DEEP SEA ELECTRONICS PLC

DSEWebNet PC Internet Browser
Software Manual

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Author: Ashley Senior



Deep Sea Electronics Plc
Highfield House
Hunmanby
North Yorkshire
YO14 0PH
ENGLAND

Sales Tel: +44 (0) 1723 890099
Sales Fax: +44 (0) 1723 893303

E-mail: sales@deepseaplc.com
Website: www.deepseaplc.com

DSEWebNet PC Internet Browser Software

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Amendments Since Last Publication

Issue	Comments
1	Initial release
1.1	Changed to reference DSEGateway rather than DSE890.
2	Updates for phase 4 features.
3	Added information for Admin section.
4	Updates for phase 5 features.
5	Updates to Device Compatibility, Page Editor Mode and Event Triggers
6	Update to Version 2 of DSEWebNet

Typeface: The typeface used in this document is *Arial*. Care must be taken not to mistake the upper case letter I with the numeral 1. The numeral 1 has a top serif to avoid this confusion.

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1 INTRODUCTION

This document details the use of the *DSEWebNet Software*, which is compatible of the DSEGenset®, DSEAts® and DSEControl® range of products.

The manual forms part of the product and should be kept for the entire life of the product. If the product is passed or supplied to another party, ensure that this document is passed to them for reference purposes.

This manual covers the registration and operation of the *DSEWebNet* for DSE products. This is not a *controlled document.* DSE do not automatically inform on updates. Any future updates of this document are included on the DSE website at www.deepseaplc.com

The *DSEWebNet Software* in conjunction with the *DSE890* or *DSE891 Gateway* allows the user to remotely monitor and control a wide range of modules via a supported internet browser. Once connected, the software allows easy, controlled access to various operating parameters within the module which can then be viewed as required.

The *DSEWebNet* must only be used by competent, qualified personnel, as it is possible to operate the module from a remote location which may have safety implications on the panel / set to which it is fitted. Access to certain sections of the system may be restricted on a user account by the organisation account it is registered too.

The information contained in this manual must be read in conjunction with the information contained in the appropriate module documentation. This manual only details which settings are available and how they may be used. Separate manuals deal with the operation of the individual module and its ancillaries, refer to section entitled *Bibliography* elsewhere in this document for further information.

1.1 CLARIFICATION OF NOTATION

Clarification of notation used within this publication.

NOTE:	**Highlights an essential element of a procedure to ensure correctness.**
CAUTION!	**Indicates a procedure or practice, which, if not strictly observed, could result in damage or destruction of equipment.**
WARNING!	**Indicates a procedure or practice, which could result in injury to personnel or loss of life if not followed correctly.**

1.2 GLOSSARY OF TERMS

Term	Description
Gateway Site	Refers to the DSE890 and DSE891 DSEGateway devices.
Controller Module	Refers to the DSE product connected to the DSE890 or DSE891 DSEGateway devices.
DTC	Diagnostic Trouble Code The name for the entire fault code sent by an engine ECU.
ECU/ECM	Engine Control Unit/Management An electronic device that monitors engine parameters and regulates the fuelling.
GSM	Global System for Mobile communications. Cell phone technology used in most of the World.
GPS	Global Positioning System A global navigation satellite system that provides geolocation and time information.
SCADA	Supervisory Control And Data Acquisition A system that operates with coded signals over communication channels to provide control and monitoring of remote equipment
SIM	Subscriber Identity Module. The small card supplied by the GSM/CDMA provider that is inserted into the cell phone, GSM modem or DSEGateway device to give GSM/GPRS connection.
SMS	Short Message Service The text messaging service of mobile/cell phones.

1.3 BIBLIOGRAPHY

This document refers to, and is referred by the following DSE publications which are obtained from the DSE website: www.deepseaplc.com or by contacting DSE technical support: support@deepseaplc.com.

1.3.1 INSTALLATION INSTRUCTIONS

Installation instructions are supplied with the product in the box and are intended as a 'quick start' guide only.

DSE Part	Description
053-140	DSE890 & DSE891 Installation Instructions

1.3.2 MANUALS

Product manuals are obtained from the DSE website: www.deepseaplc.com or by contacting DSE technical support: support@deepseaplc.com.

DSE Part	Description
057-165	DSE890 & DSE891 Operators Manual
057-235	DSEWebNet Smart Device Software Manual
057-156	DSE334 Configuration Suite PC Software Manual
057-237	DSE335 Configuration Suite PC Software Manual
057-267	DSEE100 Configuration Suite PC Software Manual
057-251	DSEE400 Configuration Suite PC Software Manual
057-203	DSEE800 Configuration Suite PC Software Manual
057-187	DSEL400 & DSEL401 Configuration Suite PC Software Manual
057-222	DSEL401 MKII Configuration Suite PC Software Manual
057-186	DSEP100 Configuration Suite PC Software Manual
057-178	DSE4310 & DSE4320 Configuration Suite PC Software Manual
057-093	DSE4410 & DSE4420 Configuration Suite PC Software Manual
057-172	DSE4510 & DSE4520 Configuration Suite PC Software Manual
057-258	DSE4510 MKII & DSE4520 MKII Configuration Suite PC Software Manual
057-201	DSE4610 & DSE4620 Configuration Suite PC Software Manual
057-114	DSE6010 & DSE6020 Configuration Suite PC Software Manual
057-223	DSE6010 MKII & DSE6020 MKII Configuration Suite PC Software Manual
057-096	DSE6110 & DSE6120 Configuration Suite PC Software Manual
057-224	DSE6110 MKII & DSE6120 MKII Configuration Suite PC Software Manual
057-117	DSE7110 & DSE7120 Configuration Suite PC Software Manual
057-185	DSE7110 MKII & DSE7120 MKII Configuration Suite PC Software Manual
057-077	DSE72xx & DSE73xx Configuration Suite PC Software Manual
057-243	DSE7310 MKII & DSE7320 MKII Configuration Suite PC Software Manual
057-160	DSE7410 & DSE7420 Configuration Suite PC Software Manual
057-262	DSE7410 MKII & DSE7420 MKII Configuration Suite PC Software Manual
057-119	DSE8610, DSE8620 & DSE8660 Configuration Suite PC Software Manual
057-238	DSE8610 MKII Configuration Suite PC Software Manual
057-127	DSE8710 & DSE8760 Configuration Suite PC Software Manual
057-164	DSE8810 Configuration Suite PC Software Manual
057-174	DSE8860 Configuration Suite PC Software Manual

1.3.3 TRAINING GUIDES

Training guides are provided as ‘hand-out’ sheets on specific subjects during training sessions and contain specific information regarding to that subject.

DSE Part	Description
056-006	Introduction to Comms
056-097	USB Earth Loop and Isolation

1.3.4 THIRD PARTY DOCUMENTS

The following third party documents are also referred to:

Reference	Description
ISBN 1-55937-879-4	IEEE Std C37.2-1996 IEEE Standard Electrical Power System Device Function Numbers and Contact Designations. Institute of Electrical and Electronics Engineers Inc
ISBN 0-7506-1147-2	Diesel generator handbook. L.L.J. Mahon
ISBN 0-9625949-3-8	On-Site Power Generation. EGSA Education Committee.

2 INSTALLATION INSTRUCTIONS

2.1 DSEGATEWAY

For information with regards to setting up the DSE890 or DSE891 Gateway Device, refer to DSE Publication: ***057-165 DSE890 & DSE891 Gateway Operators Manual*** which is found on the DSE website: ***www.deepseaplc.com***

2.2 PC INTERNET BROWSER COMPATIBILITY

2.2.1 GOOGLE CHROME

DSEWebNet is optimised for the latest version of the Google Chrome web browser.

2.2.2 INTERNET EXPLORER

Internet Explorer 11
DSEWebNet is optimised for Internet Explorer 11

Internet Explorer 10
DSEWebNet is optimised for Internet Explorer 10

2.2.3 MOZILLA FIREFOX

DSEWebNet is optimised for the latest version of the Mozilla Firefox web browser.

2.3 SMART DEVICE INTERNET BROWSERS & APPLICATIONS

For information with regards to using the DSEWebNet on a smart device, refer to DSE Publication: ***057-235 DSEWebNet Smart Device Software Manual*** which is found on the DSE website: ***www.deepseaplc.com***

2.4 DEVICE COMPATIBILITY

At the time of printing, the following devices are currently compatible with the DSE890 & DSE891. Other devices are being added as part of our ongoing development.

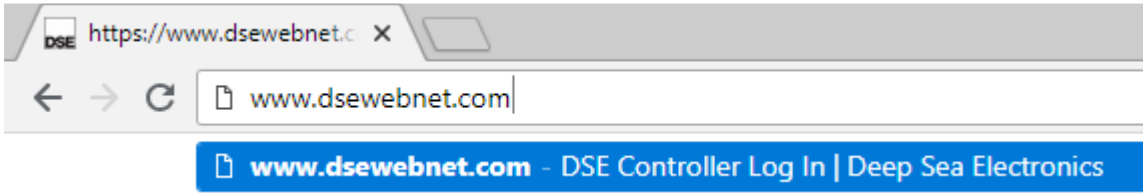
NOTE: Not all variants are available in all markets.

NOTE: Not all instrumentation is available with all controllers. Refer to the Configuration Suite PC Software manual relevant to your controller for details of supported instrumentation.

DSE Controller
DSE334
DSE335
DSEE100
DSEE400
DSEE800
DSEL400
DSEL401, DSEL401 MKII
DSEP100
DSE4310, DSE4310 NC
DSE4320, DSE4320 NC
DSE4410 CAN, DSE4410 MPU
DSE4420 CAN, DSE4420 MPU
DSE4510, DSE4510 NC, DSE4510 RT, DSE4510 RTH, DSE4510 MKII
DSE4520, DSE4520 NC, DSE4520 RT, DSE4520 RTH, DSE4520 A1, DSE4520 MKII
DSE4610, DSE4610 RTH
DSE4620, DSE4620 RTH
DSE6010 CAN, DSE6010 MPU, DSE6010 MKII
DSE6020 CAN, DSE6020 MPU, DSE6020 MKII
DSE6110 CAN, DSE6110 MPU, DSE6110 MKII
DSE6120 CAN, DSE6120 MPU, DSE6120 A3, DSE6120 MKII
DSE7110, DSE7110 MKII
DSE7120, DSE7120 MKII
DSE7210
DSE7220
DSE7310, DSE7310 MKII
DSE7320, DSE7320 MKII
DSE7410, DSE7410 MKII
DSE7420, DSE7420 MKII
DSE7450
DSE8610, DSE8610 MKI
DSE8620
DSE8660, DSE8660 MKII
DSE8710
DSE8760
DSE8810
DSE8860

3 GETTING STARTED

Launch a compatible internet browser and navigate to the website: ***www.dsewebnet.com*** to access the DSEWebNet Software.



3.1 REGISTERING AN ACCOUNT

3.1.1 ACCOUNT TYPES AND USES

3.1.1.1 USER ACCOUNT

A *User Account* is a quick and simple way for a single user to start and take control of DSE devices remotely.

A *User Account* is best suited to those who:

- Only have a small number of DSE devices to monitor
- Do not require all the additional features of the *Organisation Account*
- Needs to be registered under an *Organisation Account* to restrict their access.

3.1.1.2 ORGANISATION ACCOUNT

An *Organisation Account* is a simple way for an organisation or company manager to start and take control of DSE devices.

An *Organisation Account* is best suited to an organisation or company who:

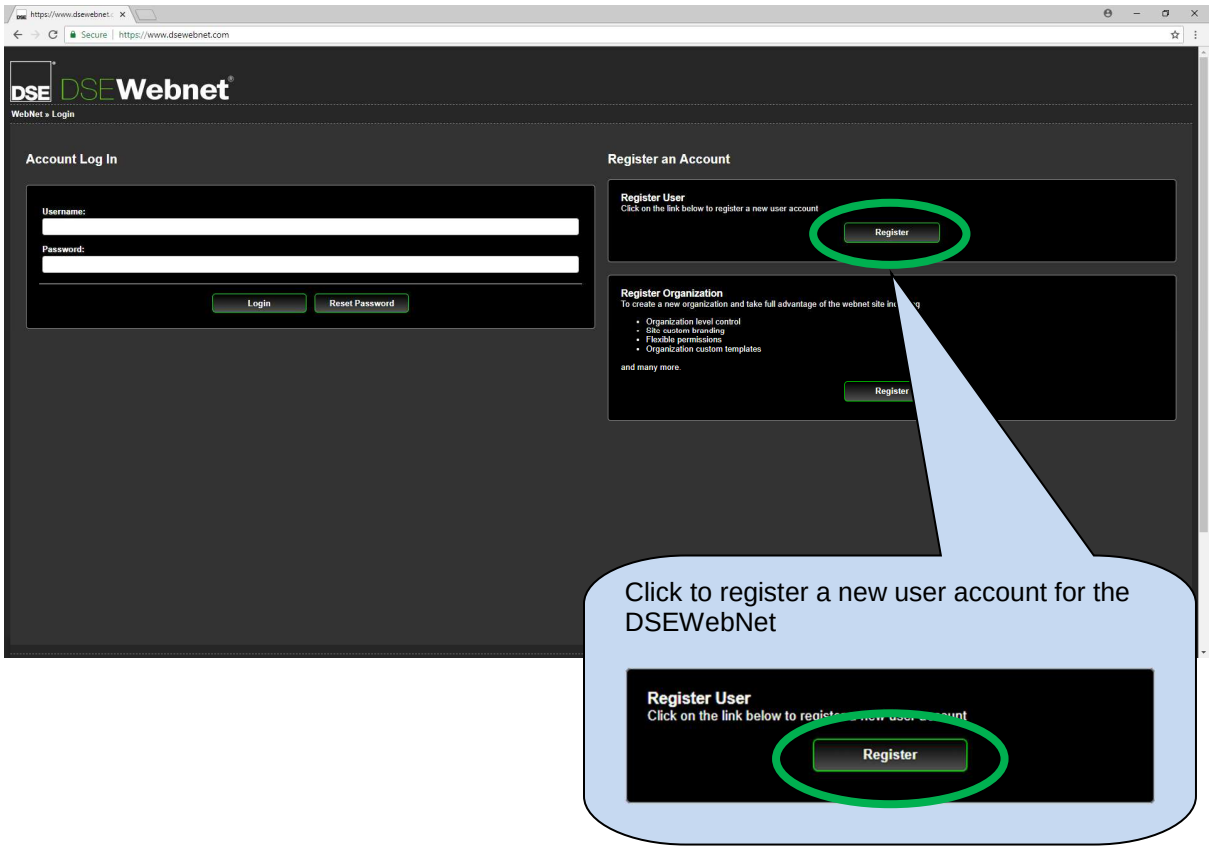
- Have a single user who wants to gain additional features.
- Have a number of DSE devices to monitor.
- Want to create access permissions to limit access for certain *User Accounts* registered to the organisation.

In addition to access permissions, an *Organisation Account* has the ability to use the following features:

- Geofencing
- Geotracking
- Sending reports and event triggers to multiple users
- Controlling multiple modules of the same type simultaneously
- Customisable graphical user interface
- Configurable module and site names

3.1.2 REGISTERING A USER ACCOUNT

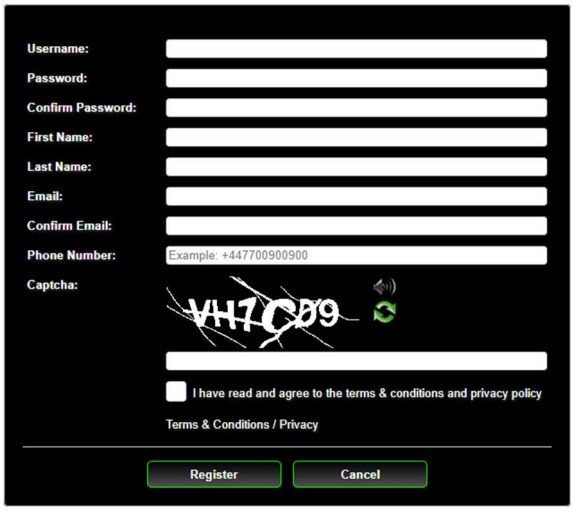
To register a new user account, click on *Register* in the *Register User* section located on the right hand side of the webpage, the registration form then appears.



3.1.2.1 NEW USER REGISTRATION FORM

NOTE: If the confirmation email for the DSEWebNet registration is not recieved, check the email's junk or spam email folder.

Once the registration form has been completed, click the *Register* button to complete. An email is sent to the new user's email address to confirm the registration. To cancel the registration, click the *Cancel* button.



Blank registration form

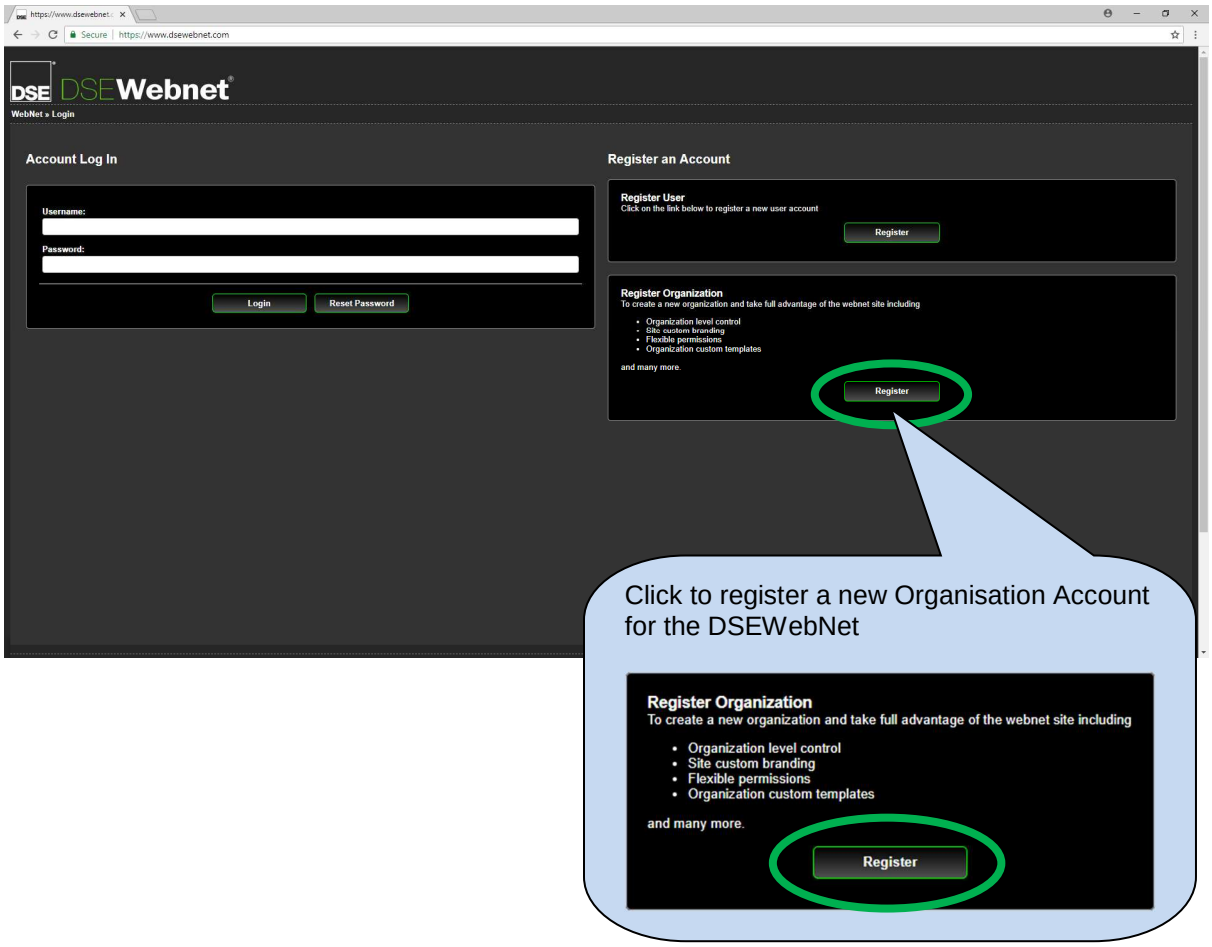


Example of a completed registration form

Field	Description
Username	Enter the desired username for the new user's account.
Password	**NOTE: This field is CASE SENSITIVE** Enter the desired password for the new user's account.
Confirm Password	**NOTE: This field is CASE SENSITIVE** Re-enter the desired password for confirmation
First Name	Enter the new user's first name
Last Name	Enter the new user's last name
Email	**NOTE: A registration confirmation email is sent to the email address entered, ensure the email address is valid.** Enter the new user's email address. This is the default address allocated to events triggers and reports when configured.
Confirm Email	Re-enter the new user's email address for confirmation
Phone Number	Enter the new user's mobile phone number with the country code. This is the default number allocated to web events when configured.
Captcha	**NOTE: This field is CASE SENSITIVE** Enter the text displayed in the image below.
	Click button to change the image if the text is not clear.
	Click button to enunciate the text in the image if it is not clear.

3.1.3 REGISTERING AN ORGANISATION ACCOUNT

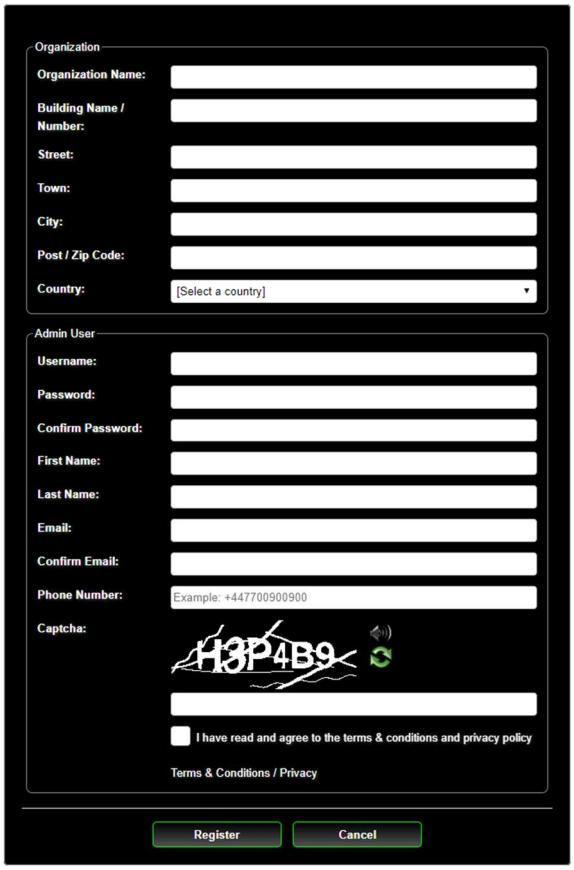
To register an organisation account, click on *Register* in the *Register Organisation* section located on the right hand side of the webpage, the registration form then appears.



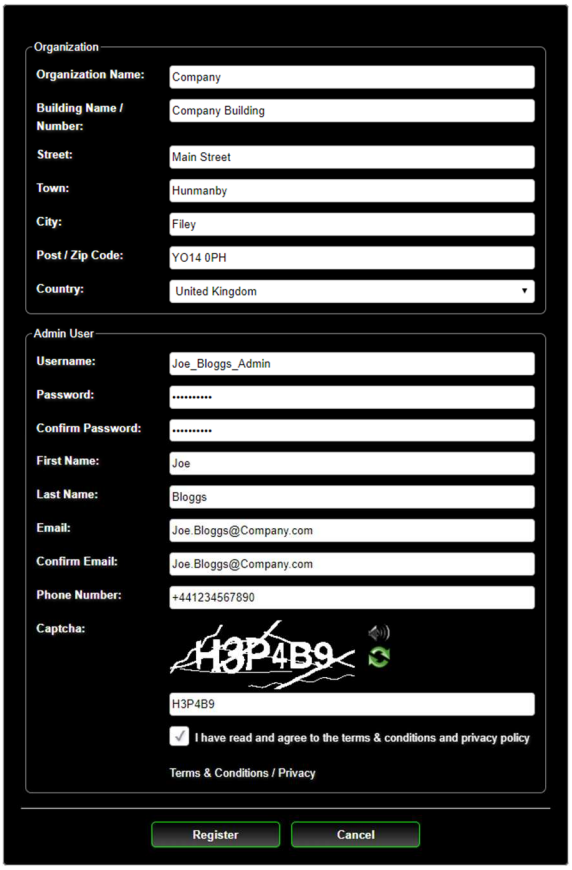
3.1.3.1 NEW ORGANISATION REGISTRATION FORM

NOTE: If the confirmation email for the DSEWebNet registration is not received, check the email's junk or spam email folder.

Once the registration form has been completed, click the *Register* button to complete. An email is sent to the organisation administrator's email address to confirm the registration. To cancel the registration, click the *Cancel* button.



Blank registration form



Example of a completed registration form

Organisation Details

Field	Description
Organisation Name	**NOTE: This field is CASE SENSITIVE** **NOTE: This name is used when a User Account requests to join the Organisation Account.** Enter the name of the organisation or company the account is for.
Building Name/Number	Enter the building name or number of the organisation or company.
Street	Enter the street the organisation or company is located on.
Town	Enter the town the organisation or company is located in.
City	Enter the city the organisation or company is located in.
Post/Zip Code	Enter the post or zip code of the organisation or company.
Country	Select the country the organisation or company is located in.

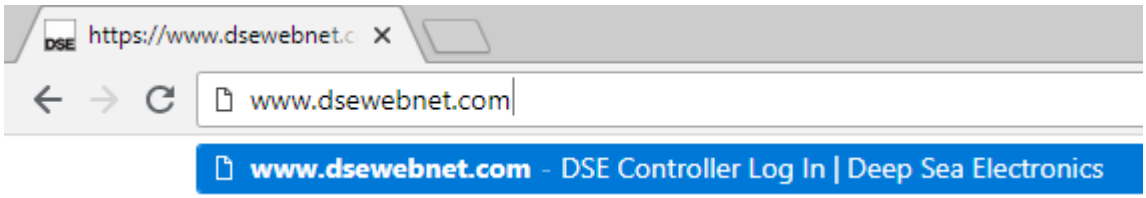
Organisation Administrator Account Details

Field	Description
Username	Enter the desired username for the organisation account.
Password	**NOTE: This field is CASE SENSITIVE**
	Enter the desired password for the organisation account.
Confirm Password	**NOTE: This field is CASE SENSITIVE**
	Re-enter the desired password for confirmation
First Name	Enter the organisation administrator's first name
Last Name	Enter the organisation administrator's last name
Email	**NOTE: A registration confirmation email is be sent to the email address entered, ensure the email address is valid.**
	Enter the organisation administrator's email address. This is the default address allocated to events triggers and reports when configured.
Confirm Email	Re-enter the organisation administrator's email address for confirmation
Phone Number	Enter the organisation administrator's mobile phone number with the country code. This is the default number allocated to web events when configured.
Captcha	**NOTE: This field is CASE SENSITIVE**
	Enter the text displayed in the image below.
	Click button to change the image if the text is not clear.
	Click button to enunciate the text in the image if it is not clear.

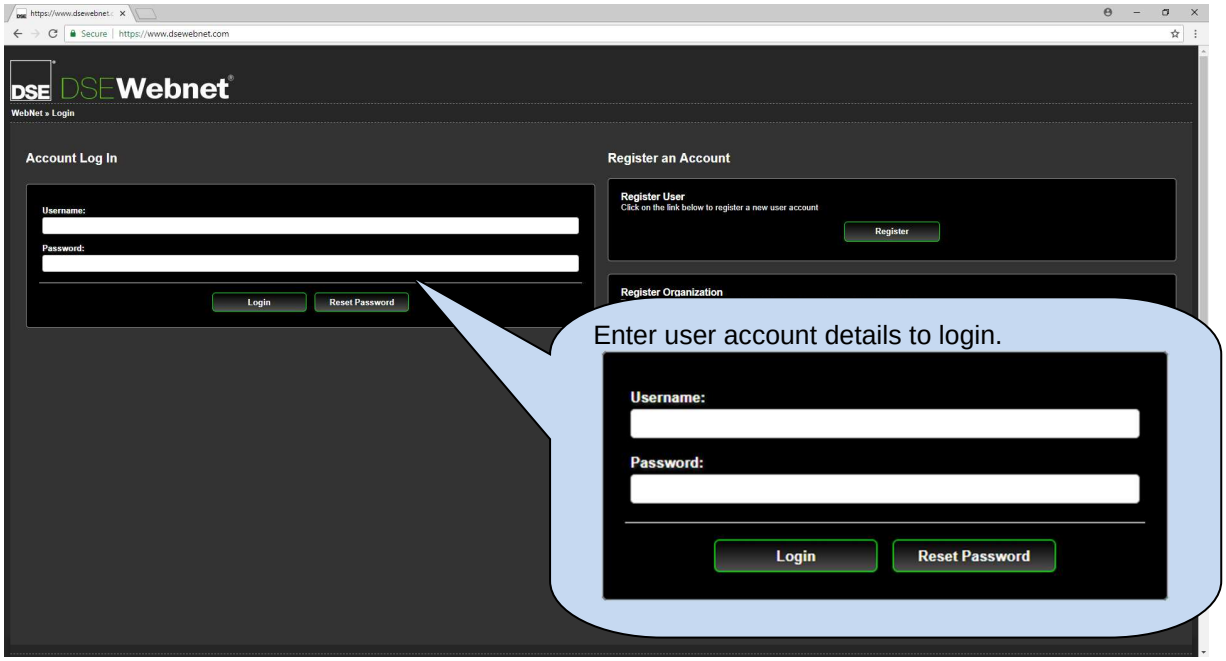
3.2 LOGGING IN

NOTE: To log in to the DSEWebNet, a user account is required. To register an account, refer to the section '*Registering an Account*' elsewhere in this document.

Launch a compatible internet browser and navigate to the website: ***www.dsewebnet.com*** to access the DSEWebNet Software.



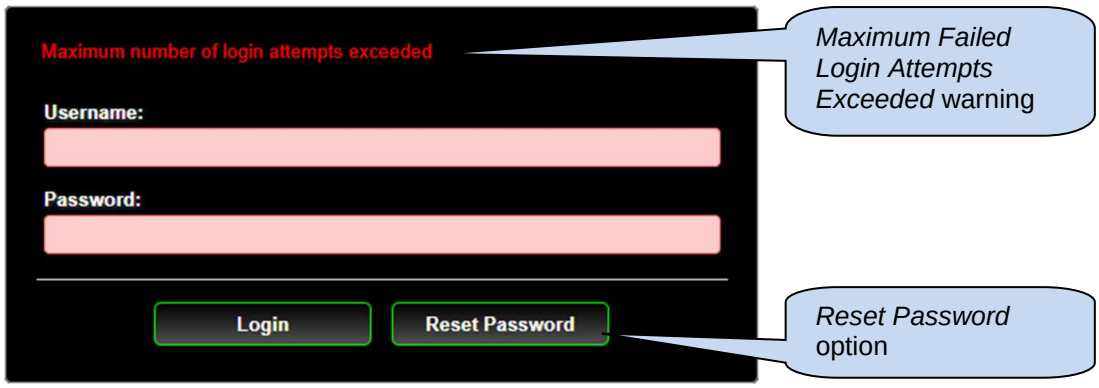
To login, type the registered account details into the *Account Login* section. This is located on the left hand side of the webpage.



Field	Description
Username	Enter the username of the registered account
Password	**NOTE: This field is CASE SENSITIVE** Enter the password of the registered account
Reset Password	**NOTE: If the password retrieval email is not received, check the email's junk or spam email folder.** To retrieve a forgotten or lost password, click the *Reset Password* button. Enter the username of the account and the captcha, then click *Reset Password*. A new password is sent to the registered email address for that account.

3.2.1 MAXIMUM FAILED LOGIN ATTEMPTS EXCEEDED

If the user's password is entered incorrectly three times, the account is locked and the password must be reset. To reset the user's password, click on the *Reset Password* option in the *Account Login* section located on the left hand side of the webpage. This sends a new password to the registered email address for that account. If the reset password email is not received, check the email's junk or spam email folder.

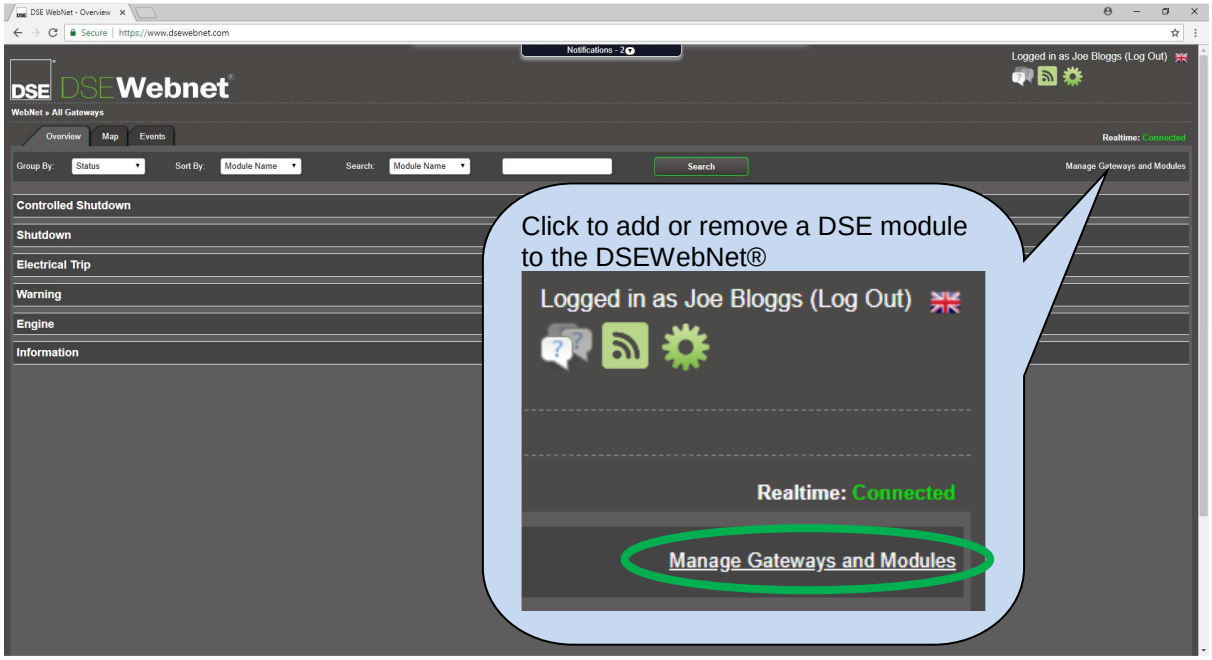


3.3 CONFIGURING THE SYSTEM

3.3.1 ADDING OR REMOVING A SITE (DSEGATEWAY)

NOTE: To add a DSEGateway to the DSEWebNet, the DSEGateway MUST have been connected to the configured DSE Controllers and the internet by an Ethernet or GPRS/GSM connection at least once.

Upon first login, the user is presented with a 'blank' account with no DSEGateway Devices configured. To add or remove a DSEGateway to the account, click on *Manage Gateways and Modules* located on the top right hand corner of the webpage. The *Devices* section of the *Account Settings* is opened.

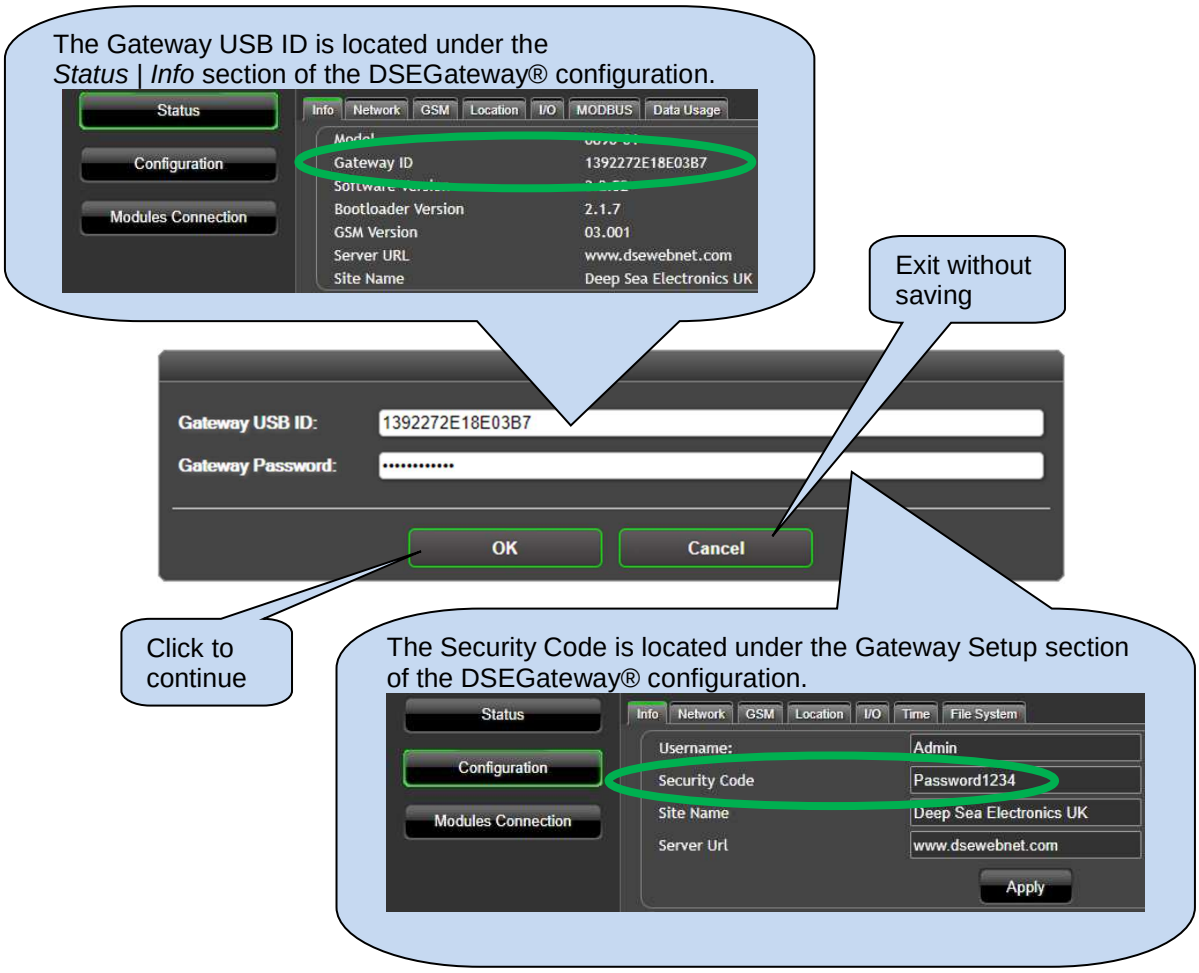


To add a DSEGateway to the account, click the *Plus* button located on the top right hand corner of the webpage. The *Add New Gateway* option is opened.

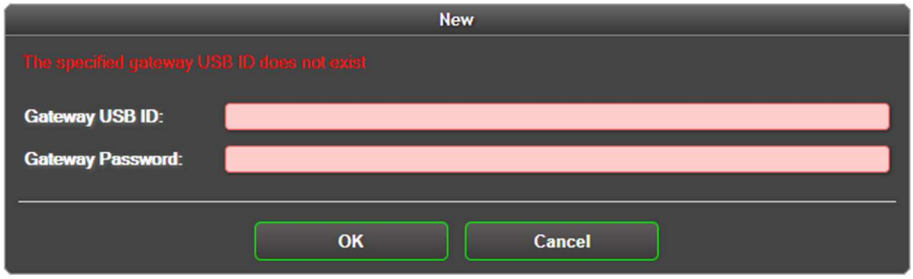


NOTE: For information with regards to the set up of the DSEGateway, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on the DSE website: *www.deepseaplc.com*

To add a DSEGateway to the user's account, the *Gateway USB ID* and *Security Code* are required. This information is located in the DSEGateway configuration screens.



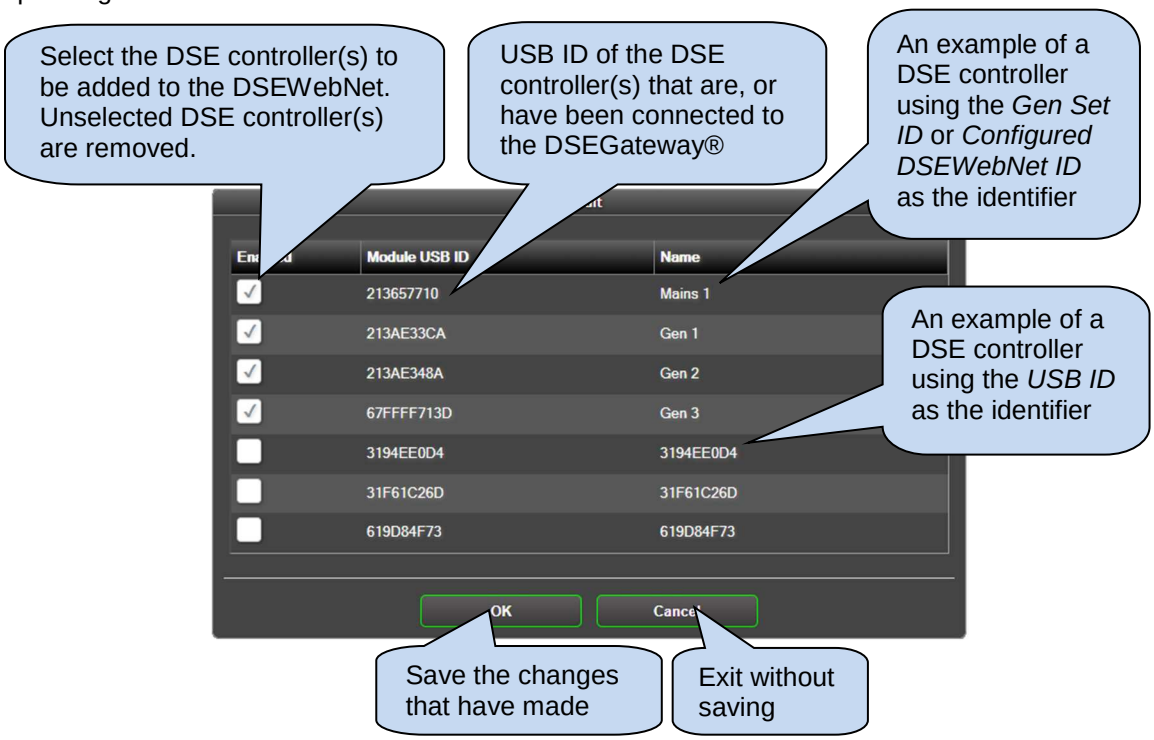
If the DSEGateway being added to the user account has not been connected to the internet at least once, the below error message appears. Check to ensure that the DSEGateway is connected to the internet by ensuring the LINK LED is green on the DSEGateway.



3.3.2 ADDING OR REMOVING A DSE CONTROLLER FROM A SITE

NOTE: For more information, refer to DSE publication: 057-151 DSE Configuration Suite PC Software Installation & Operation Manual located on our website: www.deepseaplc.com

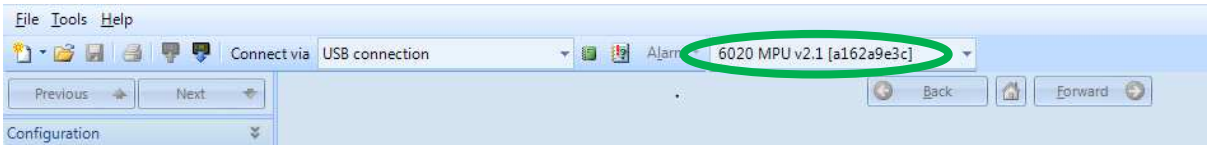
The DSE controllers available to be added to the DSEWebNet are displayed. To identify the DSE controller, the DSEWebNet uses the controller's *Gen Set ID*, *USB ID* or *Configured DSEWebNet ID* depending on what is available.



The DSE controller's *Gen Set ID* is found using the DSE Configuration Suite PC Software. Refer to the DSE Controller's Software Manual for further details.

The DSE controller's *Configured DSEWebNet Site/Set Alias* is found using the *Admin* section of the DSEWebNet. Refer to the section entitled *Admin* elsewhere in this manual for further details.

The DSE controller's *USB ID* is found using the DSE Configuration Suite PC Software as shown below.

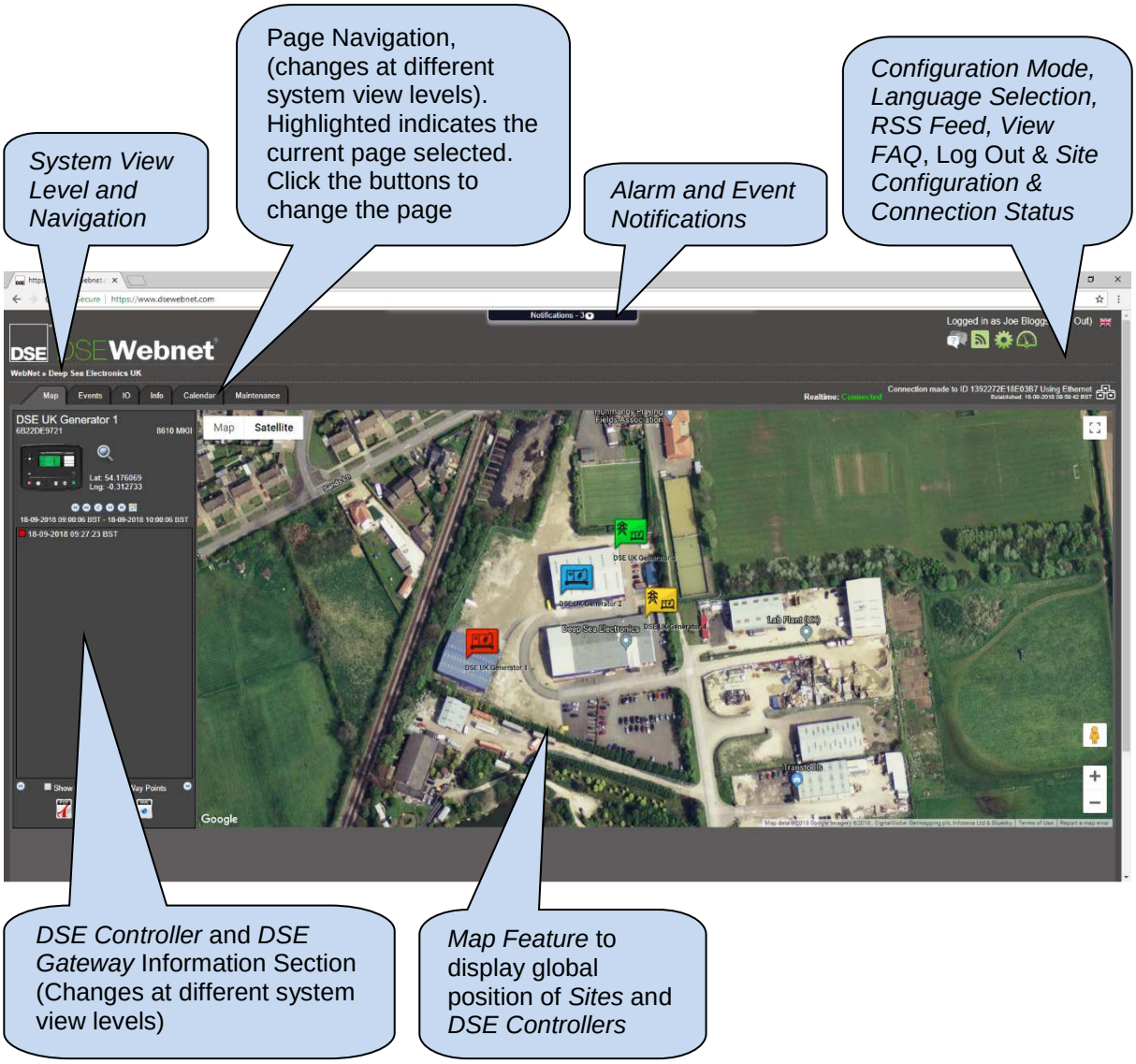


4 OPERATING DSEWEBNET

4.1 SYSTEM OVERVIEW

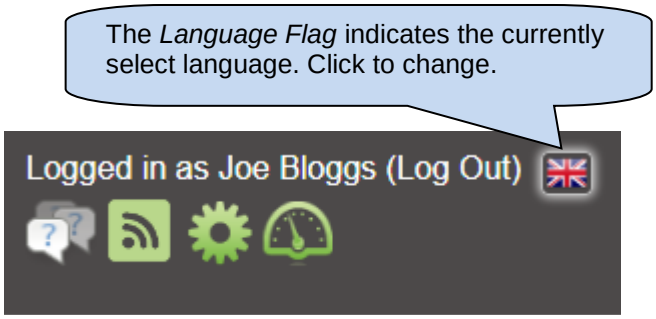
The image below shows an example of a DSEWebNet system monitoring three different sites with multiple generators connected to each one. See subsequent sections for more details on the features highlighted below.

NOTE: Depending which *System View Level* the user has selected, certain areas of the webpage layout change.



4.2 LANGUAGE SELECTION

Multiple languages are selectable when using the DSEWebNet. The default is set by the *User Account* settings though it is changeable whilst using the DSEWebNet by clicking on the *Language Flag*.



4.3 CONFIGURATION MODE

NOTE: Depending upon access restrictions set by the *Organisation Administrator,* some options and sections may not be accessible by the user.

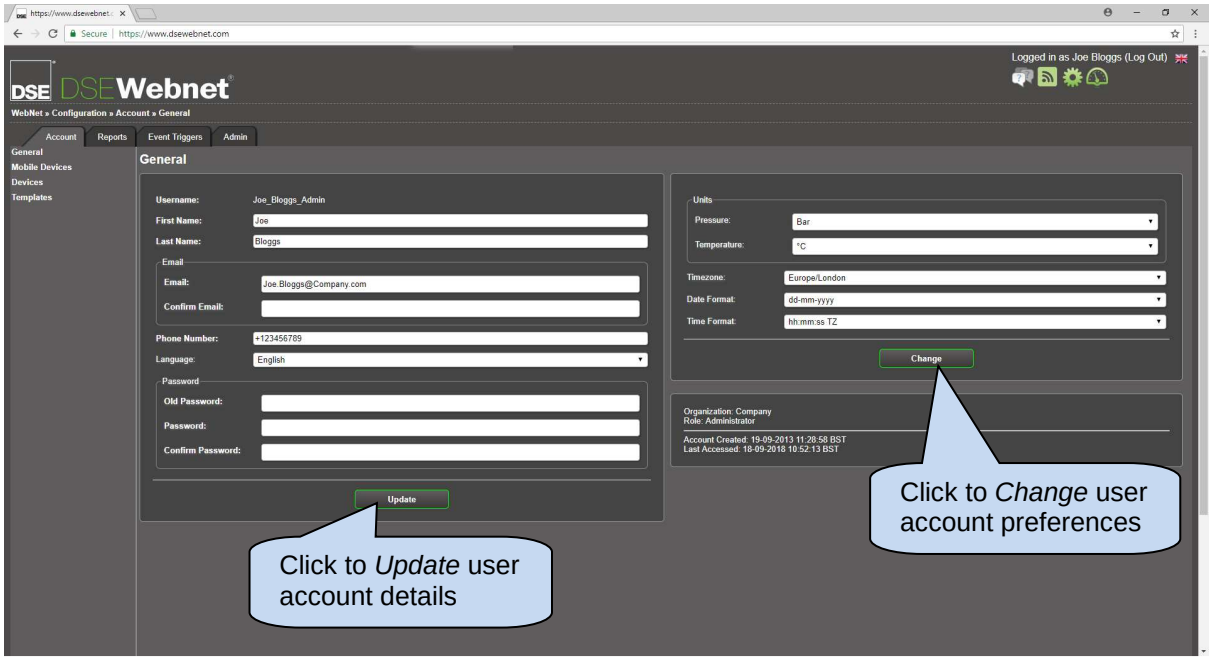
The *Configuration Mode* is entered by clicking on the cog icon in the top right hand corner of the webpage.

To exit the *Configuration Mode*, use the *System View Level and Navigation* section in the top left hand corner of the webpage.

4.3.1 ACCOUNT

4.3.1.1 GENERAL

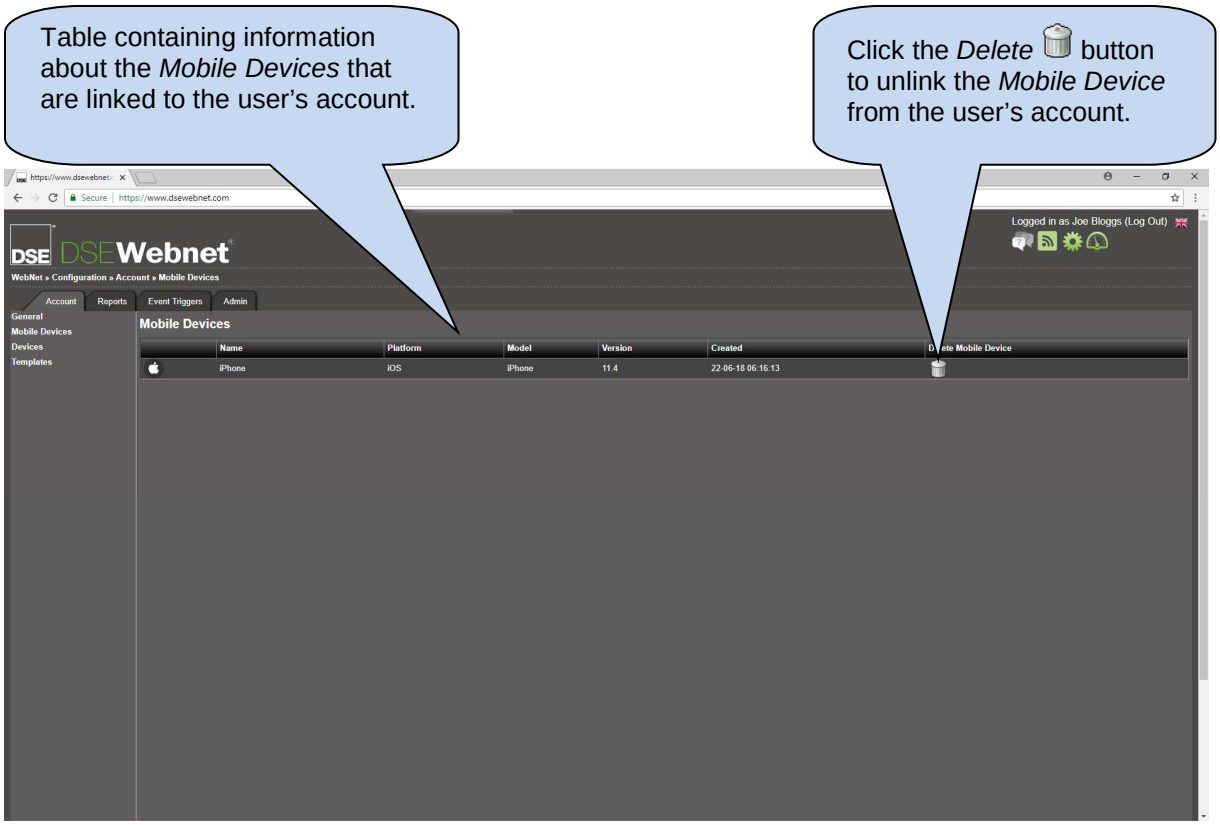
The user's account information may be edited if the information provided at registration was incorrect or has changed.



Field	Description
Username	The username of the account being edited.
First name	The user's first name
Last name	The user's last name
E-Mail	The user's email address. This is the default email address allocated to web events when configured. The email address is also used to send a new password when requested.
Confirm E-Mail	If changing the email address, re-enter for confirmation.
Phone Number	The user's mobile (cell) phone number with the country code. This is the default number allocated to web events when configured.
Language	The default language the DSEWebNet displays
Old Password	If changing the password, enter the existing password.
Password	If changing the password, enter the new desired password
Confirm Password	If changing the password, re-enter the new desired password
Pressure	The default unit of pressure the DSEWebNet displays
Temperature	The default unit of temperature the DSEWebNet displays
Timezone	The default time zone the DSEWebNet displays all notifications in
Date Format	The default date format the DSEWebNet displays all notifications in
Time Format	The default time format the DSEWebNet displays all notifications in
Organisation	The name of the organisation the user is registered to
Role	The user's role within the organisation
Account Created	The date and time the user's account was created
Account Accessed	The date and time the last time user's account logged in

4.3.1.2 MOBILE DEVICES

The *Mobile Devices* section shows a list of the mobile devices (such as smart phones or tablet devices) that are linked to the user's account. A mobile device is linked to a user's account when it was used the to login to the DSEWebNet App. A mobile device can only be linked to one user account as it instructs the DSEWebNet to send notifications to that mobile device about the *DSE Gateways* and *DSE Controllers* configured on the user's account.



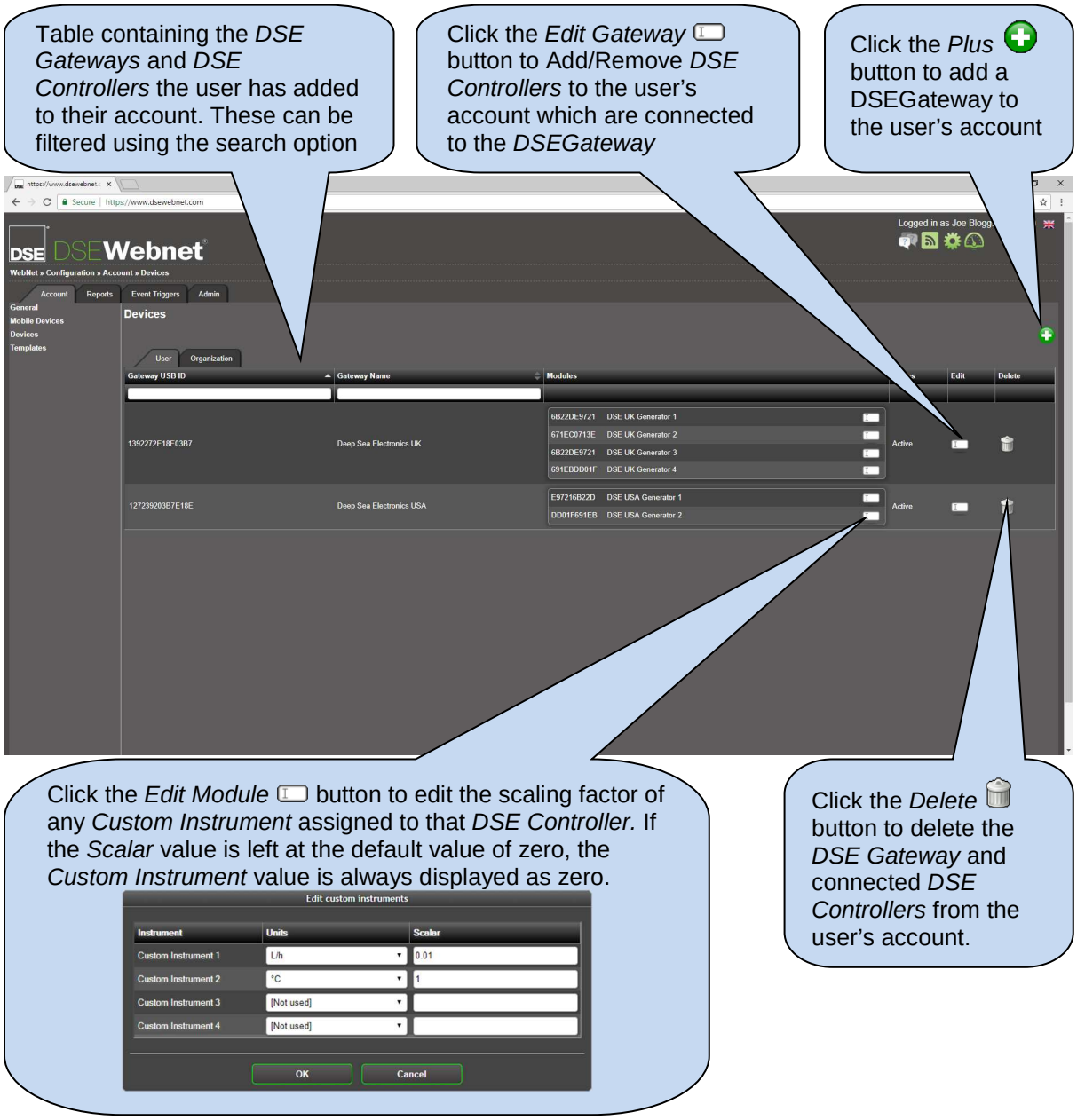
4.3.1.3 DEVICES

The *Device* section shows a list of the *DSE Gateway* and *DSE Controllers* that are viewable on the user's account. The *DSE Gateway* and *DSE Controllers* can be added to the user's account by the *User* them self, or forced to the user by their *Organisation*. To show how the *DSE Gateway* and *DSE Controllers* were added, the *Device* section is split to into a *User* and *Organisation* section.

User

NOTE: For more detailed instructions on how to add a DSE Gateway or DSE Controller to a user's account, refer to the section '*Configuring the System*' elsewhere in this document.

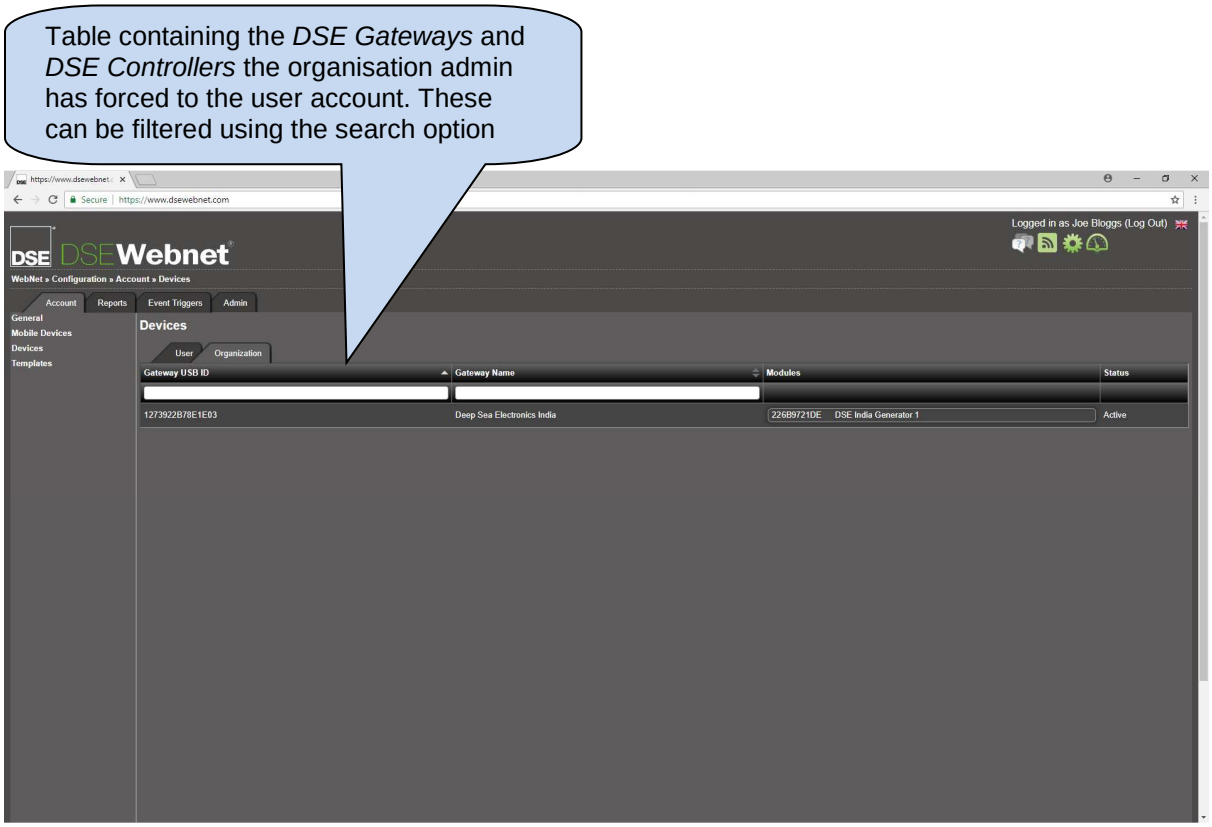
The *User* section shows the *DSE Gateway* and *DSE Controllers* that have been added to the account by the user, in addition to allowing the user to add/remove *DSE Gateways* and *DSE Controllers.* To add a DSEGateway to the account, click the *Plus* button located on the top right hand corner of the webpage. The *Add New Gateway* option is opened.



Organisation

NOTE: For more detailed instructions on how an organisation admin account forces a DSE Gateway or DSE Controller to a user's account, refer to the section '*Configuring the System'* elsewhere in this document.

The *Organisation* section shows the *DSE Gateway* and *DSE Controllers* that have been forced to the user's account by their organisation administrator. It is not possible for the user to add or remove *Organisation Devices,* only organisation administrators are able to do this in the *Admin* section.



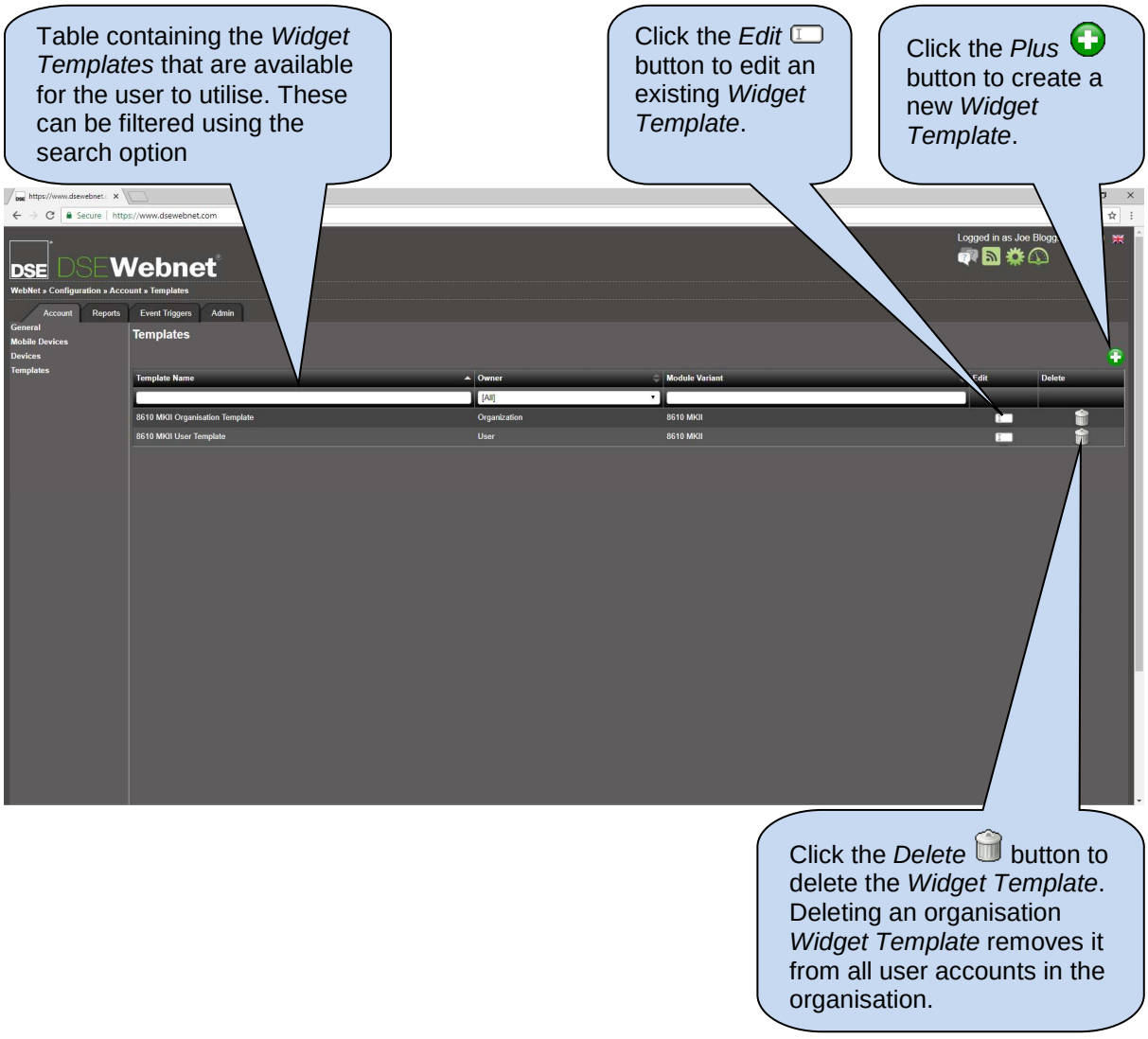
4.3.1.4 TEMPLATES

NOTE: For more detailed instructions on how an organisation admin account forces a DSE Gateway or DSE Controller to a user's account, refer to the section '*Configuring the System'* elsewhere in this document.

NOTE: For more information on how to add a *Widget Template* refer to section entitled *Widget Templates* elsewhere in this document.

The *Templates* section shows the *Widget Template* that have created by the user or forced to them by the organisation administrator. The *Widget Templates* allow the user to edit the graphical user interface of the *DSE Controller View Level* by adding, editing and removing pages and the information displayed on them.

To create a new *Widget Template*, click the *Plus* button located on the top right hand corner of the webpage. The *Widget Template Editor* option is opened. The user is requested to set the *Widget Template* for the *User* or *Organisation* upon saving.



4.3.2 REPORTS

NOTE: A Report only operates if the *DSE Controller* supports the instrument and related alarms selected. Refer to the DSE Controller's Operators Manual for further details.

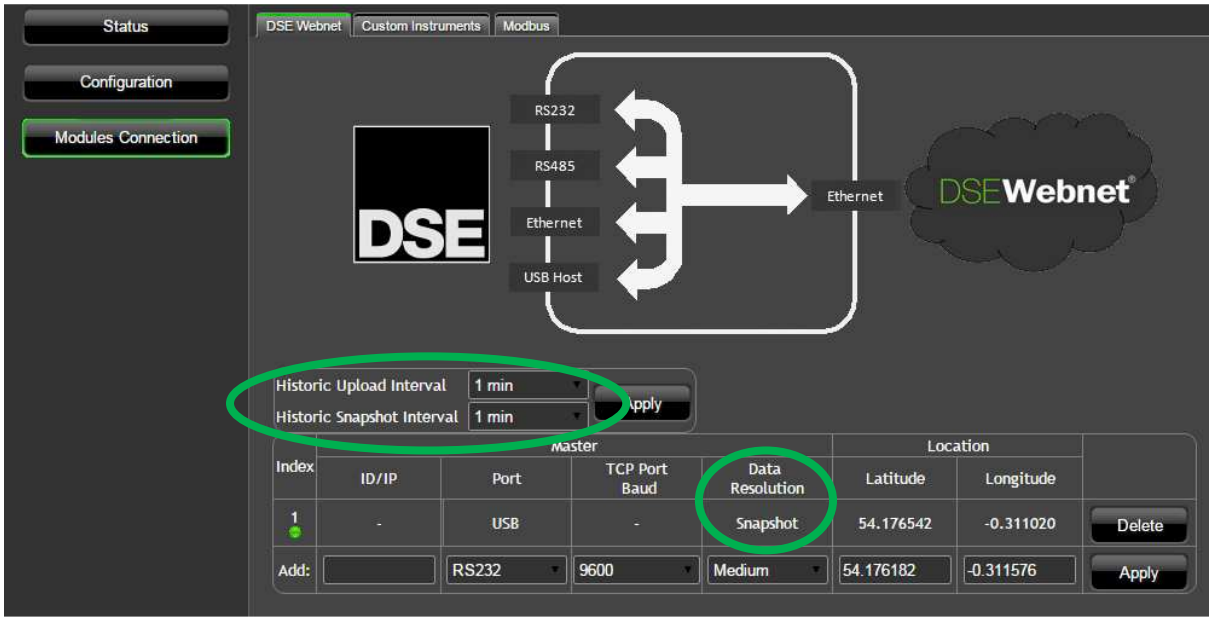
NOTE: A Report only displays the previous month's worth of data at a maximum.

It is possible to configure the DSEWebNet to send an email containing a report on a certain DSE Controller's instruments or events automatically at configurable intervals. Reports are configured per user account only.

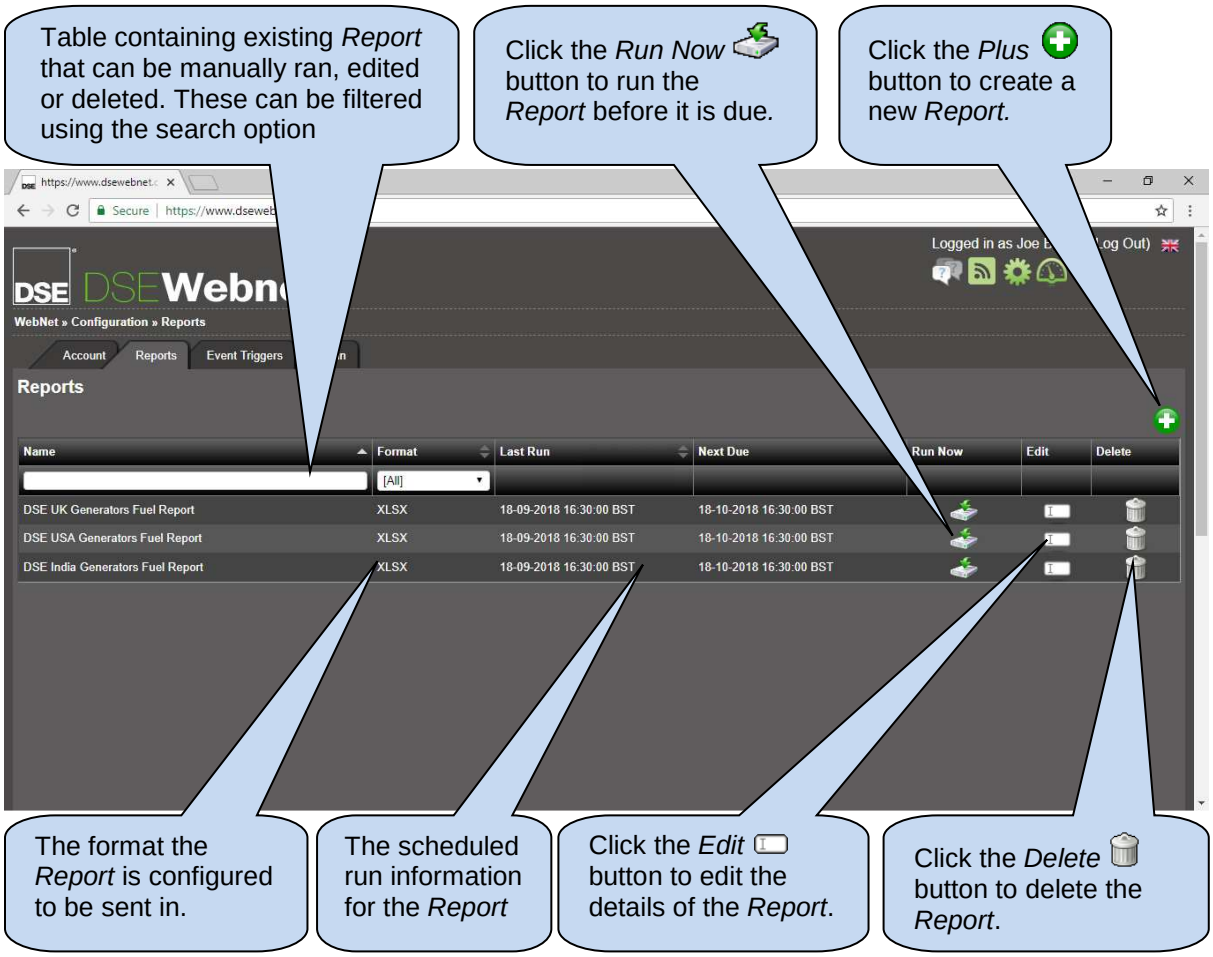
NOTE: For information with regards to the set up of the DSEGateway, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on the DSE website: *www.deepseaplc.com*

The data used to create a report is uploaded to the DSEWebNet server at an interval configured in the DSEGateway. If the *Historic Upload Interval* has been disabled, the *Reports* do not contain any information. The resolution of the data used in the *Reports* is also configured in the DSEGateway.

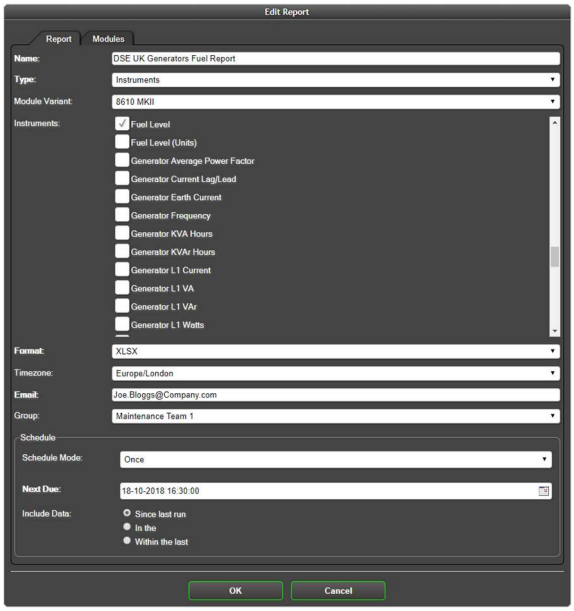
The method used to populate the *Reports* with data changes depending up the *Data Resolution* configured. When set to *High, Medium or Low*, data is only uploaded and reported if it has changed since the last upload. For example, if the fuel level of a generator does not change, no information is uploaded leading to an empty report. When set to *Snapshot*, data is uploaded and reported even if it has not changed since the last upload. For example, if the fuel level of a generator does not change, the report is full showing the fuel level has stayed constant.

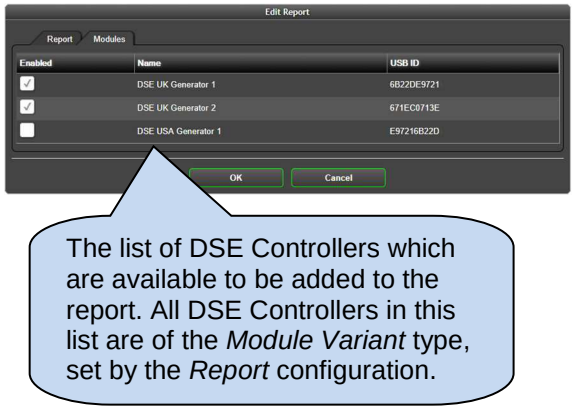


To create a new report, click the *Plus* button in the top right hand corner of the webpage. To run, editor or delete an existing report, click the appropriate button from the table in the middle of the webpage for the report entry.



Below is an example of a configured report. The E-mail is automatically populated using the user's account details.





Parameter	Description
Name	The name of the report that is used to identify it.
Type	***Event:*** The report is based on *Events* from the selected DSE Controller's *Event Log*. ***Engine Hours:*** The report displays the current engine hours from the selected DSE Controllers ***Instruments:*** The report is based on *Instrumentation* from the selected DSE Controller.
Module Variant	The type of DSE Controller that the report is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Instruments	Select the parameters (maximum 5) the report is to be based upon.
Report Format	***CSV =*** The report generated is in a .csv format. ***PDF =*** The report generated is in a .pdf format. ***XLS =*** The report generated is in a .xls format. ***XML =*** The report generated is in a .xml format.
Time Zone	Select the time zone the report uses as a time stamp against all data.
E-mail	The email is sent from the DSEWebNet server to the configured *Email* address upon the report running. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Schedule Mode	***Not Scheduled =*** The report is only ran manually. ***Once =*** The report is only ran once. ***Hourly =*** The report is ran based on an hourly period. ***Daily =*** The report is ran based on a daily period. ***Weekly =*** The report is ran based on a weekly period. ***Monthly =*** The report is ran based on a monthly period.

Once



Parameter	Description
Start	The date and time at which the first report is to be created.
Include Data	⊙ ***Since Last Run:*** Includes all new data since the report was last ran. ⊙ ***In the:*** ***Current Week (Mon-Sun):*** Includes all data from the current calendar week. ***Previous Week (Mon-Sun):*** Includes all data from the previous calendar week. ***Current Calendar Month:*** Includes all data from the current calendar month. ***Previous Calendar Month:*** Includes all data from the previous calendar month. ⊙ ***Within The Last:*** ***Hours:*** Includes all data from the number of selected hours. ***Days:*** Includes all data from the number of selected days. ***Weeks:*** Includes all data from the number of selected weeks.

Hourly



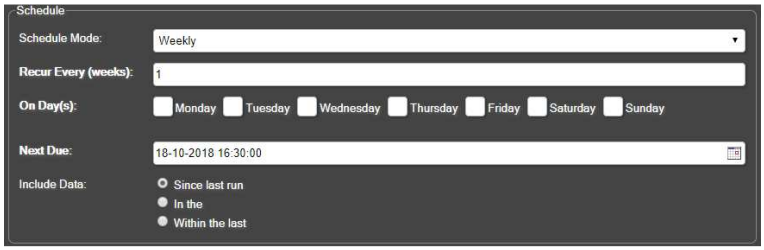
Parameter	Description
Start	The date and time at which the first report is to be created. ⊙ ***Recur:*** Report recurs at the hourly interval configured. ⊙ ***On Hour(s):*** Report recurs on the selected hours of the day.
Include Data	⊙ ***Since Last Run:*** Includes all new data since the report was last ran. ⊙ ***In the:*** ***Current Week (Mon-Sun):*** Includes all data from the current calendar week. ***Previous Week (Mon-Sun):*** Includes all data from the previous calendar week. ***Current Calendar Month:*** Includes all data from the current calendar month. ***Previous Calendar Month:*** Includes all data from the previous calendar month. ⊙ ***Within The Last:*** ***Hours:*** Includes all data from the number of selected hours. ***Days:*** Includes all data from the number of selected days. ***Weeks:*** Includes all data from the number of selected weeks.

Daily



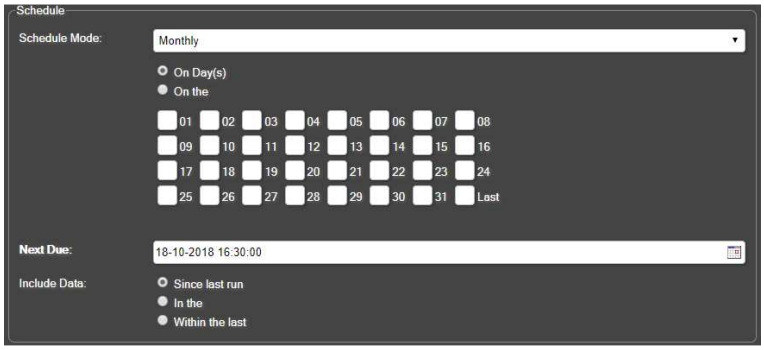
Parameter	Description
Start	The date and time at which the first report is to be created and the recurrence interval in days.
Include Data	⊙ ***Since Last Run:*** Includes all new data since the report was last ran. ⊙ ***In the:*** ***Current Week (Mon-Sun):*** Includes all data from the current calendar week. ***Previous Week (Mon-Sun):*** Includes all data from the previous calendar week. ***Current Calendar Month:*** Includes all data from the current calendar month. ***Previous Calendar Month:*** Includes all data from the previous calendar month. ⊙ ***Within The Last:*** ***Hours:*** Includes all data from the number of selected hours. ***Days:*** Includes all data from the number of selected days. ***Weeks:*** Includes all data from the number of selected weeks.

Weekly



Parameter	Description
Start	The date and time at which the first report is to be created and the recurrence interval in weeks. ☑ **Monday =** Report recurs at the weekly interval configured on a Monday. ☑ **Tuesday =** Report recurs at the weekly interval configured on a Tuesday. ☑ **Wednesday =** Report recurs at the weekly interval configured on a Wednesday. ☑ **Thursday =** Report recurs at the weekly interval configured on a Thursday. ☑ **Friday =** Report recurs at the weekly interval configured on a Friday. ☑ **Saturday =** Report recurs at the weekly interval configured on a Saturday. ☑ **Sunday =** Report recurs at the weekly interval configured on a Sunday.
Include Data	⊙ ***Since Last Run:*** Includes all new data since the report was last ran. ⊙ ***In the:*** ***Current Week (Mon-Sun):*** Includes all data from the current calendar week. ***Previous Week (Mon-Sun):*** Includes all data from the previous calendar week. ***Current Calendar Month:*** Includes all data from the current calendar month. ***Previous Calendar Month:*** Includes all data from the previous calendar month. ⊙ ***Within The Last:*** ***Hours:*** Includes all data from the number of selected hours. ***Days:*** Includes all data from the number of selected days. ***Weeks:*** Includes all data from the number of selected weeks.

Monthly



Parameter	Description
Start	The date and time at which the first report is to be created and the recurrence interval in weeks. ⊙ ***On Days:*** Report runs on the days of the month selected. ⊙ ***On The:*** Report runs on the *First/Second/Third/Fourth/Last Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Sunday* of the month
Include Data	⊙ ***Since Last Run:*** Includes all new data since the report was last ran. ⊙ ***In the:*** ***Current Week (Mon-Sun):*** Includes all data from the current calendar week. ***Previous Week (Mon-Sun):*** Includes all data from the previous calendar week. ***Current Calendar Month:*** Includes all data from the current calendar month. ***Previous Calendar Month:*** Includes all data from the previous calendar month. ⊙ ***Within The Last:*** ***Hours:*** Includes all data from the number of selected hours. ***Days:*** Includes all data from the number of selected days. ***Weeks:*** Includes all data from the number of selected weeks.

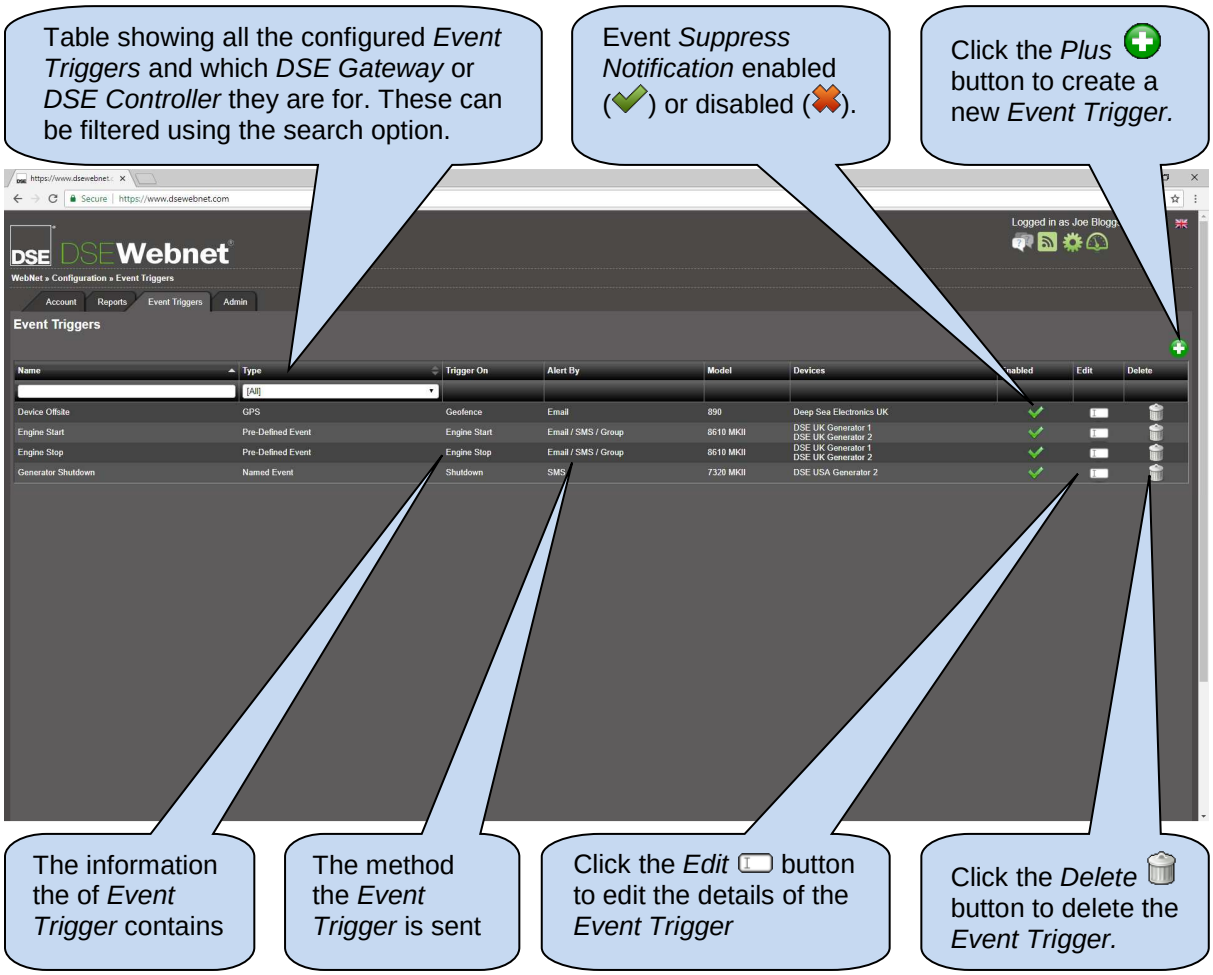
4.3.3 EVENT TRIGGERS (EMAIL AND SMS MESSAGES)

NOTE: An Event Trigger only activates if the DSE Controller's event log supports the Event Type used. Refer to the DSE Controller's Operators Manual for further details.

NOTE: SMS is only applicable when a DSE890 3G Gateway is used and fitted with a suitable SIM card.

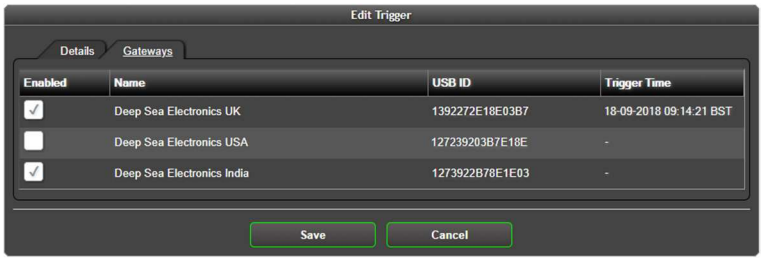
The DSEWebNet can be configured to send an email and or SMS upon a new event being logged in the DSE Controller's event log. Event Triggers are configured per user account only.

To create a new event trigger, click the *Plus* button in the top right hand corner of the webpage. Existing event triggers are editable by clicking the *Edit* button for that specific *Event Trigger*. There are two categories of event triggers, one for *DSE Gateways* and another for *DSE Controllers*.



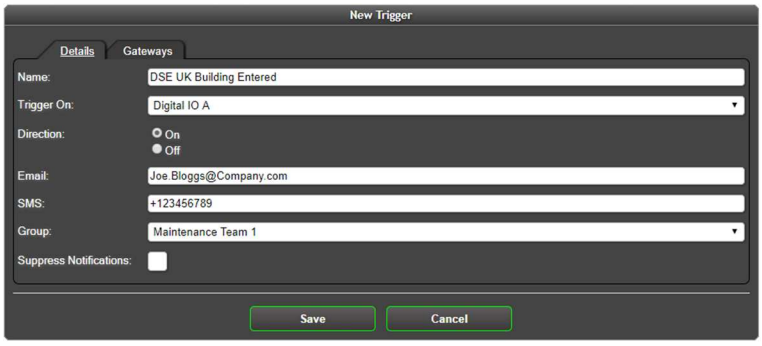
4.3.3.1 GATEWAY TRIGGER

There multiple event trigger types for *DSE Gateways*, each of which is detailed below. The list of DSE Gateways which are available to be added to the event trigger is based on the DSE Gateways added to the user's account.



Gateway I/O

A Gateway I/O Event Trigger activates when one of DSEGateways's digital input/outputs has changed state.

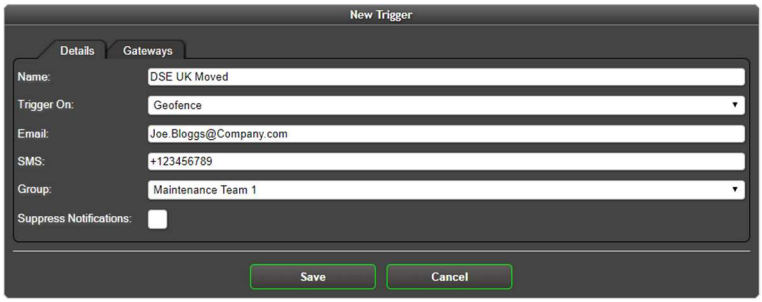


Parameter	Description
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	The DSEGateway's digital input/output used to operate the event trigger.
Direction	⊙ ***On:*** Event Trigger activates if the selected DSEGateway's digital input/output activates. ⊙ ***Off:*** Event Trigger activates if the selected DSEGateway's digital input/output de-activates.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

GPS

NOTE: For more detailed instructions on how an organisation admin account forces a DSE Gateway or DSE Controller to a user's account, refer to the section '*Configuring the System'* elsewhere in this document.

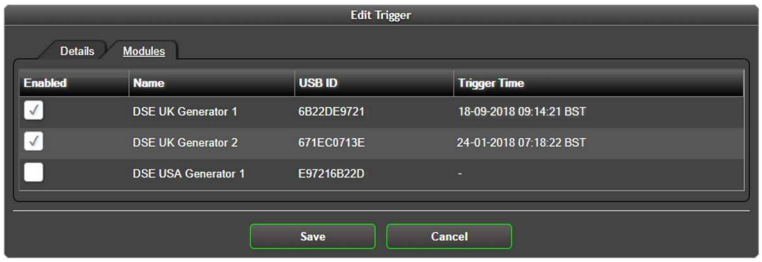
A GPS Event Trigger activates when the DSEGateway's location has changed.



Parameter	Description
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	***Geofence:*** Event Trigger activates if the DSEGateway moves outside or into the configured Geofence area. ***Location Changed:*** Event Trigger activates if the DSEGateway has moved by more than 4 km. The event trigger is only sent once every 30 minutes.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

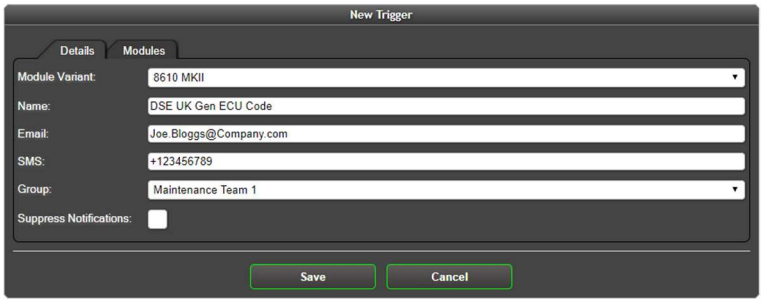
4.3.3.2 MODULE TRIGGER

There multiple event trigger types for *DSE Controllers*, each of which is detailed below. The list of DSE Controllers which are available to be added to the event trigger is based on the *Module Variant* selected in the *Event Trigger.*



ECU Code

An ECU Code Event Trigger activates when the DSE Controller's event log has recorded a fault detected by the ECU.

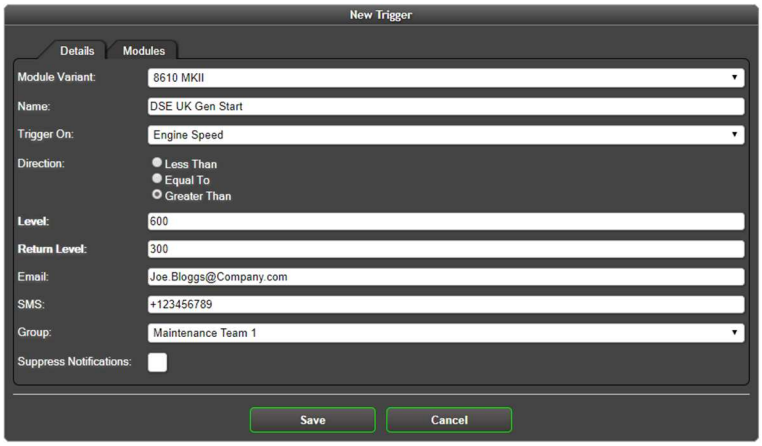


Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

Instrument

NOTE: To use the *Instrument Event Trigger* feature, the DSEGateway device must be configured to upload historic data at a suitable interval. Refer to DSE Publication: *057-165 DSE890 & DSE891 Operators Manual* for further details.

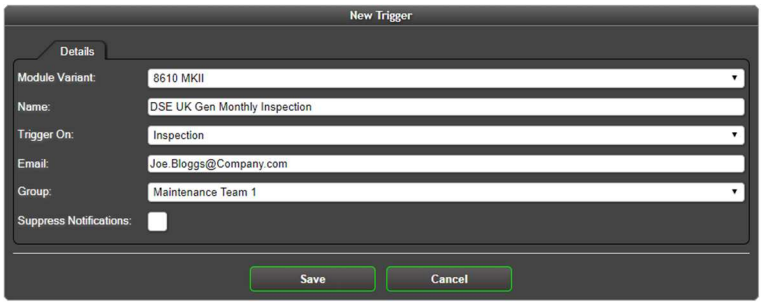
An Instrument Event Trigger activates when the DSE Controller's measures an instrument varying outside of a configured range.

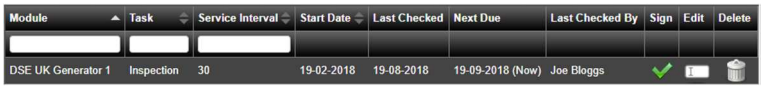


Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	**NOTE: An Instrumentation Event Trigger only activates if the DSE Controller supports the instrument used. Refer to the DSE Controller's Operators Manual for further details.** The instrument used to operate the event trigger.
Direction	⊙ ***Less Than*** **=** The event trigger activates when the selected *Trigger On* instrument falls below the configured *Trigger Level*. ⊙ ***Equal To*** **=** The event trigger activates when the selected *Trigger On* instrument equals the configured *Trigger Level*. ⊙ ***Greater Than*** **=** The event trigger activates when the selected *Trigger On* instrument rises above the configured *Trigger Level*.
Level	The event trigger activates at the value of the *Trigger On* instrument.
Return Level	The event trigger de-activates at the value of the *Trigger On* instrument.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ **=** The event trigger is sent via an email and SMS to the user and group. ☑ **=** The event trigger is not sent via an email and SMS to the user and group.

Maintenance

A Maintenance Event Trigger activates when the DSEWebNet detects that a Maintenance Event has been configured using the *Maintenance* section and is due.

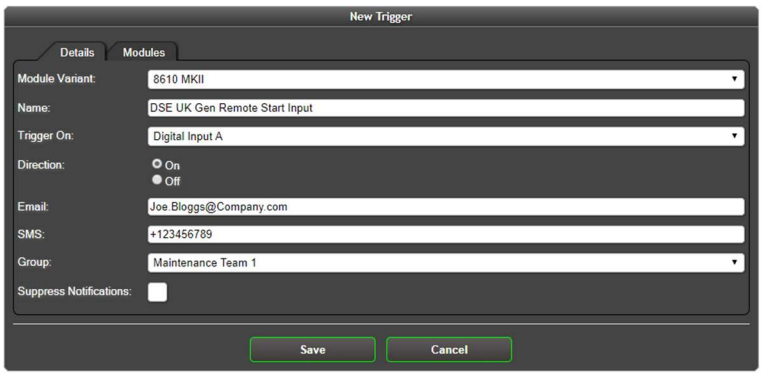




Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	**NOTE: Maintenance Events only appear when configured. Refer to the sections entitled *Maintenance* elsewhere in this manuals for further details.** The Maintenance Event configured on the DSEWebNet used to operate the event trigger.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

Module Digital Input

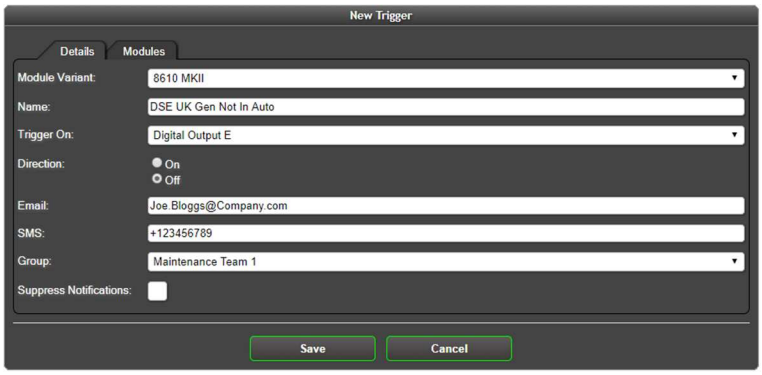
A Digital Input Event Trigger activates when one of DSE Controller's digital inputs has changed state.



Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	**NOTE: A Digital Input Event Trigger only activates if the DSE Controller has the digital input used. Refer to the DSE Controller's Operators Manual for further details.** The DSE Controller's digital input used to operate the event trigger.
Direction	⊙ ***On*** **=** Event Trigger activates if the selected DSE Controller's digital input activates. ⊙ ***Off*** **=** Event Trigger activates if the selected DSE Controller's digital input de-activates.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ **=** The event trigger is sent via an email and SMS to the user and group. ☑ **=** The event trigger is not sent via an email and SMS to the user and group.

Module Digital Output

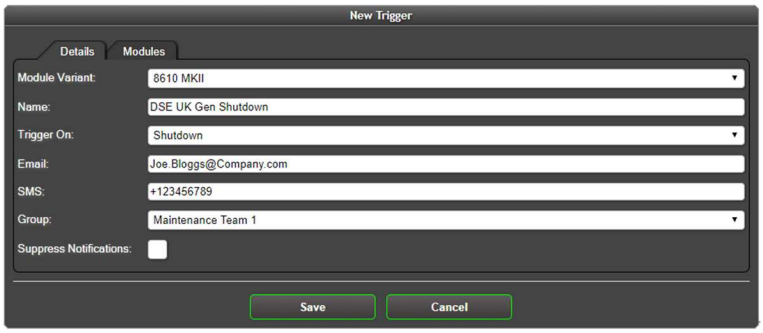
A Digital Output Event Trigger activates when one of DSE Controller's digital outputs has changed state.



Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	**NOTE: A Digital Output Event Trigger only activates if the DSE Controller has the digital output used. Refer to the DSE Controller's Operators Manual for further details.** The DSE Controller's digital output used to operate the event trigger.
Direction	⊙ ***On*** **=** Event Trigger activates if the selected DSE Controller's digital output activates. ⊙ ***Off*** **=** Event Trigger activates if the selected DSE Controller's digital output de-activates.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ **=** The event trigger is sent via an email and SMS to the user and group. ☑ **=** The event trigger is not sent via an email and SMS to the user and group.

Named Event

A *Named Event Trigger* activates when the DSE Controller's event log has recorded a fault generated by a configurable protection with a pre-set name, e.g. Generator Over Voltage.

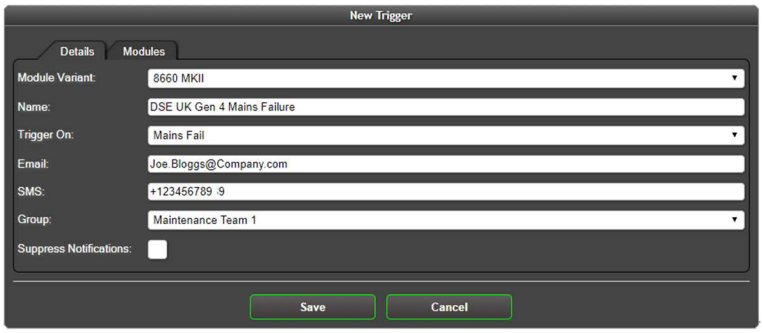


Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	See table below for more details.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

Event Severity	Description
Warning	Event Trigger activates when the DSE Controller's event log has recorded a named warning alarm e.g. Generator Under Voltage Pre-Alarm
Electrical Trip	Event Trigger activates when the DSE Controller's event log has recorded a named electrical-trip alarm e.g. Generator kW Overload
Shutdown	Event Trigger activates when the DSE Controller's event log has recorded a named shutdown alarm e.g. Generator Under Voltage

Pre-Defined Event

A *Pre-Defined Event Trigger* activates when the DSE Controller's event log has recorded a defined event, e.g. Mains Failure.

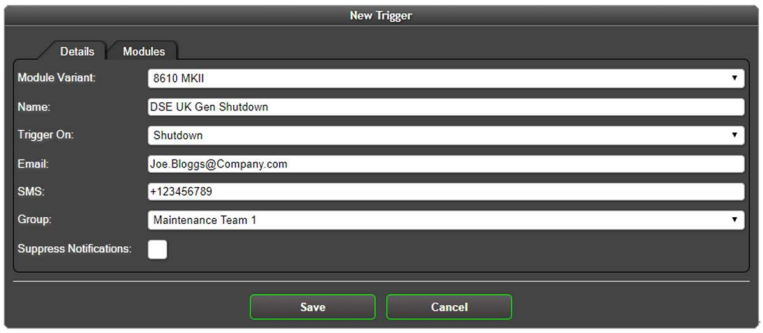


Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	See table below overleaf for more details.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

Trigger On	Description
Restart	Event Trigger activates when the DSE Controller's event log has recorded a powered up.
Mains Fail	Event Trigger activates when the DSE Controller's event log has recorded a mains failure
Mains Return	Event Trigger activates when the DSE Controller's event log has recorded a mains return
Fuel Monitor Period	Event Trigger activates when the DSE Controller's event log has recorded the level of fuel on a time interval
Fuel Event	Event Trigger activates when the DSE Controller's event log has recorded a change in the fuel level
Engine Start	Event Trigger activates when the DSE Controller's event log has recorded an engine start
Engine Stop	Event Trigger activates when the DSE Controller's event log has recorded an engine stop
S1 Fail	Event Trigger activates when the DSE Controller's event log has recorded an S1 failure
S1 Return	Event Trigger activates when the DSE Controller's event log has recorded an S1 return
S2 Start	Event Trigger activates when the DSE Controller's event log has recorded an S2 start
S2 Stop	Event Trigger activates when the DSE Controller's event log has recorded an S2 stop
Generator Start Request	Event Trigger activates when the DSE Controller's (ATS Controller) event log has recorded a generator start request has been initiated.
Generator Stop Request	Trigger when the DSE Controller's (ATS Controller) event log has recorded a generator stop has been initiated.

Unnamed Event

An Unnamed Event Trigger activates when the DSE Controller's event log has recorded a fault created by a User Configured input.



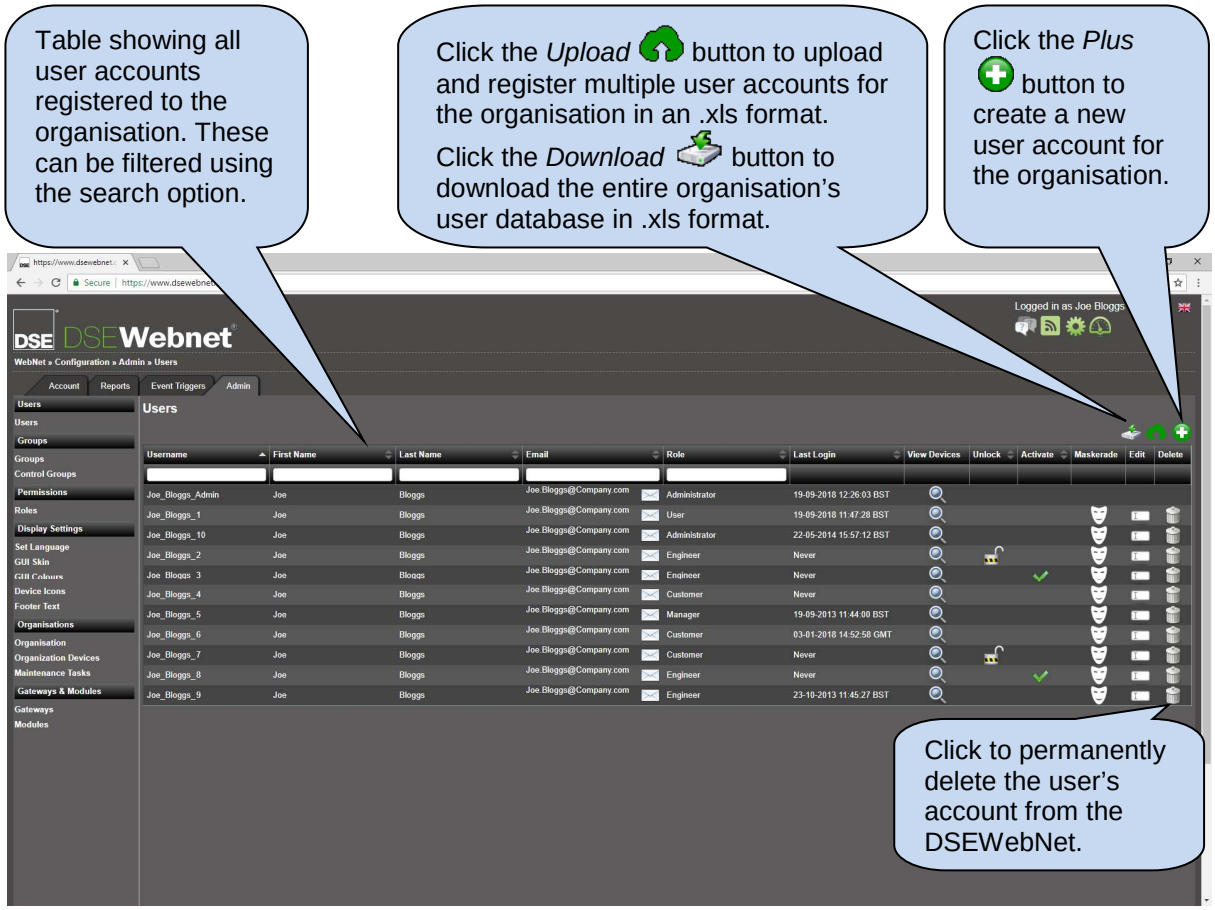
Parameter	Description
Module Variant	The type of DSE Controller that the event trigger is configured for. List of available *Module Type* is dependant upon what DSE Controllers are configured on the user's account.
Name	The name used to describe the event trigger when viewing the SMS or email.
Trigger On	See table below for more details.
E-mail	When configured, an email is sent from the DSEWebNet server to the configured *Email* address upon the event trigger activating. This is automatically populated by the settings for the user's account.
SMS	When configured, an SMS is sent from the SIM card inserted into the DSE890 3G Gateway to the configured *SMS* number upon the event trigger activating. This is automatically populated by the settings for the user's account.
Group	The organisation group the event trigger is to be sent to. This is configured by the organisation administrator, for more details see section entitled *Groups* elsewhere in this manual.
Suppress Notifications	☐ = The event trigger is sent via an email and SMS to the user and group. ☑ = The event trigger is not sent via an email and SMS to the user and group.

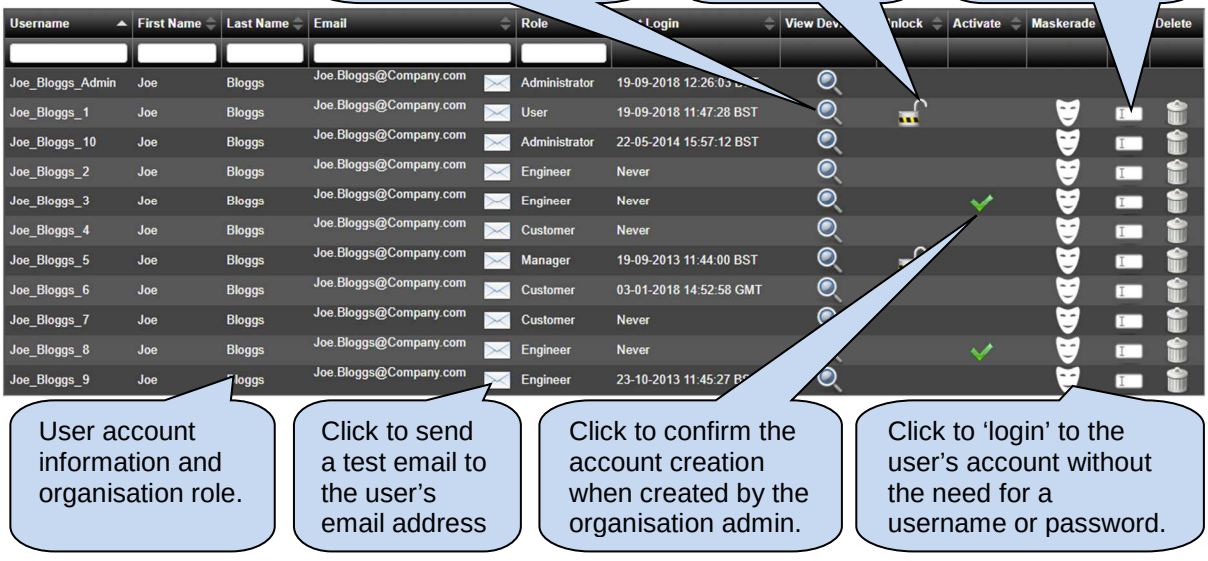
Event Severity	Description
Warning	Event Trigger activates when the module 's event log has recorded an un-named warning alarm e.g. a User Configured input configured for a warning alarm.
Electrical Trip	Event Trigger activates when the DSE Controller's event log has recorded an un-named electrical-trip alarm e.g. a User Configured input configured for an electrical trip alarm.
Shutdown	Event Trigger activates when the DSE Controller's event log has recorded an un-named shutdown alarm e.g. a User Configured input configured for a shutdown alarm.

4.3.4 ADMIN

4.3.4.1 USERS

The DSEWebNet allows the organisation administrator to manage the organisation user accounts. The organisation administrator is able to create, delete and edit a user's account settings.

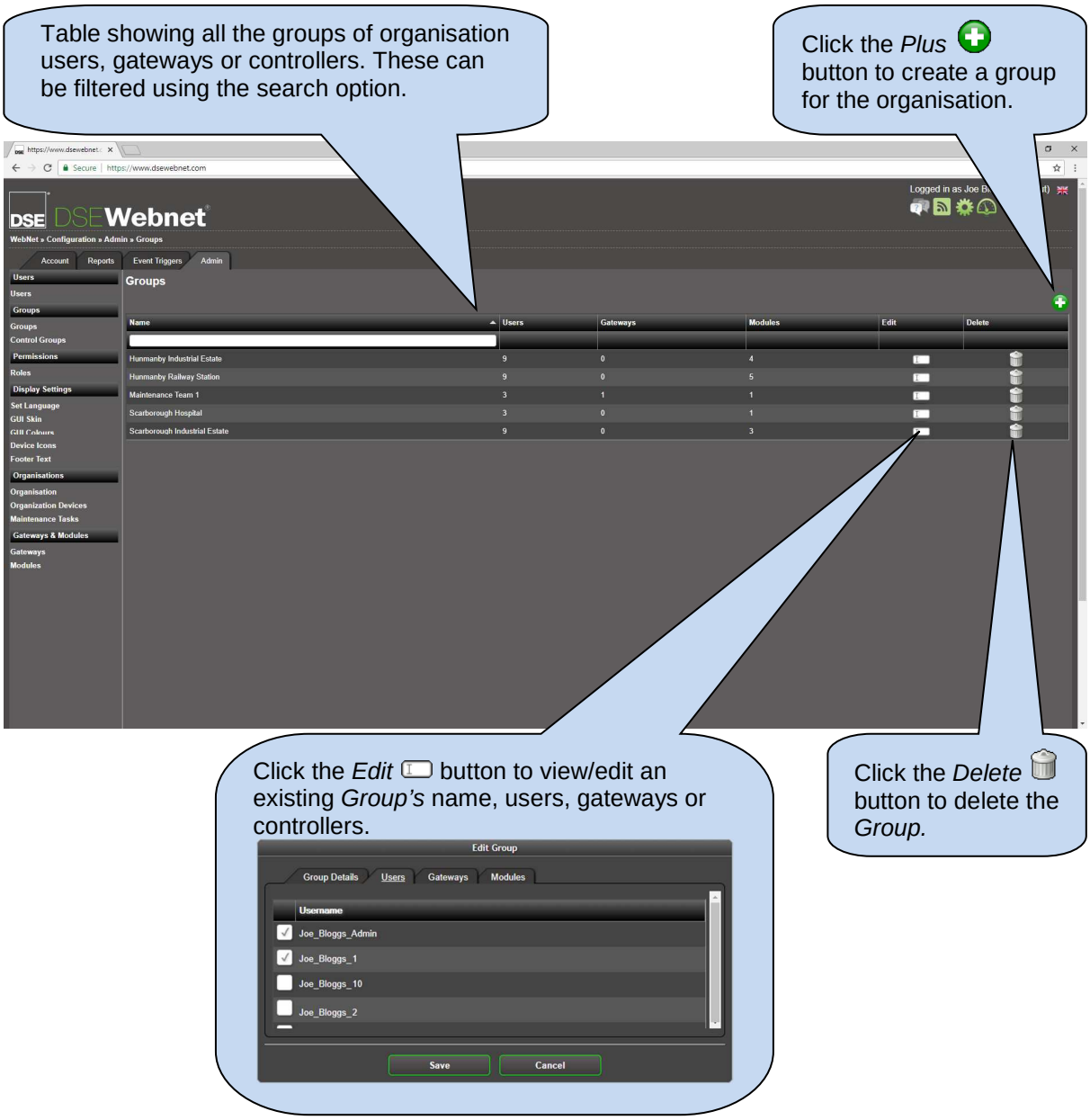




4.3.4.2 GROUPS

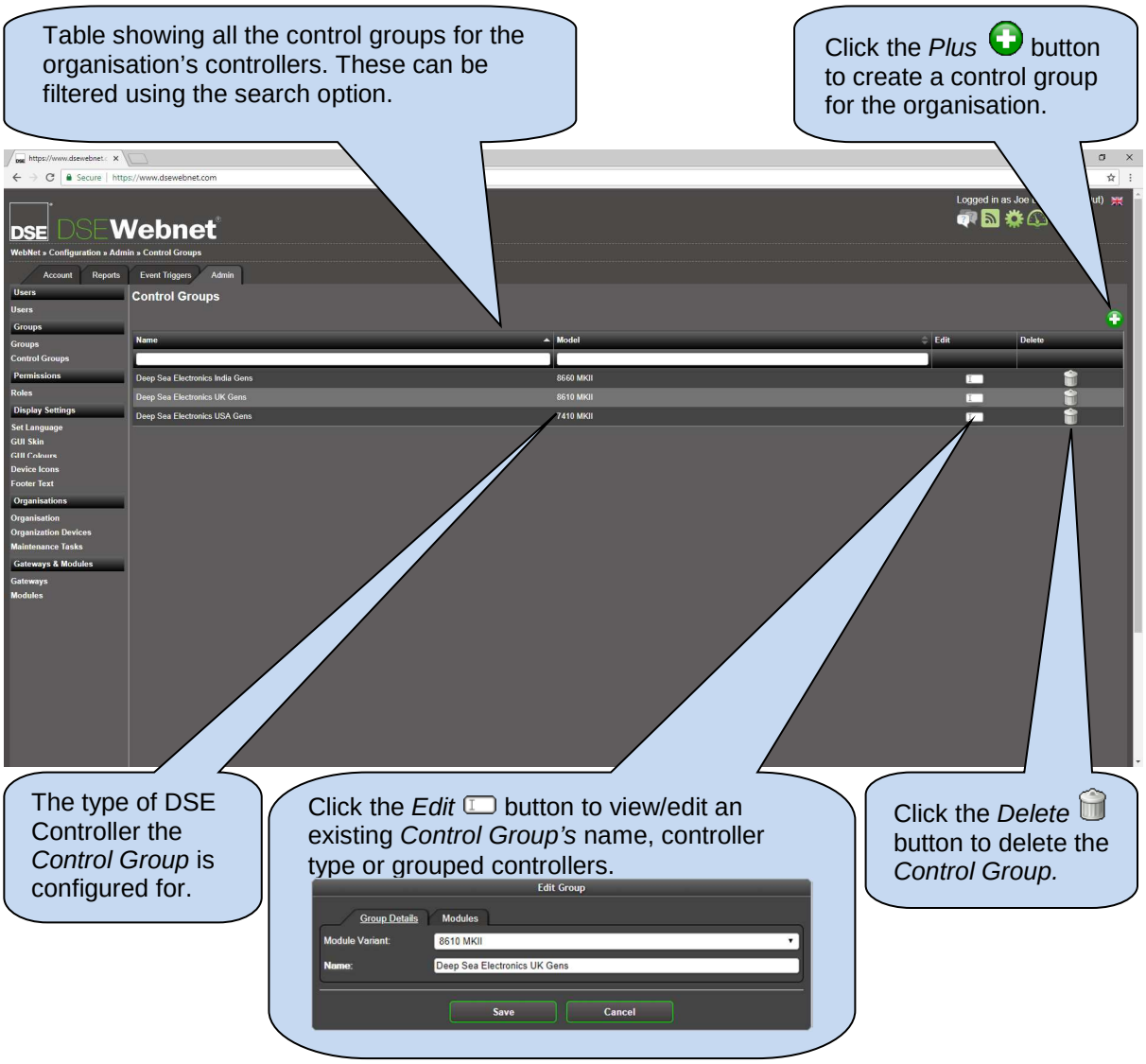
Groups

The DSEWebNet allows the organisation administrator to create and manage groups of organisation users, sites or sets. These groups are used to provide a method of sending one *Event Trigger* or *Report* notification to multiple organisation users, or group certain sites and sets together to make viewing for the organisation users easier.



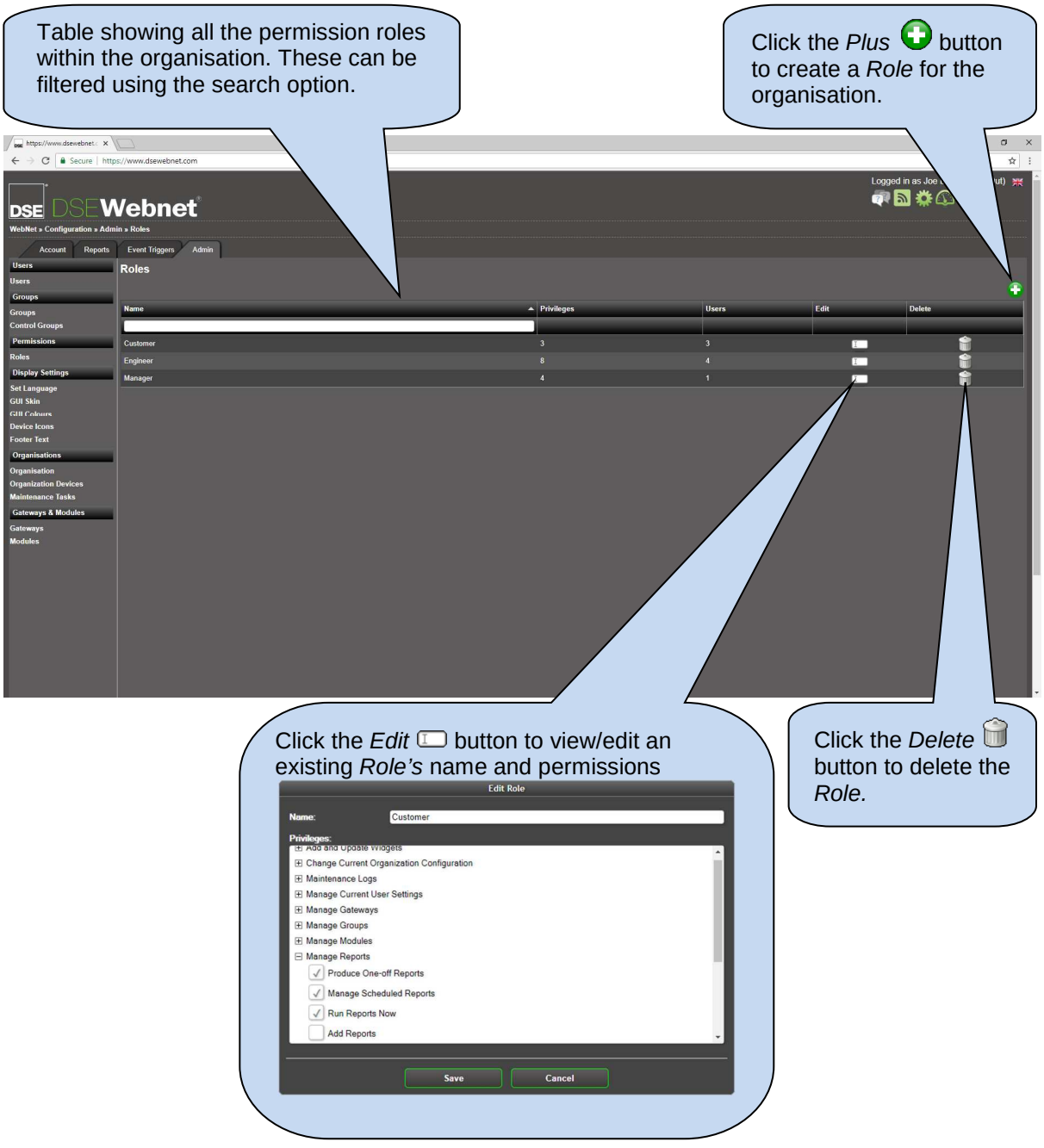
Control Groups

The DSEWebNet allows the organisation administrator to create and manage Control Groups for the same type of DSE Controllers within the organisation. These control groups are used to provide a method of sending control commands (such as start/stop requests) to multiple DSE Controllers within the organisation to make control over multiple DSE Controllers for the organisation users easier.



4.3.4.3 PERMISSIONS

The DSEWebNet allows the organisation administrator to create and manage user roles. These roles are used to create restrictions for organisation users by assigning them certain permissions. These restrictions could include preventing a user from starting/stopping a generator.



Permissions

Permission Group	Permission	Description
Add and Update Widgets	Access Widget Editor	☐ = Users within the *Role* cannot access the *Page Editor Mode*. ☑ = Allow users within the *Role* to access the *Page Editor Mode* to edit existing widgets.
	Add/Edit User Templates	☐ = Users within the *Role* cannot Add or Edit *User Templates*. ☑ = Allow users within the *Role* to Add or to Edit *User Templates* as documented in the *Templates* section elsewhere in this document.
	Delete User Templates	☐ = Users within the *Role* cannot Delete *User Templates*. ☑ = Allow users within the *Role* to Delete *User Templates* as documented in the *Templates* section elsewhere in this document.
	Manage Organisation Templates	☐ = Users within the *Role* cannot manage the *Organisation Templates*. ☑ = Allow users within the *Role* to manage *Organisation Templates* as documented in the *Templates* section elsewhere in this document.
	Add/Edit Organisation Templates	☐ = Users within the *Role* cannot add or edit *Organisation Templates*. ☑ = Allow users within the *Role* to add or edit *Organisation Templates* as documented in the *Templates* section elsewhere in this document.
	Delete Organisation Templates	☐ = Users within the *Role* cannot delete *Organisation Templates*. ☑ = Allow users within the *Role* to delete *Organisation Templates* as documented in the *Templates* section elsewhere in this document.
Change Current Organisation Configuration	Set Permissions	☐ = Users within the *Role* cannot change permissions for other roles within the organisation. ☑ = Allow users within the *Role* to change permissions for other roles within the organisation.
	Change Organisation Language	☐ = Users within the *Role* cannot change the organisation's preferred language. ☑ = Allow users within the *Role* to change the organisation's preferred language as documented in the *Set Language* section elsewhere in this document.
	Change Organisation Theme	☐ = Users within the *Role* cannot change the graphical user interface used within the organisation. ☑ = Allow users within the *Role* to change the graphical user interface used within the organisation as documented in the *Display Settings* section elsewhere in this document.
Maintenance Logs	Manage Maintenance Tasks	☐ = Users within the *Role* cannot add or editor the list of available maintenance tasks for the *Gateway's* calendar. ☑ = Allow users within the *Role* to add or editor the list of available maintenance tasks for the *Gateway's* calendar as documented in the *Calendar* section elsewhere in this document.
	Add Event Notes	☐ = Users within the *Role* cannot add notes to events that have been recorded on the *Gateway's* calendar. ☑ = Allow users within the *Role* to add notes to events that have been recorded on the *Gateway's* calendar as documented in the *Calendar* section elsewhere in this document.

Continued overleaf…

Permission Group	Permission	Description
Maintenance Logs	Add Scheduled Maintenance	☐ = Users within the *Role* cannot add a scheduled maintenance to a *Gateway's* calendar. ☑ = Allow users within the *Role* to add a scheduled maintenance to a *Gateway's* calendar as documented in the *Calendar* section elsewhere in this document.
	Sign Maintenance	☐ = Users within the *Role* cannot sign scheduled maintenance as completed on a *Gateway's* calendar. ☑ = Allow users within the *Role* to sign scheduled maintenance as completed on a *Gateway's* calendar as documented in the *Calendar* section elsewhere in this document.
	Edit/Delete Scheduled Maintenance	☐ = Users within the *Role* cannot edit or delete a scheduled maintenance on a *Gateway's* calendar. ☑ = Allow users within the *Role* to edit or delete a scheduled maintenance on a *Gateway's* calendar as documented in the *Calendar* section elsewhere in this document.
Manage Current User Settings	Multi-Language Support	☐ = Users within the *Role* cannot use multiple languages. ☑ = Allow users within the *Role* to use multiple languages.
	Change Language	☐ = Users within the *Role* cannot change the language. ☑ = Allow users within the *Role* to change the languages as documented in the *Set Languages* section elsewhere in this document.
	View My Client	☐ = Users within the *Role* cannot change View the . ☑ = Allow users within the *Role* to change the languages as documented in the *Set Languages* section elsewhere in this document.
	View My Role	☐ = Users within the *Role* cannot see their role within the organisation they are registered to. ☑ = Allow users within the *Role* to see their role within the organisation they are registered to as documented in the *Account* section elsewhere in this document.
	View Graphs	☐ = Users within the *Role* cannot view the historic data graphs. ☑ = Allow users within the *Role* to view the historic data graphs as documented in the *Viewing Historic Data Graphs* section elsewhere in this document.
	Configure Web Events Triggers	☐ = Users within the *Role* cannot configure *Event Triggers* on their account. ☑ = Allow users within the *Role* to configure *Event Triggers* on their account.
Manage Gateways	View Gateways	☐ = Users within the *Role* cannot view the gateways. ☑ = Allow users within the *Role* to view the gateways
	Edit Gateways	☐ = Users within the *Role* cannot edit the *Gateways* that are registered to the organisation. ☑ = Allow users within the *Role* to edit the *Sites* that are registered to the organisation by clicking the *Edit* button in the *Gateways* section.

Continued overleaf…

Permission Group	Permission	Description
Manage Gateways	Add and Set GeoFence	☐ = Users within the *Role* cannot add or edit a *Gateway's* GeoFence setting that is registered to the organisation. ☑ = Allow users within the *Role* to add or edit a *Gateway's* GeoFence setting that are registered to the organisation by clicking the *Edit* button in the *Gateways* section.
	Raise GeoFence Notifications and View GPS Locations	☐ = Users within the *Role* cannot configure an event trigger to issue an alert if the *Gateway* changes GPS location. Also the users within the *Role* cannot view the *Gateway's* GeoFence on the map ☑ = Allow users within the *Role* to configure an event trigger to issue an alert if the *Gateway* changes GPS location. Also enables users within the *Role* to view the *Gateway's* GeoFence on the map.
	Remote Configure Gateway	☐ = Users within the *Role* cannot edit a *Gateway's* configuration that is registered to the organisation. ☑ = Allow users within the *Role* to edit a *Gateway's* configuration that is registered to the organisation as documented in section *Site Configuration & Connection Status* elsewhere in this document.
Manage Groups	Add to Groups	☐ = Users within the *Role* cannot add users, *Gateways* or *DSE Controllers* to a *Group* for the organisation. ☑ = Allow users within the *Role* to add users, *DSE Gateways* or *DSE Controllers* to a *Group* for the organisation by clicking the appropriate *Plus* button in the *Groups* section.
	Add Groups	☐ = Users within the *Role* cannot create a *Group* for the organisation. ☑ = Allow users within the *Role* to create a *Group* for the organisation by clicking the *Plus* button in the *Groups* section.
	Edit Groups	☐ = Users within the *Role* cannot edit a *Group's* settings that belong to the organisation. ☑ = Allow users within the *Role* to edit a *Group's* settings that belongs to the organisation by clicking the *Edit* button in the *Groups* section.
	Remove Groups	☐ = Users within the *Role* cannot permanently delete *Groups* from the organisation. ☑ = Allow users within the *Role* to permanently delete *Groups* from the organisation by clicking the *Delete* button in the *Groups* section.
	View Groups	☐ = Users within the *Role* cannot view the *Groups* created for the organisation. ☑ = Allow users within the *Role* to view the *Groups* created for the organisation in the *Groups* section.
Manage Modules	View Sets	☐ = Users within the *Role* cannot view the *DSE Controllers* that are registered to the organisation. ☑ = Allow users within the *Role* to view the *DSE Controllers* that are registered to the organisation in the *Modules* section.
	Edit Sets	☐ = Users within the *Role* cannot edit the *DSE Controllers* that are registered to the organisation. ☑ = Allow users within the *Role* to edit the *DSE Controllers* that are registered to an organisation by clicking the *Edit* button in the *Modules* section.

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Permission Group	Permission	Description
Manage Reports	Produce One-off Reports	☐ = Users within the *Role* cannot produce reports for once. ☑ = Allow users within the *Role* to produce reports for once as documented in the *Reports* section elsewhere in this document.
	Manage Scheduled Reports	☐ = Users within the *Role* cannot view reports on their account. ☑ = Allow users within the *Role* to view reports in various locations of the DSEWebNet on their account.
	Run Reports Now	☐ = Users within the *Role* cannot run a report before it is due. ☑ = Allow users within the *Role* to run a report before it is due as documented in the *Reports* section elsewhere in this document.
	Add Reports	☐ = Users within the *Role* cannot add reports on their account. ☑ = Allow users within the *Role* to add reports on their account as documented in section *Reports* elsewhere in this document.
	Edit Reports	☐ = Users within the *Role* cannot edit reports on their account. ☑ = Allow users within the *Role* to edit reports on their account as documented in section *Reports* elsewhere in this document.
	Delete Reports	☐ = Users within the *Role* cannot delete reports that have been configured on their account. ☑ = Allow users within the *Role* to delete reports that have been configured on their account as documented in section *Reports* elsewhere in this document.
	View Reports	☐ = Users within the *Role* cannot view reports that have been configured on their account. ☑ = Allow users within the *Role* to view reports that have been configured on their account as documented in section *Reports* elsewhere in this document.
Manage Roles	View Roles	☐ = Users within the *Role* cannot view existing *Roles* in the organisation. ☑ = Allow users within the *Role* to view existing *Roles* in the organisation as documented elsewhere in this section.
	Create New Roles	☐ = Users within the *Role* cannot create new *Roles* for the organisation. ☑ = Allow users within the *Role* to add new *Roles* to the organisation as documented elsewhere in this section.
	Edit Roles	☐ = Users within the *Role* cannot edit existing *Roles* in the organisation. ☑ = Allow users within the *Role* to edit existing *Roles* in the organisation as documented elsewhere in this section.
	Delete Roles	☐ = Users within the *Role* cannot delete existing *Roles* from the organisation. ☑ = Allow users within the *Role* to delete existing *Roles* from the organisation as documented elsewhere in this section.

Continued overleaf…

Permission Group	Permission	Description
Manage Users	View Users	☐ = Users within the *Role* cannot view the other users that are registered to the organisation. ☑ = Allow users within the *Role* to view the other users that are registered to the organisation in the *Users* section.
	Add New Organisation Users	☐ = Users within the *Role* cannot create a user account that is registered to the organisation for someone else. ☑ = Allow users within the *Role* to create a user account that is registered to the organisation for someone else by clicking the *Plus*  button in the *Users* section.
	Edit Organisation Users	☐ = Users within the *Role* cannot edit other user account settings that registered to the organisation. ☑ = Allow users within the *Role* to edit other user account settings that registered to the organisation by clicking the *Edit*  button in the *Users* section.
	Confirm Users	☐ = Users within the *Role* cannot confirm an account's email address that has been created and registered to the organisation by the administrator. ☑ = Allow users within the *Role* to confirm an account's email address that has been created and registered to the organisation by the administrator clicking the *Tick*  button in the *Users* section.
	Activate Users	☐ = Users within the *Role* cannot activate an account that has been created and registered to the organisation by the administrator. ☑ = Allow users within the *Role* to activate an account that has been created and registered to the organisation by the administrator by clicking the *Tick*  button in the *Users* section.
	Delete Organisation Users	☐ = Users within the *Role* cannot permanently delete other user accounts that registered to the organisation. ☑ = Allow users within the *Role* to permanently delete other user accounts that registered to the organisation by clicking the *Delete*  button in the *Users* section.
	Add Gateways and Modules to the Users Personal Account	☐ = Users within the *Role* cannot add *DSE Gateways or DSE Controllers* to their own user account. ☑ = Allow users within the *Role* to add *DSE Gateways or DSE Controllers* to their own user account as documented in section *Getting Started* elsewhere in this document.
	Add Gateways and Modules to Users	☐ = Users within the *Role* cannot add *DSE Gateways or DSE Controllers* to another user's account that is registered to the organisation. ☑ = Allow users within the *Role* to add *DSE Gateways or DSE Controllers* to another user's account that is registered to the organisation by clicking the *View Devices*  button in the *Users* section
	Use Control Buttons on Modules	☐ = Users within the *Role* cannot control any *DSE Controller* that is viewable on their account. ☑ = Allow users within the *Role* to control any *DSE Controller* that is viewable on their account as documented in section *DSE Controller* elsewhere in this document.

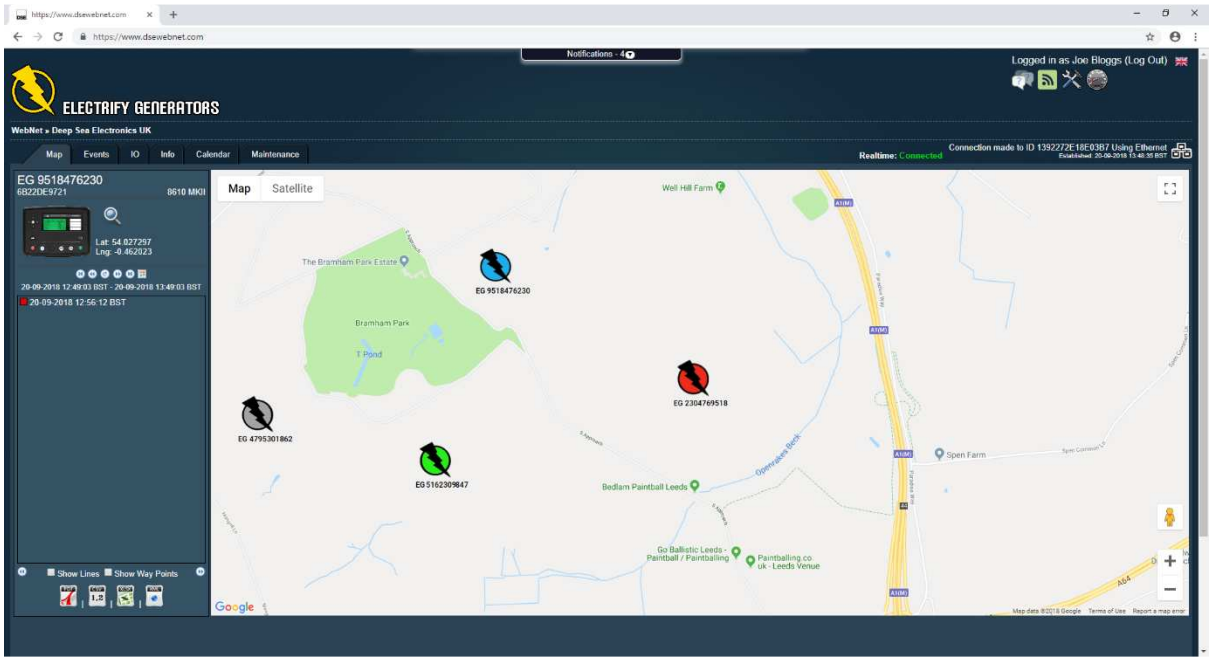
Continued overleaf…

Permission Group	Permission	Description
Manage Users	Manage Organisation Devices	☐ = Users within the *Role* cannot add or remove or edit *DSE Gateways or DSE Controllers* to all user accounts registered to the same organisation. ☑ = Allow users within the *Role* to add or remove or edit *DSE Gateways or DSE Controllers* to all user accounts registered to the same organisation as documented in section *Organisation Devices* elsewhere in this document.
	Reset Users Widget Cache (Old)	☐ = Users within the *Role* cannot reset *Users Widget Cache*. ☑ = Allow users within the *Role* to reset *Users Widget Cache*.
	Clear Users Current Data Feeds (Old)	☐ = Users within the *Role* cannot clear *Users* Current Data Feeds. ☑ = Allow users within the *Role* to clear *Users* Current Data Feeds.
	Clone User Account (Old)	☐ = Users within the *Role* cannot clone a user account. ☑ = Allow users within the *Role* to clone a user account.

4.3.4.4 DISPLAY SETTINGS

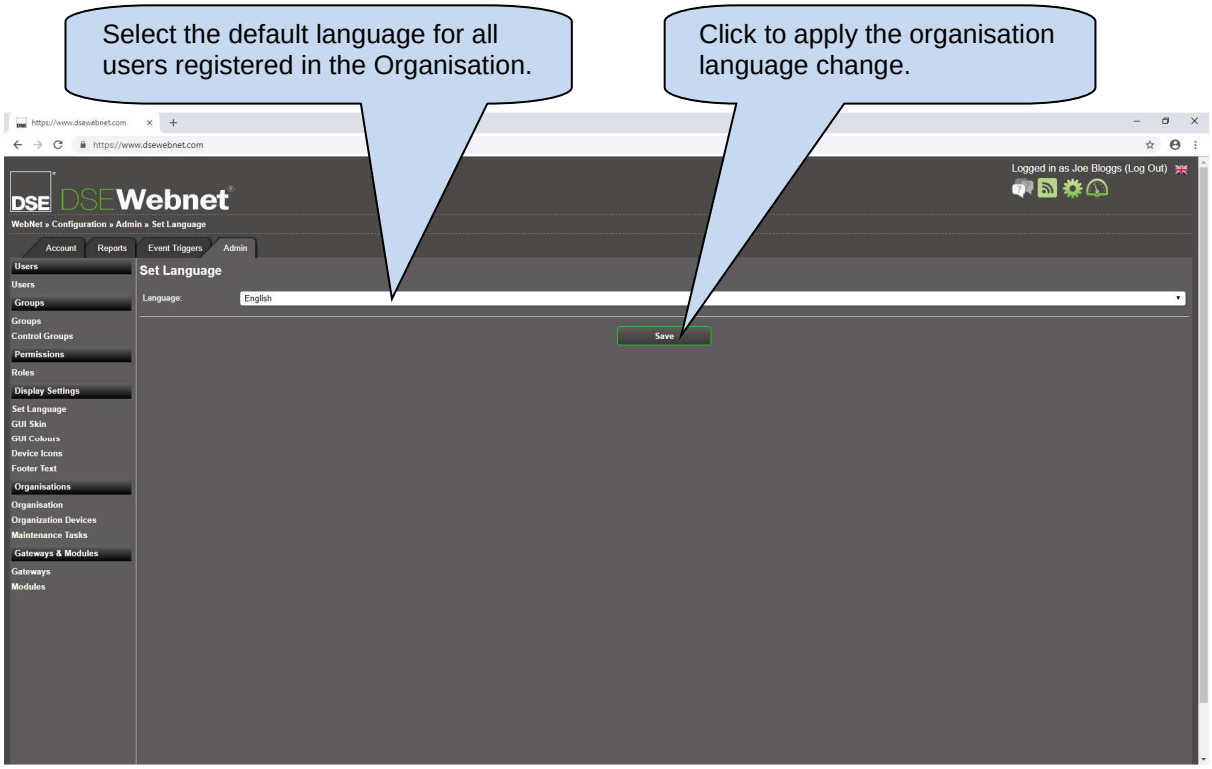
The DSEWebNet allows the organisation administrator to customise the Graphical User Interface (GUI) to match the branding and colour scheme for the organisation. Once set up, the customised GUI is then forced onto any user that is part of that organisation.

An example of a customer GUI for the DSEWebNet is shown below.

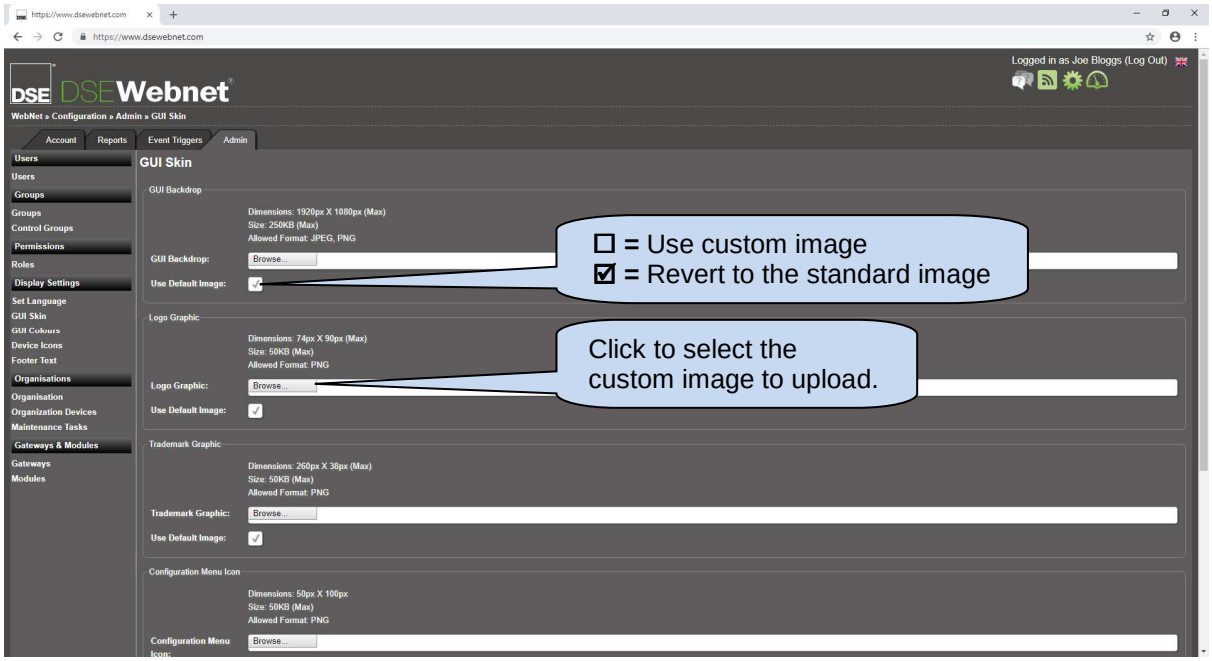


Set Language

The DSEWebNet allows the organisation administrator to configure a default language for all users within the organisation.

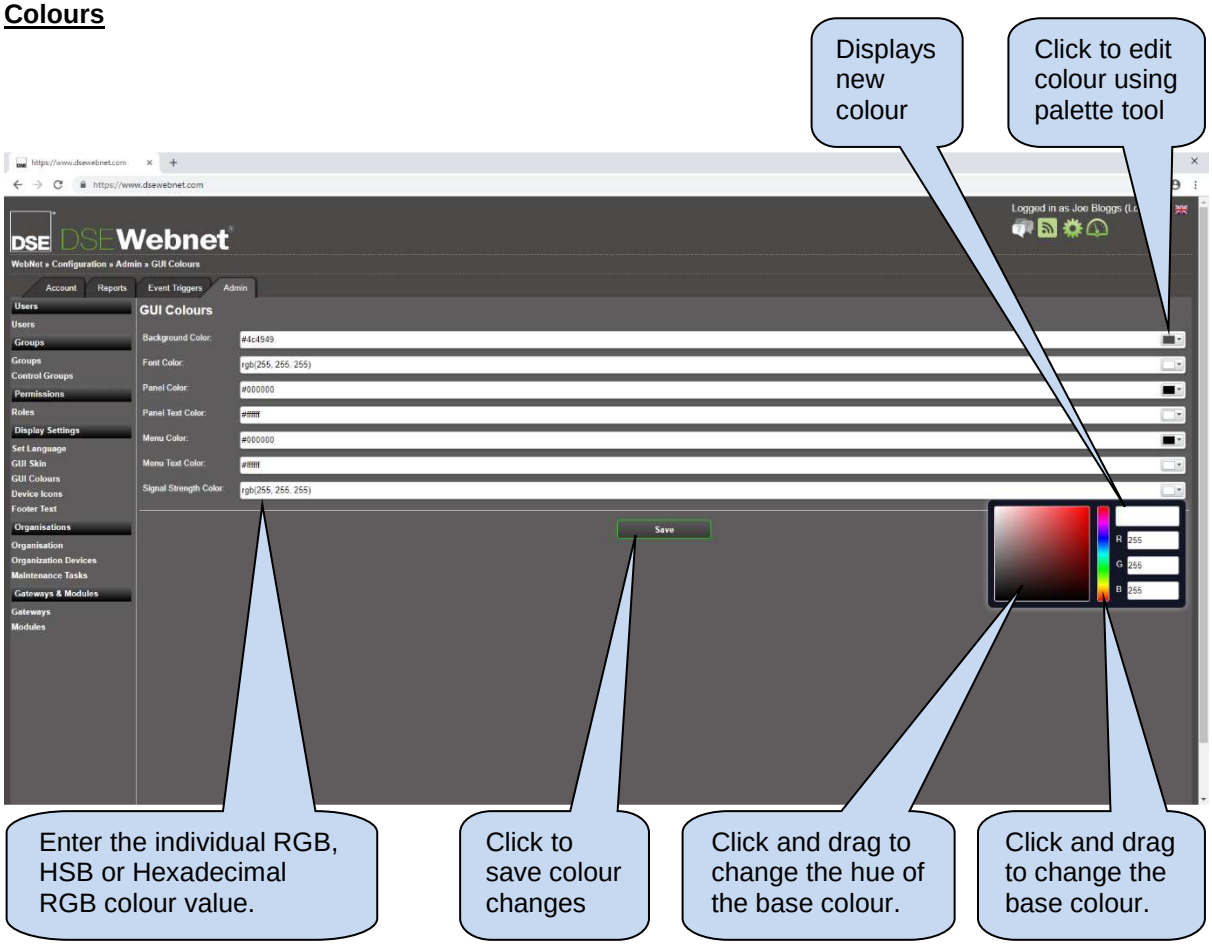


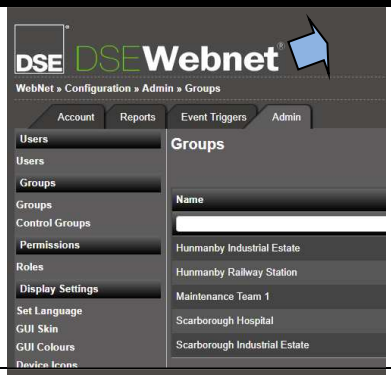
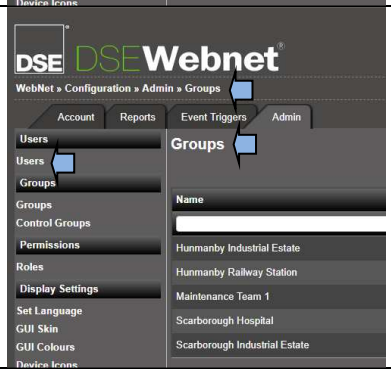
GUI Skin

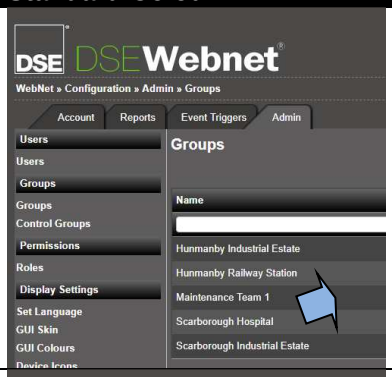
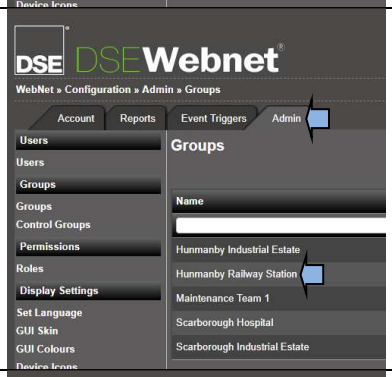
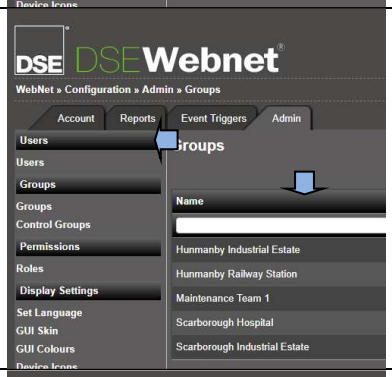


Skin	Description	Standard Image	Customised Image Example
GUI Backdrop	Changes the backdrop image. Image Dimensions: 1920 x 1020 Max Size: 50 kb Max Allowed Format: JPEG, PNG	None	
Logo Graphic	Changes the company logo image. Image Dimensions: 74 x 90 Max Size: 50 kb Max Allowed Format: PNG		
Trademark Graphic	Changes the company trademark image. Image Dimensions: 260 x 38 Max Size: 50 kb Max Allowed Format: PNG		
Configuration Menu Icon	Changes the configuration menu image. Image Dimensions: 50 x 100 Max Size: 50 kb Max Allowed Format: PNG		
Widget Editor Icon	Changes the widget editor image. Image Dimensions: 50 x 100 Max Size: 50 kb Max Allowed Format: PNG		

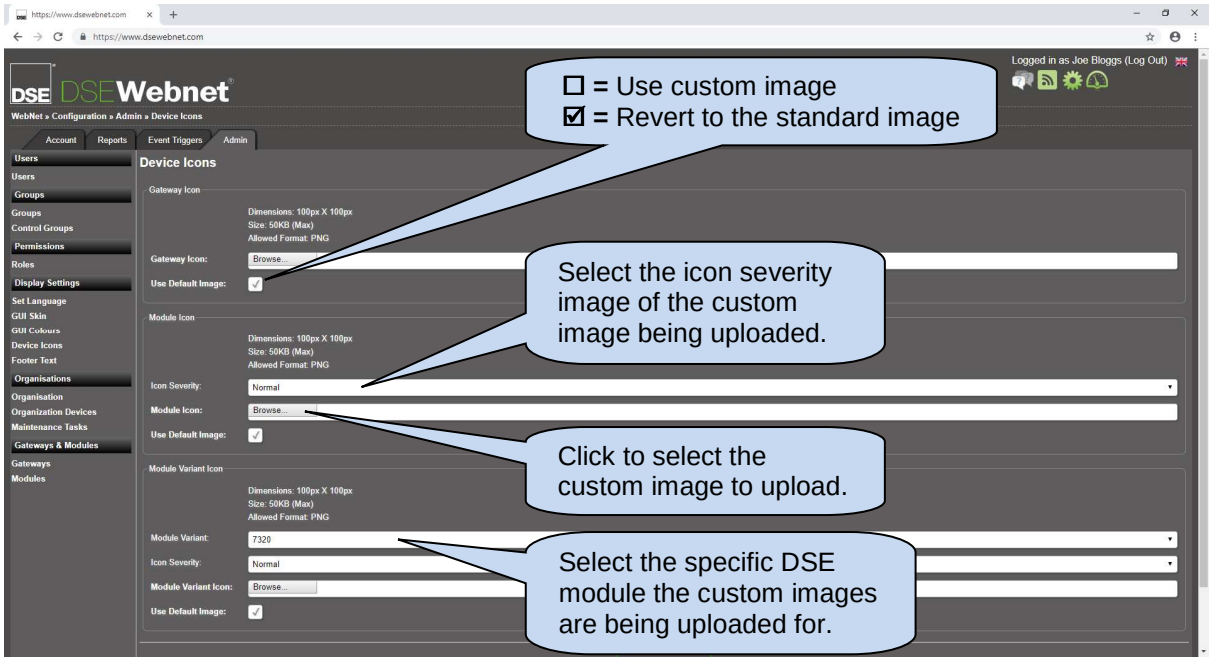
Colours



Colours	Description	Standard Colour	Customised Colour Example
Background Colour	Changes the colour of the page background if no background image is used.		
Font Colour	Changes the colour of the font used for the *System Level* and font used for that section.		

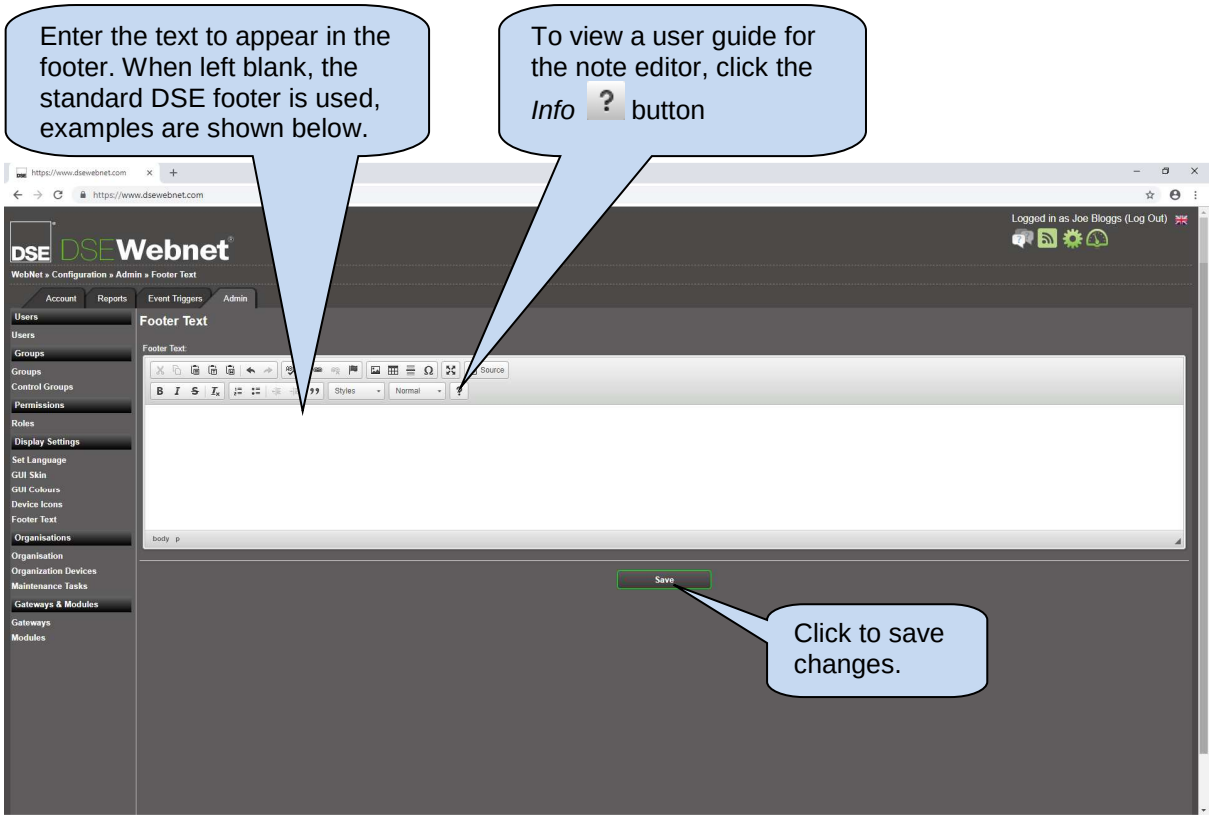
Colours	Description	Standard Colour	Customised Colour Example
Panel Colour	Changes the colour of table rows.		
Panel Text Colour	Changes the colour of the font used for the *Navigation Tabs* and the table entry text.		
Menu Colour	Changes the colour of the menu and title bars.		
Menu Text Colour	Changes the colour of the text inside the menu and title bars.		
Signal Strength Colour	Changes the colour of the signal strength images.		

Device Icons

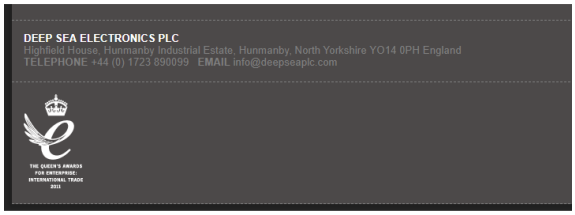


Icons	Description	Severity	Standard Image	Customised Image Example
Gateway Icon	Changes the map icon for the sites. Image Dimensions: 100p x 100p Max Size: 50 kb Max Allowed Format: PNG	N/A		
Module Icon	Changes the map icon for all module types. Image Dimensions: 100p x 100p Max Size: 50 kb Max Allowed Format: PNG	Normal		
		Warning		
		Shutdown		
		Electrical Trip / Controlled Shutdown		
		Offline		
		Running		
Module Variant	Changes the map icon for the selected module only. Image Dimensions: 100p x 100p Max Size: 50 kb Max Allowed Format: PNG	Normal		
		Warning		
		Shutdown		
		Electrical Trip / Controlled Shutdown		
		Offline		
		Running		

Footer Text



Standard Footer Example

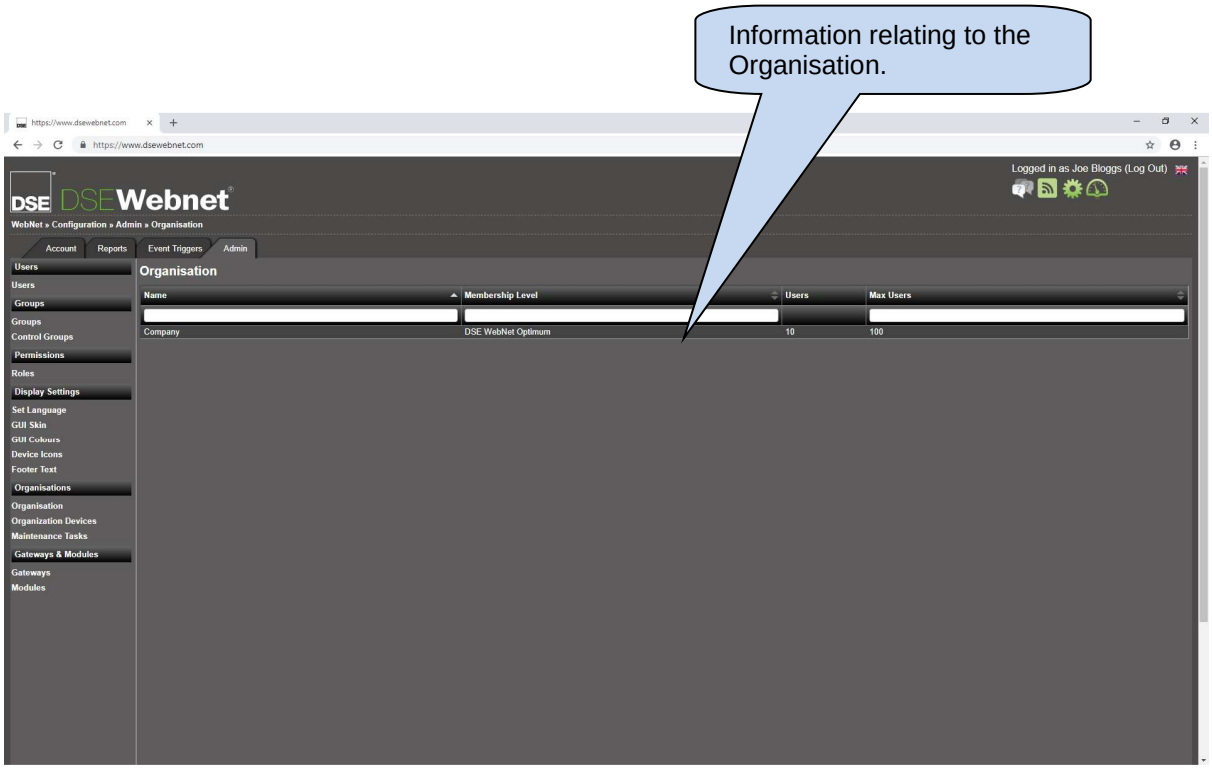


Custom Footer Example



4.3.4.5 ORGANISATIONS

Organisation



Information	Description
Name	The name of the organisation the account is registered to.
Membership Level	The membership level of the organisation. For DSE internal use only.
Users	The current number of user accounts registered to the organisation.
Max Users	The maximum number of user accounts that can be registered to the organisation.

Organisations Devices

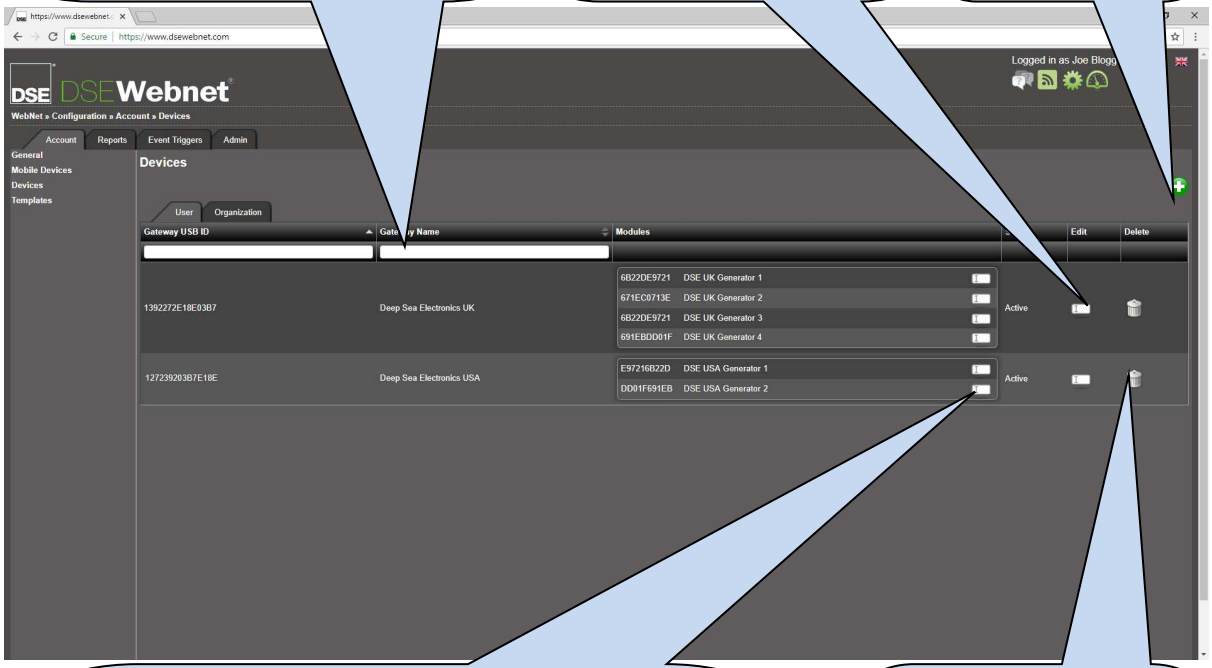
NOTE: For more detailed instructions on how to add a DSE Gateway or DSE Controller to a user's account, refer to the section '*Configuring the System*' elsewhere in this document.

The DSEWebNet has the ability to allow the organisation administrator to add or remove a *DSE Gateway* or *DSE Controller* to their organisation. In doing so, every user registered to the organisation gains or loses access to that *DSE Gateway* or *DSE Controller.* To add a DSEGateway to the organisation, click the *Plus* button located on the top right hand corner of the webpage. The *Add New Gateway* option is opened.

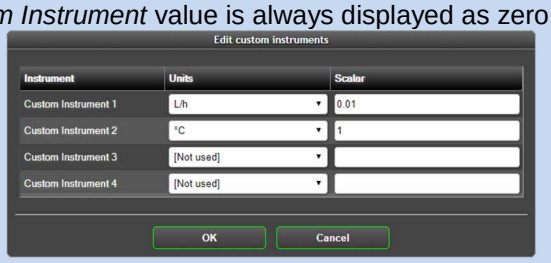
Table containing the *DSE Gateways* and *DSE Controllers* that are currently registered to the organisation and available to every organisation user's account. These can be filtered using the search option.

Click the *Edit Gateway* button to Add/Remove *DSE Controllers* to every organisation user's account which are connected to the *DSEGateway*

Click the *Plus* button to add a DSEGateway to every organisation user's account.



Click the *Edit Module* button to edit the scaling factor of any *Custom Instrument* assigned to that *DSE Controller.* If the *Scalar* value is left at the default value of zero, the *Custom Instrument* value is always displayed as zero.

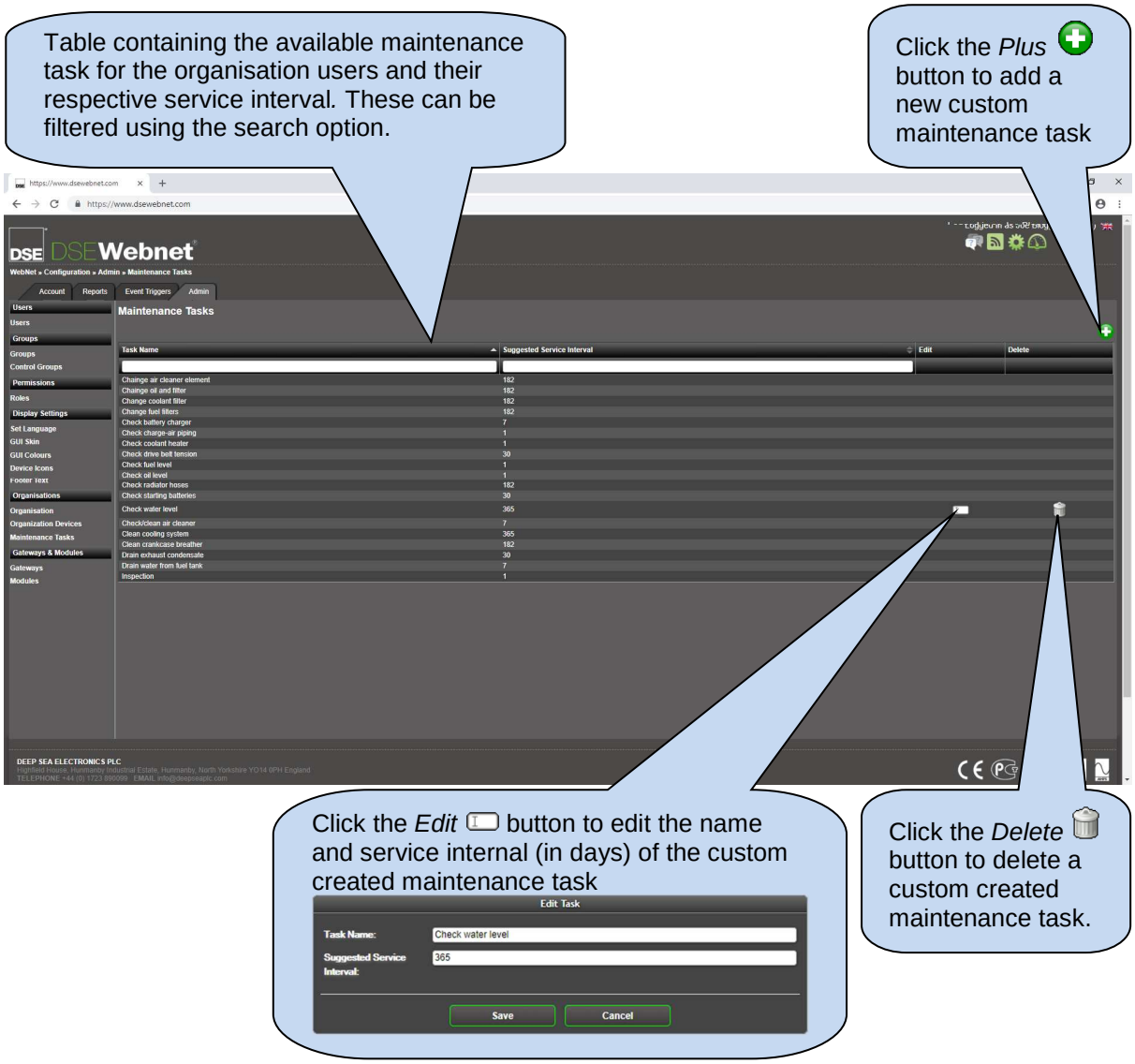


Click the *Delete* button to delete the *DSE Gateway* and connected *DSE Controllers* from every organisation user's account.

Maintenance Tasks

NOTE: To configure a maintenance schedule, refer to the sections entitled *Calendar* and *Maintenance* elsewhere in this manuals for further details.

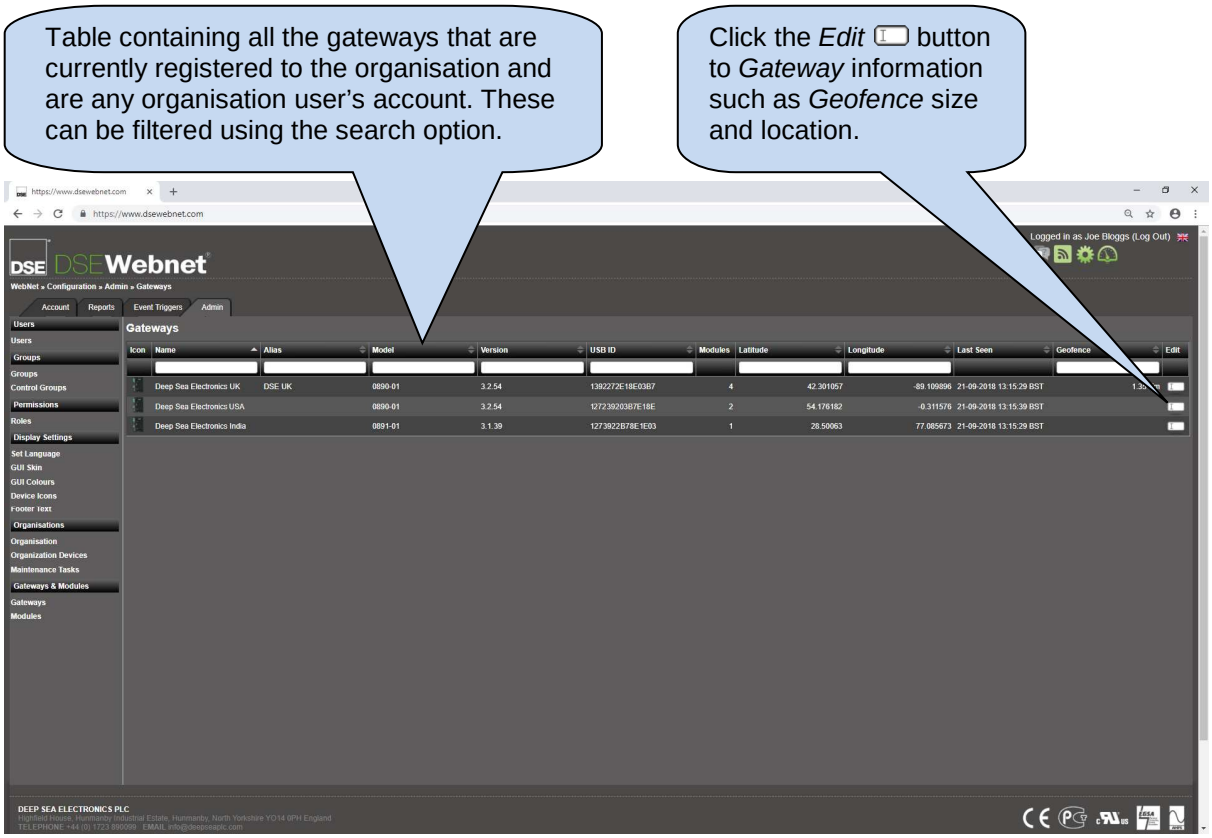
The DSEWebNet allows users to create maintenance schedules for their DSE Controllers based on certain tasks. The DSEWebNet enables the organisation administrator to create specific maintenance task if the suggested defaults are not applicable.



4.3.4.6 GATEWAYS & MODULES

Gateways

The DSEWebNet allows the organisation administrator to edit a *Site* added to any user in their organisation.

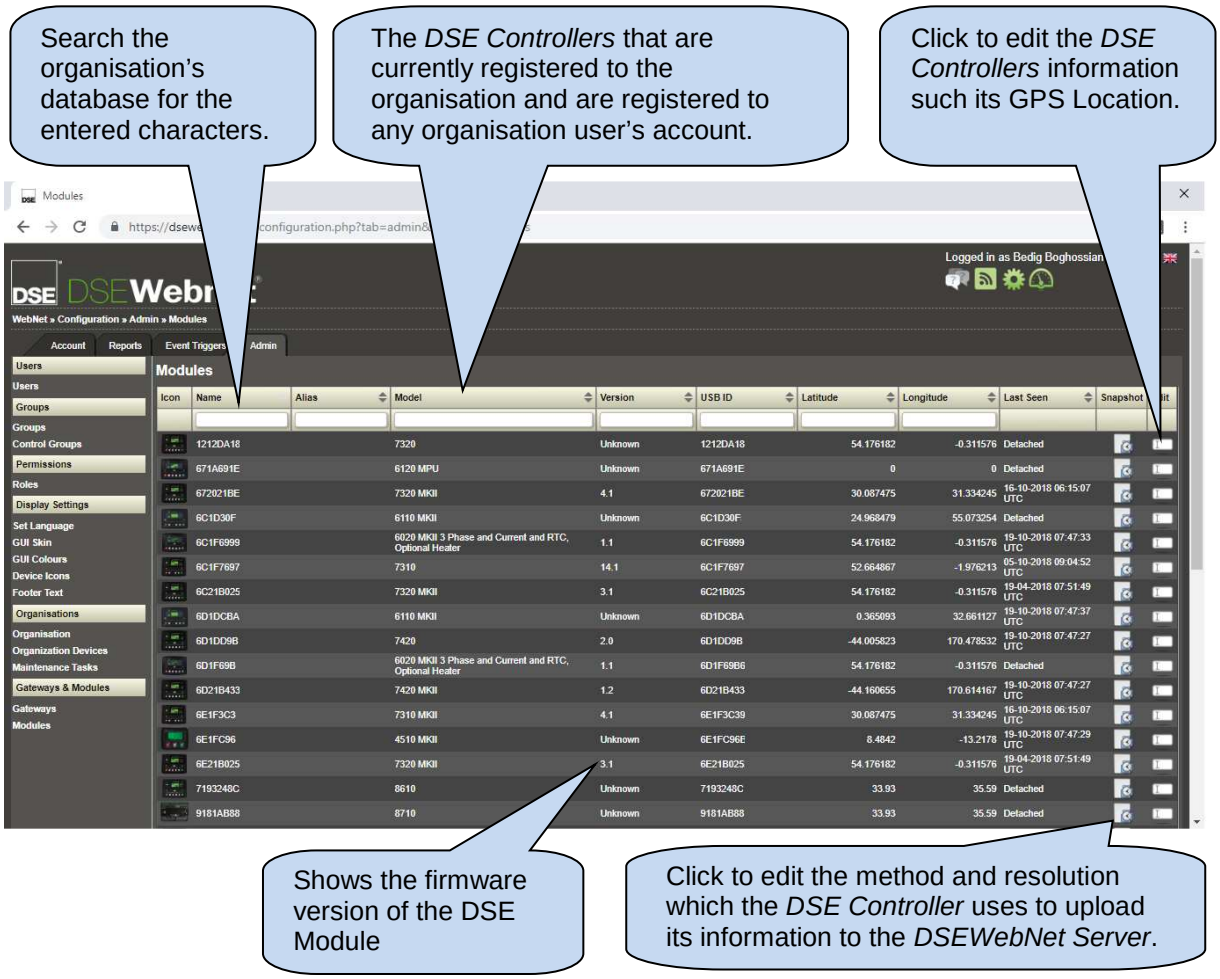


Parameters detailed overleaf…

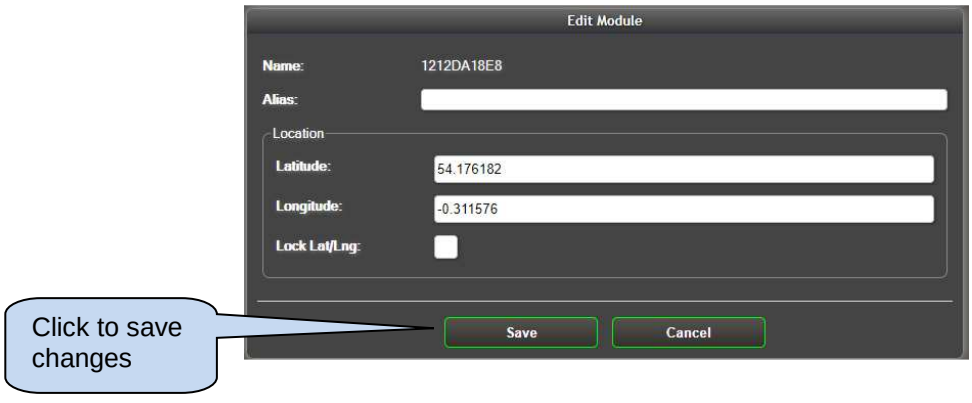
Edit Section	Parameter	Description
Gateway Info	Name	The name of the site as configured in the DSEGateway device. **NOTE: For more information, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on our website: *www.deepseaplc.com***
	Alias	Enter the preferred *Site Alias* to rename the *Site* throughout the DSEWebNet.
	Notes	Insert Public Notes here to reflect in the DSEGateway's Info page visible to all users in the Organisation account who have access to this DSEGateway.
Location	Latitude	Provide the latitude manually to edit the location
	Longitude	Provide the longitude manually to edit the location
	Lock Lat/Lng	☐ = The DSEGateway's location depends on its own configuration or on its actual location if GPS is enabled. ☑ = The DSEGateway's location is fixed to the Latitude & Longitude configured in this section.
	Geofence	The diameter of the DSEGateway's Geofence.

Modules

The DSEWebNet to allows the organisation administrator to edit a *DSE Controller* added to any user in their organisation.



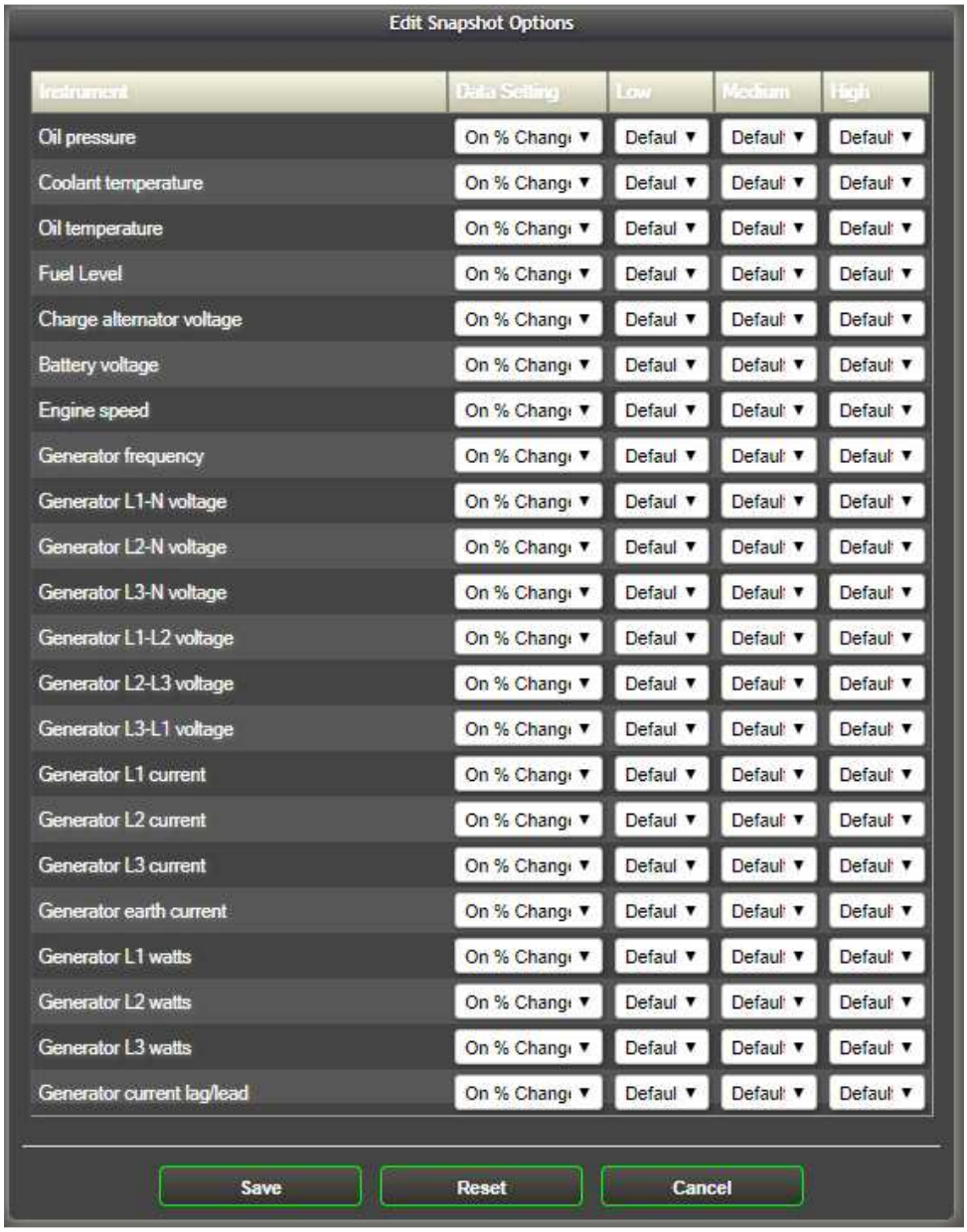
Edit Details



Parameters detailed overleaf…

Parameter	Description
Name	The *USB ID* of the *DSE Controller* or its configured *Genset ID*. **NOTE: Refer to the Configuration Software Manual of the relevant module for more information on how to configure the Genset ID. This is only applicable on modules having communication port.**
Alias	Enter the preferred *Set Alias* to rename the *Set* throughout the DSEWebNet.
Latitude	Provide the latitude manually to edit the set location
Longitude	Provide the longitude manually to edit the set location
Lock Lat/Lng	☐ = The *Set* location depends on its Site from the DSEGateway. ☑ = The *Set* location is fixed to the Latitude & Longitude configured in this section.

Edit Snapshot Options



Setting	Description
Data Setting	***On % Change:*** This determines how much the parameter must be changed by using the configured *Low, Medium or High* percentage before it is uploaded to the DSEWebNet server. If there is no change in the data, there is no data uploaded. This may result in 'empty' reports if there is no logged data to upload. ***Never:*** No historic information is uploaded to the DSEWebNet Server. ***Time Interval:*** This determines the period at which the DSEGateway® uploads a snapshot of the instrumentation to the DSEWebNet server, regardless of how much it has changed. This setting prevents 'empty reports' that occur where no data is logged due to values changing by small amounts.
Low	Sets the percentage for the low resolution.
Medium	Sets the percentage for the medium resolution.
High	Sets the percentage for the high resolution.

4.4 RSS FEED

NOTE: Dependent upon access restrictions set by the *Organisation Administrator,* some options and sections may not be accessible by the user.

NOTE: The RSS feed appears differently dependent upon the internet browser being used however the information contained is the same.

The Rich Site Summary (RSS) Feed allows the user to easily view incoming events from all the *Sites* configured using a variety of different methods.

The *RSS Feed* section is entered by clicking on the *RSS Feed* icon in the top right hand corner of the webpage. A new webpage is opened with the RSS feed as shown in the below image.



A large example of a recorded event seen on an RSS feed can be seen below.

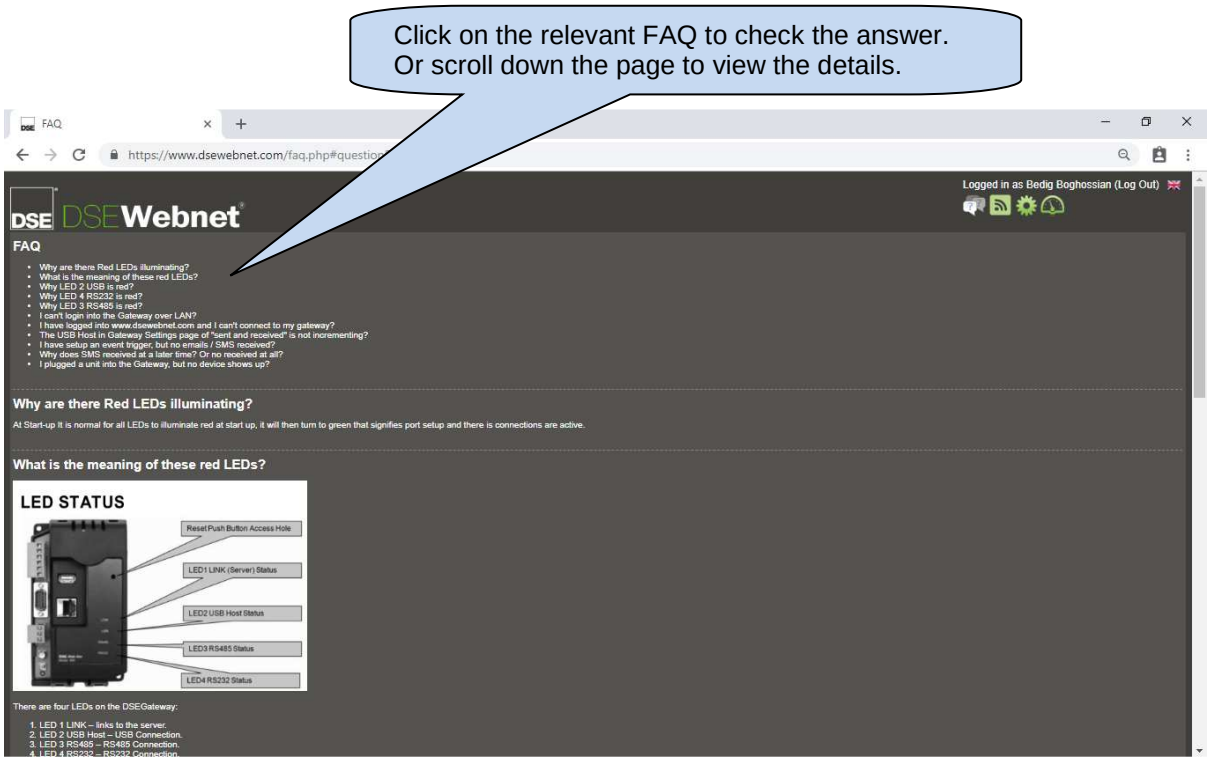


Icon	Description
	The *DSE Controller* has recorded a *Pre-defined Event*.
	The *DSE Controller* has recorded an *Engine Start Event*.
	The *DSE Controller* has recorded a Warning alarm.
	The *DSE Controller* has recorded an Electrical Trip alarm.
	The *DSE Controller* has recorded a Shutdown alarm.

4.5 VIEW FAQ

NOTE: Dependent upon access restrictions set by the *Organisation Administrator,* some options and sections may not be accessible by the user.

The Frequently Asked Question (FAQ) section is entered by clicking on the *View FAQ* icon in the top right hand corner of the webpage. A new webpage is opened with the FAQ section as shown in the below image.



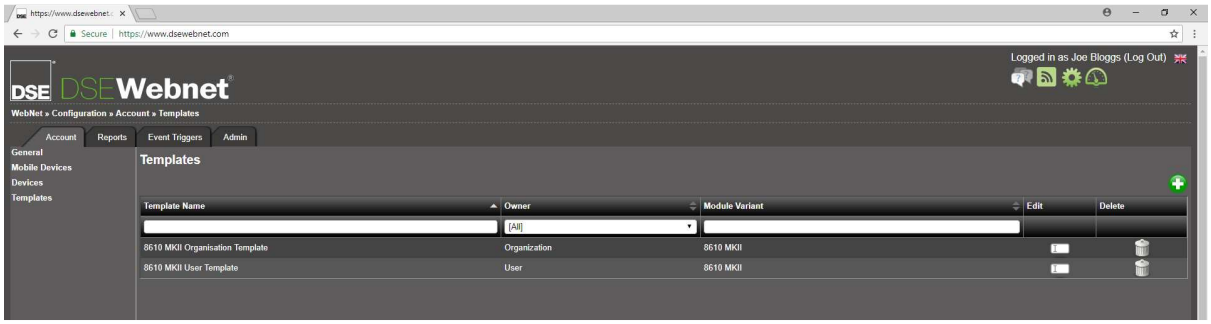
4.6 WIDGET TEMPLATES

NOTE: To apply the *Widget Template* to a *DSE Controller*, it must be selected at the DSE Controller view level. Refer to section entitled *Template Selection* elsewhere in this document for further information.

NOTE: Dependent upon access restrictions set by the *Organisation Administrator,* some options and sections may not be accessible by the user.

The *Widget Templates* allow the user to edit the graphical user interface of the *DSE Controller View Level* by adding, editing and removing pages and the information displayed on them.

The *Widget Editor* is entered by clicking on the gauge icon in the top right hand corner of the webpage.

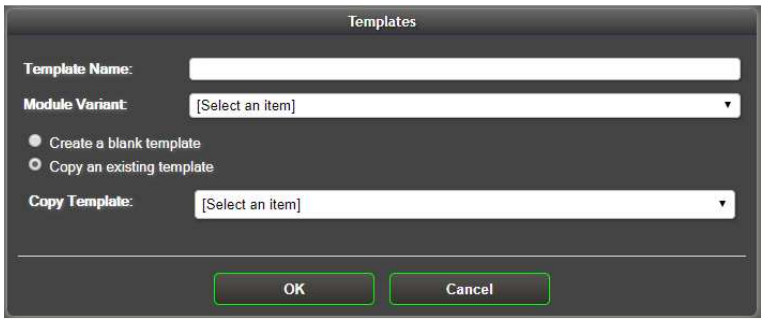


4.6.1 EDIT TEMPLATE

To edit an existing *Widget Template*, click the *Edit* button, the *Widget Template Editor* option is opened.

4.6.2 ADD TEMPLATE

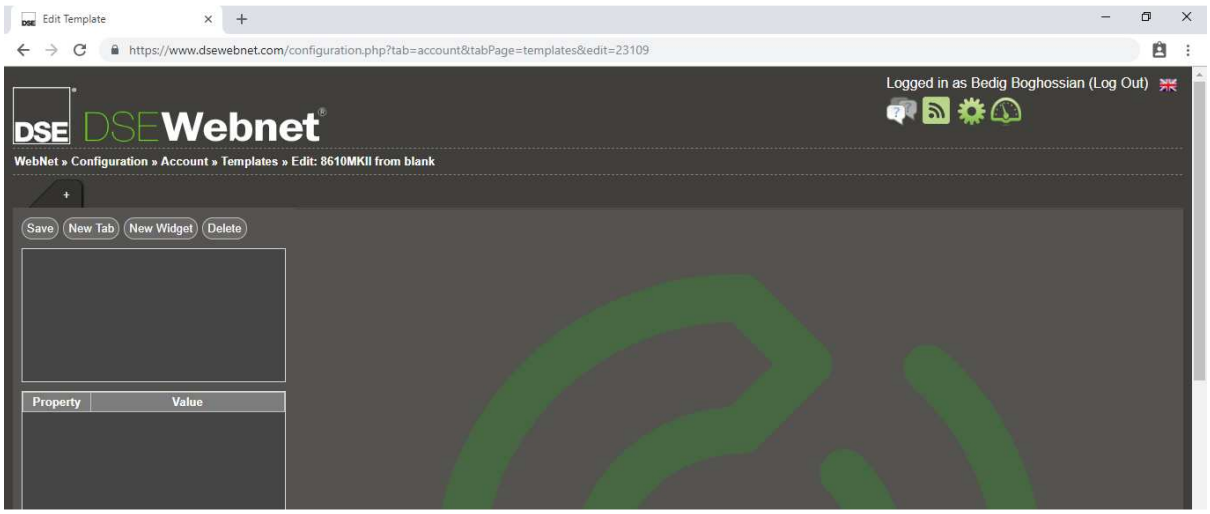
To create a new *Widget Template*, click the *Plus* button located on the top right hand corner of the webpage. The *Widget Template Editor* option is opened.



Setting	Description
Template Name	Name the new widget template
Module Variant	Select the DSE Controller's variant on which the widget template is required to be created.
Create a blank template	Select this option to create a blank template with empty pages without any display information or control buttons.
Copy an existing template	Select this option to create the template based on the default template file where all the pages, display information and control buttons of the relevant module variant do already exist.
Copy Template	Select the default template relevant to the *Module Variant* selected above. This can be a default template or a previously created template widget.

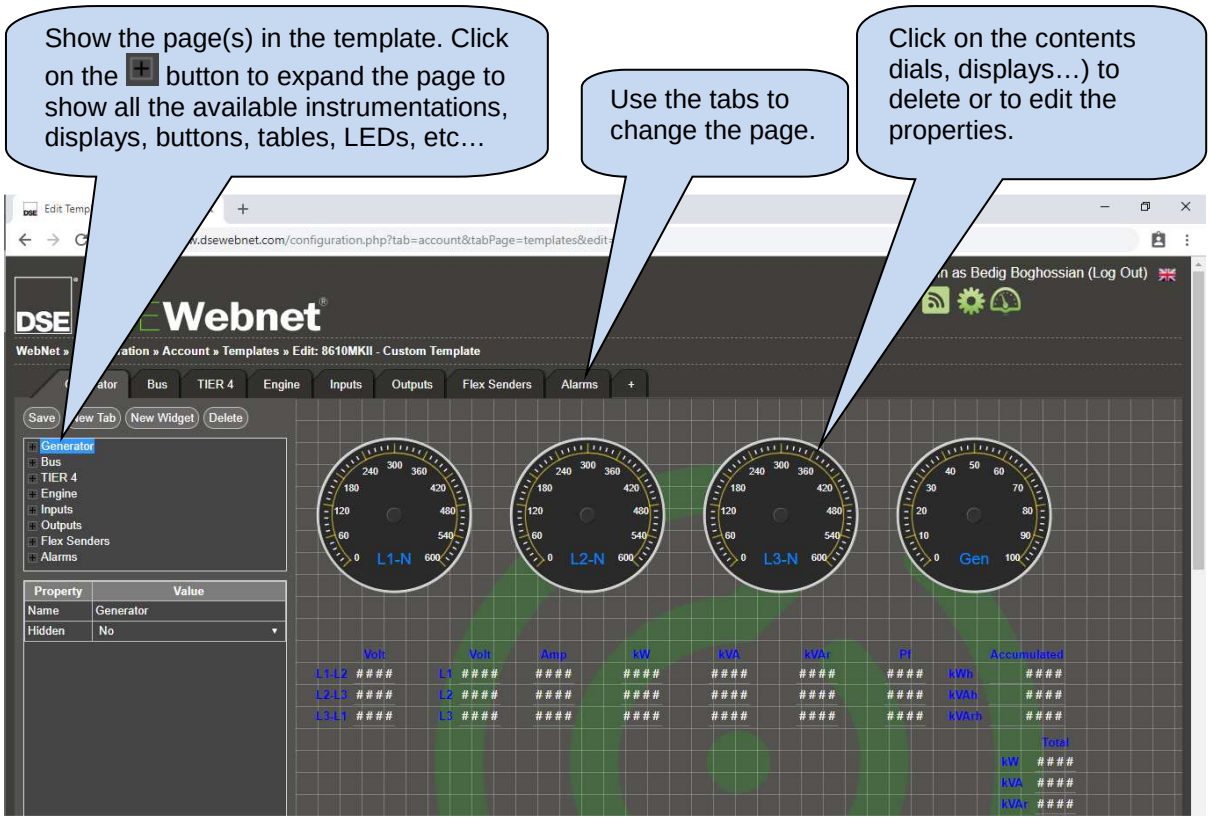
4.6.2.1 CREATE A BLANK TEMPLATE

In the below example a DSE8610 MKII template is created using the *Create Blank Template* option.



4.6.2.2 COPY AN EXISTING TEMPLATE

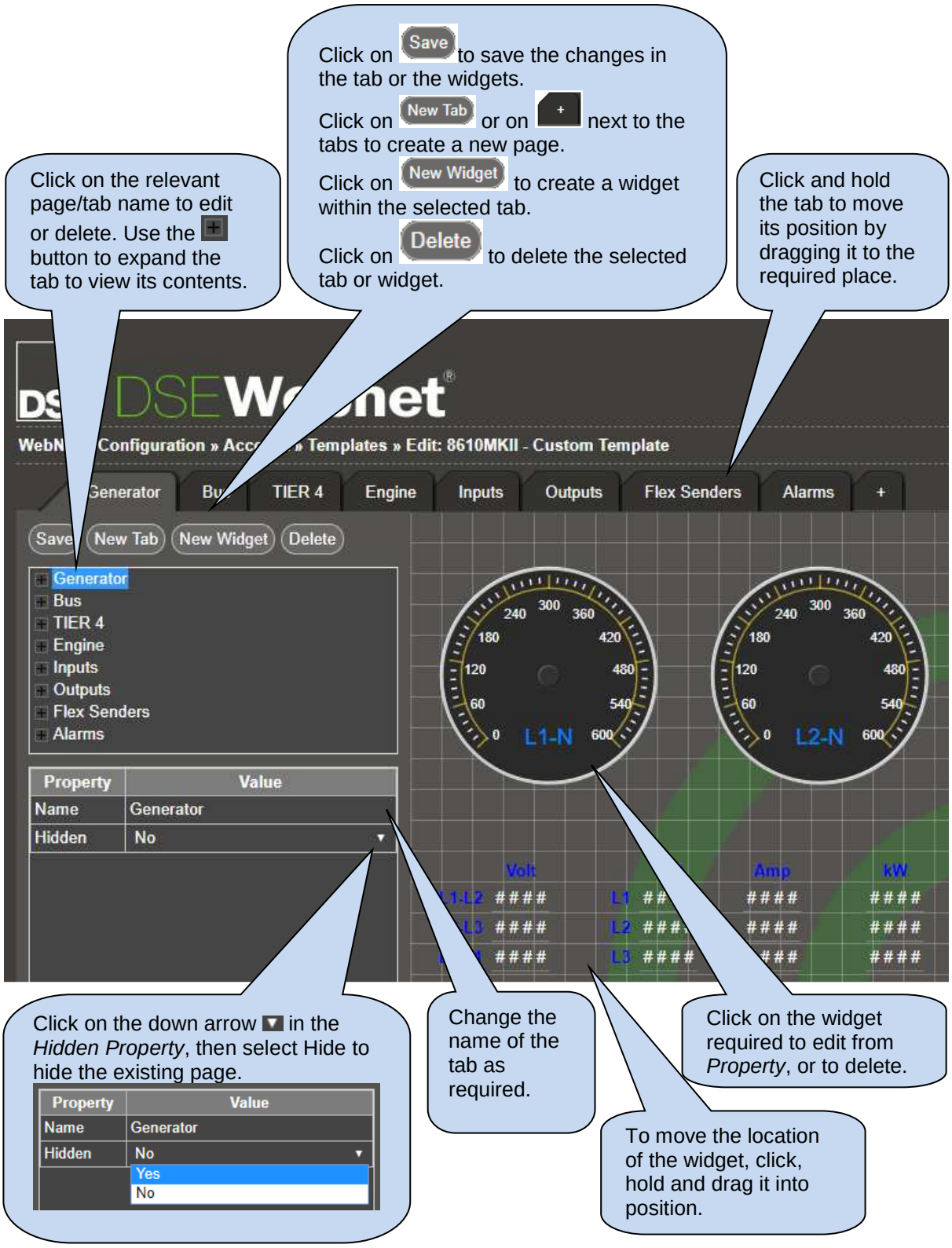
In the below example an 8610MKII template is created using the Copy an Existing Template option.



Here in this option all the default pages, instrumentation displays, and control buttons are available. The user is able to delete some or all of these pages, or instrumentations, or displays, or the control buttons, or status indications, or alarm tables in the template. The user is also able to add new pages, or instrumentation displays, or the control buttons, or status indications, or alarm tables in the template.

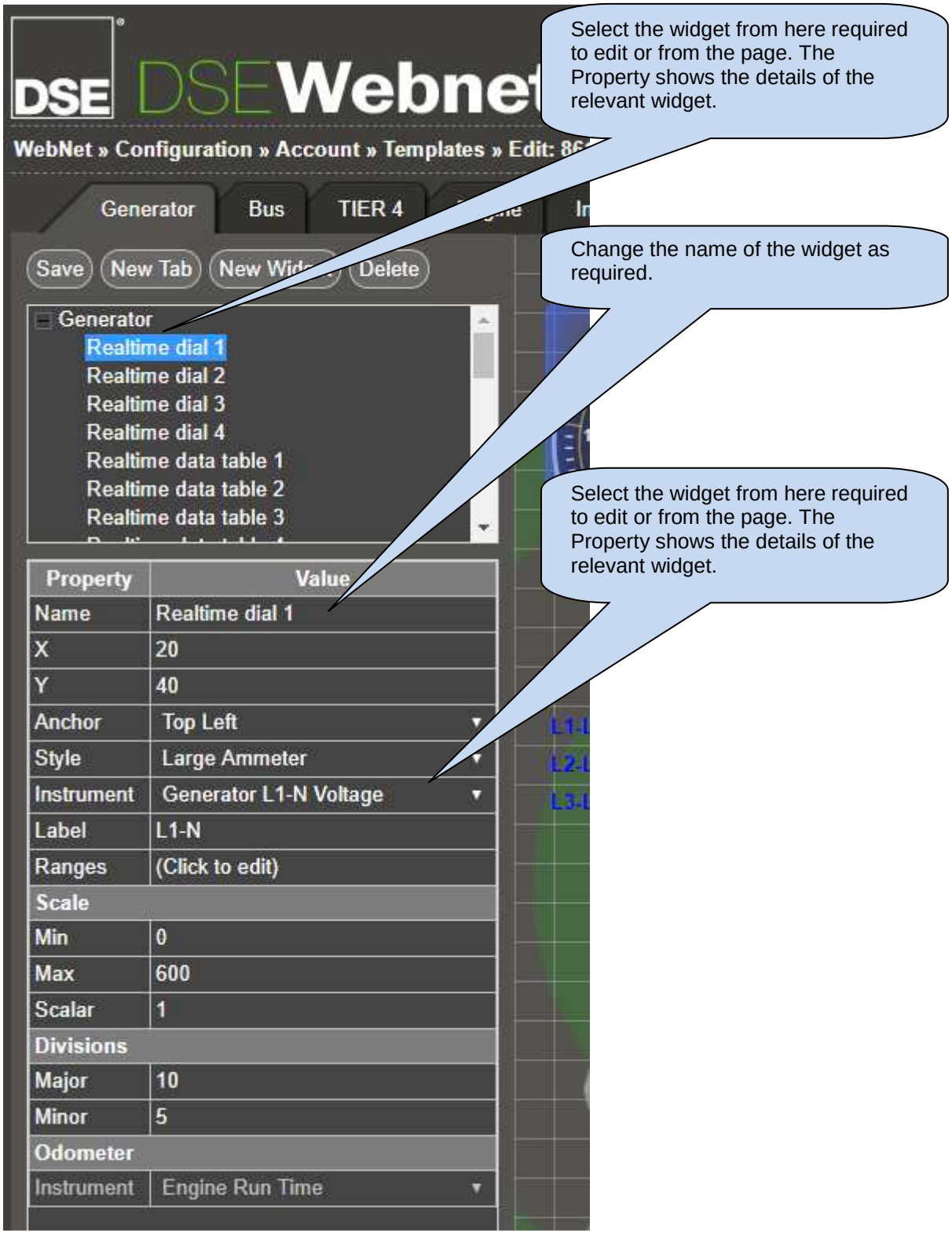
4.6.3 ADDING, EDITING & DELETING PAGES

When adding a *DSE Controller* to the DSEWebNet, a number of pages are provided by default. The pages provided by default differ depending upon the *DSE Controller*. Users can remove these default pages and replace them with new pages that are more appropriate to their needs.



4.6.4 EDITING WIDGETS

Selecting an existing widget in the template page.



4.6.5 ADDING A NEW WIDGET

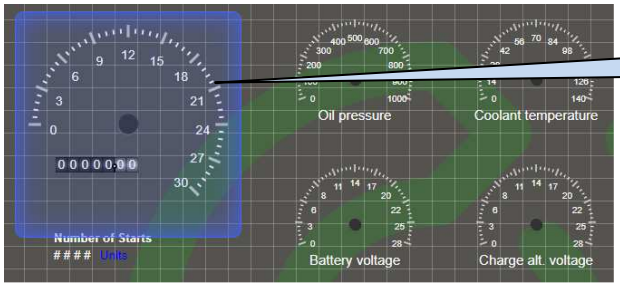


Select the type of widget to be created. The available widgets are *Dial, Data Table, Alarm Table, Graph, Control Button, Data Display, Control Button, Data Display, IO Table, LED, Digital Display, Label, Lookup, Date, LED Multi, TIER IV, Flex Output, Flex Sender, & Odometer*.
More information on these is located in their respective sections elsewhere in this manual.

Select to add a label.

Select to add a date display.

Once the widget is selected, drag and place it in the required place within the tab, then click on the placed widget to configure its *Property*. Details on the widgets are described in the following sections.



The highlighted widget shows which one is currently selected.

4.6.5.1 DIAL

NOTE: Custom Instruments are only available if configured in the DSEGateway. For more information, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on our website: *www.deepseaplc.com*

Select  from *New Widget* to add a new dial.

Property	Value
Name	Name of the dial
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Style	Choose the style of the widget as *Large Ammeter*, or *Rev Counter*, or *Small Gauge*
Instrument	The instrument to display
Label	Text label as it appears on the widget
Ranges	Click to adjust colours at specific ranges of the dial. An example is shown below.

Scale	Value
Min	The minimum value of the dial
Max	The maximum value of the dial
Scalar	**NOTE: The scalar value is only applicable when a custom instrument is selected.** **Enter the appropriate scaling value for the instrument as documented in the DSE MODBUS document.**

Divisions	Value
Major	The major division of the dial
Minor	The minor division of the dial

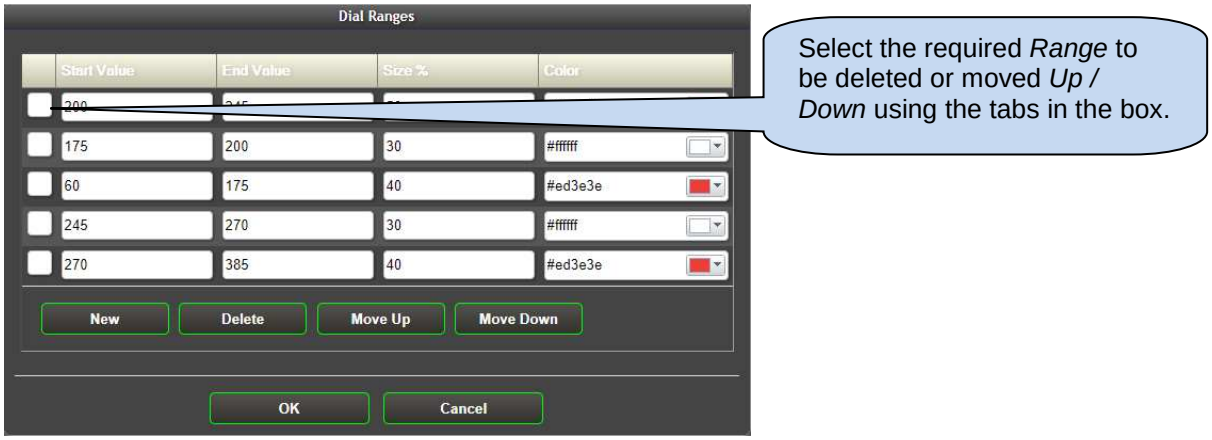
Odometer	Value
Instrument	This is only applicable on the *Rev Counter* style dials, it is the second instrument of the widget. Select the instrument to be displayed on the bottom of the *Rev Counter Dial*. Usually the accumulative instruments such as the *Engine Run Hours* is used as *Odometer*.

An example of the Ranges used is shown below, where the different instrument levels are marked with different colours according to its alarm severity.

Dial Ranges

In the example below, the *Dial* shows different colours for different levels of *Generator Voltage* instrument, indicating the *Warning* range and the *Shutdown* range of the *Generator Voltage* to the user.





Select the required *Range* to be deleted or moved *Up / Down* using the tabs in the box.

Dial Ranges	Value
Start Value	The starting level where the *Range* starts filing the selected colour
End Value	The end level of the *Range*.
Size %	Adjust the percentage of the *Range* that the colour must fill
Colour	Select the colour of the dial *Range*.

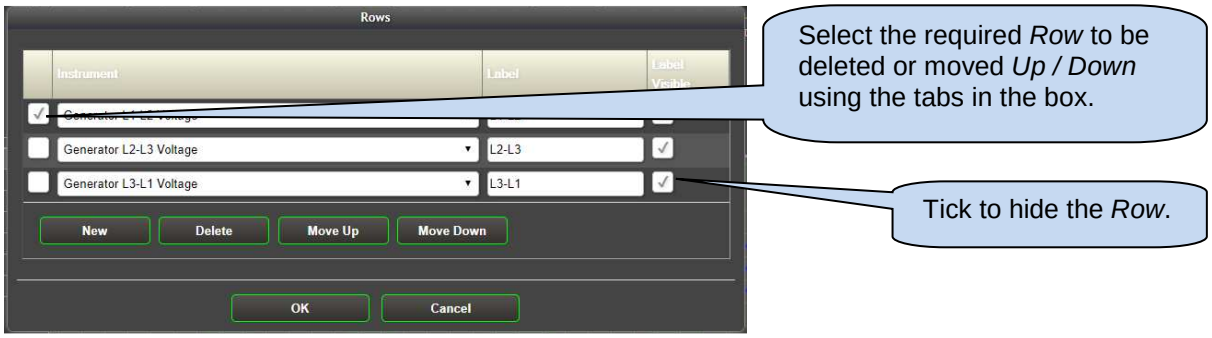
4.6.5.2 DATA TABLE

The *Data Table* widget allows the user to view numerous additional numeric parameters of the *DSE Controller* in a table format.

Select  from *New Widget* to add a new date table.

Property	Value
Name	Name of the data table
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Title	Text title as it appears on the widget
Rows	Click to configure the instruments in the data table

Rows



Data Table Rows	Value
Instrument	Select the instrument to be displayed on this *Row*.
Label	The name as it appears of the *Row*.

4.6.5.3 CONTROL

Select  from *New Widget* to add a new control button.

Property	Value
Name	Name of the button
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Control	Select the function of the button. The available button functions depend on the *DSE Controller*. Click on the field to view the list of the controls for the specific *DSE Controller*.
Style	Select the style of the button.

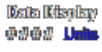
4.6.5.4 LED

Select  from *New Widget* to add a new LED.

Property	Value
Name	Name of the LED.
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
LED	Select the status indication of the LED. The available status functions depend on the *DSE Controller*.
Style	Select the style of the LED.
Label	The text label of the LED
Color	The Colour of the LED when it is active.

4.6.5.5 DATA DISPLAY

The *Data Display* widget allows the user to view an additional numeric parameter of the *DSE Controller*.

Select  from *New Widget* to add a new data display.

Property	Value
Name	Name of the Data Display
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Label	Text label as it appears on the widget
Instrument	Select the instrument to display on the *Data Display*
Display Units	**Yes =** The unit is displayed **No =** The unit is not displayed

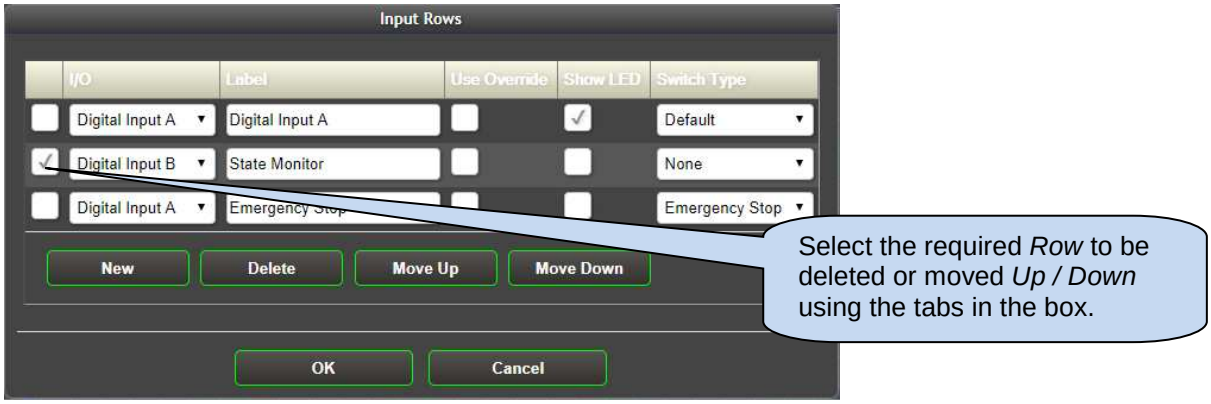
4.6.5.6 IO TABLE

Select 

from *New Widget* to add a new IO table.

Property	Value
Name	Name of the IO table.
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
I/O Type	Specify Digital Input or Digital Output
Rows	Click to open the *IO Rows* Box.

IO Rows



IO Rows	Value
IO	Select the input or the output of the *DSE Controller*.
Label	Type a different label to show upon the *Use Override* activation.
Use Override	Activate so the *Label* takes effect instead of showing the relevant IO's function name as configured in the *DSE Controller*.
Show LED	Select the colour of the dial *Range*.
Switch Type	Select default to keep the IO, or select *Emergency Stop* to configure an *Emergency Stop Row*.

4.6.5.7 ALARM TABLE

Select 

from *New Widget* to add a new alarm table

Property	Value
Name	Name of the Data Display
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget

4.6.5.8 FLEXIBLE SENDER

Select  from *New Widget* to add a new flexible sender.

Property	Value
Name	Name of the Data Display
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Label	The text label of the widget
Value	
Type	
Switch	
Polarity	
Source	

Divisions	Value
Major	The major division of the widget
Minor	The minor division of the widget

4.6.5.9 TIER IV

Select  from New Widget to add a new Tier IV instrument.

Property	Value
Name	Name of the widget
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Label	Text label as it appears on the widget
Instrument	The Tier IV engine lamp status to display
Type	Select the type of the Tier IV icon. Options are: DEF, DPF, DPF Inhibit, Engine, HEST, HCR.
Warning Level	Engine alarm severity level, this is indicated by numbers.
Alert Level	The alert levels of the engine alarm.

4.6.5.10 DIGITAL DISPLAY

Select  from New Widget to add a new digital display. This is used for engine status or alarm indications.

Property	Value
Name	Name of the dial
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Instrument	Select the instrument to display read from
Style	Select the style of the *Digital Display* widget
Label	Text label as it appears on the widget
Green Level	The Instrument level when the *Digital Display* turns green.
Amber Level	The Instrument level when the *Digital Display* turns amber.
Red Level	The Instrument level when the *Digital Display* turns red.

4.6.5.11 FLEX OUTPUT

Select  from New Widget to add a flexible output.

Property	Value
Name	Name of the widget
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Label	Text label as it appears on the widget
Source	
Type	
Frequency	
Value	
Range	
State	
Polarity	

4.6.5.12 ODOMETER

Select  from New Widget to add an odometer.

Property	Value
Name	Name of the dial
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Instrument	Select the instrument to display
Label	Text label as it appears on the widget

Digits	Value
Integral	The number of integer places in the display
Fractional	The number of decimal places in the display

4.6.5.13 LED MULTI

The *LED Multi* is used to indicate different statuses by different colours.
Select  from *New Widget* to add a new *LED Multi*.

Property	Value
Name	Name of the *LED Multi* widget
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Style	Bar, Round, Triangle
Label	Text label as it appears on the widget
LED A	Select the state to change to *Colour A* when it is active. The state instruments depend on the *DSE Controller* being in use.
Color A	Select the Colour from the list to turn to when only *LED A* instrument is active.
LED B	Select the state to change to *Colour B* when it is active. The state instruments depend on the *DSE Controller* being in use.
Color B	Select the Colour from the list to turn to when only *LED B* instrument is active.
Color A + B	Select the Colour from the list to turn to when both *LED A* & *LED B* instruments are active.

4.6.5.14 LOOKUP

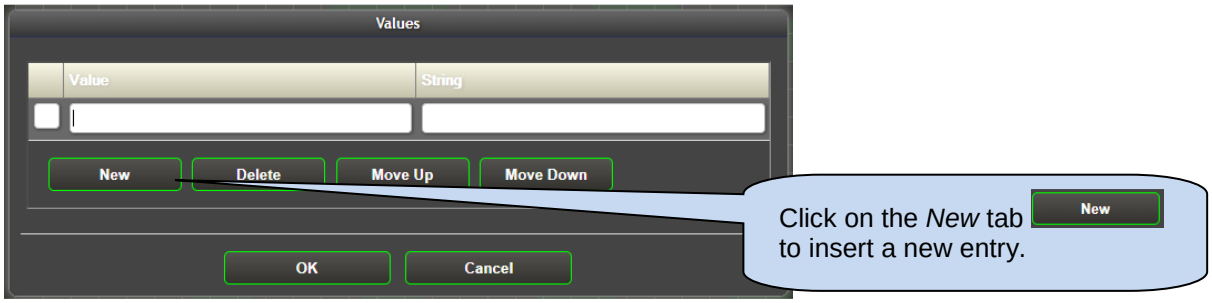
The LookUp is used to highlight an instrument value.

Select 

from New Widget to add a lookup instrument.

Property	Value
Name	Name of the dial
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Label	Text label as it appears on the widget
Instrument	Select the instrument to be looked up
Values	Click here to open the Values box, to insert the value(s) when to display certain texts.

When you click on Values the following box will be opened.



Values	Description
Value	The value in number of the *Instrument* to be looked up. When this value of the instrument is read by the widget, the *String* is displayed.
String	Insert the text to be displayed when its *Value* is satisfied

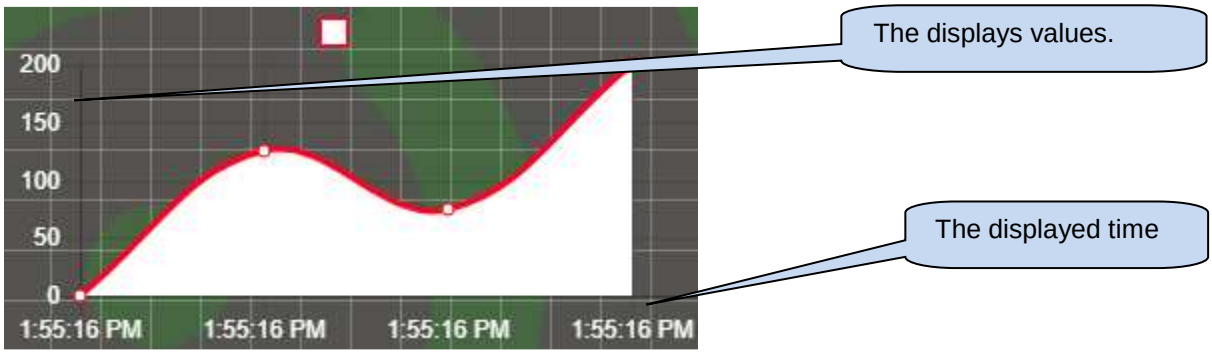
4.6.5.15 GRAPH

Select  from New Widget to add a graph.

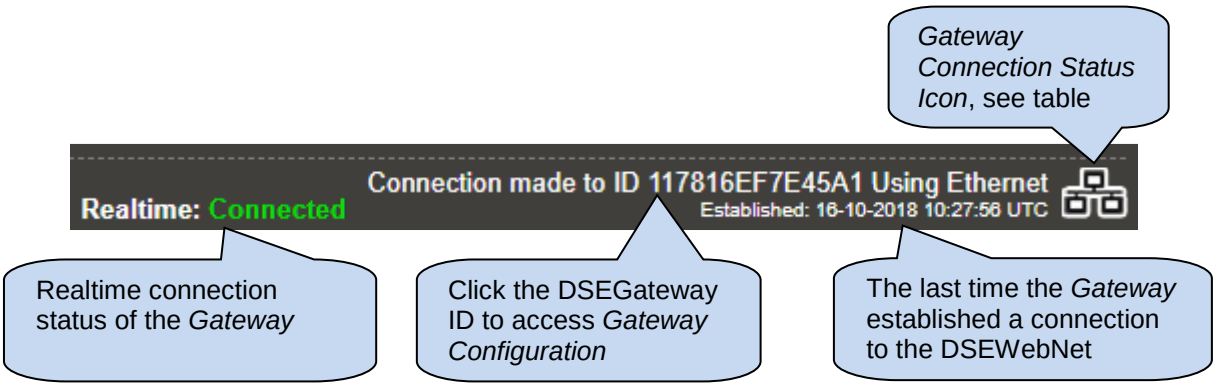
Property	Value
Name	Name of the *Graph* widget
X	The horizontal coordinate for the widget's location
Y	The vertical coordinate for the widget's location
Anchor	Position of the widget
Width	Set the size of the *Graph* widget
Instrument	Select the *Graph* instrument from the list
Label	Text label, this is the title of the *Graph* as it appears on the widget
Font Color	Select the texts colour

Series	Value
Area Fill	**Yes =** The curve's lower area is filled with the *Area Fill Colour* **No =** The curve's lower area is not filled
Area Fill Color	Select the colour to fill the curve's lower area.
Border Color	Select the curve's colour

Below is an example showing the *Graph* widget configured with an *Area Fill* enabled with selected colours for the *Area* and for the *Border*.



4.7 GATEWAY CONFIGURATION & CONNECTION STATUS



4.7.1 GATEWAY CONNECTION STATUS ICON

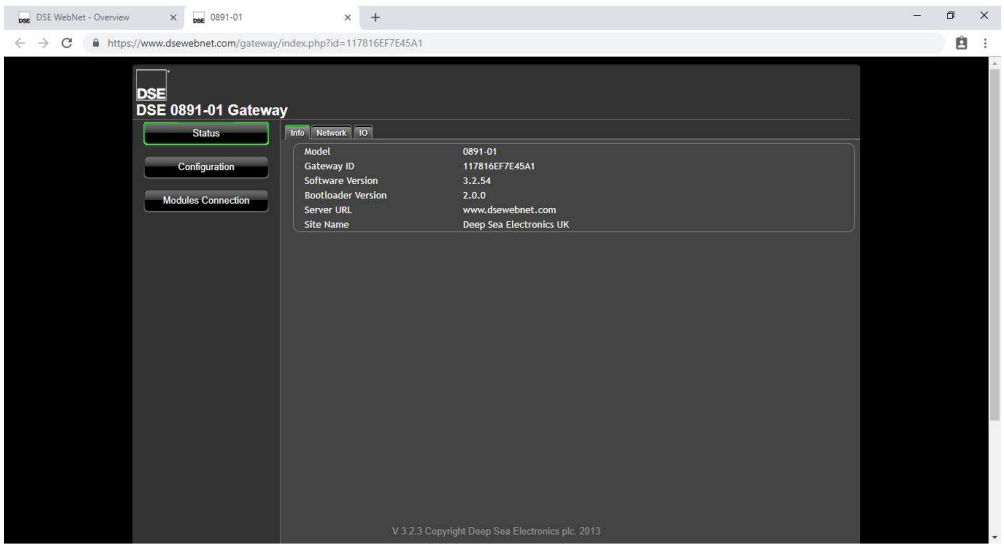
The table below shows the icons used to represent the site connection statuses on the DSEWebNet.

Icon	Description
	The DSEGateway is offline (no communication)
	The DSEGateway is online and communicating via an Ethernet connection
	The DSEGateway is online and communicating via a GSM connection

4.7.2 GATEWAY CONFIGURATION

NOTE: For information with regards to the set up of the DSEGateway, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on our website: *www.deepseaplc.com*

Clicking the DSEGateway ID opens a new webpage which accesses the settings of the device. This enables the user to make changes to the DSEGateway without needing to visit the site.

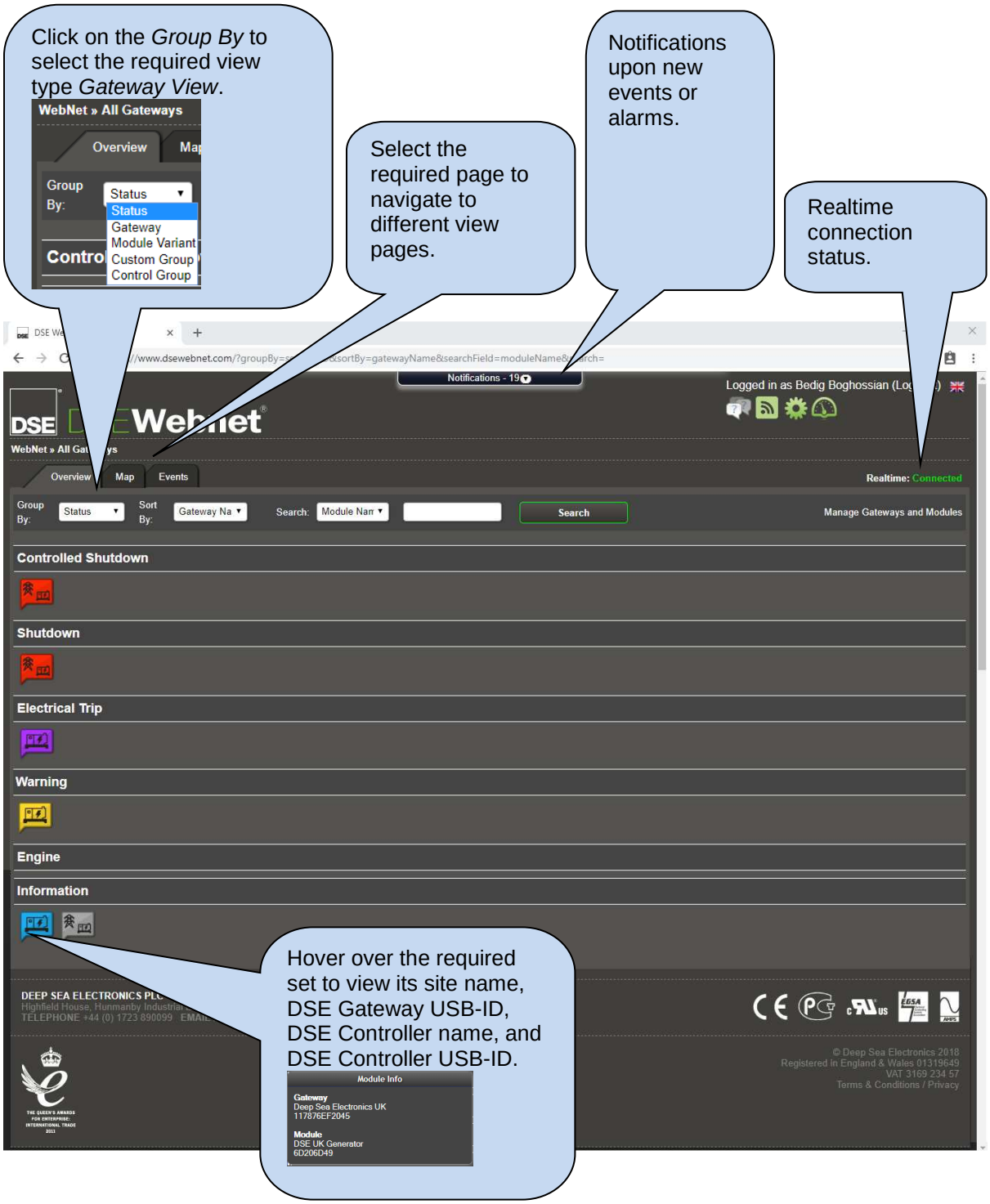


4.8 SYSTEM NAVIGATION

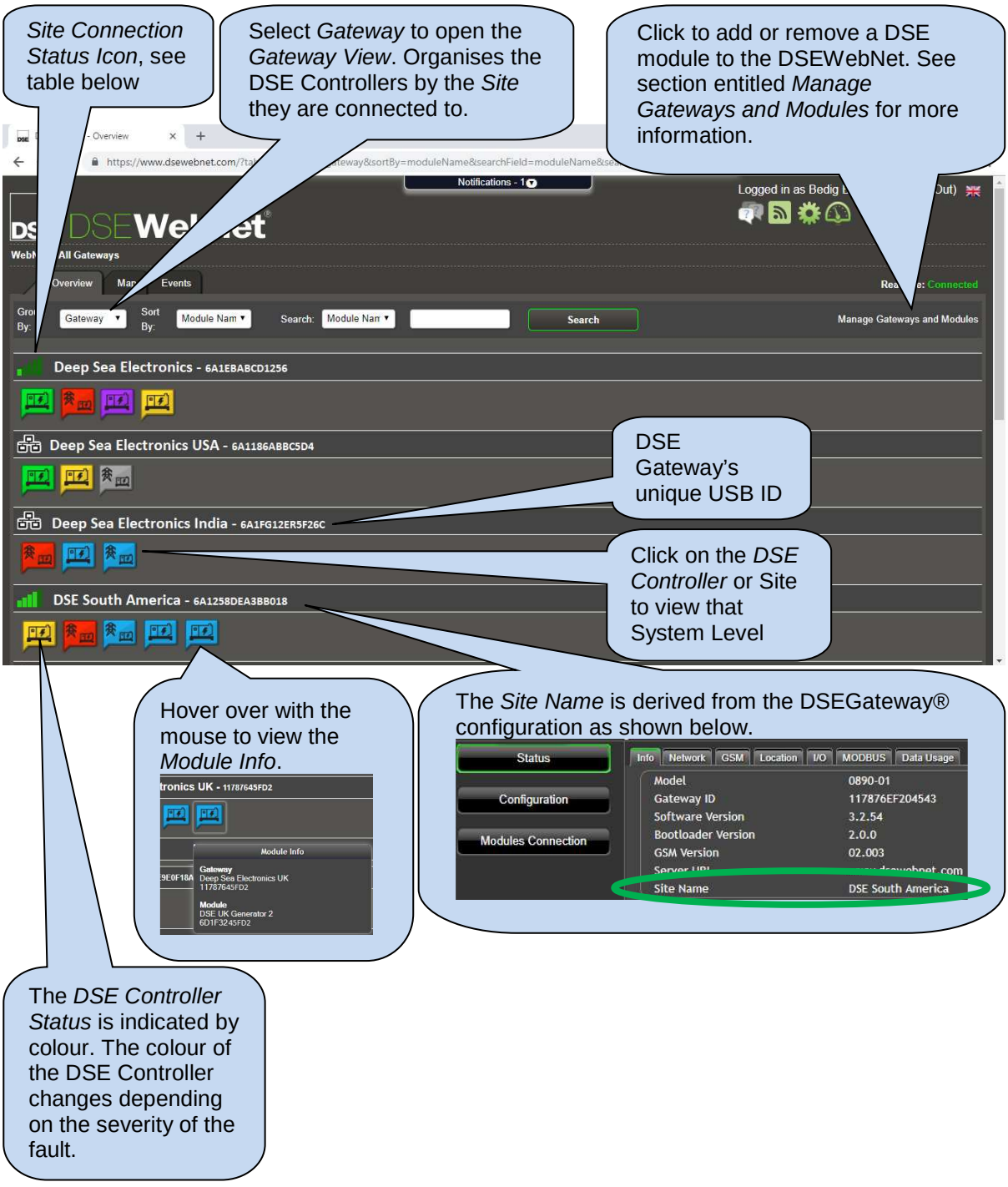
NOTE: For information with regards to the set up of the DSEGateway, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on our website: *www.deepseaplc.com*

The image below shows an example of the *System Navigation* section for a DSEWebNet account that has access to multiple *Sites* and *DSE Controllers*.

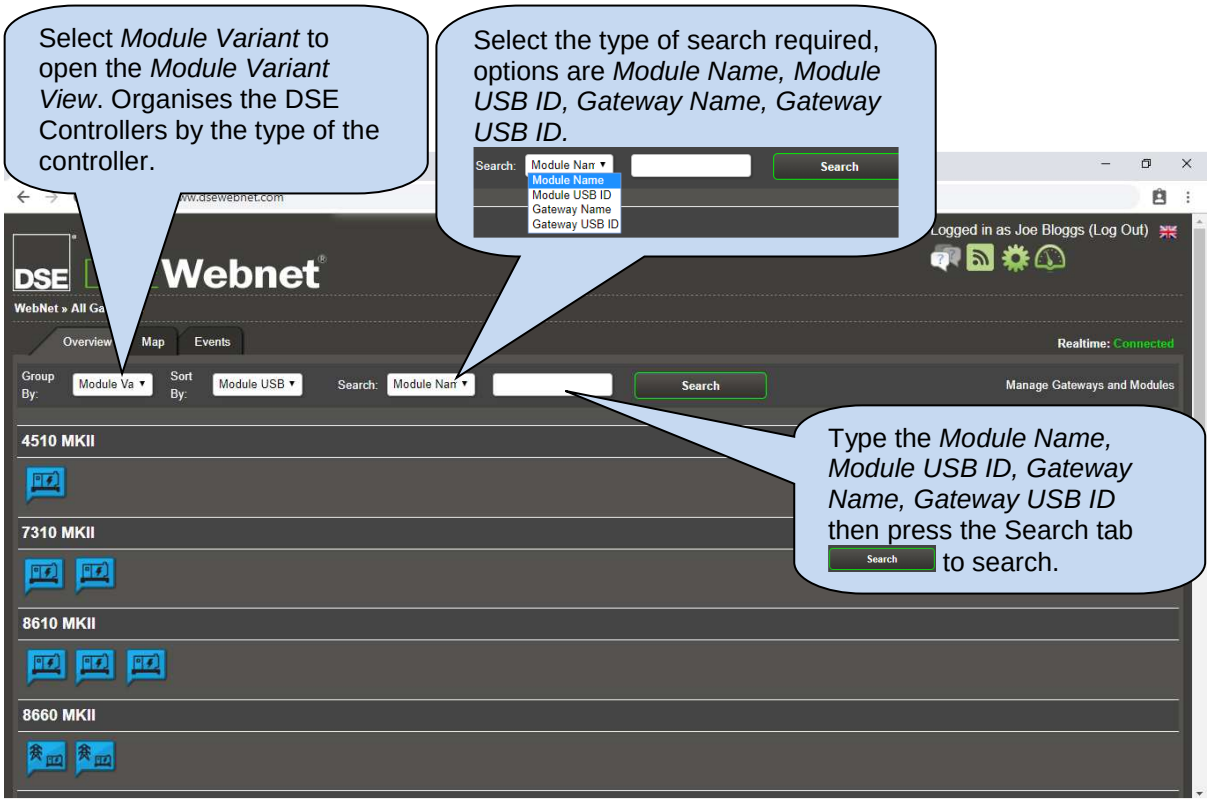
4.8.1 OVERVIEW PAGE



4.8.1.1 GATEWAY VIEW



4.8.1.2 MODULE VARIANT



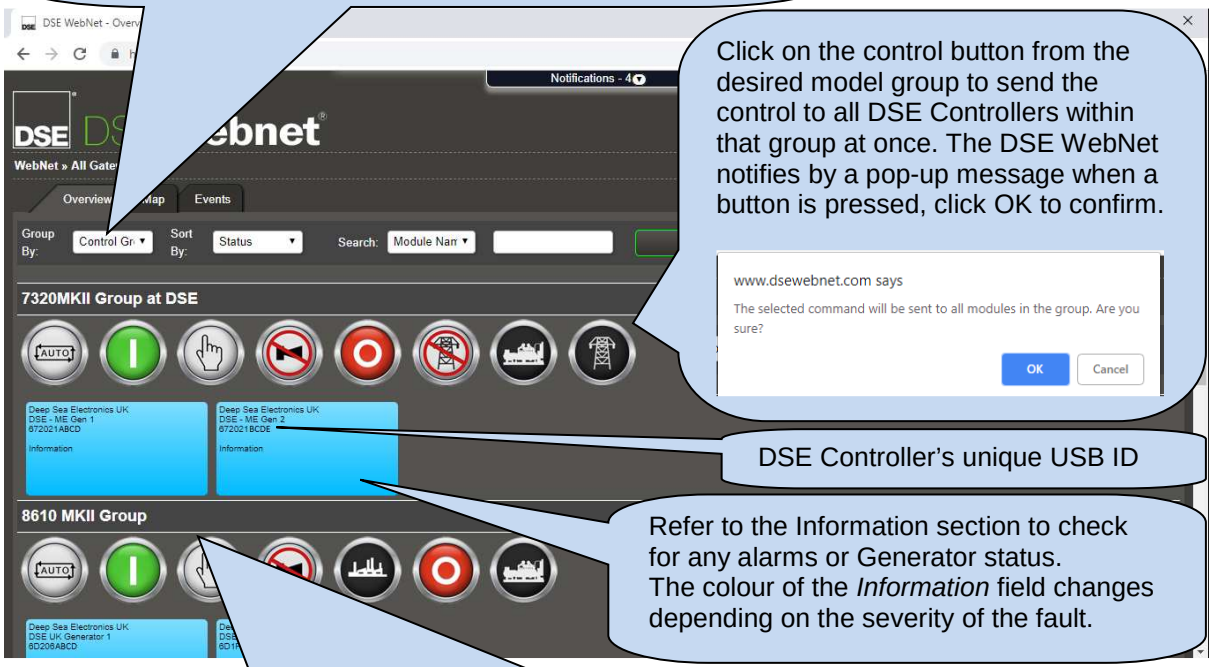
4.8.1.3 CUSTOM GROUP VIEW

Select *Custom Group View.* Organises the DSE Controllers by the *Group* they are associated with. This option is only available if the *User Account* is part of an *Organisation* that has *Groups* configured. Refer to the section entitled Groups elsewhere in the manual for more information.



4.8.1.4 CONTROL GROUP VIEW

Choose *Control Group* from here. Organises the DSE Controllers by the *Group* they are associated with. This option is only available if the *User Account* is part of an *Organisation* that has *Groups* configured.

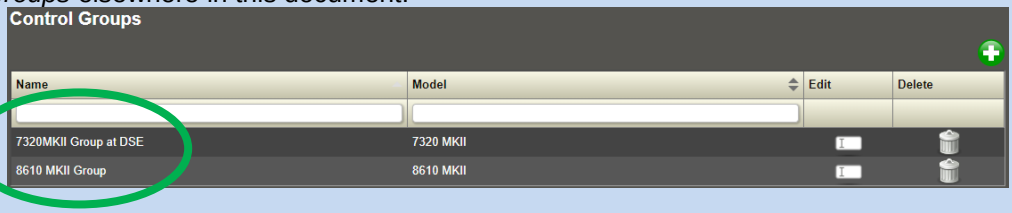


Click on the control button from the desired model group to send the control to all DSE Controllers within that group at once. The DSE WebNet notifies by a pop-up message when a button is pressed, click OK to confirm.

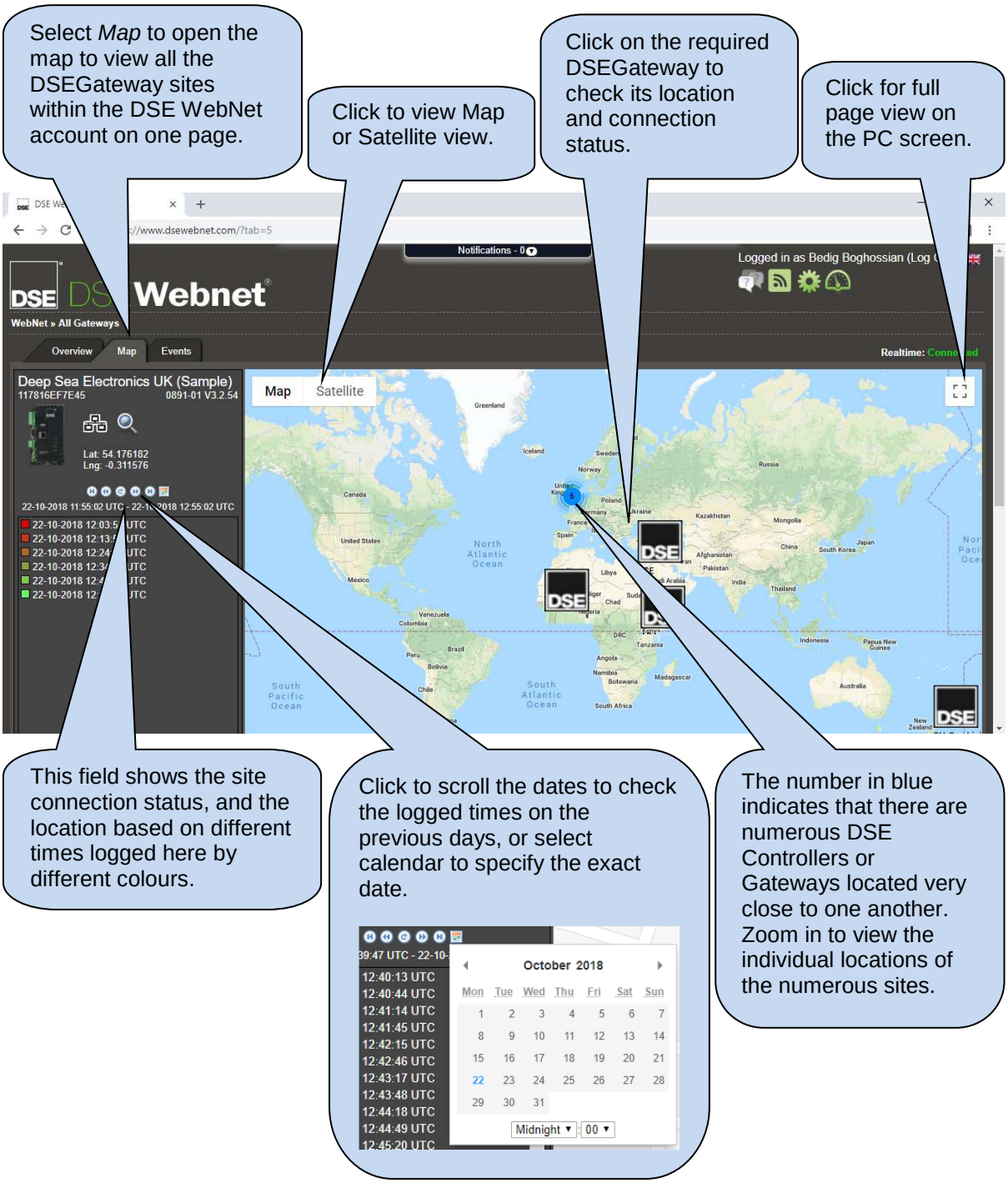
DSE Controller's unique USB ID

Refer to the Information section to check for any alarms or Generator status.
The colour of the *Information* field changes depending on the severity of the fault.

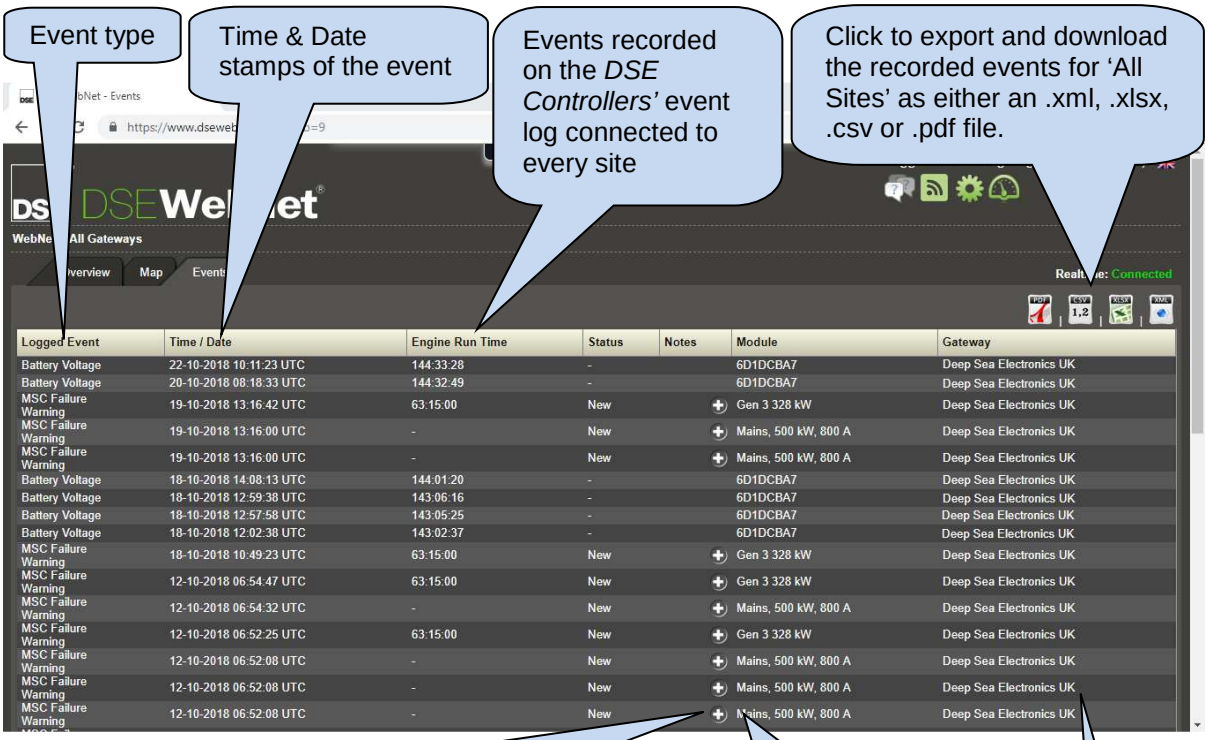
The *Group Name* is derived from the *Group* configuration in the *Admin* Section as shown below or from the *DSE Controller* model number. For more details, refer to section *View Groups* elsewhere in this document.



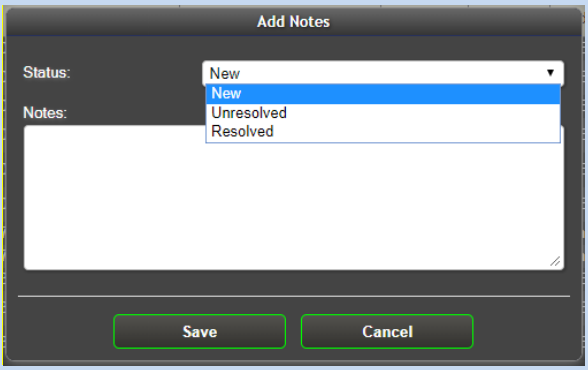
4.8.2 MAP PAGE


Select *Map* to open the map to view all the DSEGateway sites within the DSE WebNet account on one page.
Click to view Map or Satellite view.
Click on the required DSEGateway to check its location and connection status.
Click for full page view on the PC screen.
Notifications - 0
Logged in as Bedig Boghossian (Log
DSE Webnet
WebNet » All Gateways
Overview
Map
Events
Realtime: Connected
Deep Sea Electronics UK (Sample)
117816EF7E45
0891-01 V3.2.54
Lat: 54.176182
Lng: -0.311576
Map
Satellite
This field shows the site connection status, and the location based on different times logged here by different colours.
Click to scroll the dates to check the logged times on the previous days, or select calendar to specify the exact date.
October 2018
Mon Tue Wed Thu Fri Sat Sun
Midnight
00
The number in blue indicates that there are numerous DSE Controllers or Gateways located very close to one another. Zoom in to view the individual locations of the numerous sites.

4.8.3 EVENTS PAGE



Click on the *Plus Button* to open the *Notes*. The *Add Notes* is only available for alarms where the user can provide notes according to its status. The options to choose are *New*, or *Unresolved*, or *Resolved*.



Click the *DSE Controller* to view the specific *DSE Controller* that recorded the event.

Click the *Specific Site* name to view the *Specific Site* that recorded the event.

4.8.4 GATEWAY CONNECTION STATUS ICON

The table below shows the icons used to represent the different site connection statuses on the DSEWebNet.

Icon	Description
	The DSEGateway is offline (no communication)
	The DSEGateway is online and communicating via an Ethernet connection
	The DSEGateway is online and communicating via a GSM connection

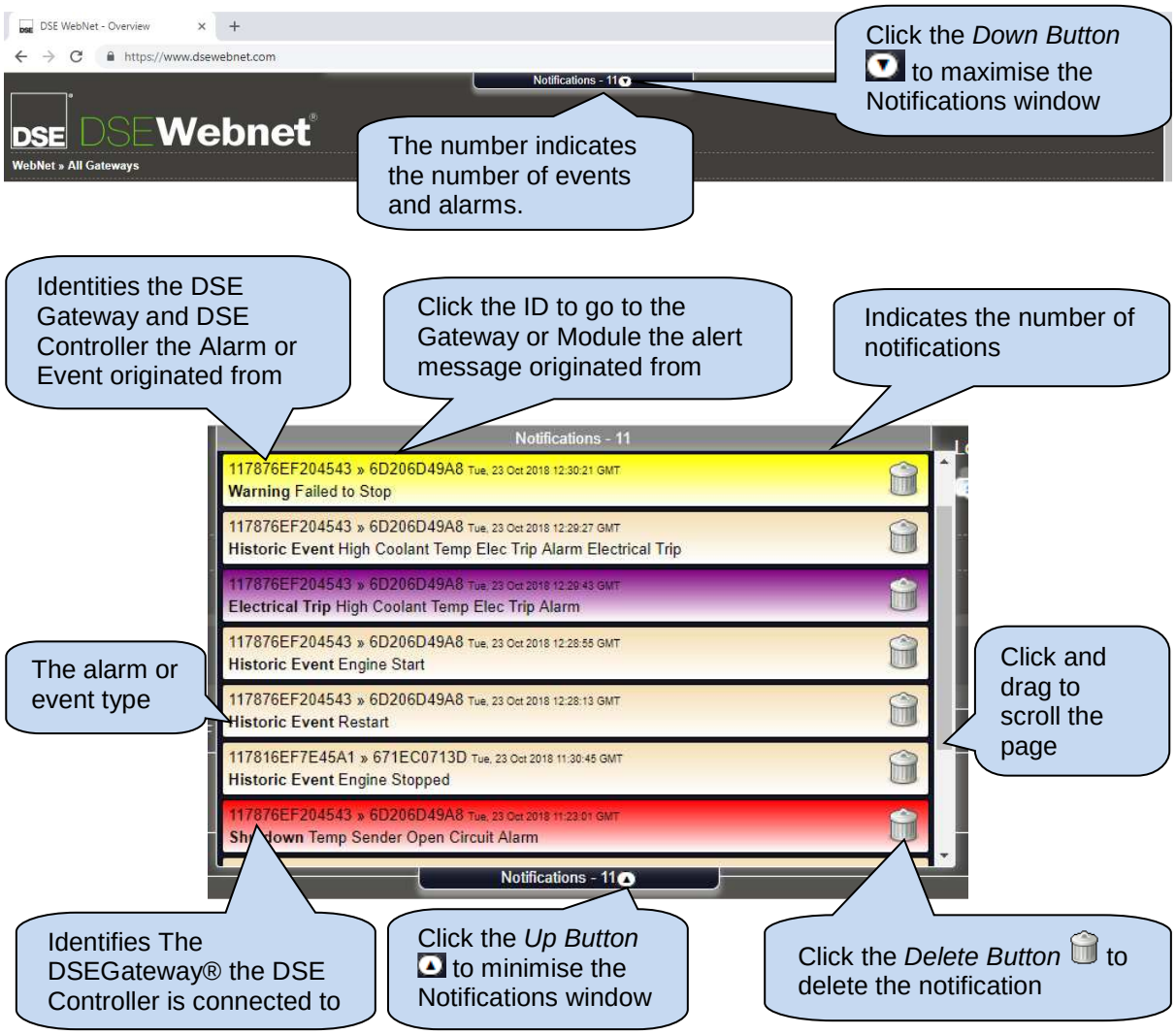
4.8.5 DSE CONTROLLER STATUS

The table below shows the colours used to represent the status of a *DSE Controller* on the DSEWebNet. The icon in the DSE Controller Status changes depending on the module's type, Remote Start, AMF, ATS, or Engine Control Module.

State	Description
	The DSE Controller is offline (no communication)
	The DSE Controller is online (communicating) and in standby in any control mode
	The DSE Controller is running a generator in any control mode.
	The DSE Controller has a Warning alarm active
	The DSE Controller has an Electrical Trip alarm active
	The DSE Control has a Shutdown alarm active.

4.9 ALARM AND EVENT ALERT MESSAGES

Upon a DSE controller recording a new event in its own event log or an alarm becoming active, an alert message is logged in the *Notifications* section middle top side of the webpage. The *Notifications* tab is available on all pages of the DSE WebNet system.



Alert Message	Type	Description
	Module Event	A DSE Controller on the DSEWebNet system has recorded an event in its own event log.
	Engine Alarm	A DSE Controller on the DSEWebNet system has recorded an alarm from the engine's ECU in its own event log.
	Warning	A DSE Controller on the DSEWebNet system has recorded a warning alarm its own event log.
	Electrical Trip	A DSE Controller on the DSEWebNet system has recorded an electrical trip alarm its own event log.
	Shutdown	A DSE Controller on the DSEWebNet system has recorded a shutdown alarm its own event log.

4.10 MAP FEATURE

The DSEWebNet displays the location of the *Site* or *DSE Controller* on the map. The maps used are provided and updated by Google Maps.

Select the *Map Style*, see section for details

To navigate the map, click and hold left mouse button and drag. To zoom in or out, press the ctrl key and rotate the mouse wheel, the following message appears on the Map to perform this.
Use ctrl + scroll to zoom the map

Click on the Toggle Screen View icon to view the map in Full Screen mode. Then press on the esc key to exit the Full screen mode.

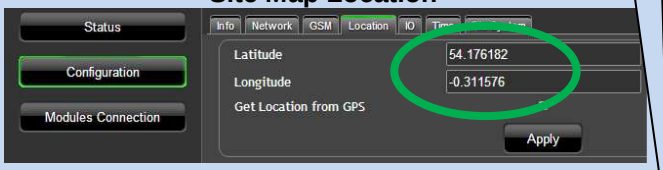


Street View Tool, see section for more details

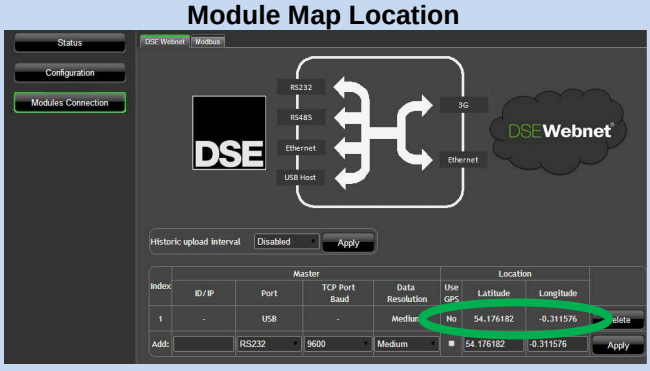
Select to *Show Lines* or *Show Way Point*, see section for more details

The *Map Icon* displays the location and status of the *Specific Site* or *DSE Controller*, see section for detai
The GPS location of the icon is taken from the DSEGateway® Configuration

Site Map Location



Module Map Location



Click the *Map Icon* to view a brief summary of the *Specific Site* or *DSE Controller* status, see section for more details.

4.10.1 STREET VIEW TOOL

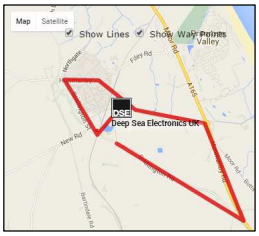
The *Navigation Tool* is used in conjunction with the mouse to navigate around the map.



4.10.2 SHOW LINES & WAY POINTS (LIVE LOCATION MONITORING)

NOTE: Hovering the mouse over a *Way Point* displays the time and date the location was recorded.

Different display methods for site travel information are available to the user using the *Show Lines* & *Show Way Point* options.

Lines		Way Points	
☐= Show Lines Default selection	☑= Show Lines Adds travel information	☐= Show Way Points Default selection	☑= Show Way Points Adds recorded locations
			

4.10.3 MAP ICONS

Different *Map Icons* are used to depict information quickly to the user such as controller location, type and operating state without the need to change page.

4.10.3.1 DSE SITE (DSEGATEWAY) ICON

Site Icon	System View Level	Description
	***All Sites*** Only	The generic icon to depict a site

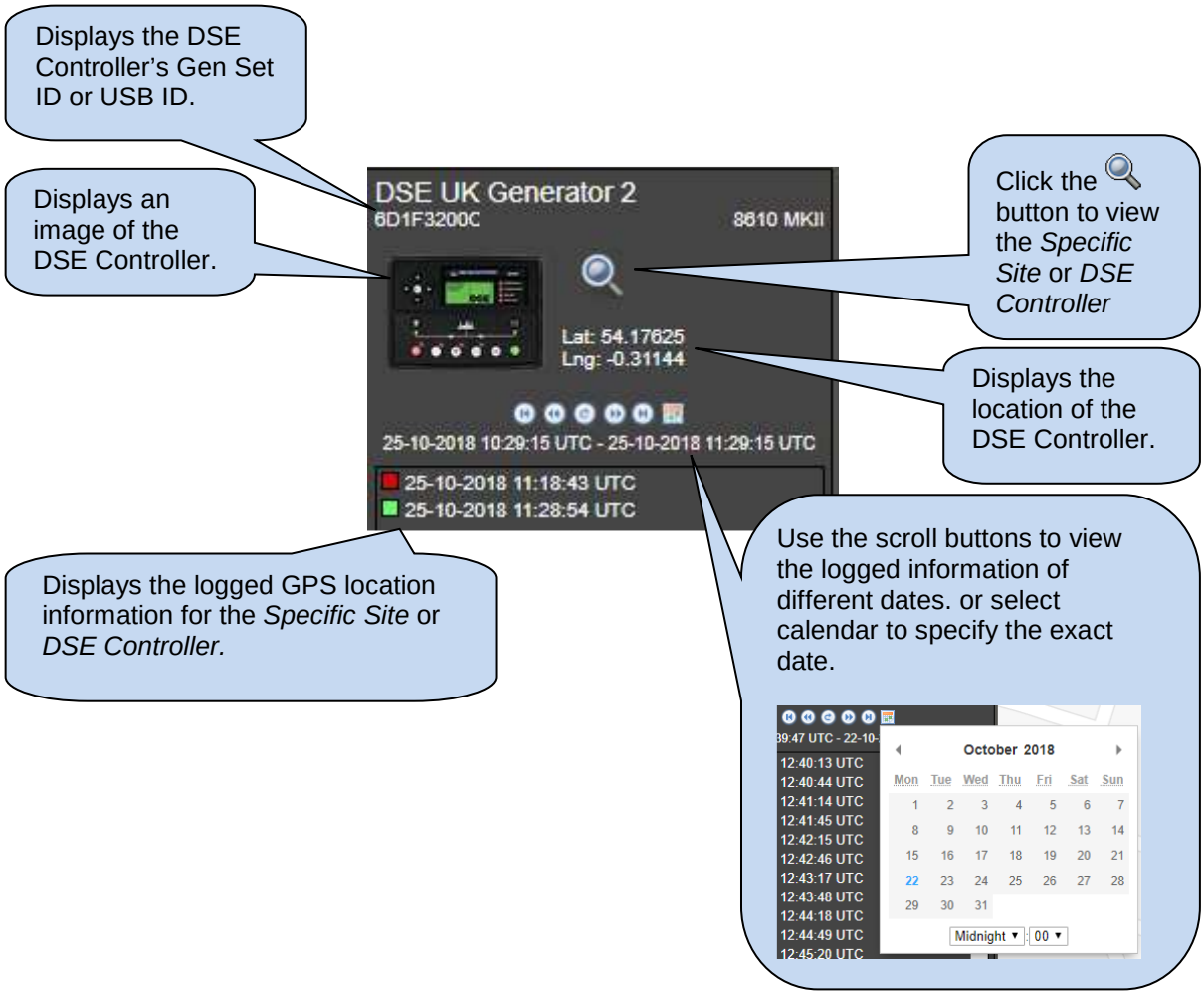
4.10.3.2 DSE CONTROLLER ICONS

Autostart & Bus-Tie Controller Icon	AMF & Mains Controller Icon	ATS Controller Icon	System View Level	Description
			***Specific Site*** Only	The DSE Controller is offline (no communication)
			***Specific Site*** Only	The DSE Controller is online (communicating) and the generator or S2 is not available.
			***Specific Site*** Only	The DSE Controller is online (communicating) and the generator or S2 is available.
			***Specific Site*** Only	The DSE Controller is online (communicating) and has a Warning alarm active
			***Specific Site*** Only	The DSE Controller is online (communicating) and has an Electrical Trip alarm active
		Not Applicable	***Specific Site*** Only	The DSE Controller is online (communicating) and has a Shutdown alarm active.

4.10.3.3 GATEWAY OR DSE CONTROLLER STATUS

NOTE: Parameters displayed are dependent upon the DSE Controller's specification. Refer to the DSE Controller's Operators and Software Manuals for further details.

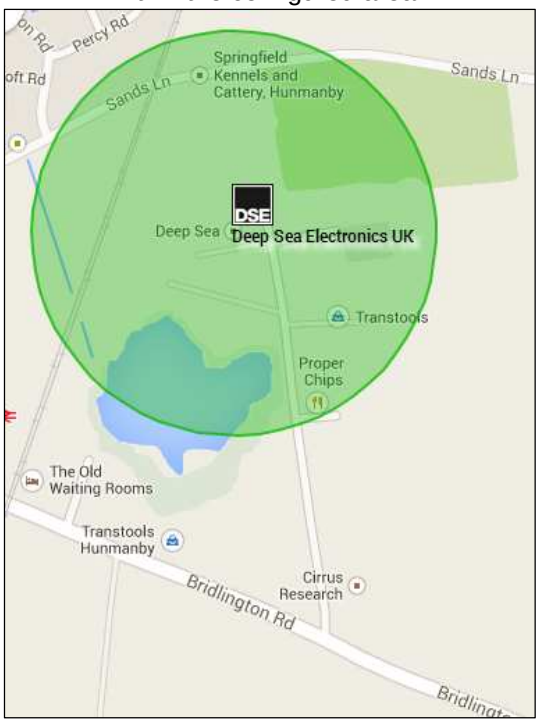
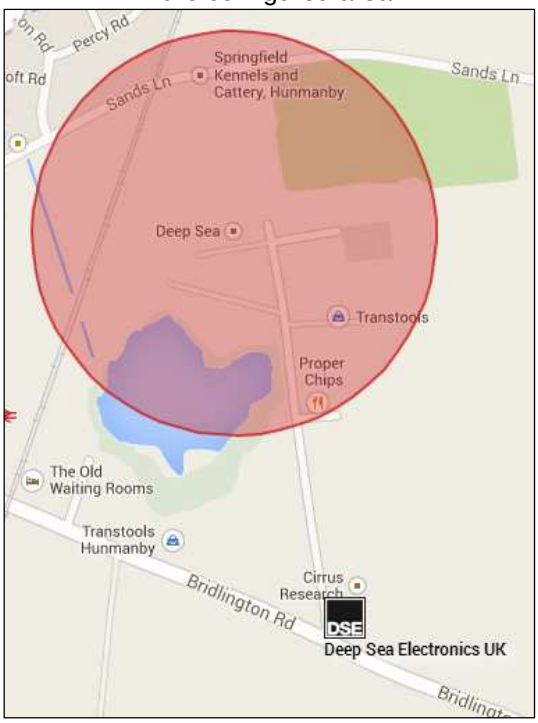
The *Specific Site* or *DSE Controller's Status* bar is used to provide brief information that is easily accessible to the user and for navigation purposes.



4.10.4 GEOFENCES

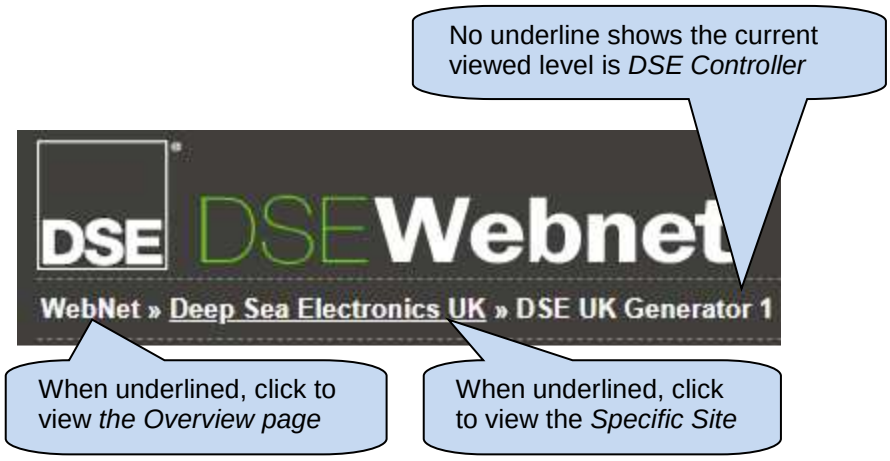
NOTE: To configure a Geofence, an *Organisation* account is required. Refer to section '*Admin*' elsewhere in this document for more details.

Geofences are used to provide a notification if the *Site* moves outside the configured area.

Geofence	
Geofence area is green when the *Site* is located within the configured area.	*Geofence* area is red when the *Site* is not located in the configured area.
	

4.11 SYSTEM VIEW LEVEL

The DSEWebNet has three system view levels which are *WebNet, Specific Site* and *DSE Controller.* Each view level contains different levels of information. The *System View Level* shows the user which level is being viewed. It is also used to navigate back to previous view levels.

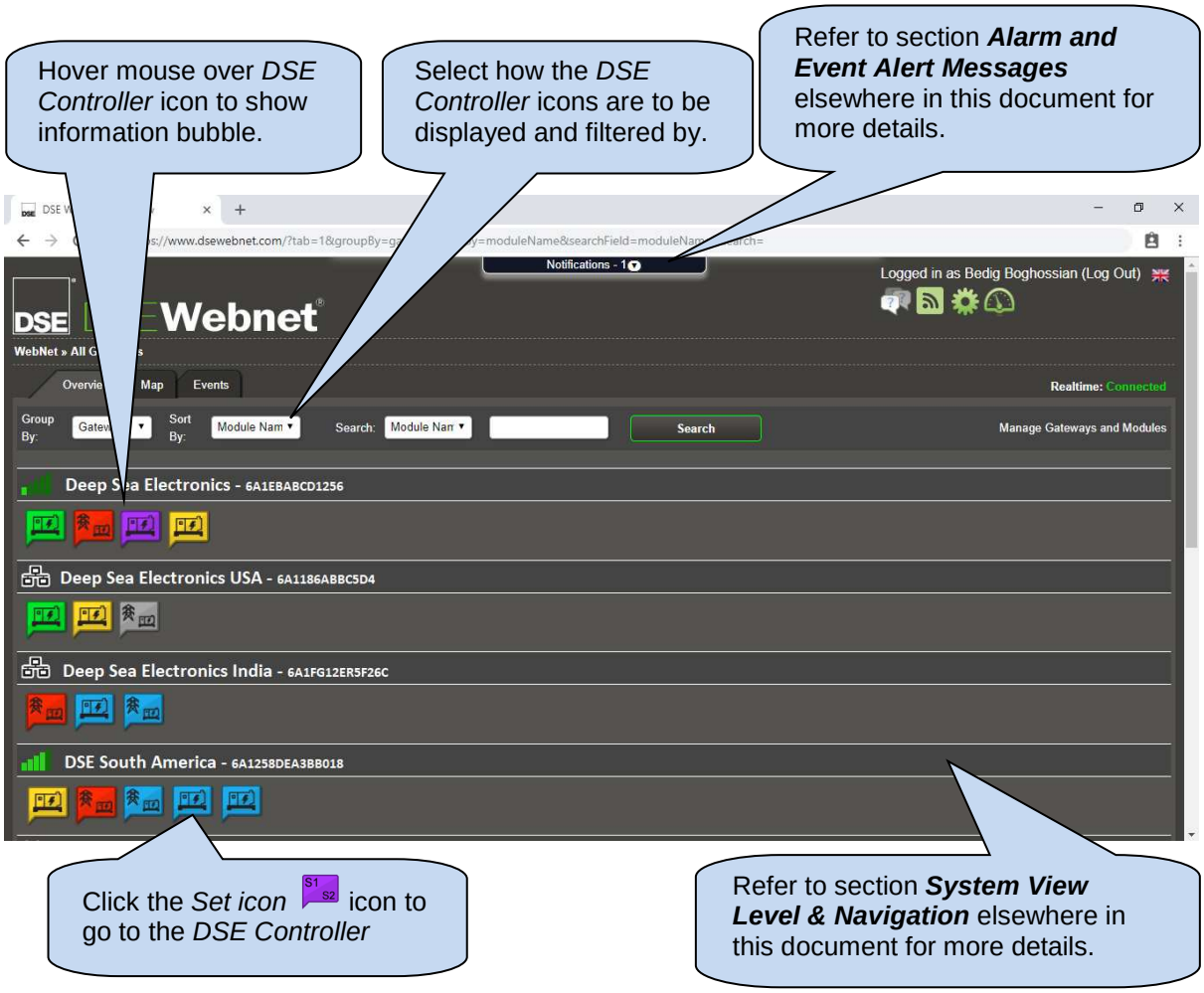


4.11.1 WEBNET

Information displayed under the *WebNet* section is the *Overview* page of the *DSE WebNet* System.

4.11.1.1 OVERVIEW

Under the *WebNet* system view level, the user sees all the configured *DSE Controllers* on the user's account. The user is then able to arrange how the *DSE Controllers* into categories and filtered accordingly.



Group By

Display Type	Description	Example
Status	All the *DSE Controllers* are arranged by their fault *Severity* level. *DSE Controllers* with no alarms are arranged under the *Information* category.	
Gateway	All the *DSE Controllers* are arranged into their *Sites*. For more details, refer to section *Specific Site* elsewhere in this document.	

Descriptions continued overleaf....

Display Type	Description	Example
Module Variant	All the *DSE Controllers* are arranged according to their module types.	
Custom Group	All the *DSE Controllers* are arranged into their *Groups* as derived from the *Group* configuration in the *Admin* Section. For more details, refer to section *Groups* elsewhere in this document.	
Control Group	*DSE Controllers* are arranged into their *Custom Groups* as derived from the *Custom Group* configuration in the *Admin* Section. For more details, refer to section *Custom Groups* elsewhere in this document. Clicking on one of the mode button forces all the modules with number to that mode, regardless of its current operating mode or state. For more information on control button operation, see section *Control Buttons* elsewhere in this manual.	

Sort By

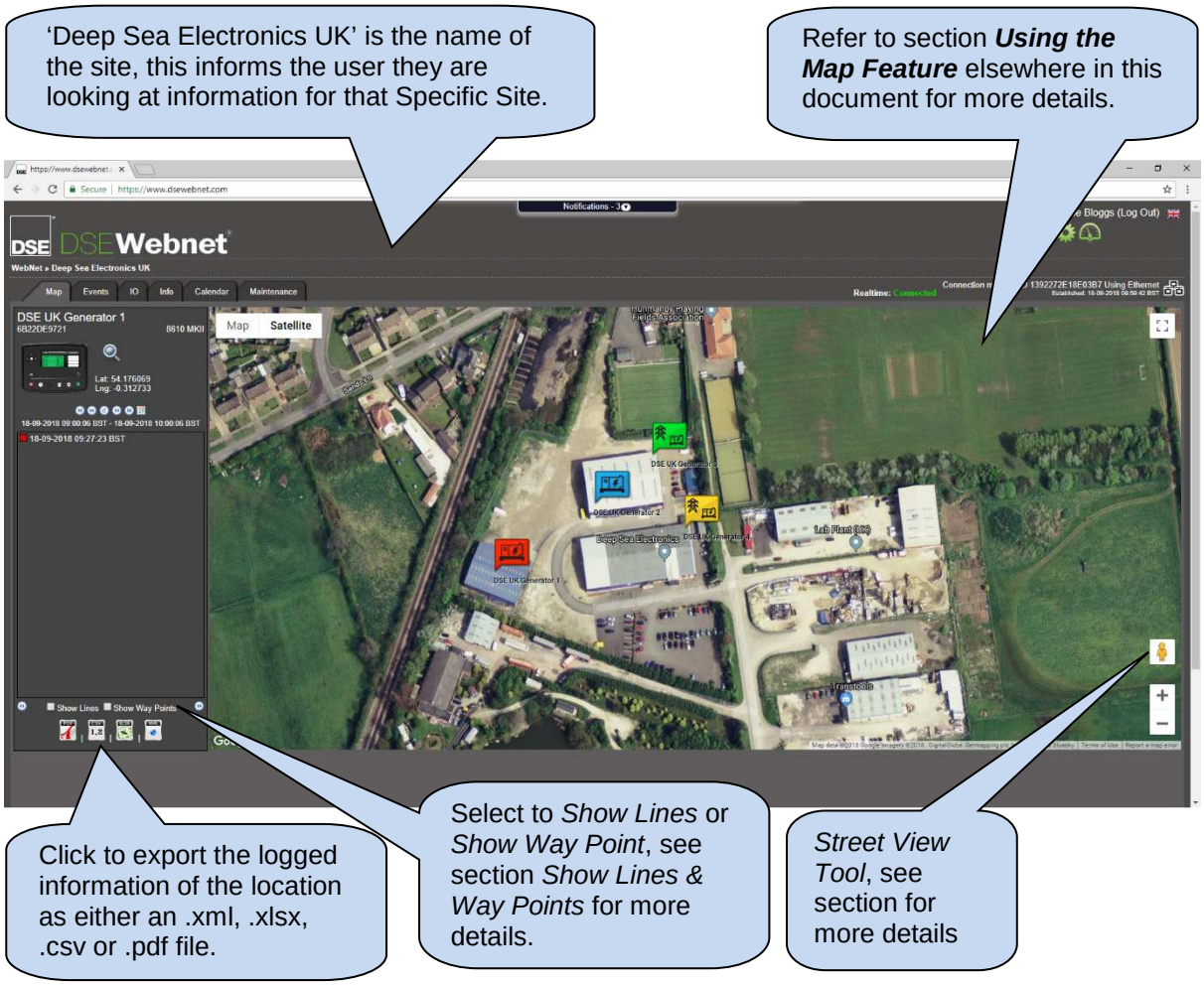
Filter By	Description
Module Name	All the *DSE Controllers* are displayed in the alphabetical order of their names.
Module USB ID	All the *DSE Controllers* are displayed in the alphabetical order of their USB-ID.
Gateway Name	All the *DSE Gateways* are displayed in the alphabetical order of their names.
Gateway USB ID	All the *DSE Gateways* are displayed in the alphabetical order of their USB-ID.
Status	All the *DSE Controllers* are displayed to show with their alarm severity order.

4.11.2 SPECIFIC SITE

Information displayed under the *Specific Site* section is only for the site that is being viewed.

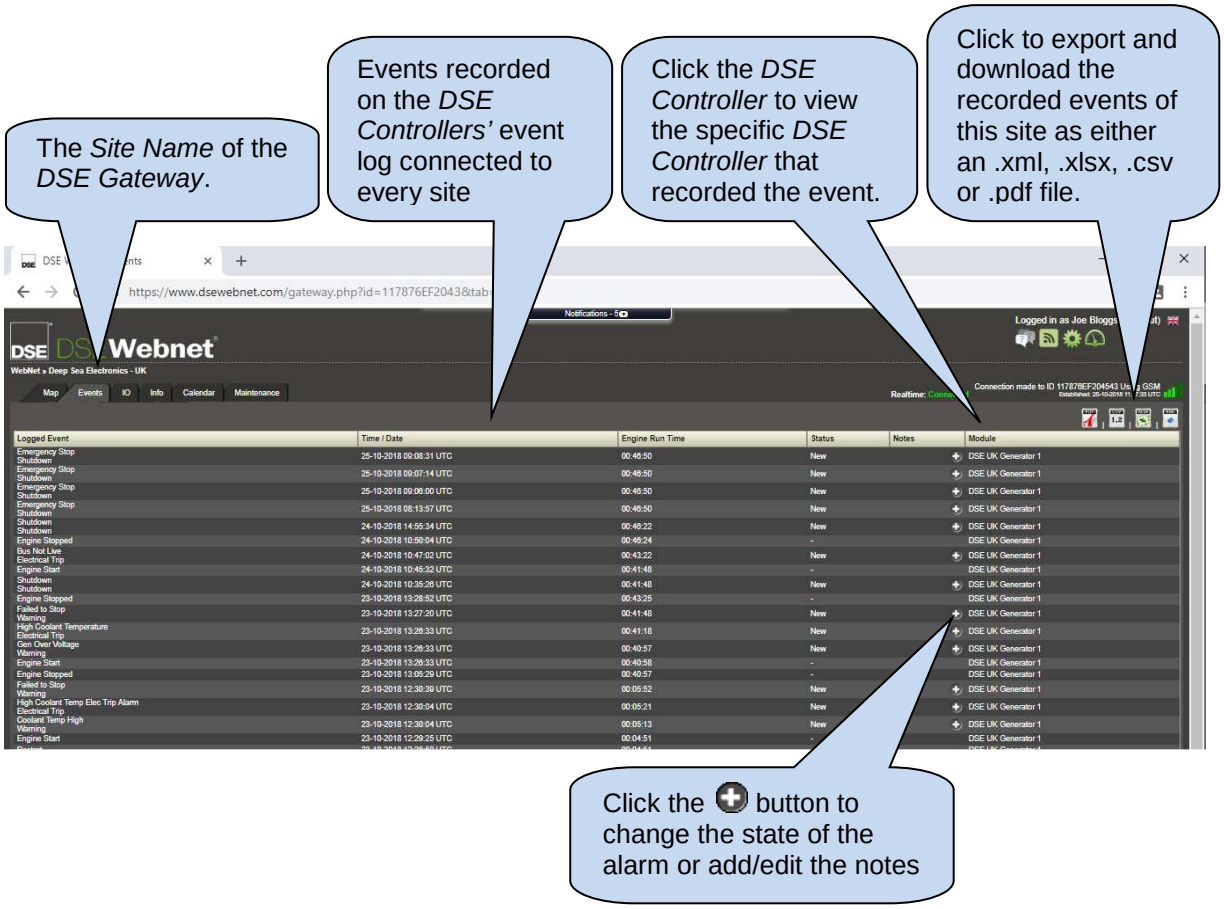
4.11.2.1 MAP

Under the *Specific Site* system view level, the user sees all the configured *DSE Controllers* on the site and their location on the map.

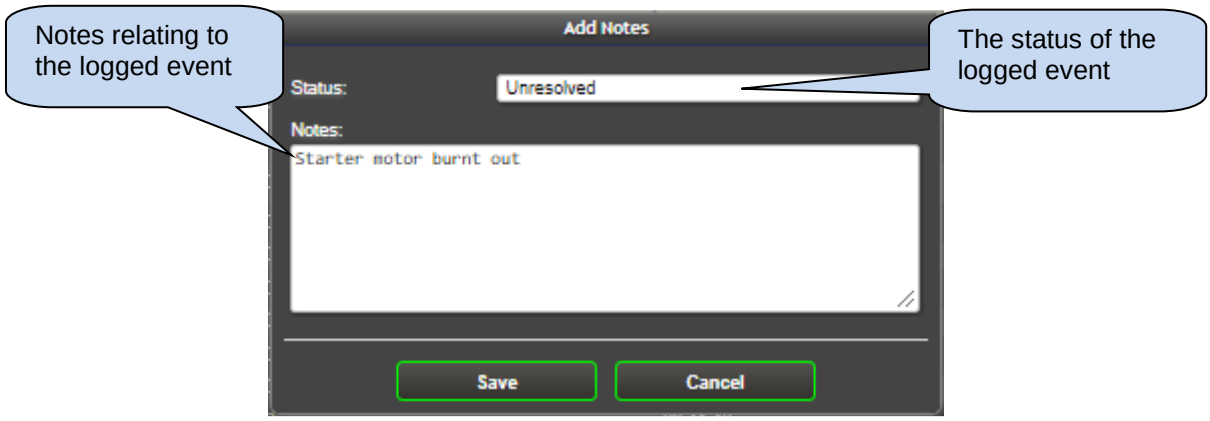


4.11.2.2 EVENTS

Under the *Specific Site* system view level, the user sees all the logged events from the *DSE Controllers* for that *Specific Site*.



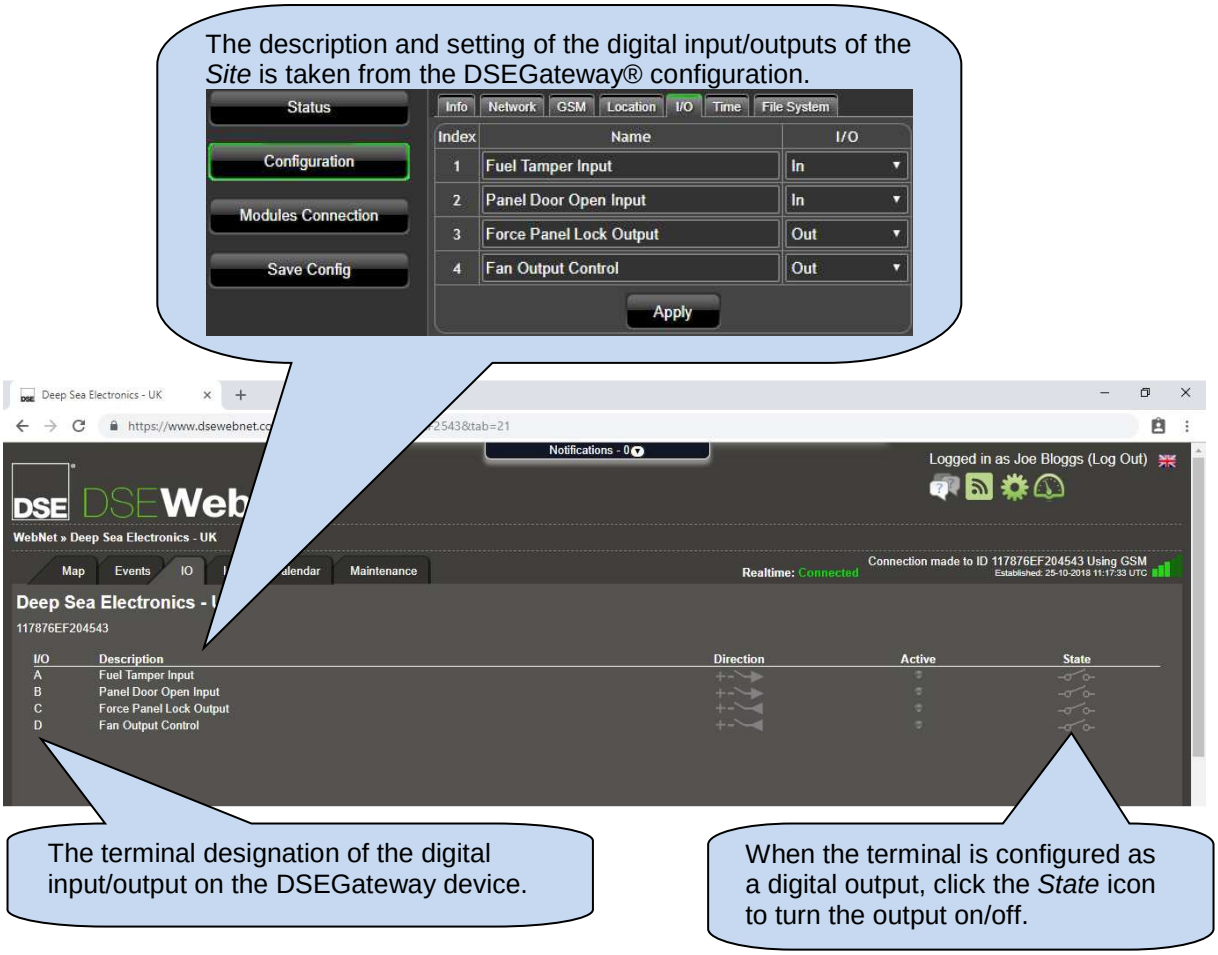
When changing the state of the logged event or adding/editing the note, the below pop-up box appears.



4.11.2.3 IO

NOTE: For information with regards to the set up of the DSEGateway, refer to DSE Publication: *057-165 DSE890 & DSE891 Gateway Operators Manual* located on our website: *www.deepseaplc.com*

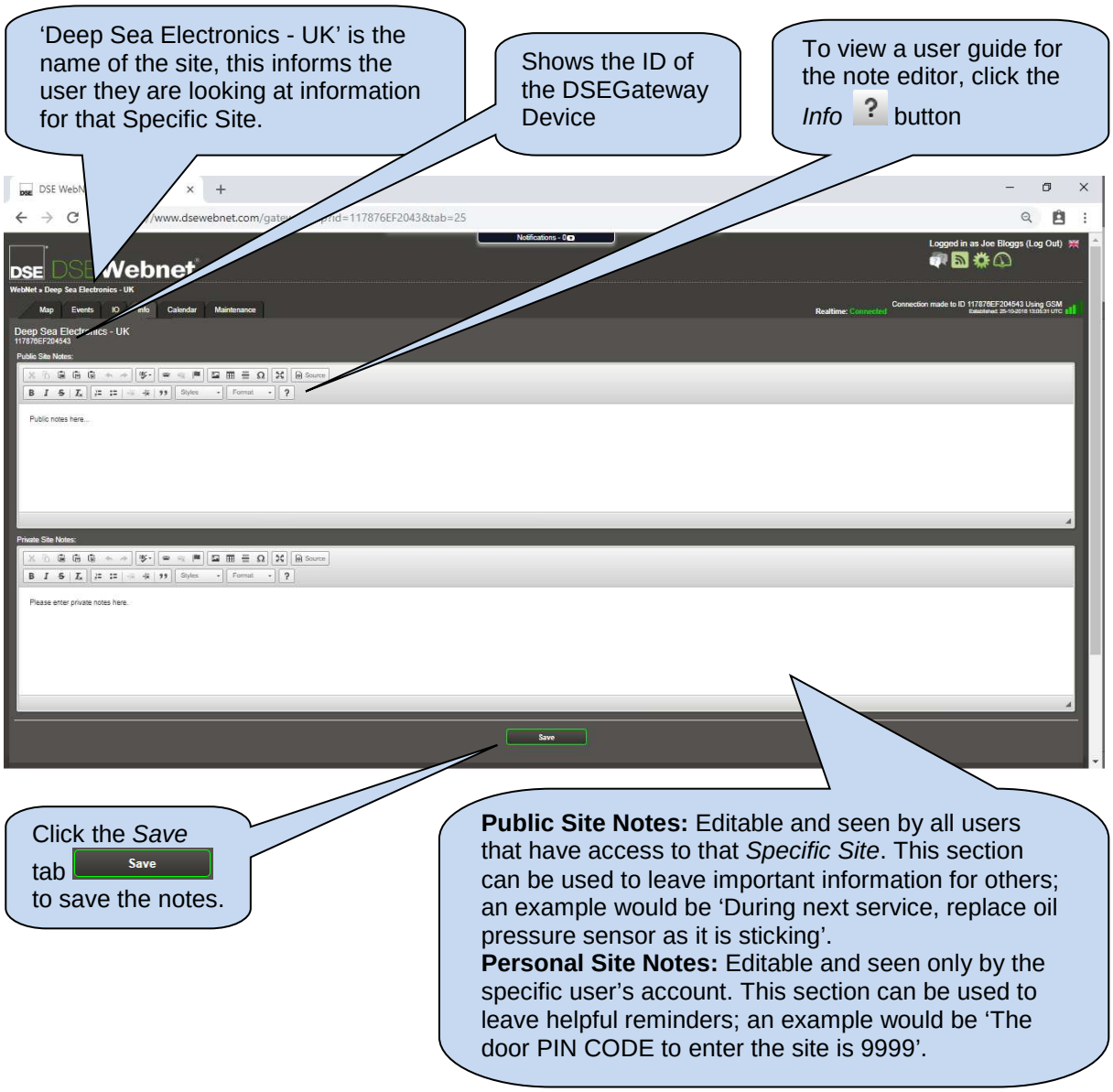
Under the *Specific Site* system view level, the user has the ability to monitor/control the digital input/outputs on the DSEGateways.



Icon	Description
	The terminal is configured as a DC positive switching digital input.
	The terminal is configured as a DC positive digital output.
	The digital input/output is not active.
	The digital input/output is active.
	The digital input/output is open/off.
	The digital input/output is closed/on.

4.11.2.4 INFO

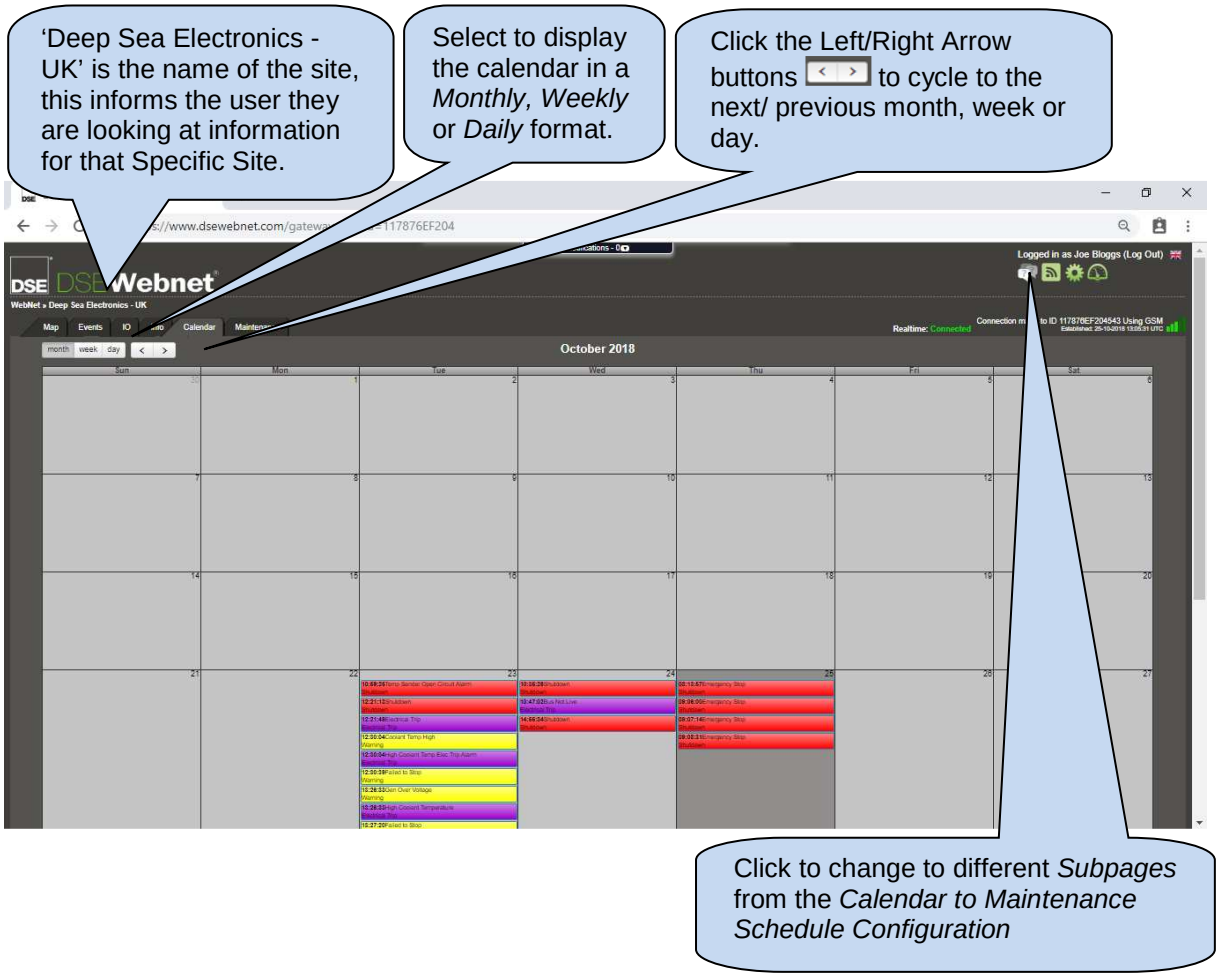
Under the *Specific Site* system view level, the user has access to specific information for the site.



4.11.2.5 CALENDAR

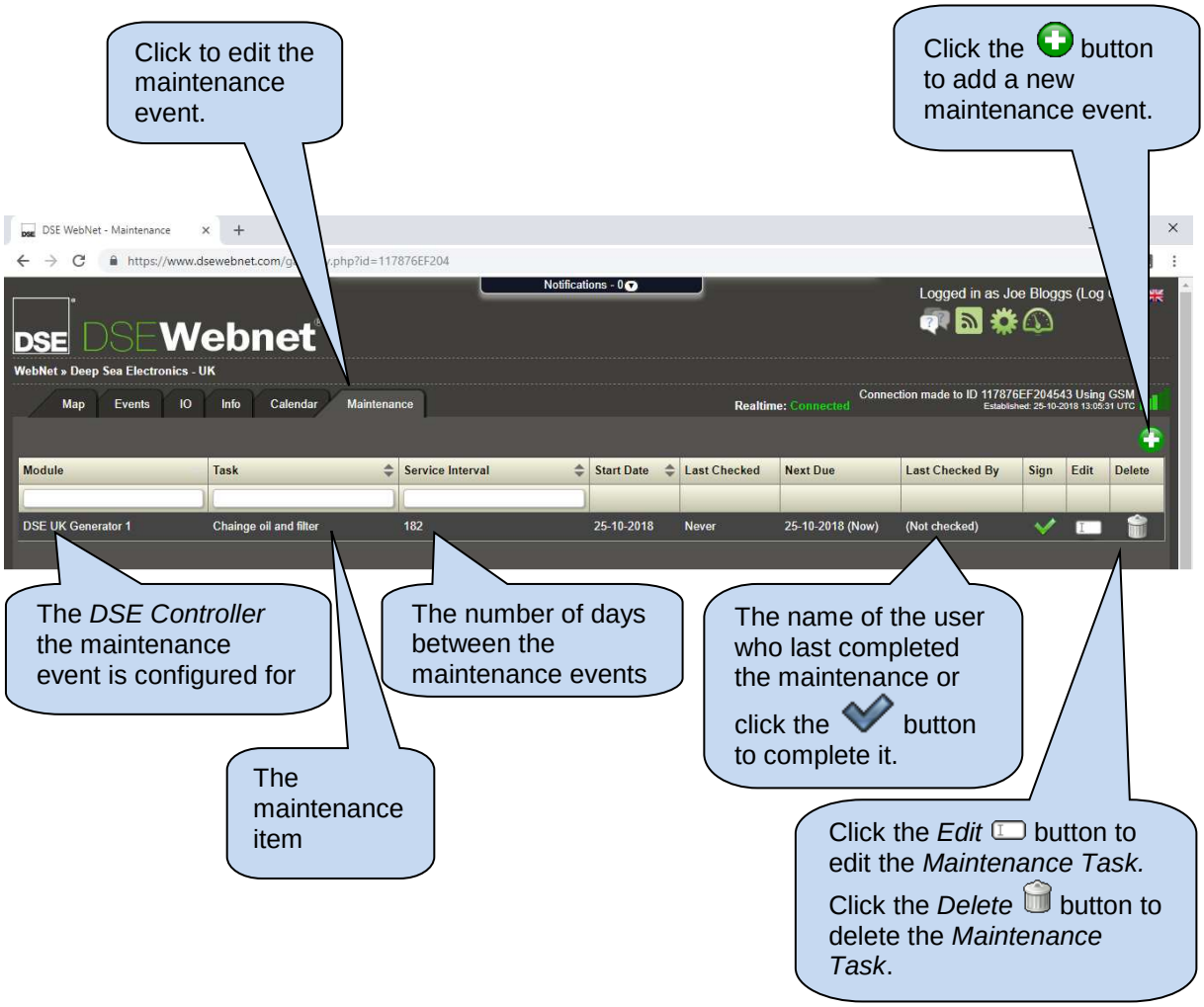
Calendar

Under the *Specific Site* system view level, the user has access to a specific calendar for the site. The alarms that occur and the maintenance schedule that is configured appears on the calendar.

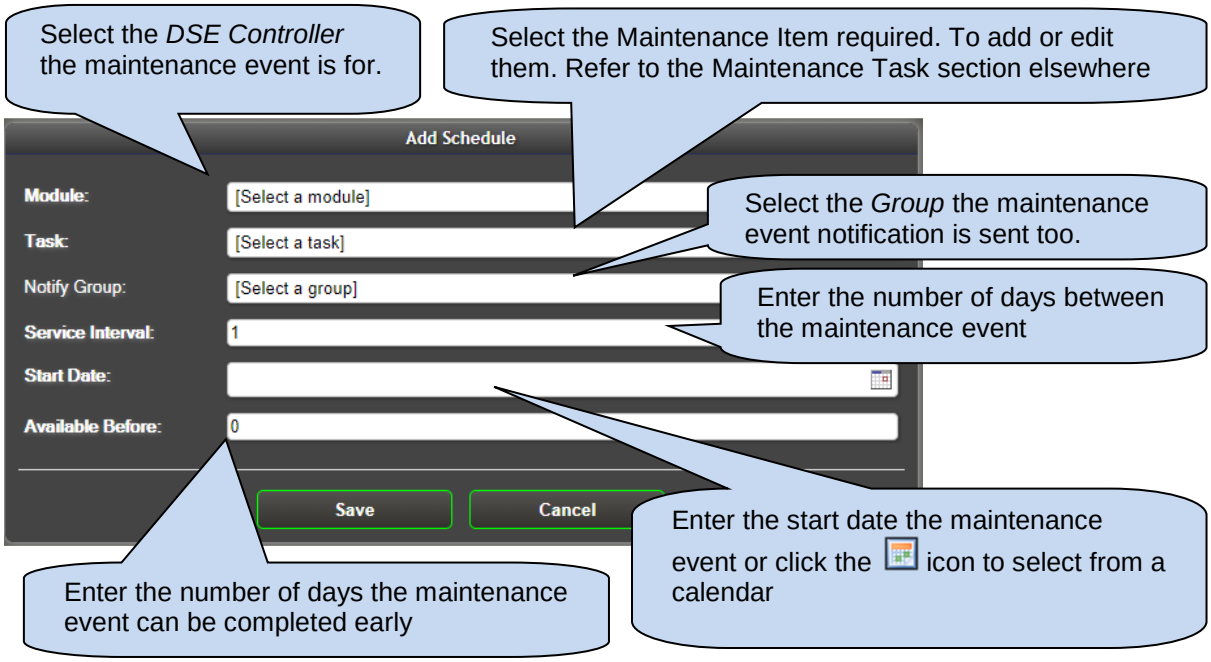


Calendar Entry	Type	Description
	Warning Alarm Logged	A *DSE Controller* on the *Site* system has recorded a warning alarm its own event log on that day.
	Electrical Trip Alarm / ECU Code Logged	A *DSE Controller* on the *Site* system has recorded an electrical trip alarm / ECU fault code in its own event log on that day.
	Shutdown Alarm Logged	A *DSE Controller* on the *Site* system has recorded a shutdown alarm its own event log on that day.
	Maintenance Due Date	A maintenance agenda has been scheduled to occur on this date for the mentioned *DSE Controller.*
	Maintenance Checked Before Due Date	A maintenance agenda has been scheduled to occur on this date for the mentioned *DSE Controller* however it can be completed before it's due.
	Maintenance Due	The scheduled maintenance agenda for the mentioned *DSE Controller* is due or has not been completed.

Maintenance Schedule Configuration



When adding or editing a maintenance event, the below pop-up box appears.



4.11.3 DSE CONTROLLER

NOTE: Alarms, events, control features and parameters that are monitored are dependent upon the DSE Controller's specification. Refer to the DSE Controller's Operators and Software Manuals for further details.

Information displayed under the *DSE Controller* section is only for that one controller that is configured to the user's account.

Selecting Template

This list contains the Default Template of this specific DSE Controller module variant and all templates created using the Templates section. The Templates are edited or created from the *Templates* section. Refer to sections entitled *Templates* and *Widgets* for more information on how to create templates and configure new widgets to be displayed.

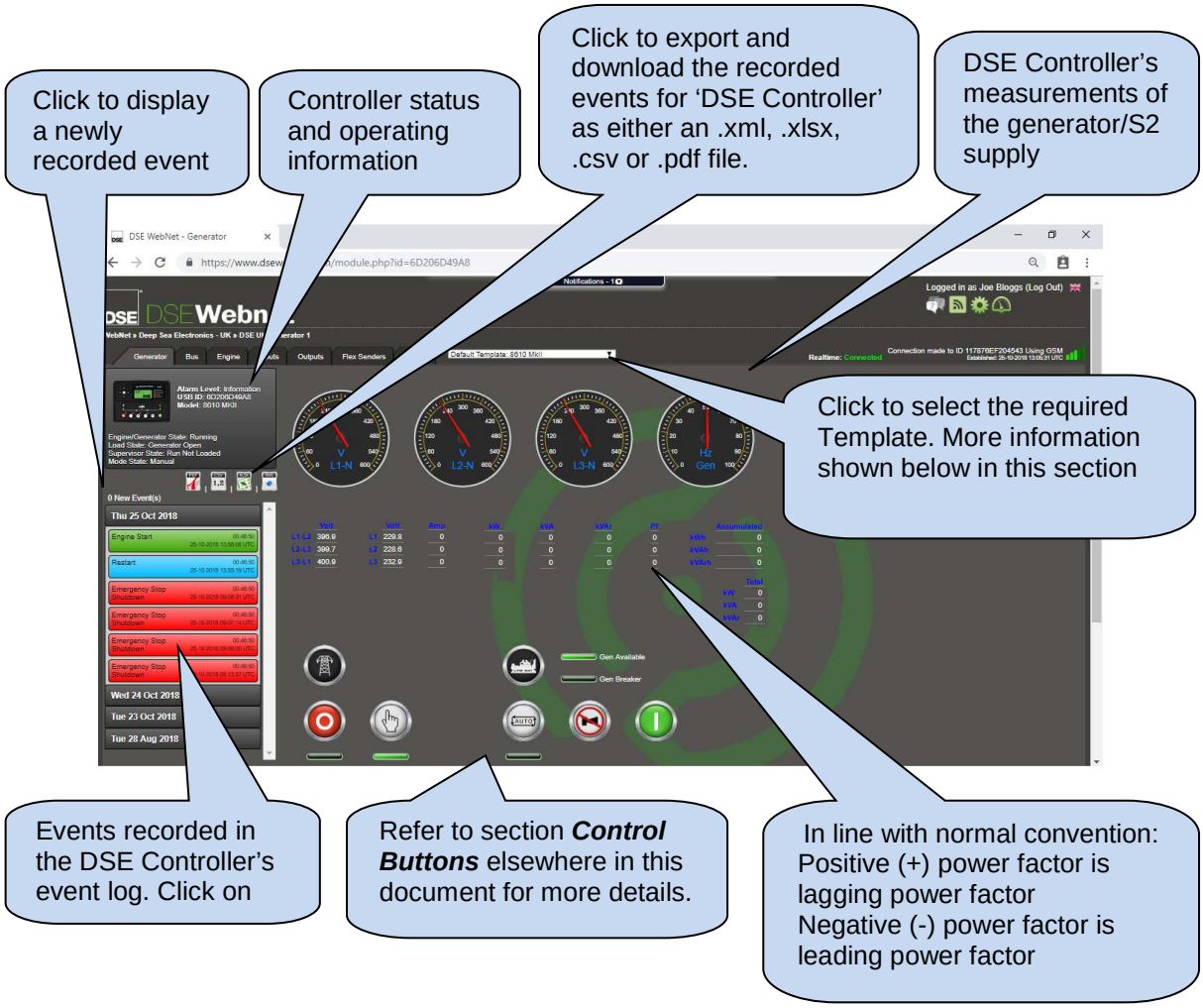


Select the required template to display the configured instruments for the DSE Controller.

4.11.3.1 GENERATOR/S2

NOTE: The screenshots provided are used to show examples of the default graphical user interface. There may be changes to the interface due to the *Page Editor Mode* being used, see section entitled *Page Editor Mode* elsewhere in this document for more details

Displays the *DSE Controller's* measurement of the Generator/S2 supply parameters.

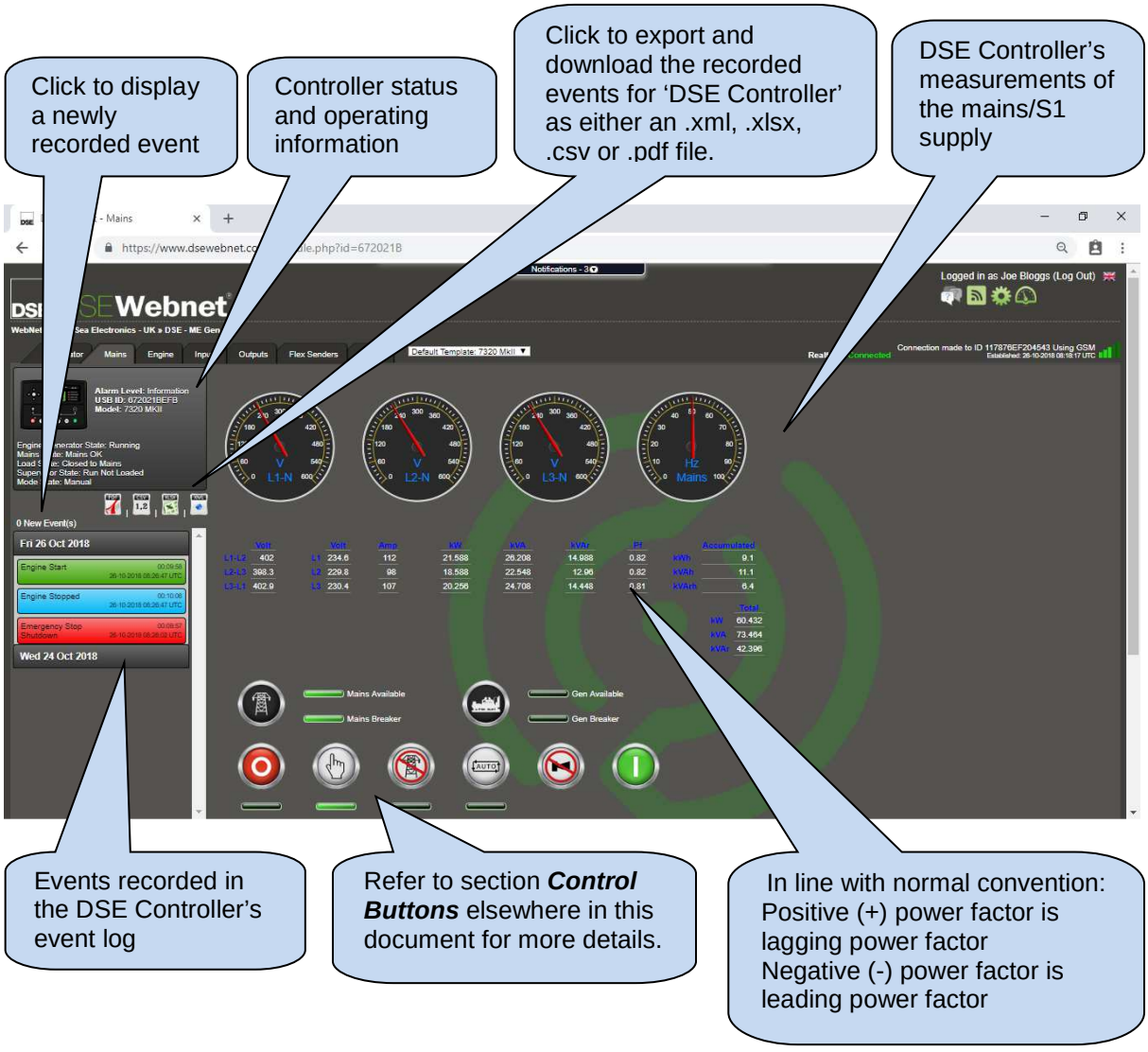


4.11.3.2 MAINS/S1

NOTE: The screenshots provided are used to show examples of the default graphical user interface. There may be changes to the interface due to the *Page Editor Mode* being used, see section entitled *Page Editor Mode* elsewhere in this document for more details

NOTE: The Mains/S1 section is only available for modules with mains/S1 sensing.

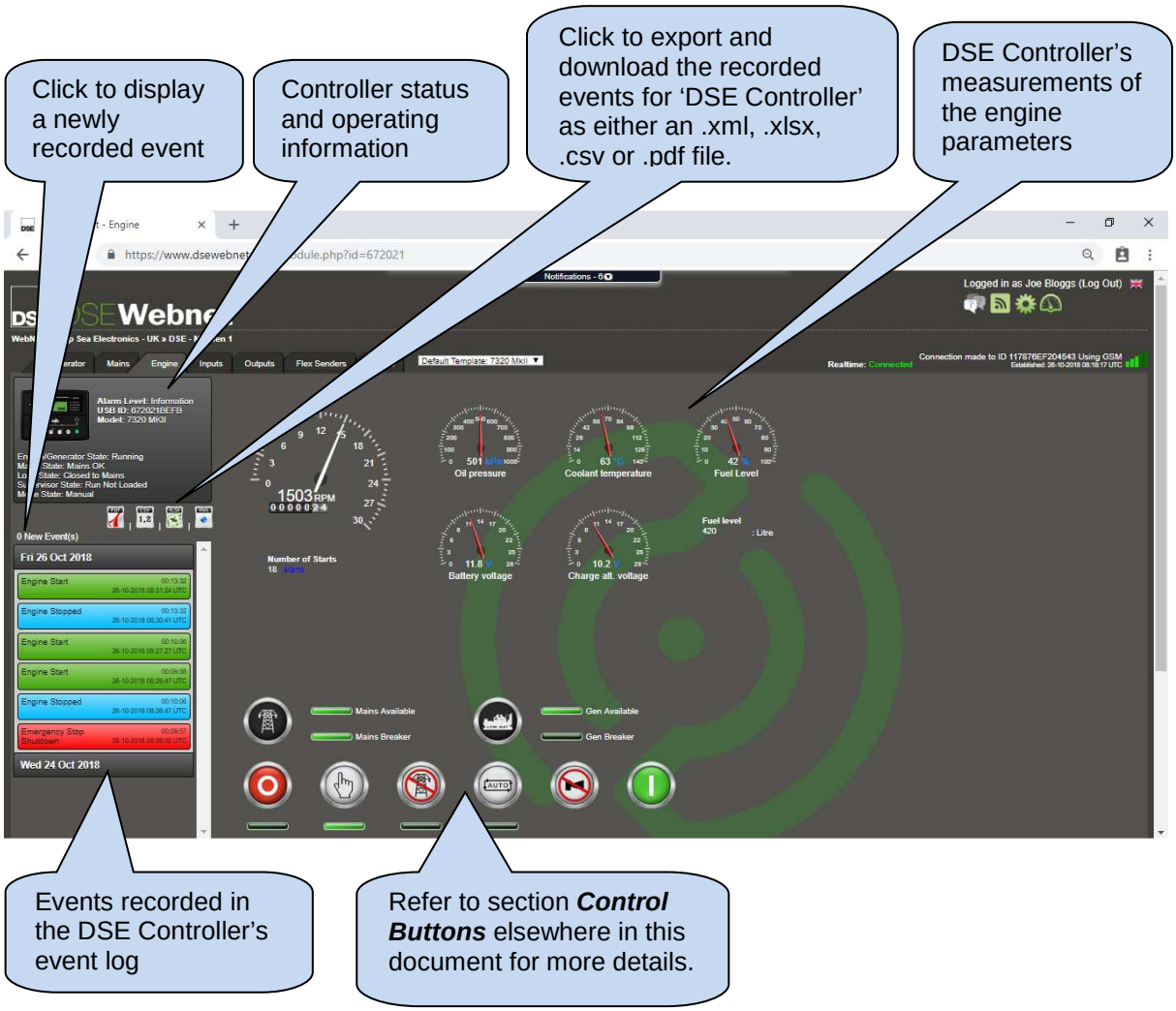
Displays the *DSE Controller's* measurement of the Mains/S1 supply parameters.



4.11.3.3 ENGINE

NOTE: The screenshots provided are used to show examples of the default graphical user interface. There may be changes to the interface due to the *Page Editor Mode* being used, see section entitled *Page Editor Mode* elsewhere in this document for more details

Displays the *DSE Controller's* measurement of the engine parameters.



4.11.3.4 INPUTS

NOTE: The screenshots provided are used to show examples of the default graphical user interface. There may be changes to the interface due to the *Page Editor Mode* being used, see section entitled *Page Editor Mode* elsewhere in this document for more details

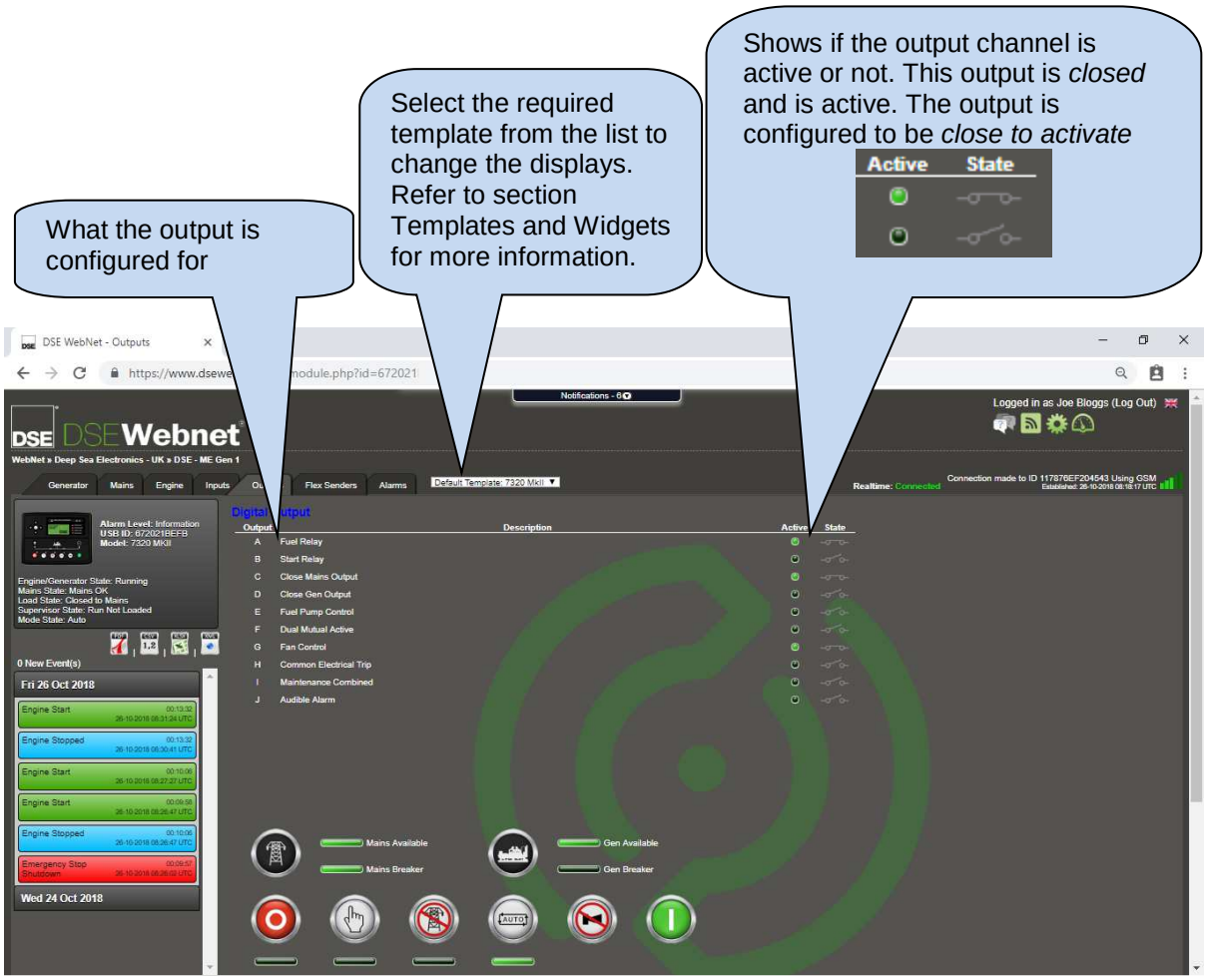
Displays the configuration and state of the inputs and outputs for the *DSE Controller*. This section can be used as a diagnostic aid.



4.11.3.5 OUTPUTS

NOTE: The screenshots provided are used to show examples of the default graphical user interface. There may be changes to the interface due to the *Page Editor Mode* being used, see section entitled *Page Editor Mode* elsewhere in this document for more details

Displays the configuration and state of the outputs for the *DSE Controller*. This section can be used as a diagnostic aid.



4.11.3.6 CONTROL BUTTONS

NOTE: Control buttons and operating procedures are dependent upon the DSE Controller's specification. Refer to the DSE Controller's Operators and Software Manuals for further details.

NOTE: Dependant upon access restrictions set by the *Organisation Administrator* or changes to the graphical user interface using the *Page Editor Mode,* the control buttons can be disabled.

The *Control Buttons* are used to provide the user with the ability to control a *DSE Controller* remotely with ease.

Autostart Controller

Button	Mode	Description
	Stop	Places the DSE Controller into *Stop Mode*. Clicking this button resets any latching alarms, immediately opens the generator load switch and stops the engine.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button enables the user to start the engine by the *Start* button and control the generator load switch using the *Unload Generator* and *Load Generator* buttons.
	Automatic	Places the DSE Controller into *Automatic Mode*. Clicking this button enables the DSE Controller to start and stop the engine automatically by different methods.
	Mute	Clicking the button mutes the alarm sounder on the DSE Controller and also performs a lamp test.
	Start	If the DSE Controller is in *Manual Mode*, clicking this button starts the generator.
	Unload Generator	If the DSE Controller is in *Manual Mode*, clicking the button opens the generator load switch.
	Load Generator	If the DSE Controller is in *Manual Mode*, clicking the button closes the generator load switch.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

AMF Controller

Button	Mode	Description
	Stop	Places the DSE Controller into *Stop Mode*. Clicking this button resets any latching alarms, immediately opens the generator load switch and brings it to a standstill.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button enables the user to start the generator by the *Start* button and control the generator and mains load switch using the *Transfer to Mains* and *Transfer to Generator* buttons.
	Test	Places the DSE Controller into *Test Mode*. Clicking this button enables the user to start the generators to give a test on load or island mode facility depending on module configuration.
	Automatic	Places the DSE Controller into *Automatic Mode*. This enables the DSE Controller to start and stop automatically by different methods.
	Mute	Clicking the button mutes the alarm sounder on the DSE Controller and also performs a lamp test.
	Start	If the DSE Controller is in *Manual Mode*, clicking this button starts the generator.
	Transfer to Mains	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the generator to the Mains.
	Transfer to Generator	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the Mains to the generator.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

Mains Controller

Button	Mode	Description
	Stop	Places the DSE Controller into *Stop Mode*. Clicking this button resets any latching alarms, immediately opens the generator bus load switch and removes the start request.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button enables the user to start the generator by the *Start* button and control the generator bus and mains load switch using the *Transfer to Mains* and *Transfer to Generator Bus* buttons.
	Test	Places the DSE Controller into *Test Mode*. Clicking this button enables the user to start the generator by the *Start* button to give a test on load or island mode facility depending on module configuration.
	Automatic	Places the DSE Controller into *Automatic Mode*. Clicking this button enables the DSE Controller to start and stop the generators automatically by different methods.
	Mute	Clicking the button mutes the alarm sounder on the DSE Controller and also performs a lamp test.
	Start	If the DSE Controller is in *Manual Mode*, clicking this button starts the generators.
	Transfer to Mains	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the generator bus to the Mains.
	Transfer to Generator Bus	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the Mains to the generator bus.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

Generator Bus-tie Controller

Button	Mode	Description
	Alarm Reset	Clicking the button resets any latching alarm.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button enables the user to control the generator bus-tie load switch using the *Generator Bus-Tie Load Switch Control* button.
	Automatic	Places the DSE Controller into *Automatic Mode*. Clicking this button enables the DSE Controller to open and close the generator bus-tie load switch automatically by different methods.
	Mute	Clicking the button mutes the alarm sounder on the DSE Controller and also performs a lamp test.
	Generator Bus-Tie Load Switch Control	If the DSE Controller is in *Manual Mode*, clicking this button closes or opens the generator bus-tie load switch.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

DSE333

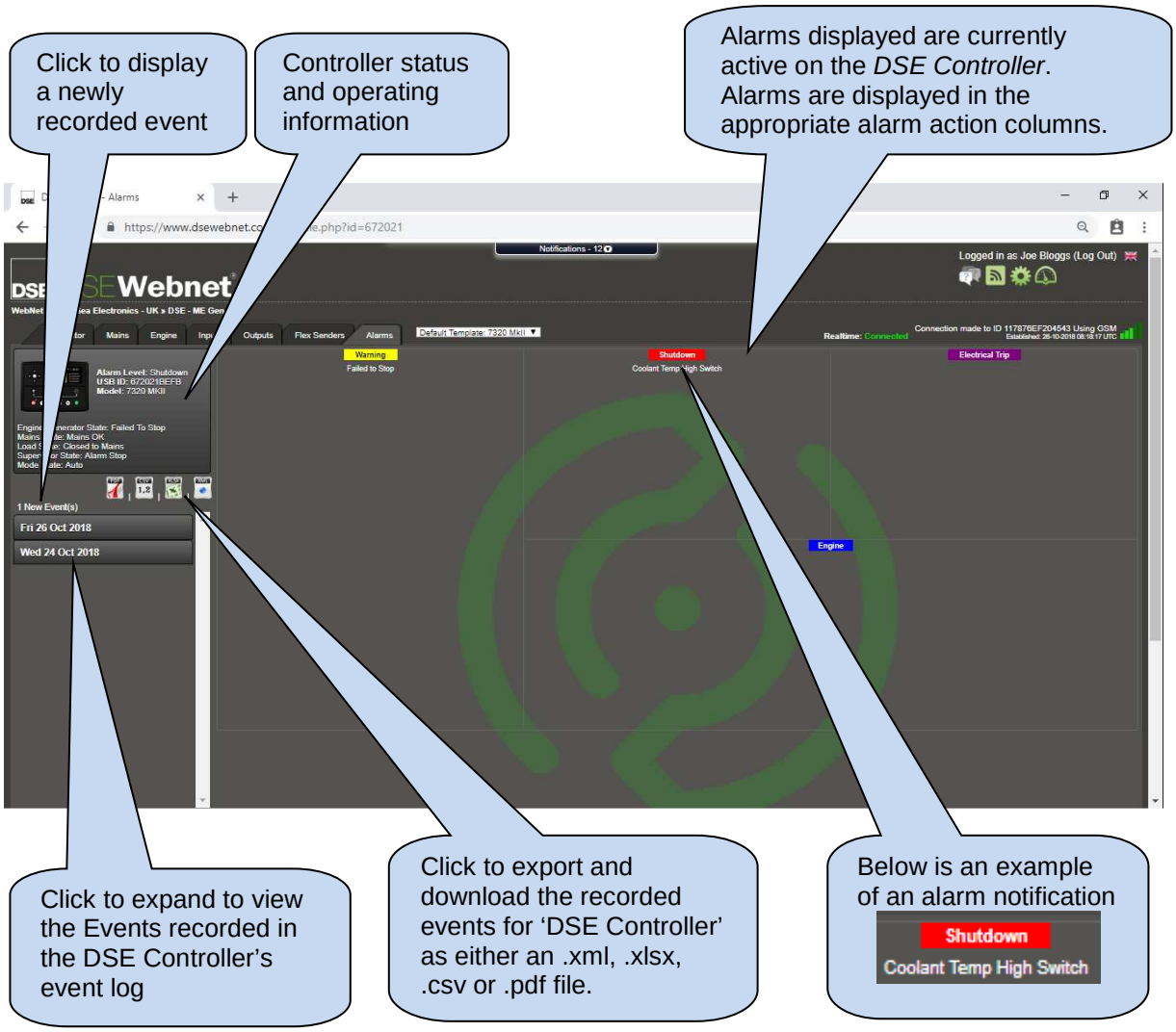
Button	Mode	Description
	Auto	Places the DSE Controller into *Automatic Mode*. Clicking this button enables the DSE Controller to start and stop the generator automatically by different methods.
	Prohibit Return	Places the DSE Controller into *Prohibit Return Mode*. Clicking this button enables the DSE Controller to start and stop automatically by different methods. Additionally it prevents the generator returning the load to the Mains until instructed.
	Test On Load	Places the DSE Controller into *Test Mode*. This enables the user to start the generator to give a test facility.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button starts the generator and enables the user to control the generator and mains load switch using the *Transfer to Mains* and *Transfer to Generator* buttons.
	Transfer to Mains	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the generator to the Mains.
	Transfer to Generator	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the Mains to the generator.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

DSE334 & DSE335

Button	Mode	Description
	Stop	Places the DSE Controller into *Stop Mode*. Clicking this button resets any latching alarms, immediately opens S2 load switch and removes the start request.
	Manual	Places the DSE Controller into *Manual Mode*. Clicking this button starts the generator and enables the user to control S1 and S2 load switches using the *Transfer to S1* and *Transfer to S2* buttons.
	Mode	Clicking the button cycles through other available operating modes (Test On Load, Test Off Load & Prohibit Return). Click the *Tick* button to select once desired operating mode has appeared.
	Automatic	Places the DSE Controller into automatic mode. Clicking this button enables the module to start and stop automatically via different methods.
	Mute	Clicking the button mutes the alarm sounder on the DSE Controller and also performs a lamp test.
	Tick	If the DSE Controller is cycling through different operating modes using the *Mode* button, clicking this button enters the mode selected.
	Transfer to S1	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the S2 to S1.
	Transfer to S2	If the DSE Controller is in *Manual Mode*, clicking this button transfers the load from the S1 to S2.
	On	The LED indication on the DSE Controller is active. This shows the status of operating mode and load switch status.
	Off	The LED indication on the DSE Controller is not active. This shows the status of operating mode and load switch status.

4.11.3.7 ALARMS

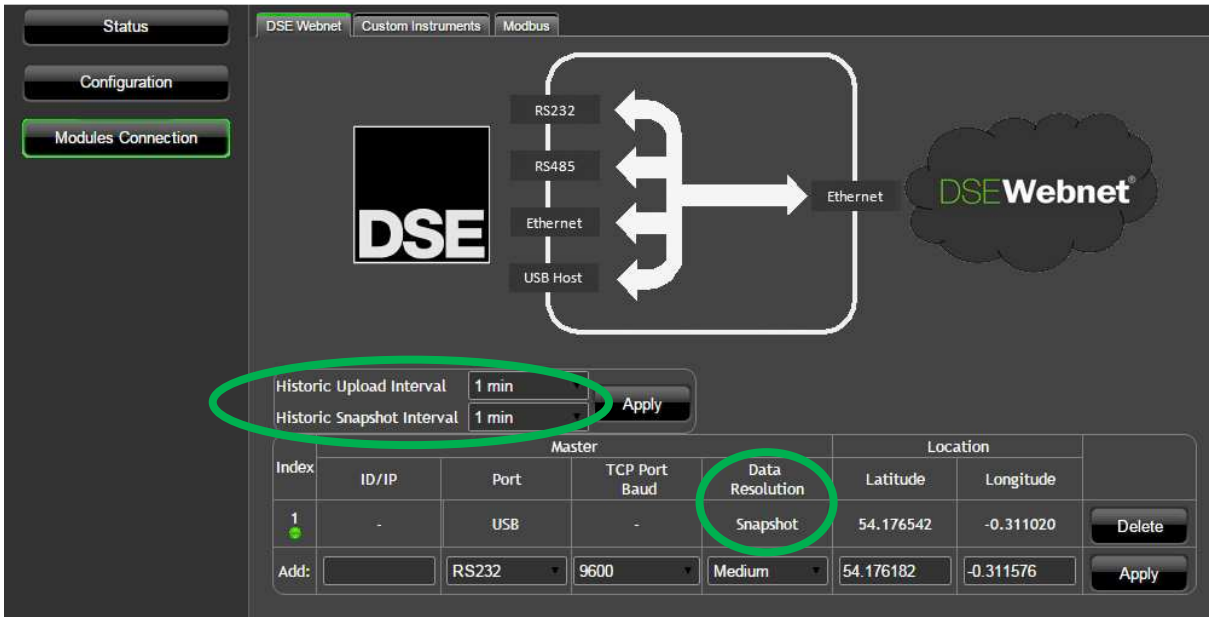
Displays what alarms are currently active on the *DSE Controller* and their severity. This section can be used as a diagnostic aid.



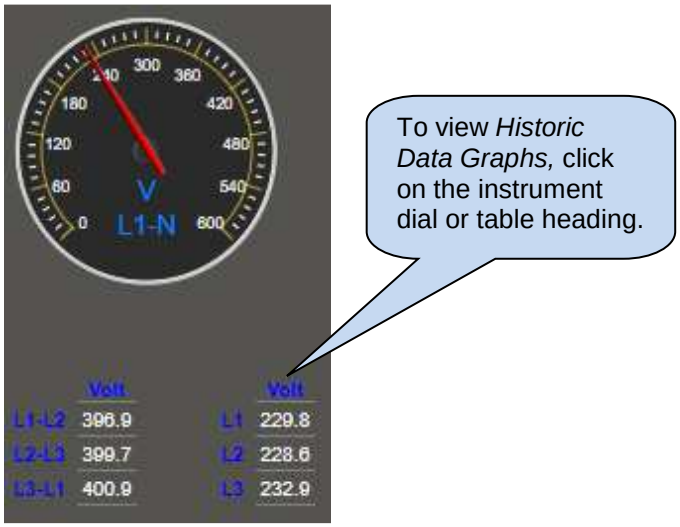
4.11.3.8 VIEWING HISTORIC DATA GRAPH

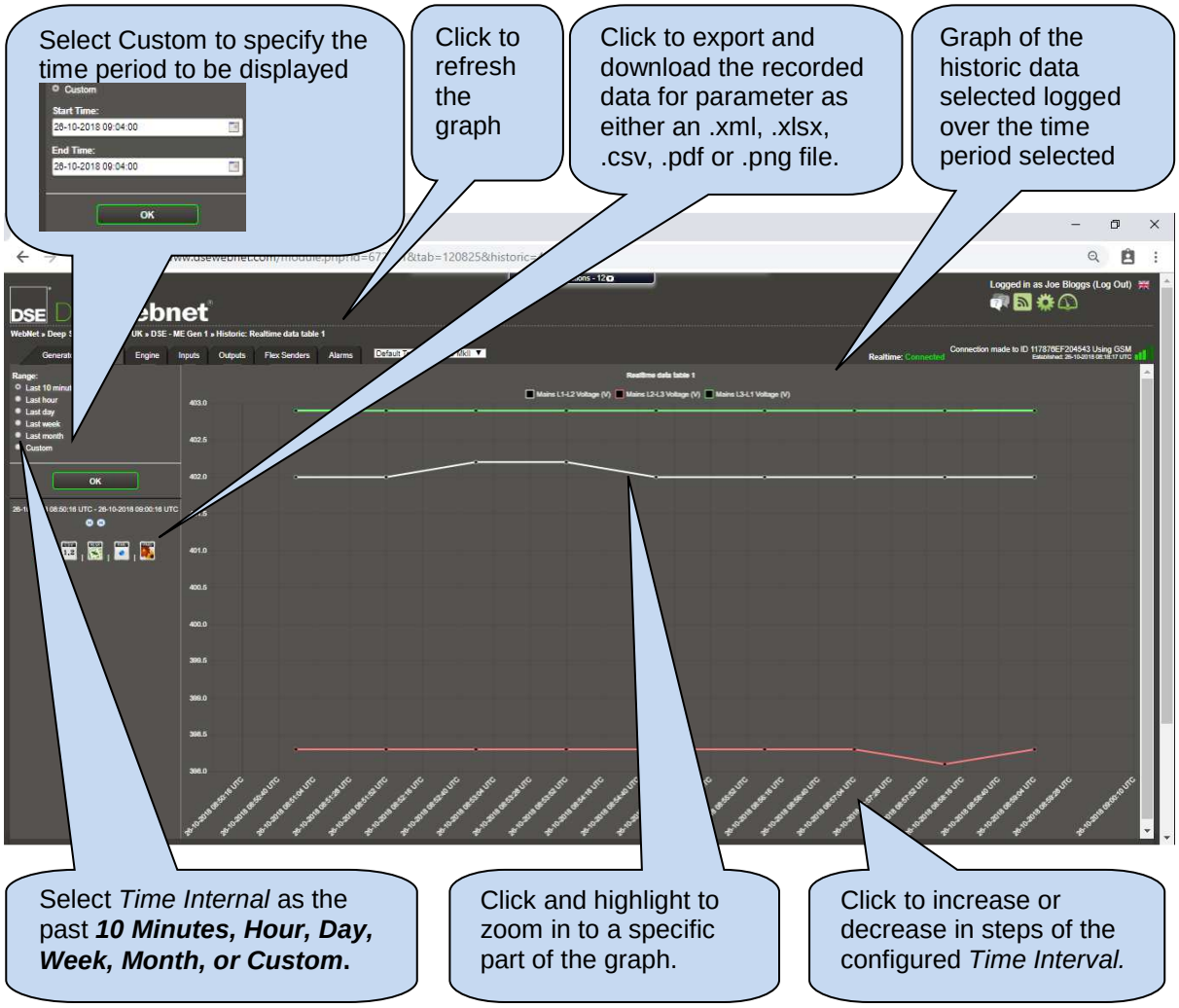
NOTE: To use the *Historic Data Graph* feature, the DSEGateway device must be configured to upload historic data at a suitable interval as shown below. Refer to DSE Publication: *057-165 DSE890 & DSE891 Operators Manual* for further details.

The resolution of the data used in the *Graphs* is configured in the DSEGateway.



Historic Data Graphs are available for all instruments in addition to changes in the state of inputs and outputs for a *Site* and *DSE Controller.*





Parameter	Description
Show All Available Data From The Last	**NOTE: A maximum a weeks worth of data is logged on a rolling update. Old data is replaced by newer data.** ***10 Minutes:*** Displays all instrument data logged on the graph over the past 10 minutes. ***Hour:*** Displays all instrument data logged on the graph over the past hour. ***Day:*** Displays all instrument data logged on the graph over the day. ***Week:*** Displays all instrument data logged on the graph over the past week. ***Month:*** Displays all instrument data logged on the graph over the past month. ***Custom:*** Displays all instrument data logged on the graph over the selected period of time.
Lines	☐=Displays only data points with no trend lines ☑=Displays trend lines, connecting all the data points together
Auto-Refresh	☐=Newly logged data is not added to the graph ☑=Newly logged data is added to the graph
Display Data As UTC Time:	☐=Time used taken from PC clock. ☑=Time used taken as UTC.

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