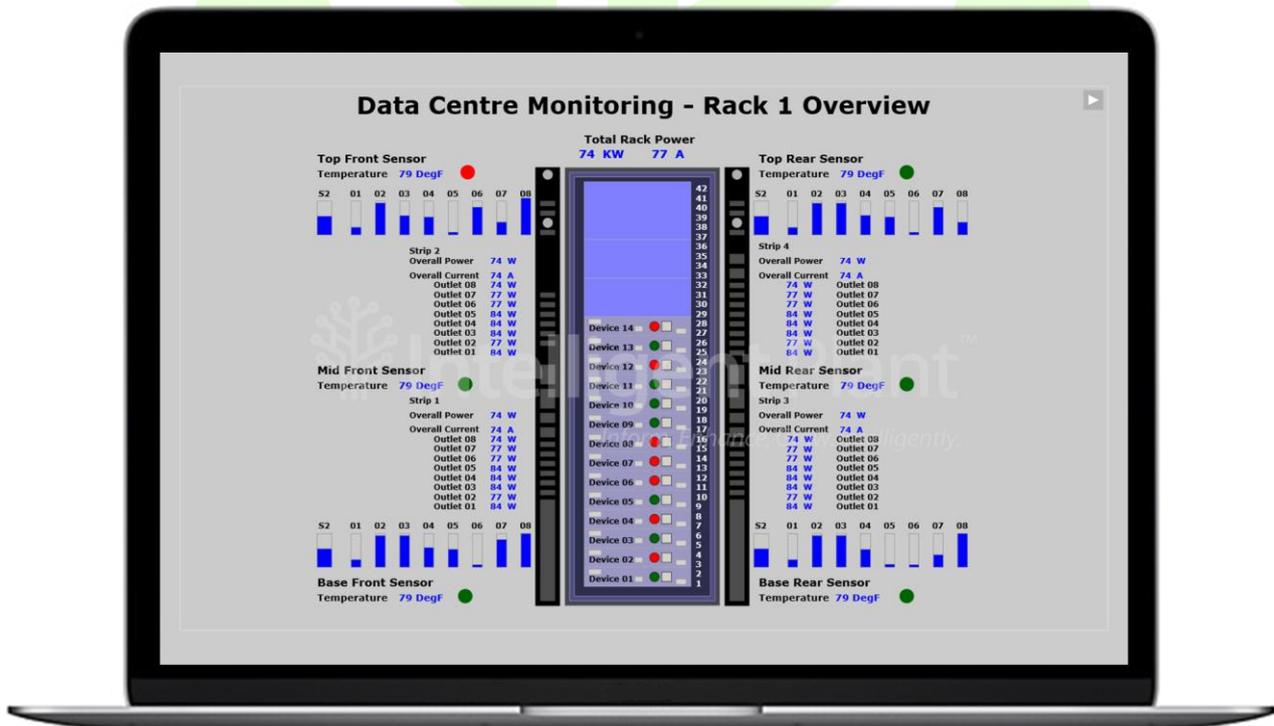


Figure 7-14 Data Centre – Rack Overview

7.11 Electrical

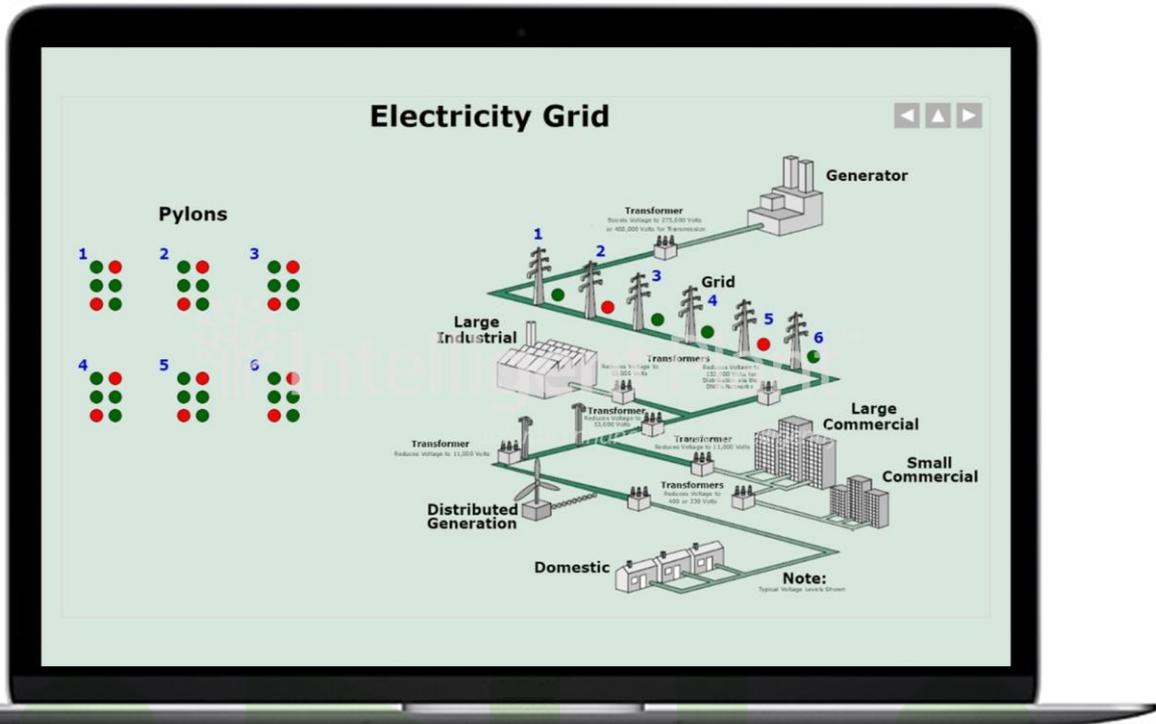


Figure 7-15 Electrical – Electricity Grid

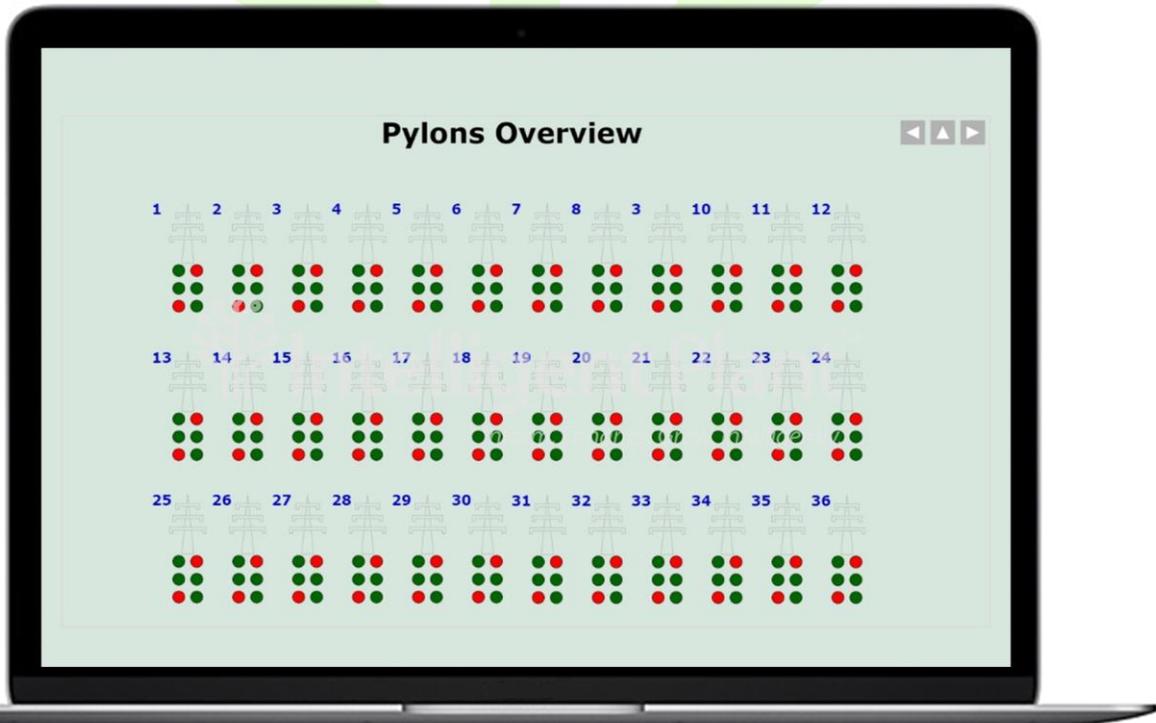
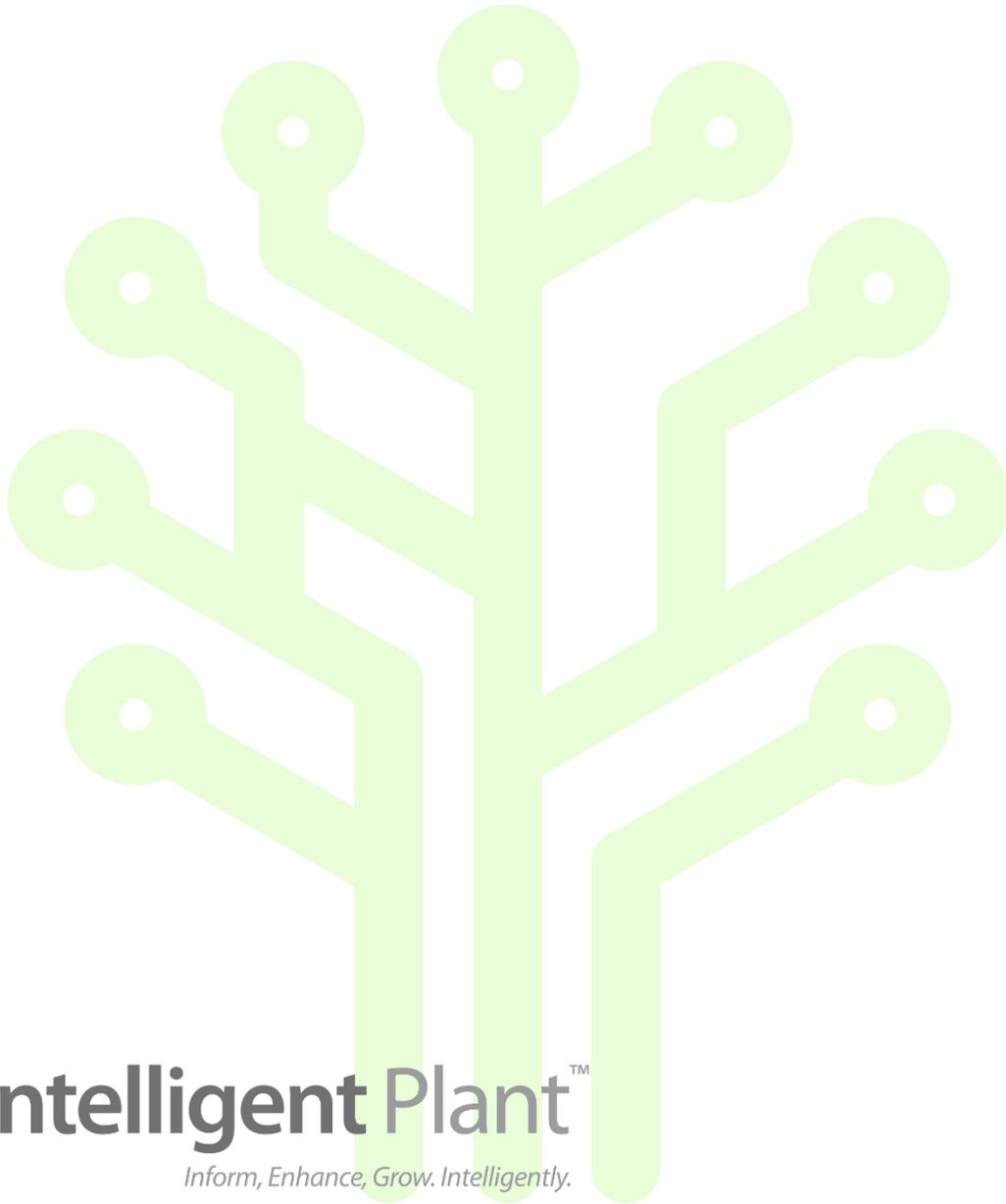


Figure 7-16 Electrical – Pylons Overview



Intelligent Plant Ltd

492 Union Street

Aberdeen

AB10 1TS