



Supervisor's Dashboard User Guide

Version 1.21

12th May 2020

NOTE: This document describes an application that is frequently being updated and therefore it doesn't always reflect the current appearance or functionality.

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1. INTRODUCTION

This document provides guidance for Users of the SPLASH Applied Supervisor's Dashboard.

SPLASH Applied provides remote visibility and control of third party controllers.

Please also refer to the separate SPLASH Applied Application User Guide which covers the SPLASH Applied APP.

SPLASH Applied ensures all Users' Plants are adequately managed and supported through their life cycle including:



-  installation
-  commissioning
-  maintenance and
-  operation

SPLASH Applied provides "unique to the industry" remote support to on site personnel including System Owners, Installers and Maintenance Contractors.

Users of SPLASH Applied login using their personally allocated user name and password.

Users of SPLASH Applied may have monitored Plants that they own and / or Plants that are being shared with them. For instance, an Owner may be a Facility Manager or Property Owner. This Owner is able to share the monitored Plant with interested parties, for instance a mechanical contractor that has a contract to maintain the mechanical Plants within the Owner's properties. Owners of Plants control the permission level of any invited User, for instance an invitee may only be able to view a Plant or they may be allowed to view and make setting changes to Plants.

In addition to Owners there are also currently two other groups of SPLASH Users:

-  SPLASH Supervisors – Users within this group can view and edit any monitored Plant on SPLASH Applied including changing permission levels of Users
-  SPLASH Read Only – Users within this group can only view all monitored Plants on SPLASH Applied including permission levels of Users

A historical log, currently only made available to the system Administrator, records who logs in and what changes that User makes during the session.

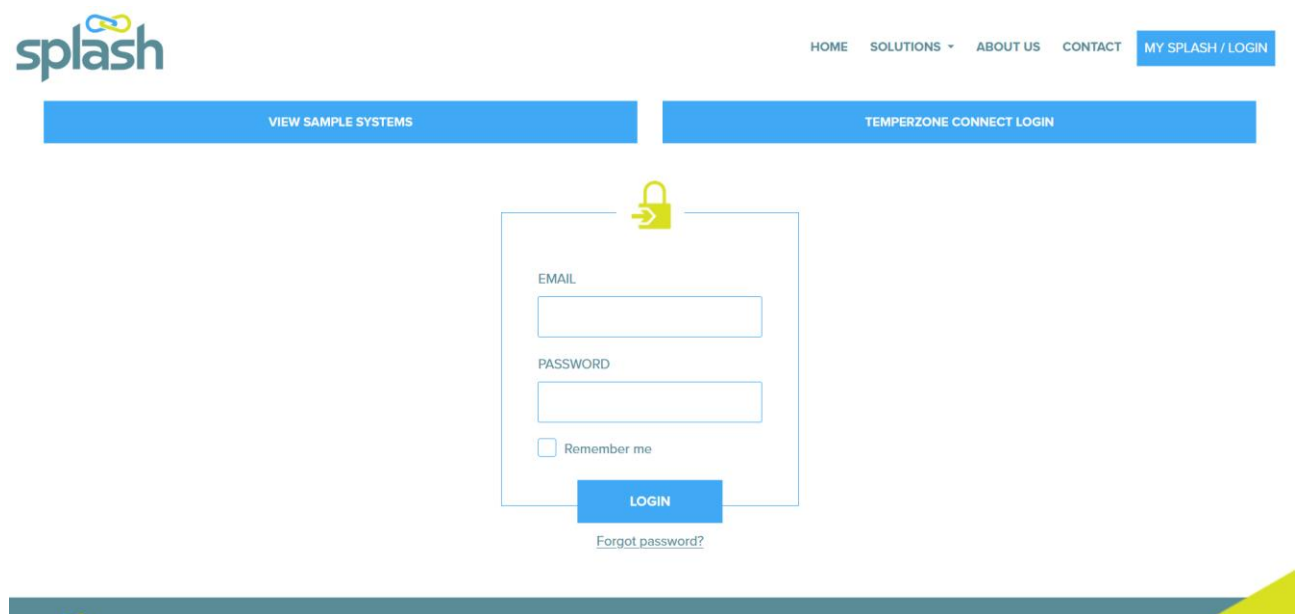
2. HARDWARE CONFIGURATION

SPLASH Applied is installed as standard in some third party products, is available as an option in others, is available for hardware purchase or we can provide turn key and custom solutions. Please refer to the separate documentation covering hardware configuration.

3. GENERAL

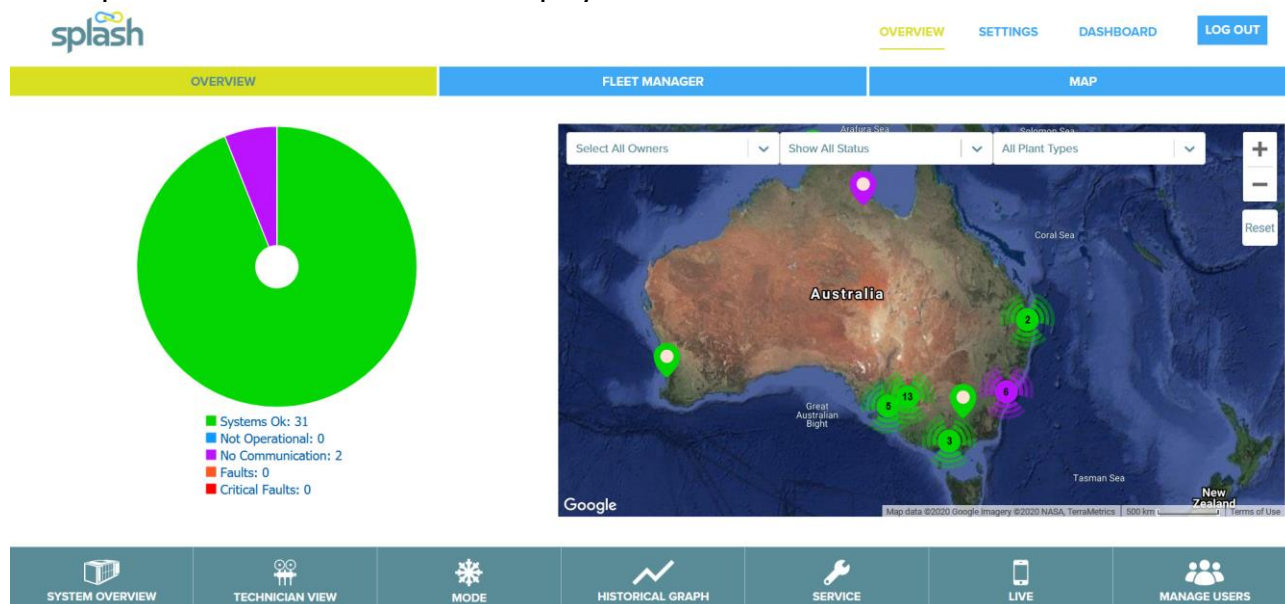
3.1 Login

To access the Supervisors Dashboard the User must have been allocated Supervisor privileges by the System Administrator. Log in through the SPLASH Applied APP by entering www.splashmonitoring.com into your web browser. Log in using your personally allocated Username and password.



The screenshot displays the SPLASH Monitoring login interface. At the top left is the 'splash' logo. The top right navigation bar includes links for 'HOME', 'SOLUTIONS', 'ABOUT US', 'CONTACT', and a blue button labeled 'MY SPLASH / LOGIN'. Below the navigation bar are two blue buttons: 'VIEW SAMPLE SYSTEMS' and 'TEMPERZONE CONNECT LOGIN'. The central login form is enclosed in a light blue border and features a yellow padlock icon at the top. It contains two input fields labeled 'EMAIL' and 'PASSWORD', a checkbox for 'Remember me', and a blue 'LOGIN' button. A link for 'Forgot password?' is positioned below the login button. The page has a dark blue footer with a yellow triangle on the right side.

Once a User has signed in, if the User has systems monitored through the SPLASH Applied App, the Overview page will be displayed. If your Username has been allocated the SPLASH Supervisor permission level the page will include links to 'Settings' and to the 'Dashboard'. Click the link to the Dashboard. If the Users systems are not on the SPLASH Applied App the Supervisors Dashboard will be displayed.



4. SETTINGS







Only SPLASH Supervisors have access to Settings which provides a User with three tabs:

-  Users
-  Plants
-  Sites

Please also refer to the SPLASH Applied Application User Guide which covers the SPLASH Applied APP.

5. SUPERVISORS DASHBOARD

The Supervisors Dashboard allows Supervisors to manage Plants and to change software and settings not normally available to persons outside of the system Owner, this includes:

-  Uploading firmware and software to controls
-  Uploading Register Maps
-  Changing settings
-  Generating new Alerts or modifying criteria in existing Alerts
-  Generating new Graphs or modifying existing Graphs
-  Changing data descriptions, names and units

The Supervisors Dashboard operates slightly differently to the SPLASH Applied APP. The SPLASH Applied APP displays monitored systems as "Plants". The Dashboard monitors individual "Controllers" ie "Systems".

Plants are an air conditioning or other manufactured unit, a Plant can consist of multiple monitored Controllers or Systems. The SPLASH Applied APP can source information from multiple monitored Controllers or Systems and display them seamlessly as a single monitored Plant. For example an OPA2100 consists of four UC8s and a Carel controller. On an OPA2100 all available data is sent out via the Carel controller, therefore there is only one monitored System on the Dashboard and one monitored Plant for each OPA2100.

Where data shown on the SPLASH Applied APP is sourced from multiple monitored Controllers or Systems, the information will be shown as a single monitored Pant but will be displayed as multiple Systems on the Supervisors Dashboard. This allows Users to update firmware or settings on an individual Controller.

6. FINDING THE MONITORED SYSTEM

Clicking the Dashboard button on the SPLASH Applied APP displays the page below. Currently all SPLASH monitored systems are designated as being “owned” by SPLASH Engineering. SPLASH Supervisors do not own any systems and therefore must search for a known system using three or more characters from the system’s name.

To find the name of a system, Supervisors can search in the SPLASH Applied APP Map view, refining the Plants shown based upon the monitored system Owner, location, or type of Plant then click on the location pin to view summary information including the name of the Plant.


Once the User has entered a name to search, the page displays a list of systems matching that name:

The screenshot displays the SPLASH Supervisors Dashboard. At the top, the SPLASH logo is on the left, and navigation links (Dashboard, TZAPP, Learn More, Support, LogOut) are on the right. The main heading is "Supervisors Dashboard". Below this is a search bar with the text "Search System: mandu" and a "Search" button. The results section, titled "Matching systems", shows two entries. The first entry is "Woolworths Mandurah (pi-093)" and the second is "ec-084 SBDC Woolworths Mandurah". Each entry has a row of icons representing different system features: SUBSCRIPTION, SETTINGS, LABELS, GRAPHIC, ALERTS, REPORTS, FINGERPRINT, FINGERPRINT, REGISTER, GETPOINTS, LIVE, and GRAPHIC. At the bottom, there is a section titled "Start monitoring a new system" with the instruction "To begin monitoring a system, select one of your Fingerprints and press scan." Below this is a dropdown menu labeled "Fingerprint to Scan" with the value "ec-005 - 2YJBY" and a "Scan" button. The footer contains the text "© 2019 Powered By Splashmonitoring.com · Privacy · Terms".

7. SUBSCRIPTION




The 'Subscription' button allows Users to upgrade to a different subscription with a different set of features or to renew the existing subscription if it is expiring. The existing system uses Paypal, Users pay via credit card and the subscription is automatically updated. Any upgrades and resubscriptions are logged on our central servers so bulk purchases, can be centrally invoiced.

Dashboard TZAPP Learn More Support LogOut

"Woolworths Mandurah (pi-093)" Subscription

This System's "Full Commercial 3 Year" Subscription expires on Nov 21, 2021.



Renew Subscription

Includes all of the following features.

1 year
175NZD

Pay Now

(Includes 25 SMS)

3 years
470NZD

Pay Now

(Includes 90 SMS)

6 years
900NZD

Pay Now

(Includes 200 SMS)

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8. SETTINGS



The "Settings" button allows systems to be cloned from a Template. Users can:

- Change the System name
- Setup a link to an animation
- Enter a start date, if different to the monitored start date. The Supervisor may want to limit how far back historical data can be viewed on graphs and reports.
- Turn on or off the Communication Alarm
- Clone an existing Template to this System thereby duplicating the Template's Labels, Graphs and Alerts to this System.

[Dashboard](#) [TZAPP](#) [Learn More](#) [Support](#) [LogOut](#)

'Woolworths Mandurah (pi-093)' Settings

System Name

Woolworths Mandurah (pi-093)

Start Date

Nov 21, 2019

Communication Alarm

ON

If no response in

Default (60 mins)

Then email to

spople@temperzone.com

Every

Default (24 hours)

Save

Cancel

Apply a Preset Configuration or Clone another System

Applying a Preset or Cloning another system will automatically set up your system for you. We have a library of Preset systems representing pre-defined hardware configurations. These are set up at the request of users and made available to all users. Alternatively you can choose to Clone a system that you already own, or is a public system that you know closely matches the system you're setting up.

Please understand the consequences of using a Preset or Cloning before you proceed. It will overwrite ALL data on the existing system relating to labels, animations, graphs and alerts. THIS CAN NOT BE UNDONE.

Apply Preset









Search for System

Search for Systems


9. LABELS



The Labels button displays and allows the metadata for each data point to be edited.

-  The "Tag name" is the name of the data point from the Register Map (display only)
-  The "Latest value", is displayed if available. This value is only refreshed if the Labels page is refreshed. (display only)
-  The "Label name" is the name of the data point that is to be used in the GUI, including SPLASH Applied APP
-  The "Description" is a User entry to provide further clarification of the meaning or use of the data point
-  The "Units" are the units to be used in the GUI and APP ie. "%"
-  The "Factor" allows users to alter the value of the data point displayed by multiplying it by this factor
-  The "Order" is the order that values are displayed in the "Live view"
-  Each value has a "Permission level" allocated that permits a User to either view or edit it within the GUI and APP

If any changes are made the User must click 'save, for the changes to take effect

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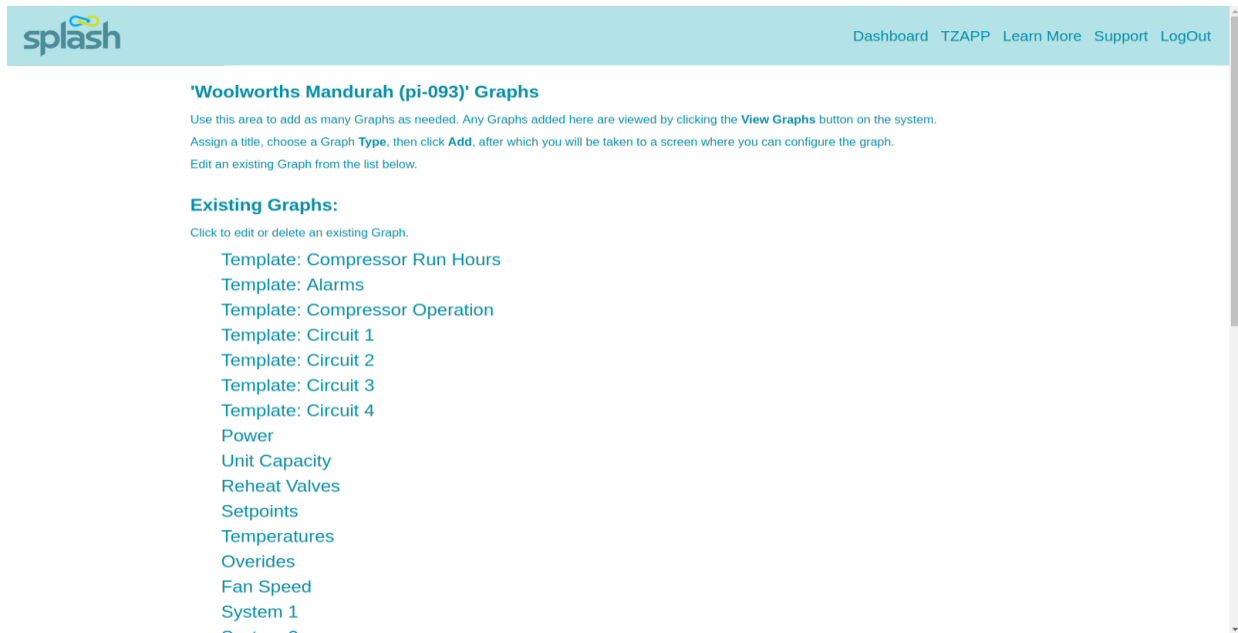
'Woolworths Mandurah (pi-093)' Sensor Labels

TagID 214 has tagname	sm.regmap1
Latest value:	(none)
Label 1	<input type="text" value="sm.regmap1"/>
Description	<input type="text"/>
unit	<input type="text"/>
factor	<input type="text" value="1"/>
order	<input type="text" value="1"/>
permission level	<input type="text" value="0"/>
TagID 6 has tagname	sm.St
Latest value:	(none)
Label 2	<input type="text" value="sm.St"/>
Description	<input type="text" value="Streambox Comms"/>
unit	<input type="text"/>
factor	<input type="text" value="1"/>
order	<input type="text" value="1"/>
permission level	<input type="text" value="5"/>
TagID 504 has tagname	Info_Unit_Status
Latest value:	(none)
Label 3	<input type="text" value="Info_Unit_Status"/>
Description	<input type="text"/>

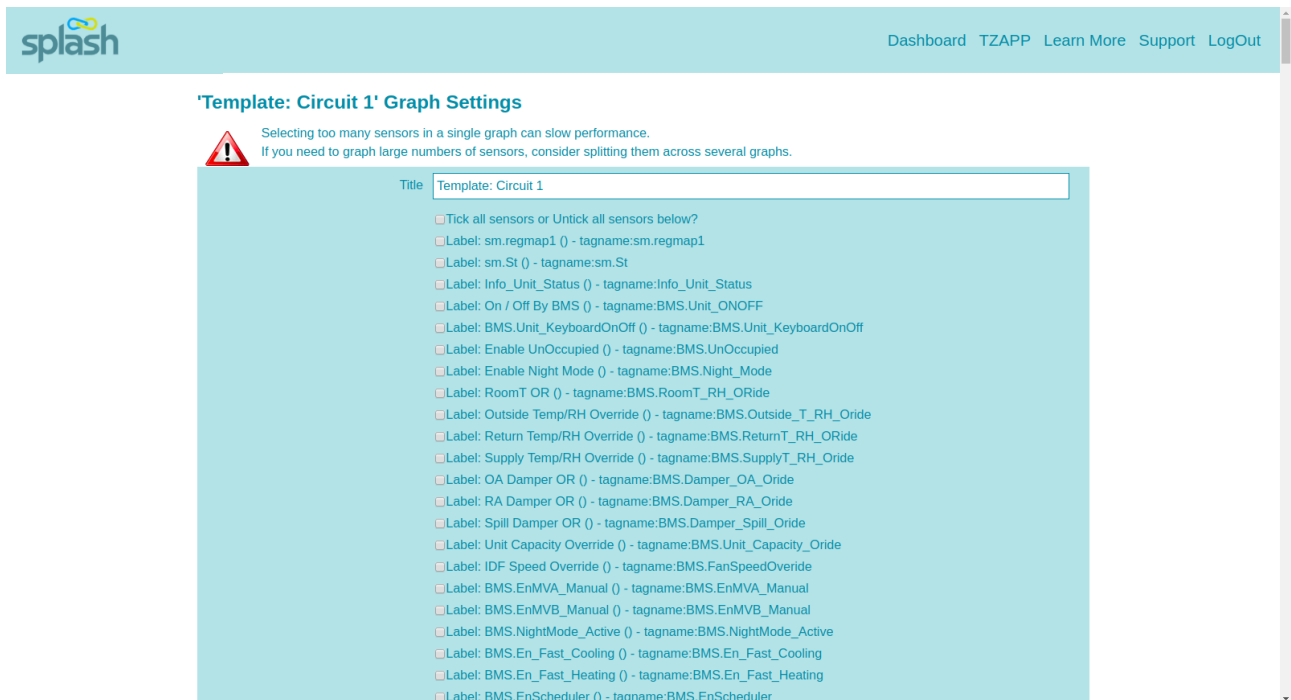
10. GRAPHS



The Graphs button allows Users to generate new graphs or edit existing ones. These graphs are then made available in the “View graphs” button. When a User initially enters the tab, a list of the existing graphs is shown. Users can select an existing graph to edit or select a new graph type and enter a name for the new graph.





The User then selects the data points to be shown in the graph and clicks 'save'.



11. ALERTS




An Alert is an alarm that is generated when data meets pre selected criteria. For instance alerts can be generated:

-  when an alarm is generated by the monitored device or
-  when designated criteria are met for instance a temperature exceeds a set threshold

The Alerts button displays existing alert conditions and allows the Supervisor to edit an existing condition, or enter a new Alert.

Add a new Alert



Title

Email/SMS Message Text

Permission

0

Type of Alert

Critical Faults

During

at any time of day or night (ignore from and to)

from

00:00

to

00:00

Email Frequency

once per day

Reminder Frequency

once per day

Prevail Time (Seconds)

30 Seconds

Disable Alert

No

Disable Reminder Frequency

12 times per day (aprox every 02 hours)


Add Alert

Alerts consist of one or more conditions, these conditions can be “And” or “Or” statements.

Existing Conditions

This Alert has no conditions.

Add a Condition



This Alert Condition will only be met IF...

during the period since the Alert Conditions were last checked,

the highest value

of the Sensor Labelled

is equal to

the highest value

of the Sensor Labelled

multiplied by a factor of (leave zero if you want raw values)

or of the number below: (leave above box blank if entering a number below)

☐ Tick this box if this is a Required condition

Add



It is important to understand what it means to set a Condition as **Required**. EVERY Required Condition must be met in order to send an Alert, whereas ANY Condition not marked as Required will send an Alert if met. For more help, [click here](#).

'Traffic Volumes' Alert Settings and Conditions




Alert details

Title	<input type="text" value="Traffic Volumes"/>
Email/SMS Message Text	<input type="text" value="ec-005 SM Lab on SM3"/>
Permission	<input type="text" value="3"/>
Type of Alert	<input type="text" value="Critical Faults"/>
During	<input type="text" value="at any time of day or night (ignore from and to)"/>
from	<input type="text" value="00:00"/>
to	<input type="text" value="00:00"/>
Email Frequency	<input type="text" value="once per day"/>
Reminder Frequency	<input type="text" value="once per day"/>
Prevail Time (Seconds)	<input type="text" value="2 Hours"/>
Disable Alert	<input type="text" value="No"/>
Disable Reminder Frequency	<input type="text" value="12 times per day (aprox every 02 hours)"/>

12. REPORTS



The 'Reports' button allows the User to generate a CSV report for selected data over a selected date range. The User selects the Start and End dates and the desired time interval between data points. The time interval is standardised at 30 seconds unless the data is available at finer granularity. The User selects the data to be included in the report then clicks 'Run Report'. The CSV report generated and can be opened or saved.

Dashboard TZAPP Learn More Support LogOut

Report

This reporting tool allows a user to export the selected data as a csv file. Depending upon the period of data and the interval between data points selected, the output file can be extremely large and can take several minutes to download.

Start date:

End date:

Minimum interval between data points:

[Run Report](#)

Click here to tick all sensors or untick all sensors

- ☒ sm.regmap1 ()
- ☒ sm.St ()
- ☒ Info_Unit_Status ()
- ☒ On / Off By BMS ()
- ☒ BMS.Unit_KeyboardOnOff ()
- ☒ Enable UnOccupied ()
- ☒ Enable Night Mode ()
- ☒ RoomT OR ()
- ☒ Outside Temp/RH Override ()
- ☒ Return Temp/RH Override ()
- ☒ Supply Temp/RH Override ()
- ☒ OA Damper OR ()
- ☒ RA Damper OR ()

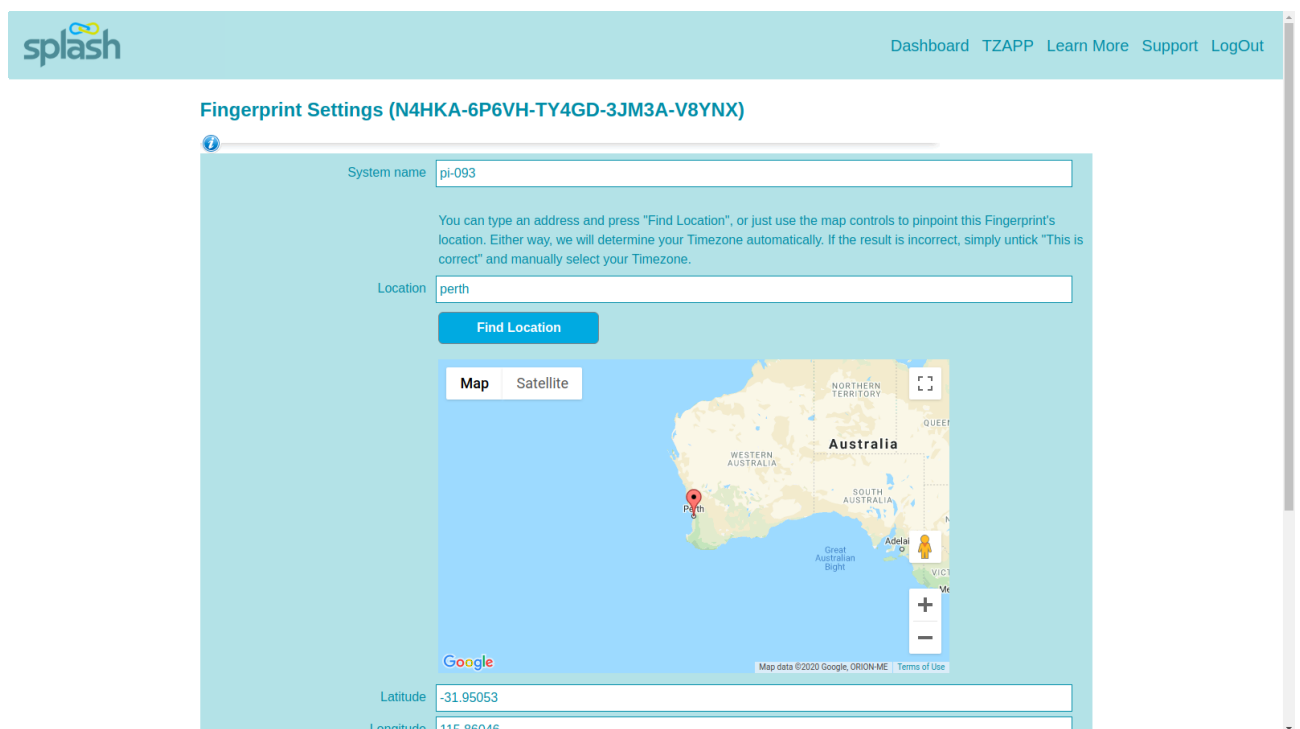
13. FINGERPRINT



The location of a System can be changed on this page by entering the new location in the Location box and clicking 'Find Location', then 'Save'. This affects the 'Sample Time' displayed on the 'Live View'.

The 'System Name' is not the name of the Dashboard system, but the nickname associated with the fingerprint and is automatically updated by the Streambox to reflect the associated Streambox's name.

The remaining fields are not used by the APP.



splash

Dashboard TZAPP Learn More Support LogOut


Fingerprint Settings (N4HKA-6P6VH-TY4GD-3JM3A-V8YNX)

System name

You can type an address and press "Find Location", or just use the map controls to pinpoint this Fingerprint's location. Either way, we will determine your Timezone automatically. If the result is incorrect, simply untick "This is correct" and manually select your Timezone.

Location

Map ☒ Map ☐ Satellite



Latitude


Longitude

14. FIRMWARE



Firmware can currently only be uploaded to supported controllers.

From a file browser on your PC drag a valid firmware file into the 'Drop file here...' pane and click 'Process'. The update will take several minutes after which you should receive a 'success' message. If the update was not successful you will receive an error message.



DashboardRegister Map UploadChange Settings

Drop bin and conf files here to upload. Max 2 files at a time

Ready!

Process

15. REGISTER MAPS




New Register Maps can be uploaded to any modbus controller type. For the current Register Map names search for 'sm.reg' in the 'Live View'.

Register map names must end with either '-dynamic' or '-static' and be no more than 50 characters in length. A dynamic register map is mandatory but the static map is optional if the dynamic map contains all the registers for the monitored controller associated with this System. All register maps must adhere to the strict format prescribed in the latest "Register Map Structure" document.

To upload a new register map drag the file from your file browser into the '[Drop -dynamic or -static files here](#)' pane and click 'Process'. You will receive a 'success' message or an error message if it didn't work.

Click on the 'File History Manager' to see previously uploaded files, or download these files to your PC.

 [Dashboard](#) [Firmware Upload](#) [Change Settings](#)

This application only accept register map -dynamic or -static file type.

Drop -dynamics or -static files here to upload. Max 2 files at a time

Ready!

Process

File History Manager


16. SETPOINTS



Registers whose values can be changed are defined in the 'Labels' page by allocating a permission level to the relevant Label. All Labels with a non-zero permission level will appear in this page in the Supervisor's Dashboard.

To change one or more values enter the new value in the 'Settings' column then click 'Save Changes'. After about a minute a message will be displayed against each changed value telling you whether the change was successful or not. If all changes were successful you will get a 'success' message in the lower pane, otherwise you will get an error message.

It is best to limit the number of values you change at any one time to six or less. This is not essential but it will reduce the risk of failure.

<div>  <div> Dashboard Firmware Upload Register Map Upload </div> </div>		
Label	Setting	Message
sm.St	1 OK	
On / Off By BMS	1 OK	
RoomT OR	1 OK	
BMS.Alarm_Reset	0 OK	
BMS.RoomT_Cool_SP	23 OK	
BMS.Room_Heat_SP	21.5 OK	
BMS.Room_RH_SP	55 OK	
BMS.CoolStartSP	0.2 OK	
BMS.CoolStopSP	1 OK	
BMS.HeatStartSP	1.5 OK	
BMS.HeatStopSP	0.4 OK	
BMS.DewP_DeadBand	1.2 OK	
BMS.AirFlow_SP	10000 OK	
BMS.Fast_Cooling_Threshold	95 OK	
BMS.Fast_Heating_Threshold	95 OK	
BMS.Fast_Cooling_ET	5 OK	
BMS.Fast_Heating_CT	48 OK	
BMS.UnitCapacityKp	2.5 OK	
BMS.UnitCapacityTi	200 OK	
BMS.ReheatValveMaxLimit	80 OK	
BMS.CompCapCooling_Kp	1.2 OK	
BMS.CompCapHeating_Kp	1.2 OK	
BMS.CompCapHeating_T1	100 OK	
BMS.UserOptimizationStandard	-4 OK	

17. LIVE VIEW



To optimise bandwidth utilisation data is sent from a Streambox when the total number of changed values approaches 1000 bytes of information. So, for a controller who's values are changing rapidly the data in the Live view will refresh every 30 seconds or so, but for controllers with less frequently changing values the Live refresh rate may be significantly longer.

By default ten values are displayed per page in the order they are defined in the 'Labels' page. You can increase this number by clicking on the drop-down at the bottom left of the page.

You can search for selected values by entering part of the label name in the search field. The page will automatically update. To restore the page clear the search field. Use the navigation buttons at the bottom of the page to scroll or jump through the values.

Woolworths Mandurah (pi-093)



Local Time: 2020-05-27 08:06:59

Sample Time: 2020-05-27 08:05:56

Zone: Australia/Perth

Export to CSV

Search Label...

#	Label	Value	Unit	Date
1	sm.regmap1	Carel-OPA2100-modbus-dynamic		2020-05-26 20:37:46
2	sm.St	1		2020-05-27 08:05:56
3	Info_Unit_Status	no data		no data
4	On / Off By BMS	1		2020-05-26 20:37:46
5	BMS.Unit_KeyboardOnOff	1		2020-05-26 20:37:46
6	Enable UnOccupied	0		2020-05-26 20:37:46
7	Enable Night Mode	1		2020-05-26 20:37:46
8	RoomT OR	1		2020-05-26 20:37:46
9	Outside Temp/RH Override	0		2020-05-26 20:37:46
10	Return Temp/RH Override	0		2020-05-26 20:37:46

From 1 to 10, totals is 418



1

2

3

4

5








>

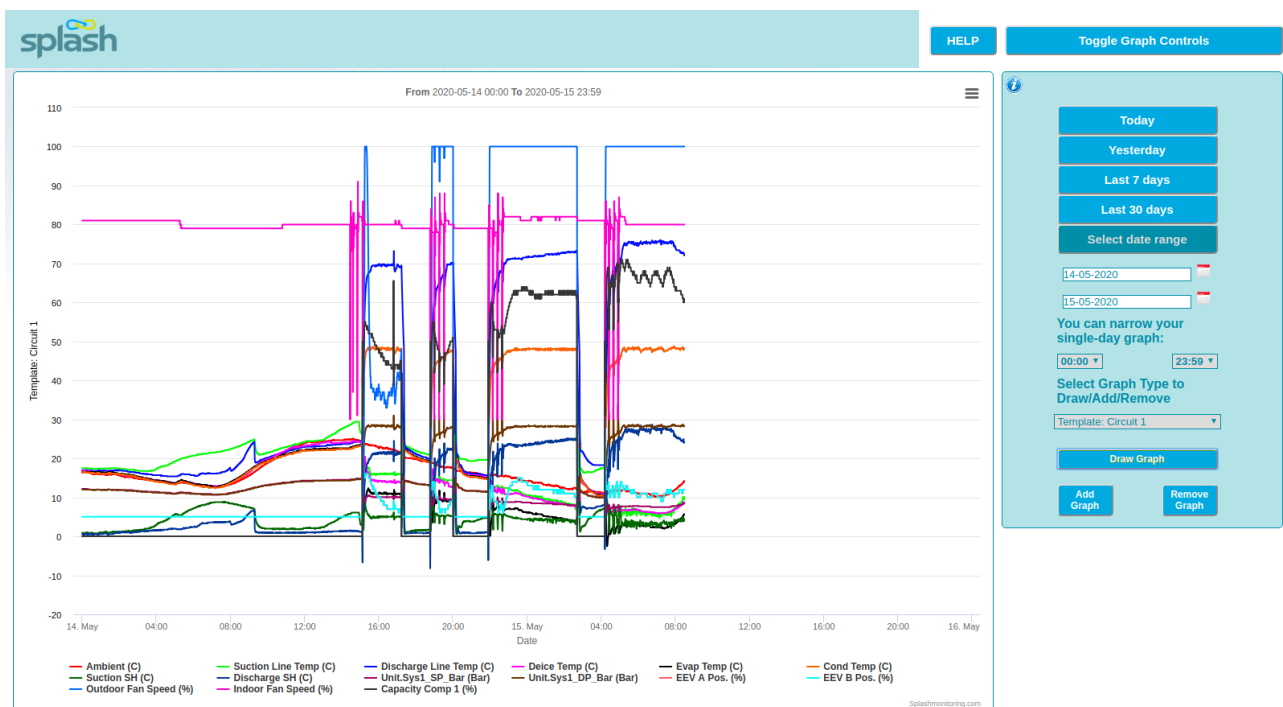
>>

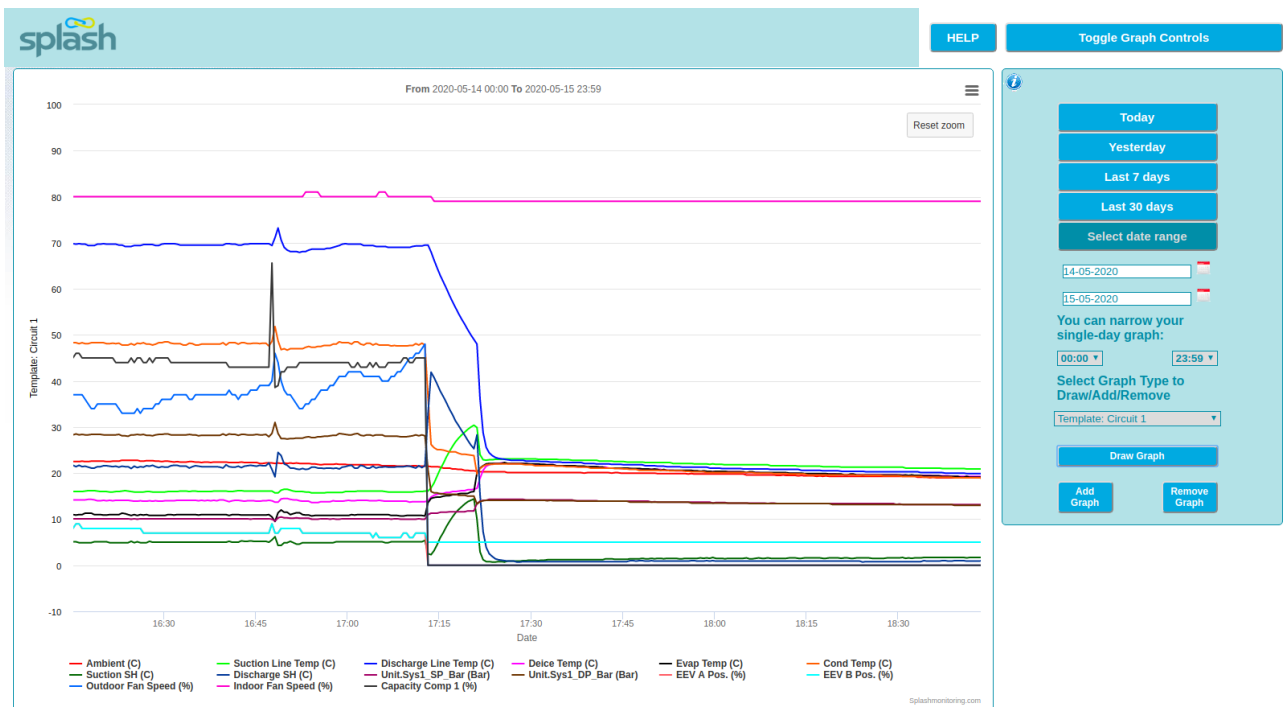
18. VIEW GRAPHS



SPLASH Plants will have had Template graphs setup to show historical information. Additional graphs can be setup in the graphs button refer section 10. Once graphs have been setup they can be viewed by clicking the View Graphs button and selecting the required criteria:

-  Users can either click one of the preset time period buttons, or click 'Select date range' to use the calendar selection
-  If a single day is selected the start and stop times are displayed to allow a User to restrict the graph to a specific time of day
-  The User then selects the graph name from the drop down list, then clicks 'Draw Graph'
-  Once the graph has been displayed, the User can choose to overlay an additional graph by clicking the drop down list and selecting another graph name, then clicking 'Add Graph'. A graph can be removed from the display by selecting the graph name from the drop down list and clicking 'Remove Graph'
-  Individual data points can be hidden or shown on the display by clicking the data point name in the key at the bottom of the graph
-  Users can also zoom in on the graph by clicking on the graph and dragging the mouse across the area to be expanded
-  The User can click 'Reset zoom' to restore the graph





19. EVENT LOGS

SPLASH can generate several different reports that detail who viewed which systems, when and what changes were made. These include views of or changes being made on either the Supervisors Dashboard or APP. It is intended that some of these reports will be made available to some permission levels.

END OF DOCUMENT