



DEEP SEA ELECTRONICS

DSE Configuration Suite PC Software Installation & Operation Manual

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DSE Configuration Suite PC Software Installation & Operation Manual

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Amendments Since Last Publication

Amd. No.	Comments
1	Initial release
2	Major update and add Configuration Suite, E050, Development engine files. Added Curve and Unit Manager and removed SCADA Alarms/Event Log Language

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 *DSE Configuration Suite PC Software* with the DSE Genset®, DSE ATS®, DSE Power® and DSE Control® ranges 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 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.deepseaelectronics.com

The *DSE Configuration Suite PC Software* allows the compatible DSE module to be connected to a PC via USB A to USB B cable (USB printer cable) with the addition of the intermediate DSE813, DSE815 or P-CAN interface for appropriate modules. Once connected, the *DSE Configuration Suite PC Software* is designed to allow competent, qualified personnel to make adjustments to a modules firmware and configuration to meet the required specification, save the subsequent information and view required values to aid diagnosis.

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 are used. Separate manuals cover the operation of the individual module and its ancillaries, refer to section 1.3 entitled *Bibliography* 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
Configuration Suite Backup File	A File used in the Configuration Suite PC Software that includes the configuration.
Configuration Suite Flash File	A File used in the Configuration Suite PC Software that includes the firmware File, configuration File (optional), and language File (optional).
AVR	Automatic Voltage Regulator module.
PLC	Programmable Logic Control.

1.3 BIBLIOGRAPHY

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

1.3.1 MANUALS

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

DSE Part	Description
057-151	DSE Configuration Suite PC Software Installation & Operation Manual

1.3.2 TRAINING GUIDES

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

DSE Part	Description
056-069	Firmware Update
056-075	Adding Language Files
056-097	USB Earth Loops and Isolation
057-312	Configuration Suite Software Manual
056-123	Simulation Injection Testing
056-023	Adding Development Engine Files

2 INSTALLATION INSTRUCTIONS

2.1 SOFTWARE INSTALLATION

2.1.1 MINIMUM SYSTEM REQUIREMENTS

 **NOTE:** As the Configuration Suite PC software for Windows™ is a 32- or 64-bit application requiring Microsoft .net 4.5.2 Framework, it will not operate on versions of Windows 8.1 or earlier.

 **NOTE:** Microsoft .Net 4.5.2 Framework can be obtained from Microsoft's website. Alternatively, by downloading it the from the DSE web site www.deepseaelectronics.com.

 **NOTE:** Exit all other programs before installing the software. It is recommended that any earlier releases of the software be uninstalled prior to installing this version.

 **NOTE:** Please register online at www.deepseaelectronics.com Once registered you will be able to download updates to the software to ensure that you always have access to the latest features.

Description	Specification
Operating System	Windows 10, Windows 8.1 with Microsoft™ .Net 4.5.2 Framework
Monitor	17 inch recommended (1024 X 768 resolution)
Communications	USB required to configure the module. DSE815 or DSE813 for appropriate modules. P-CAN interface required to configure the E050 module.

2.1.2 INSTALLATION

NOTE: An account for www.deepseaelectronics.com is required to download the DSE Configuration Suite Software. The login details are also required during the installation process.

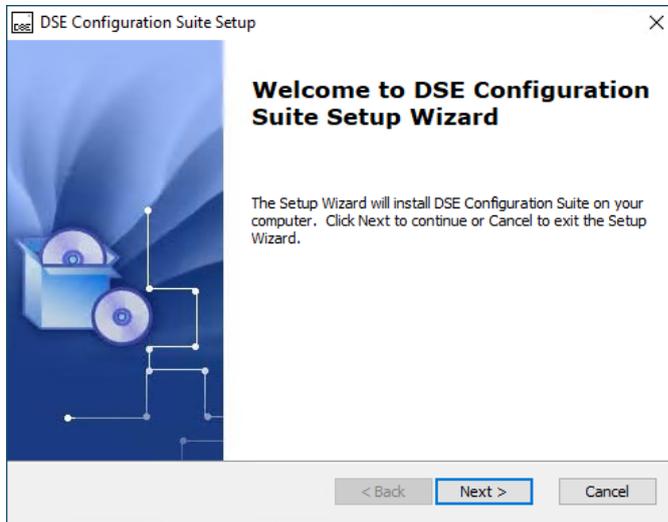
The DSE Configuration Suite Software installer is found on the DSE website: www.deepseaelectronics.com

Once downloaded run the .exe installer software by right clicking the icon and *Run as administrator*.



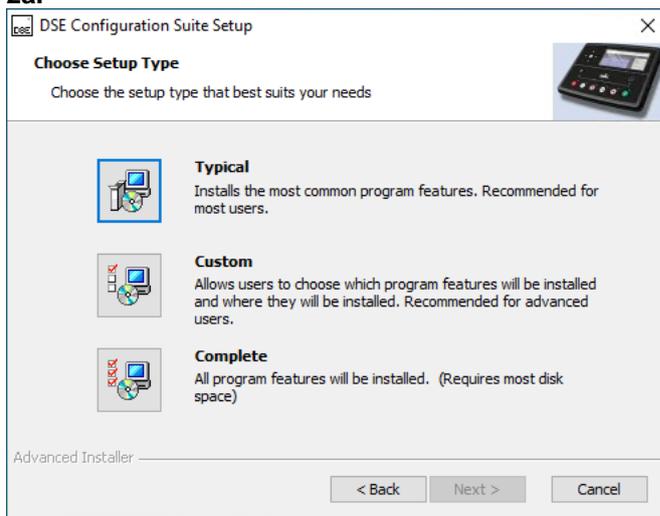
The Setup Wizard then guides the user through the installation procedure.

1.



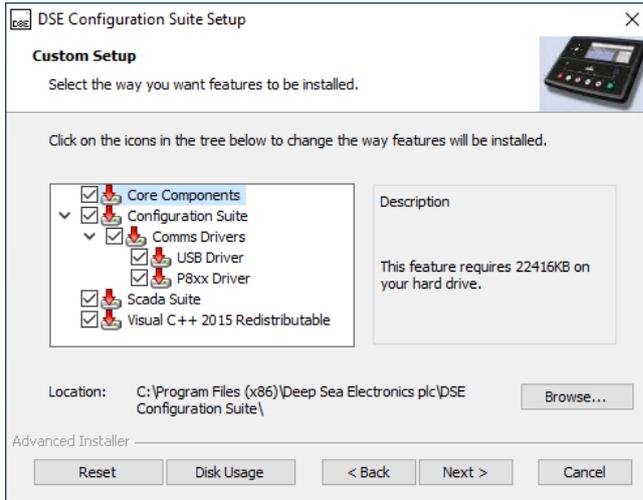
Click *Next* to begin.

2a.



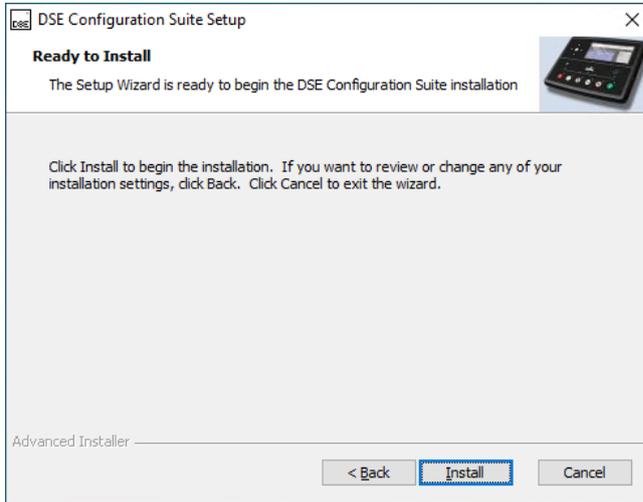
Click the chosen *setup type* from the 3 options. Click *Next* to continue.

2b.



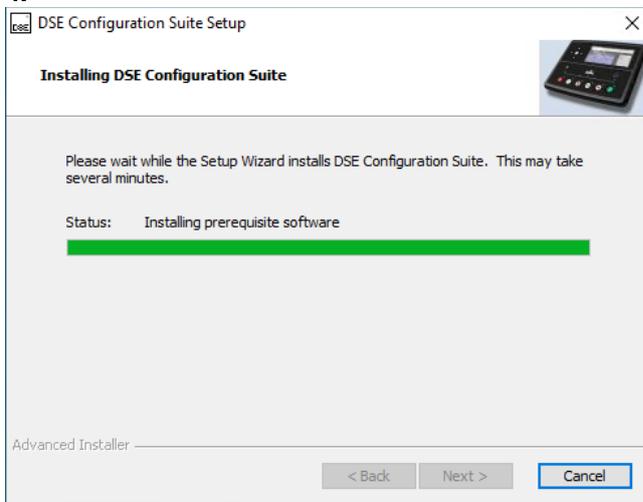
Check the boxes of the features you wish to install. Click *Next* to continue. (this step is applicable to the *Custom* installation option only)

3.



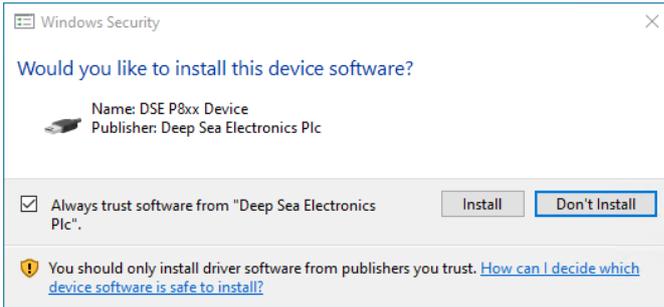
Click *Install*.

4.



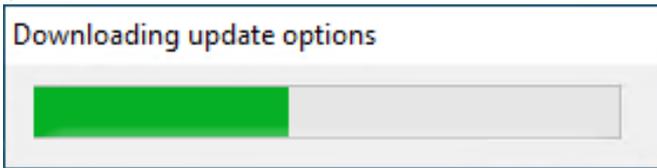
Wait for the process to complete.

5



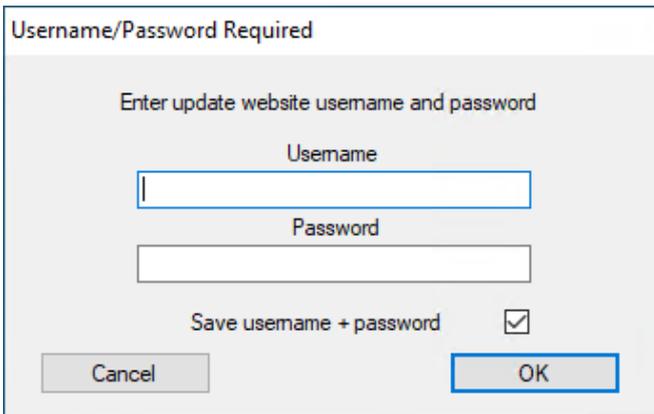
Choose to install *P8xx drivers* or not.

6.



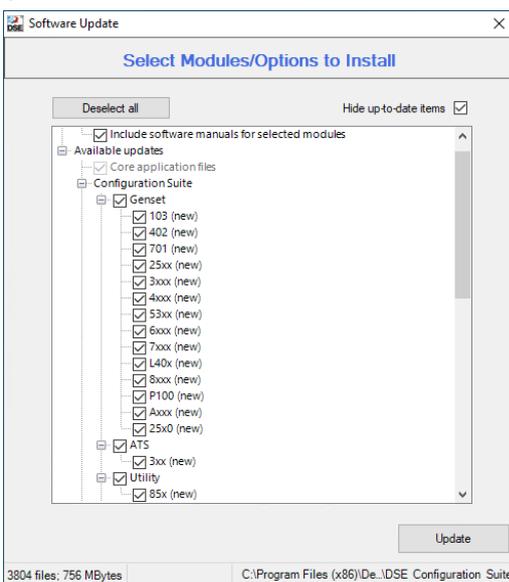
After clicking your required option a loading bar appears..

7.



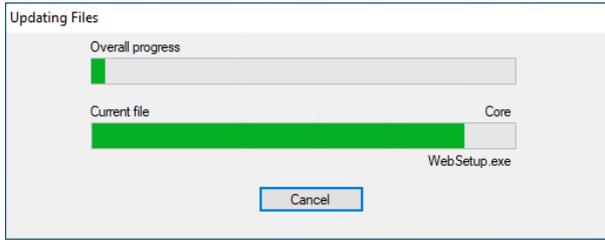
Enter your DSE website login details when prompted and click *OK*..

8.



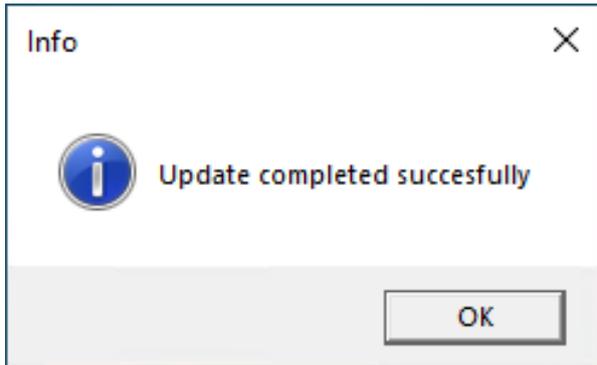
Check the boxes of the modules/options you wish to insall and click *Update*.

9.



Loading bar indicates progress of installation.

10.



Click *OK* to complete the process

2.1.3 TROUBLESHOOTING SOFTWARE INSTALLATION

It is very rare that problems are encountered when installing the system, however if problems do arise, use the following checklist to troubleshoot your software installation

2.1.3.1 SUPPORTED OPERATING SYSTEMS

32 bit and 64-bit versions

- Ensure the operating system is logged onto using an *Administrator Account*. Failure to do this results in installation failure due to incorrect user permissions disallowing registration of some parts of the Configuration Suite Software.
- When installing the software, instead of clicking the icon with the left mouse button, click on the installation icon with the right mouse button, then select *Run as Administrator*.
- Ensure the operating system is fully up to date using the *Microsoft Windows Update* facility.
- Ensure that *Windows Installer* is fully up to date using the *Microsoft Windows Update* facility.
- Ensure the operating system has *Microsoft .Net 4.5.2 Framework redistributable (for x86)* installed and is fully up to date. This is available from Microsoft's website.
- Ensure any installed firewall and anti-virus software does not affect the installation process.

2.1.3.2 WINDOWS 7 AND EARLIER OPERATING SYSTEMS

- Configuration Suite PC Software does **not** support the Windows 7 or earlier operating systems. It is recommended that the system is operated under Windows 10, Windows 8.1 with Microsoft™ .Net 4.5.2 Framework.

2.1.3.3 APPLE MAC (OSX), APPLE DEVICE (IOS) AND ANDROID

- Configuration Suite PC Software requires a Windows Personal Computer (PC) running the full version of Windows 10, Windows 8.1 with Microsoft™ .Net® 4.5.2 Framework.

2.2 HARDWARE INSTALLATION

Ensure the Configuration Suite Software is installed on the PC as described above. The installation of the PC software also installs the DSE Controller USB and DSE813 Driver automatically.

Connect the USB cable to the PC as shown below and to the module. Connection details for the DSE813, DSE815 and P-CAN can be found in the products software manual.



Windows detects the module when power is applied to it. You are now ready to configure or monitor the module using the Configuration Suite Software.

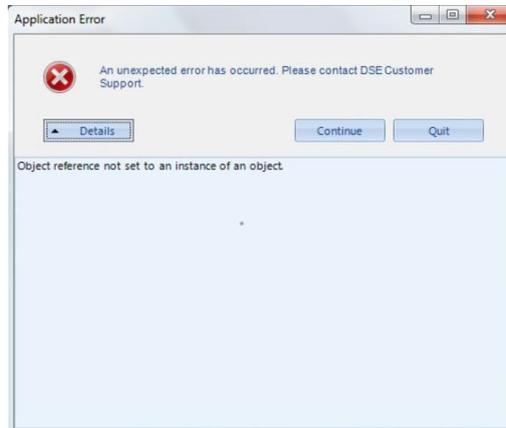
2.3 TROUBLESHOOTING INSTALLATION

Occasionally USB devices are disabled by the Windows operating system, the following procedure will re-enable the device in these instances.

- Disconnect the Deep Sea Electronics Controller from the USB port. Wait a moment, then reconnect and try again. If you still encounter problems then:
- Try another USB cable. If you do not have one, it's the same type of cable as usually used between a PC and a USB printer (Type A to Type B). If you still encounter problems, then:
- Disconnect the Deep Sea Electronics Controller. Shutdown, then restart the PC. Reconnect the interface, and then try again. If you continue to experience problems, then:
- Check the USB port with another device (for instance a mouse, printer, or digital camera).

2.3.1 KNOWN ISSUES

Other known issues have been with USB drivers failing where some users have encountered a warning.

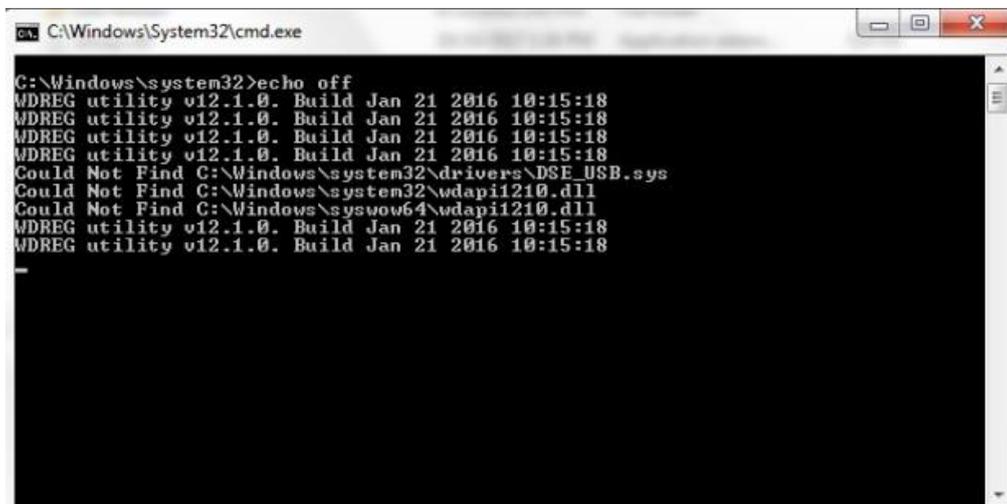


In this instance it is advised to try the following:

- Right Click -> Run As administrator on the following file - C:\Program Files (x86)\Deep Sea Electronics plc\DSE Configuration Suite\Update_v1_v2\Driver Updater.exe
- Go to c:\program files (x86)\Common files\DSE USB Driver (12.1) then right-click 'InstallDriver.bat' and choose 'Run as Administrator'

If this does not work, then the following scenarios may exist.

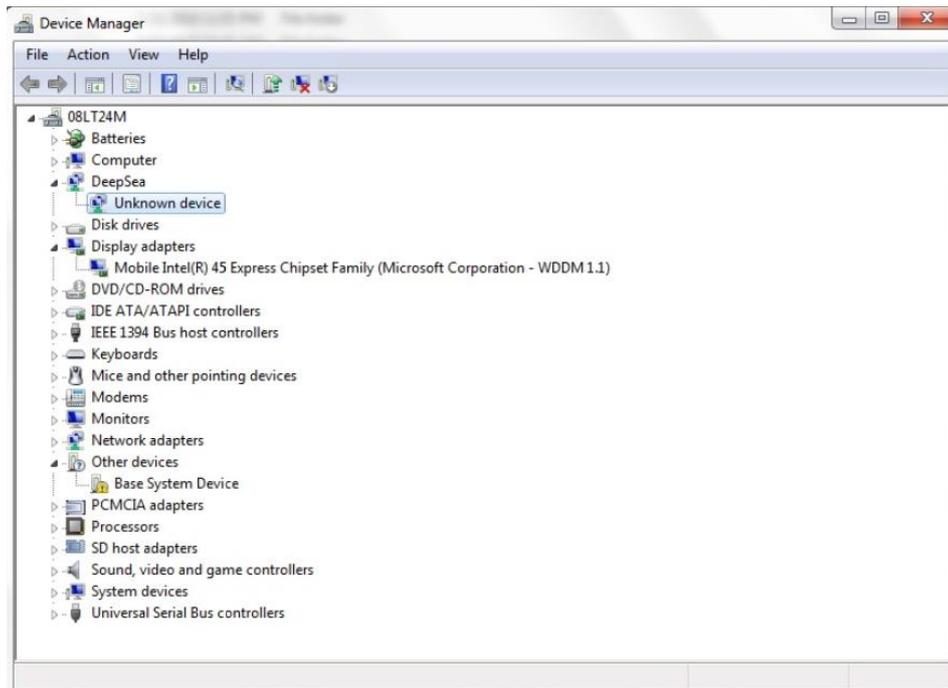
- Files have not been copied to the customers "Windows" folder during installation



- Anti-virus software may be inhibiting the installation process. Disabling the anti-virus software and re-running "InstallDriver.bat" as an administrator may solve the issue

Installation

- Accessing *Device Manager* in Windows may reveal issues with drivers



- Right click, *Properties*.
- *Update Driver...* or *Install Driver...*
- Browser for driver software on your computer.
- Browse to "C:\Program Files (x86)\Common Files\DSE USB Driver (12.1)"
- Ensure *Include Subfolders* is checked and continue with the installation

2.3.2 TECHNICAL SUPPORT

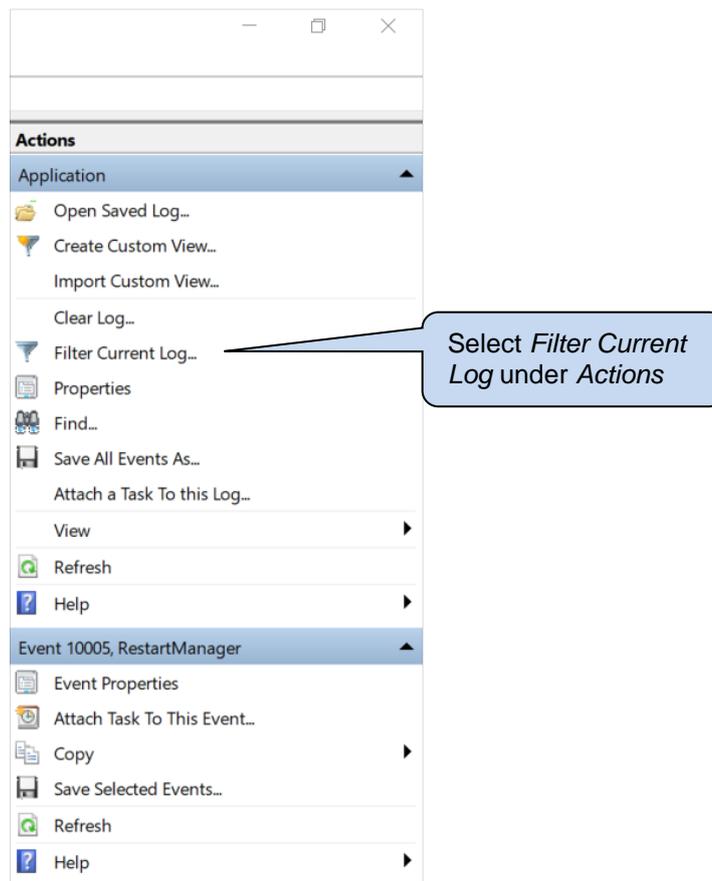
If for any reason assistance is required, then contact DSE technical support: support@deepseaelectronics.com.

The following information is useful in diagnosing installation issues

- A copy of the file under “c:\windows\inf\setupapi.dev.log”
- A copy of the *Event Viewer* log
 - Under *Windows Start Menu*, search for *Event Viewer* and open the application
 - Select *Windows Logs* -> *Application* (This might take a while to load):

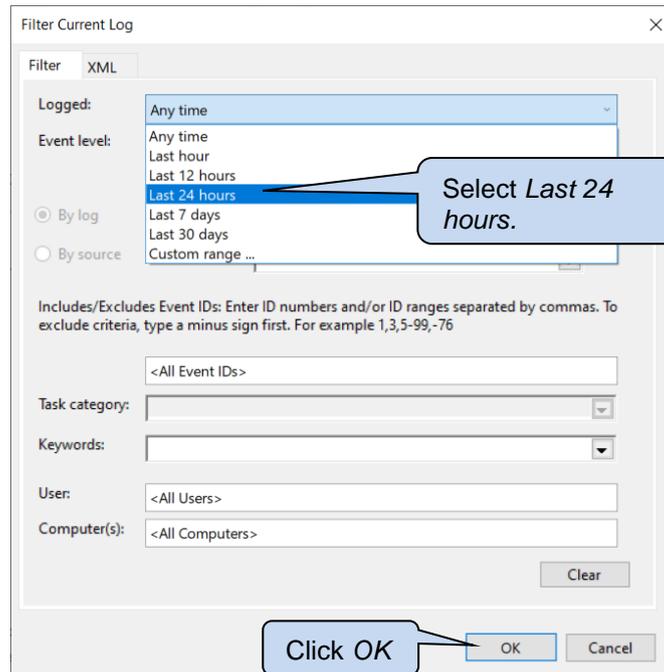


- Select *Filter Current Log* under *Actions*

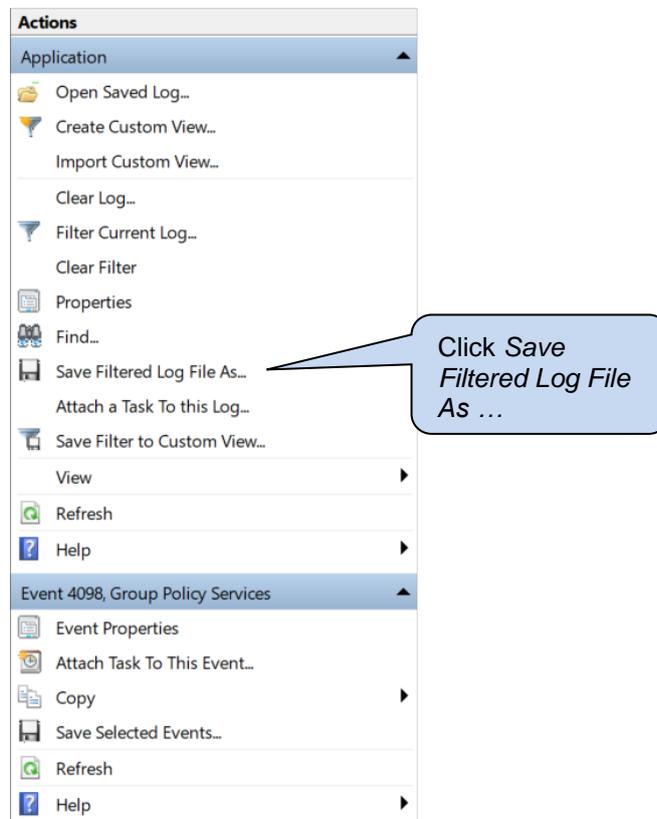


Installation

- Change the Logged drop-down box to *Last 24 hours*



- Click *OK*
- Select *Save Filtered Log File As* under *Action* again, to save out the log file



- Send the log file back to DSE technical support:

3 USING THE DSE CONFIGURATION SUITE PC SOFTWARE

When the installation is complete the DSE configuration suite PC Software is launched by double clicking the shortcut.

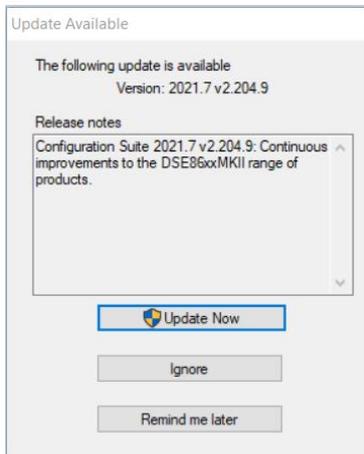


1.



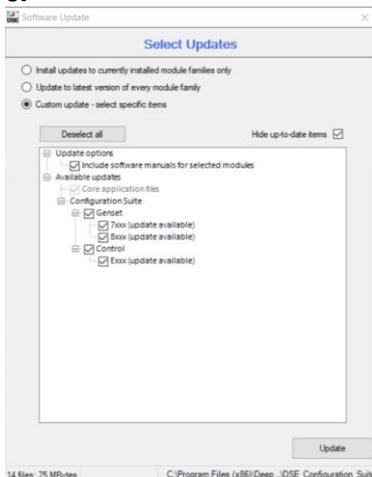
When launching the software, the splash screen is displayed.

2.



When an update is available the splash screen is replaced by the option to begin the update process. If *Update Now* is selected, then Configuration Suite must be closed to continue the update process. When *Ignore* is clicked the update must be carried out manually and when *Remind me later* is clicked the option is redisplayed on the next launch.

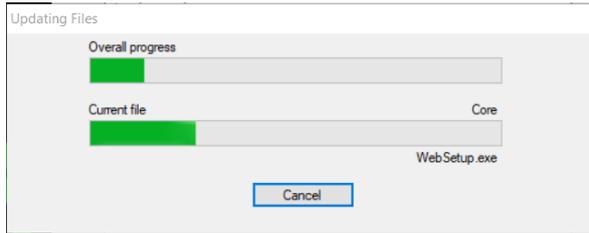
3.



After clicking *Update Now* the Select Updates option appears giving the option to update only the installed module families, all modules or custom. *Custom update* opens the selection list where the required modules are selected. *Update* is then clicked.

Using the PC Configuration Suite

4.



Loading bar indicates progress of installation

5.

Info

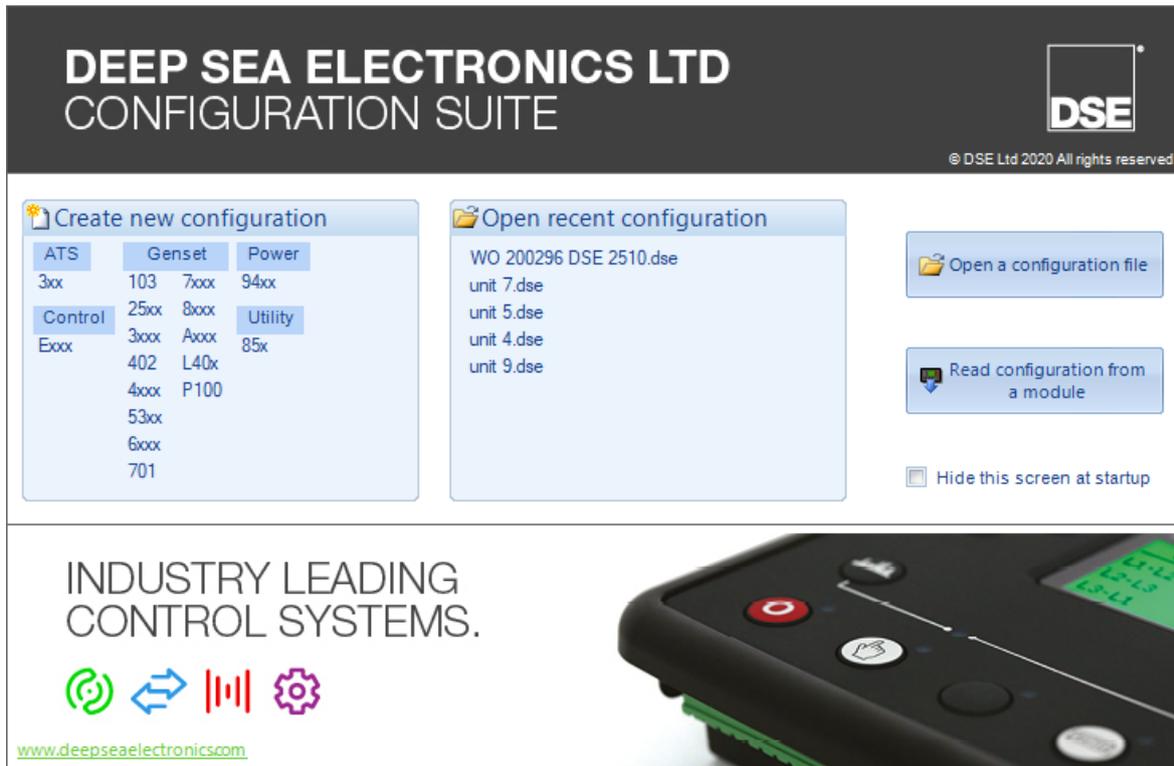


Update completed successfully

OK

Pop-up window indicates successful update. Click *OK* to finish.

3.1 OPENING PAGE



When no updates are available and when available updates are complete, the initial start-up screen is displayed. To prevent the initial start-up screen from being disabled check the *Hide this screen at start-up* box.

The screen prompts the user to select between the three main uses for the software:

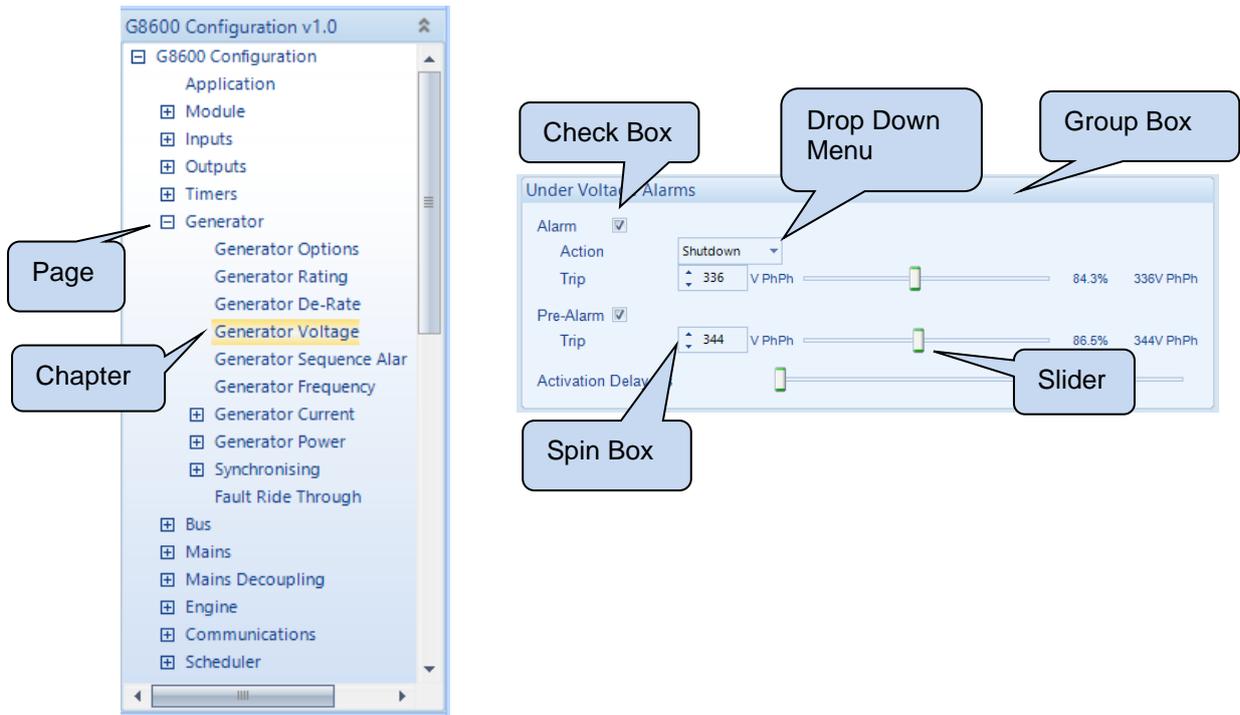
- Creating a new configuration. Select the module type under *Create new configuration*.
- Editing a previously saved configuration. Select the configuration file either from the *Open recent configuration* area or by clicking *Open a configuration file* and browsing to the file.
- Reading the configuration of a connected module. Click *Read configuration from a module*. The file is read from a currently connected controller and is available for editing in the Configuration Suite.

Alternatively, this screen is disregarded and the main DSE Configuration Suite PC Software program in the background is used to read. In this instance the start-up screen disappears.

3.2 GENERAL CONTROLS

Overview

The *DSE Configuration Suite PC Software* dialog boxes provide the user with a way to type text, choose options, and initiate actions. Controls in other windows provide a variety of services, such as letting the user choose commands and view and edit text. This section describes the controls provided by the *DSE Configuration Suite* and how to manipulate them. The diagram below shows the general controls of the main configuration screen.



3.2.1 USER CONTROLS

Slider

The Slider Control allows the user to change a value using a mouse or arrows found on a standard keyboard.

The slider is highlighted in green in its inactive state and will change to orange (active state) once selected by a mouse pointer.



Inactive state

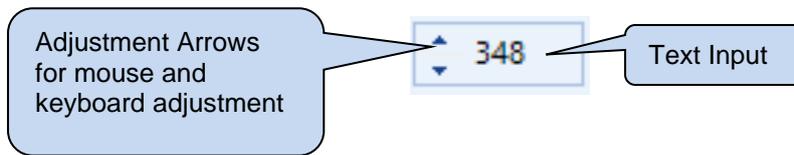


Active state

During the active state, the slider can be moved with the mouse pointer and the left and right keyboard arrows.

Spin Box

The Spin box displays the current value of the setting in the group box.



Clicking the mouse over the Spin box will change its colour to orange putting it in an active state.



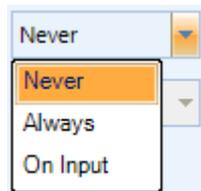
During the active state text can be entered using the keyboard, changed using the mouse pointer or the up and down arrows on the keyboard.

Check box

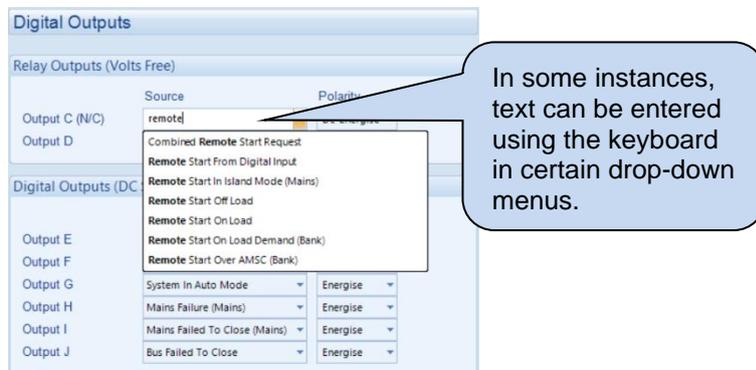


Used to select a parameter

Drop down menu



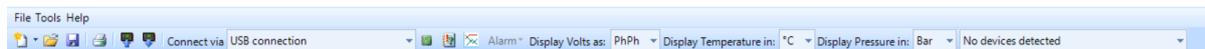
Used to select an action



Used to select a source

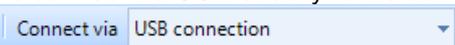
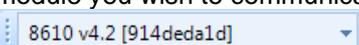
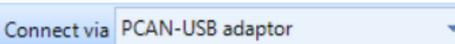
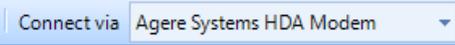
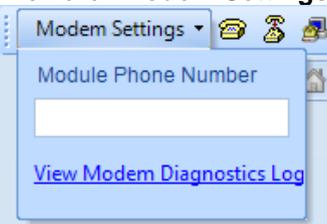
4 MENUS AND TOOLBAR

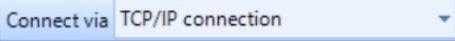
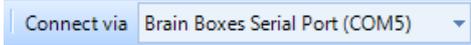
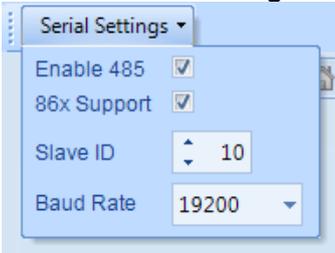
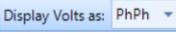
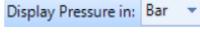
The menu and toolbar are located at the top of the screen:



4.1 TOOLBAR

The toolbar contains the most used commands from the menus and is a fast way of accessing these commands. Not all options are applicable to all DSE controllers.

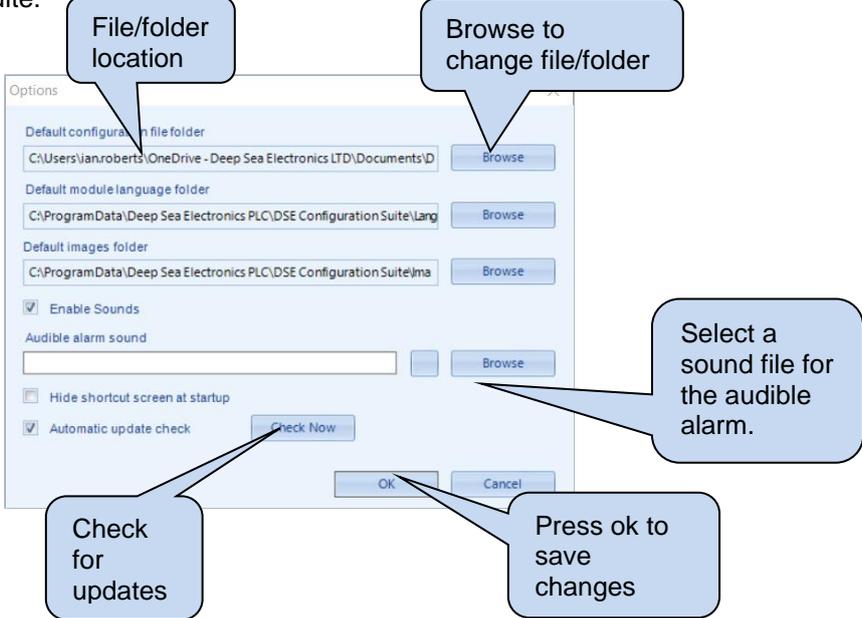
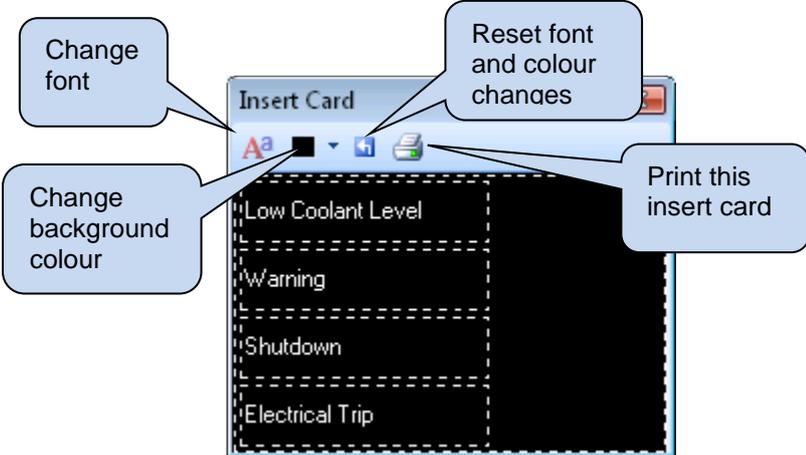
	Create a new configuration file
	Open an existing file from disk or flash memory device
	Save the current file. Previously existing files are saved back to the location they were opened. When saving a new file, the user is prompted to enter a filename.
	Print the currently open configuration file
	Write the currently open configuration settings to the module
	Read the configuration from the connected module for viewing / editing
	Select the communication method. The choices present are dependent upon your PC's configuration. Any modem connections added to the address book are also selected here.
USB	<p>To connect via USB directly to the controller, select USB:</p>  <p>If there are more than one controller connected via USB, select which module you wish to communicate with:</p> 
PCAN-USB Adaptor	<p>To connect via PCAN-USB Adaptor.</p>  <p>The PCAN-USB adapter enables simple connection to CAN networks.</p>
Modem	<p>To connect via Modem, select your modem connection from the list:</p>  <p>Then click Modem Settings box to enter the number to dial.</p>  <p>Alternatively, you can select an entry in the address book.</p> <p>Dial Dial the number currently entered into the <i>Module Phone Number</i> setting.</p> <p>Hang-up Close the phone connection.</p> <p>Answer mode The Configuration Suite goes into <i>Answer Mode</i> awaiting a connection from a remote module.</p>

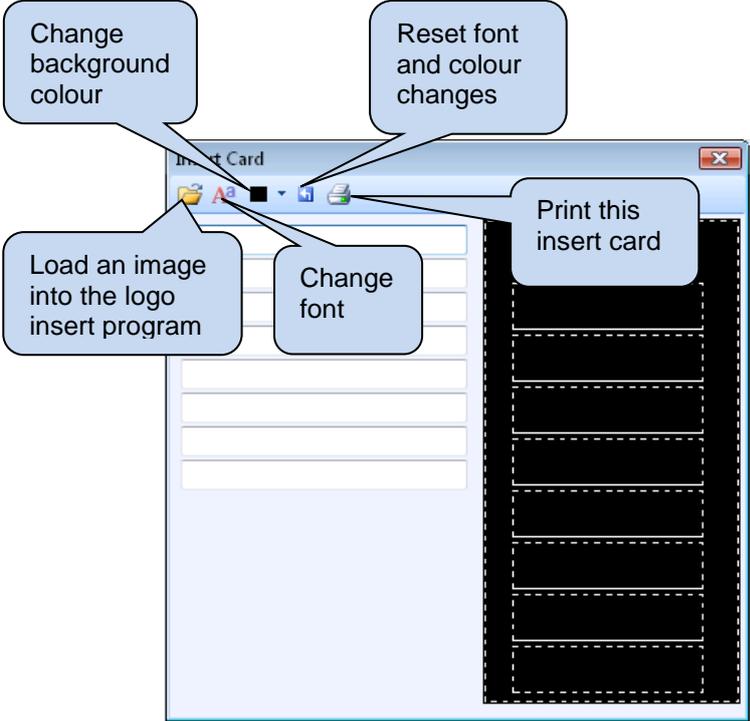
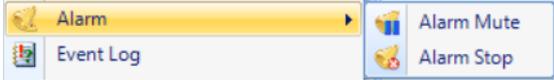
<p>TCP/IP connection</p>	<p>To connect via Ethernet, select <i>TCP/IP connection</i>:</p>  <p>Then click TCP/IP Settings in the toolbar.</p>  <p>You must consult your network administrator for help in selecting these settings. They must match the settings of the controller you wish to communicate with.</p>
<p>RS485 / RS232</p>	<p>To connect to a module via RS232 or RS485, select your comport from the list:</p>  <p>Then click Serial Settings to configure the RS485 Port:</p>  <p>Enable 485 : Enable or Disable the RS485 port connection in the PC.</p> <p>86x Support : Enables a longer communication time-out</p> <p>Slave ID: The ModBus slave ID you wish to communicate with.</p> <p>Baud Rate: The baud rate you wish to connect at.</p>
	<p>Allows the user to create an <i>Address Book</i> of connections. For a complete description see section 4.3.4 entitled <i>Address Book</i>.</p>
	<p>Allows the user to log all the events from any module connected to the PC via SCADA. For a complete description see the section 4.3.3 entitled <i>Event Log</i>.</p>
	<p>Allows the user to access the Curve and Unit Manager editor.</p>
	<p>Allows the user to mute any alarms that have been received by telephone modem from a suitably configured controller.</p>
	<p>Select how voltages are displayed voltages are displayed in Configuration Suite.</p> <p>PhPh PhN</p>
	<p>Select how temperature is displayed from the list in Configuration Suite.</p> <p>°C °F</p>
	<p>Select how pressure is displayed from the list in Configuration Suite.</p> <p>Bar kPa PSI</p>
	<p>Shows a list of connected devices.</p>

4.2 FILE MENU

 New	<p>Create a new configuration file. You are prompted to select what kind of module you want to create the configuration for.</p> <p>The settings of the new configuration file match the factory settings for the chosen module type.</p> <p>You can only select to create a configuration file for the 'latest' version of controller. If you want to create a configuration for an earlier version of controller, you can use <i>Convert to...</i> to make your configuration suitable for the earlier controller or use <i>Tools / Update firmware</i> to update the earlier module to the latest version.</p>
Recent	<p>Open a recently used file.</p>
 Open	<p>Open an existing file from disk or flash memory device.</p>
 Close	<p>Close the currently open file.</p>
 Save	<p>Save the currently open file to the location it was loaded from previously. If this is a new file, you are prompted to enter a filename.</p>
 Save As..	<p>Save the currently open file, under a new name. You will be prompted to enter a filename.</p>
Export to DSEAssistant File	<p>Allows the user to save files from within a control module for use in other modules (DSE Assistant Tool) or to assist with config analysis.</p>
 Write to module	<p>Send the currently open configuration settings to the controller.</p>
 Read from module	<p>Read the settings out of the connected controller for viewing / editing.</p>
Import from module	<p>Read the settings from the connected controller and convert to the currently selected configuration type.</p>
Import from file	<p>Read the settings from a module's configuration file on disk or flash memory device and convert to the currently selected configuration type.</p>
Import from DSEAssistant File	<p>Allows the user to import files saved from a control module or DSE Assistant Tool to assist with config analysis.</p>
Convert to...	<p>Convert the currently loaded configuration file to suit another module type or another module version.</p>
 Print Ctrl+P	<p>Print the currently open configuration file.</p>
 Page Setup	<p>Select printer type and printer settings.</p>
 Exit	<p>Exit the software. If the currently open file has changed since it was last saved, you will be prompted to save it.</p>

4.3 TOOLS MENU

<p>Options</p>	<p>Opens the <i>Options</i> screen containing customisation options for the DSE Configuration Suite.</p> 
<p>Logo insert</p>	<p>Only available when currently viewing the <i>Module</i> section of the configuration.</p> <p>This allows the user to create Logo Inserts for certain DSE modules to customise the controller to suit the generator manufacturer.</p> 
<p>Text Insert</p>	<p>Only available when currently viewing the <i>Module</i> section of the configuration.</p> <p>This allows the user to create Text Inserts for the configurable LEDs on the certain DSE modules.</p> 

<p>Update Firmware</p>	<p>Allows the user to update the firmware (internal software) of the DSE controller. For a complete description see the section 4.3.1 entitled "Update Firmware" in this document.</p>
<p>Access Permissions</p>	<p>See the section headed "Access Permissions" after this table.</p>
<p>Annunciator Insert Card</p>	<p>Only available when currently viewing the DSE2548 configurations in the <i>Expansion 2548 Annunciator Modules</i> section of the configuration.</p> <p>This allows the user to create Text Inserts for the DSE2548 Expansion Annunciator modules</p>  <p>The screenshot shows a window titled 'Insert Card' with a toolbar at the top containing icons for file operations and text formatting. Below the toolbar is a text input area and a preview area on the right showing a black card with white dashed lines. Callout boxes point to specific toolbar icons: 'Change background colour' (background color swatch), 'Reset font and colour changes' (font reset icon), 'Load an image into the logo insert program' (image icon), 'Change font' (font face dropdown), and 'Print this insert card' (print icon).</p>
<p>Alarm</p>	<p>This menu will appear when set up in the <i>Options</i> section if a sound file, <i>Enable Sounds</i> checkbox and the SCADA pages have been selected. Allows the user to mute or stop any alarms that have been received by telephone modem from a suitably configured controller.</p>  <p>The screenshot shows a menu with 'Alarm' selected, which has opened a sub-menu containing 'Alarm Mute' and 'Alarm Stop' options. 'Event Log' is also visible in the main menu.</p>
<p>Event Log</p>	<p>Allows the user to log all the events from any module connected to the PC via SCADA. For a complete description see the section 4.3.3 entitled <i>8xxx Series Pc Event Log</i> in this document.</p>

Menus and Toolbar

Address Book	Allows the user to create an Address Book of connections. For a complete description see the section 4.3.4 entitled "Address Book" in this document.
Curve and Unit Manager	Allows the management (editing or deleting) of custom sensor curves. See section entitled <i>Curve and Unit Manager</i> .
Language Editor	Allows the editing of the text displayed by the module. For a complete description see the section 4.3.5 entitled "Language Editor".
Data Log Viewer	Allows the user to view previously logged data from a DSE module. For a complete description see the section 4.3.7 entitled "DSE 8xxx Data Log Viewer".
Simulation Injection Testing	For a detailed explanation please refer to DSE Publication: <i>056-123 Simulation Injection Testing</i> .
Batch Convert To...	Allows the user to update a large quantity of configuration files to the latest version. For a complete description see the section 4.3.8 entitled "Batch Convert To...".
Export GUI to Images	Allows the export of GUI's from the Configuration and SCADA section.
Backup Module	Allows the user to backup up the connected modules configuration file and SCADA settings.
Restore Module	Allows the user to restore a previous configuration file and SCADA settings to the connected module.
Create Configuration Suite Flash File	Allows the user to create a flash file from a selected Firmware Update file (*.dfu) with the option of a Configuration (*.dse) file and Language file (*.lang).
Add Development Engine(s)	For a detailed explanation please refer to DSE Publication: <i>056-023 Adding Development Engine Files</i> .
Manage Development Engine(s)	Allows the user to delete the engine file once the test has been completed. Please refer to DSE Publication: <i>056-023 Adding Development Engine Files</i> .
Language	Allows the user to select their preferred language.

4.3.1 UPDATE FIRMWARE

Selecting *Update Firmware* initiates the update wizard:

Firmware Update Wizard (1 of 6)

Welcome

This wizard will guide you through the firmware update process.

Warning
Interrupting this process at any point may render the module inoperable.

< Back Next >

Click the **exit** button if you don't want to update your

Hint : Stopping the update process once it begins could leave the module inoperable! If this occurs, simply run the update wizard again and let it complete correctly.

Click **next** to continue.

Firmware Update Wizard (2 of 6)

Select Device

Select device type

- USB Unit
- USB <-> DSE813
- USB <-> RS485 DSE815
- PCAN-USB adaptor

< Back Next >

Select the device type

Click **next** to continue.

4.3.1.1 DIRECT USB CONNECTION

Firmware Update Wizard (3 of 6)

Power Down

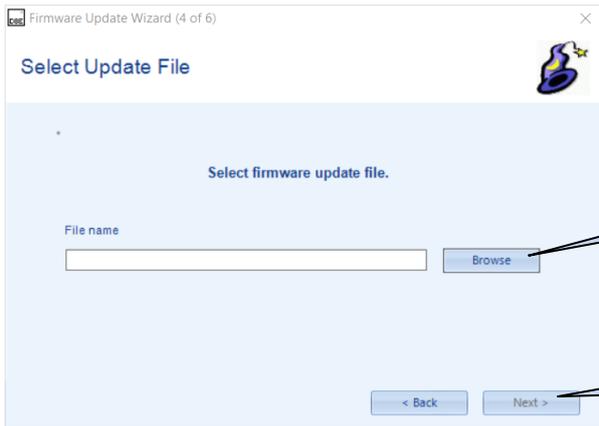
Disconnect the USB cable from the module.

Disconnect the module from any external power supply.

< Back Next >

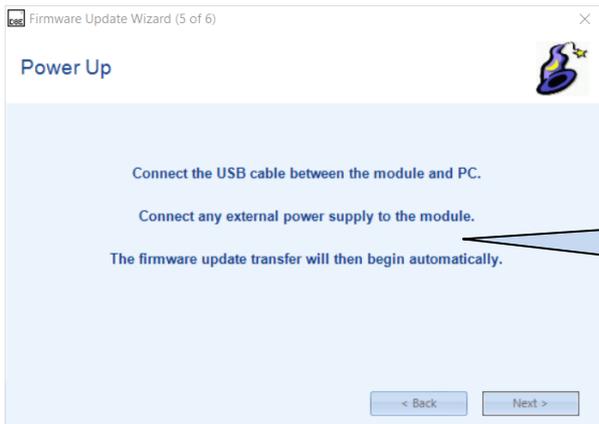
Ensure the module's supply and USB cable are removed, and then click **next** to continue.

Menus and Toolbar

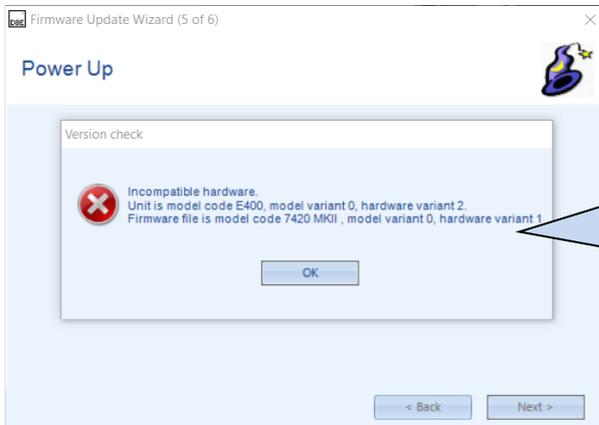


Click to select the firmware update file.

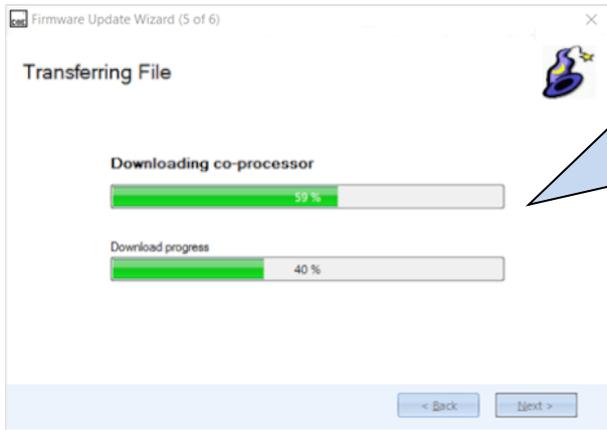
Then click **next** to continue.



Ensure the USB cable is connected before the module's power supply. It will be automatically detected and the update



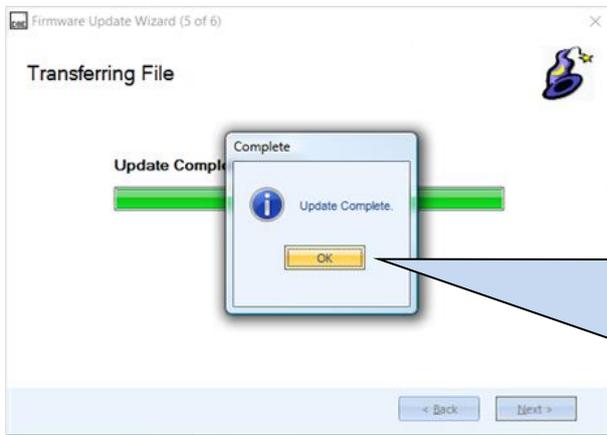
If the file you attempt to send to the module is not compatible with the currently connected module, the update cannot continue. In this example an attempt was made to send a DSE8660 firmware file to a DSE8610 module!



The update is now in progress and will take under one minute.

During this phase:

- DO NOT DISCONNECT THE USB CONNECTION
- DO NOT TURN OFF YOUR PC



The update is now complete.

The module will automatically restart with the updated firmware (internal software program).

It is now safe to disconnect the USB lead and power down the module or your PC.

Click **OK** to continue.

4.3.1.2 CONNECTION VIA DSE813



Select the COM Port of the DSE813 uses.

Hint : You can find the COM Port number out from *Windows Device Manager | Ports (COM & LPT)*

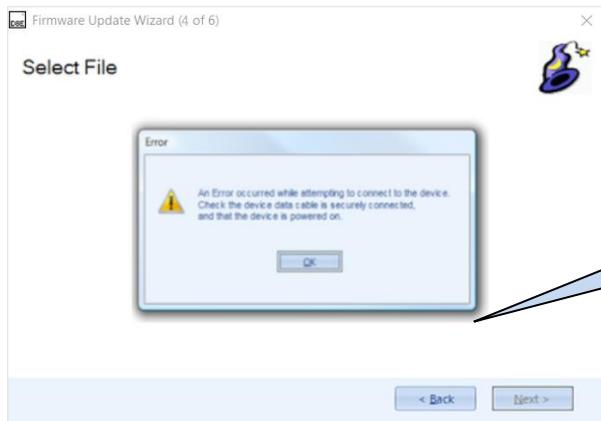
- Ports (COM & LPT)
 - Brain Boxes Serial Port (COM5)
 - DSE 8xx USB Serial Port (COM4)**
 - Tibho Virtual Serial Port (COM24)

Then click **next** to continue.



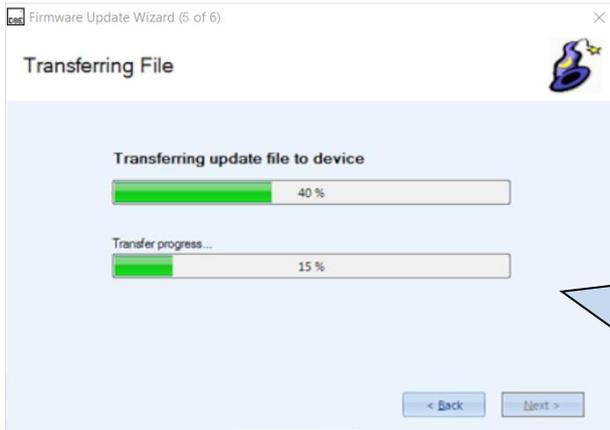
Click to select the firmware update file.

Then click **next** to begin the firmware upgrade.



If the wrong COM port has been selected, or the DSE813 is not connected properly the update will not begin.

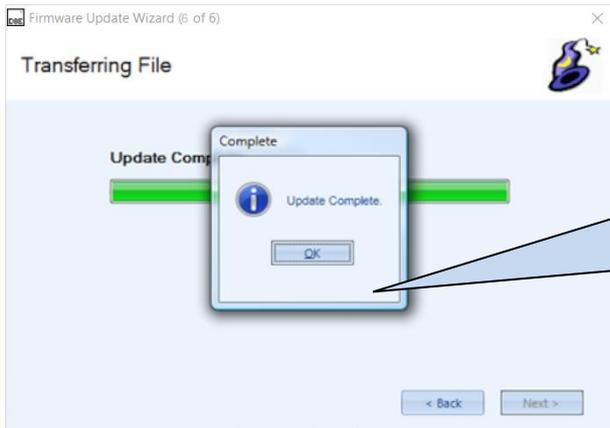
Menus and Toolbar



The update is now in progress and will take around three minutes to complete.

During this phase:

- DO NOT DISCONNECT THE DSE813 INTERFACE
- DO NOT TURN OFF YOUR PC



The update is now complete.

It is now safe to disconnect the DSE813 interface from the module and your PC.

Click **OK** to continue.

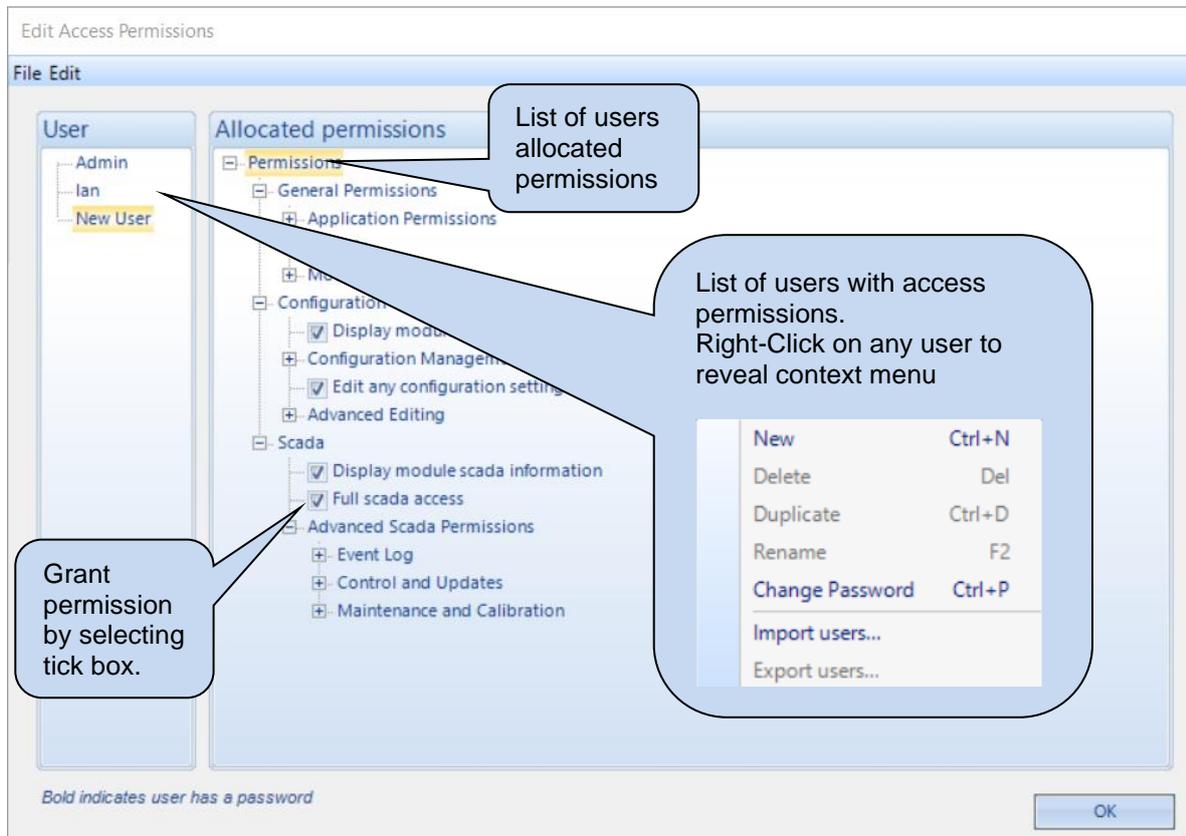
4.3.2 ACCESS PERMISSIONS

Access permissions is an advanced Administration option to allow OEMs to setup the Configuration Suite software to limit access for certain users.

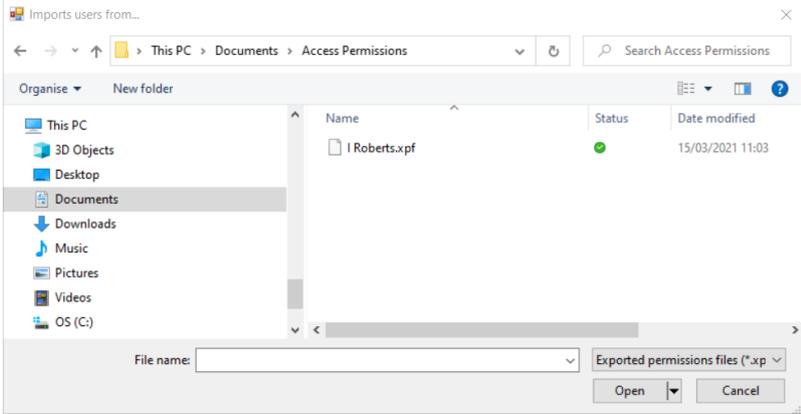
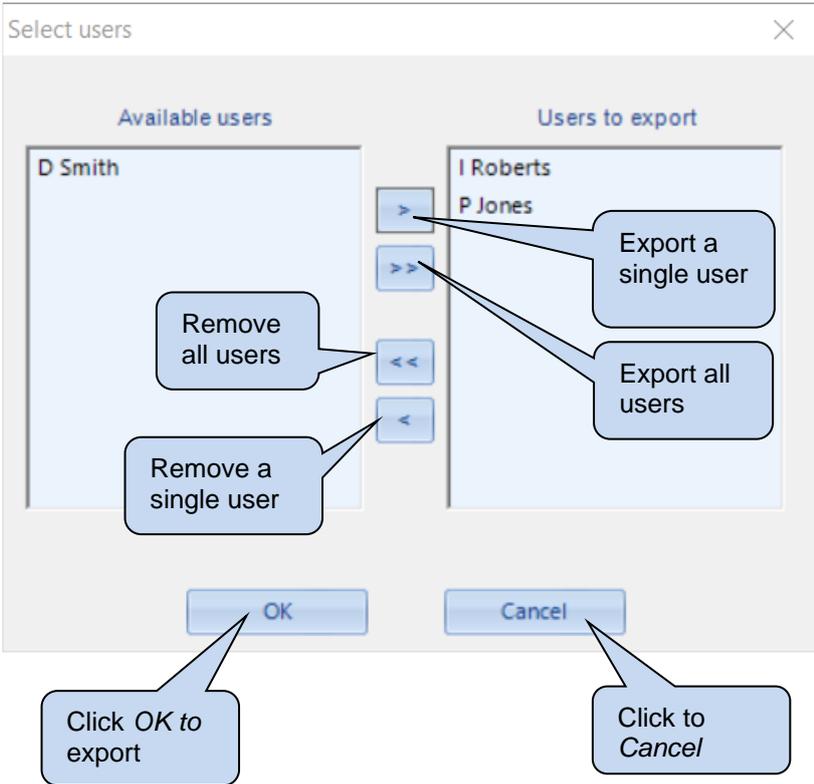
For instance, the generator OEM can install the software on the End User's PC and then setup multiple usernames to limit the customers' access to only those functions that the OEM requires for the end user.

An example of this is to give only SCADA access to a user requiring monitoring, or to give access to read and write configuration files, but not to edit a configuration file.

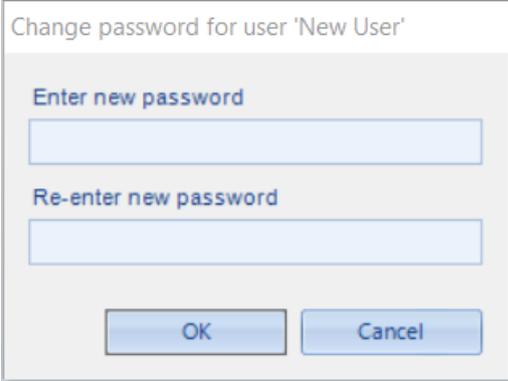
Create a new user type



4.3.2.1 FILE MENU

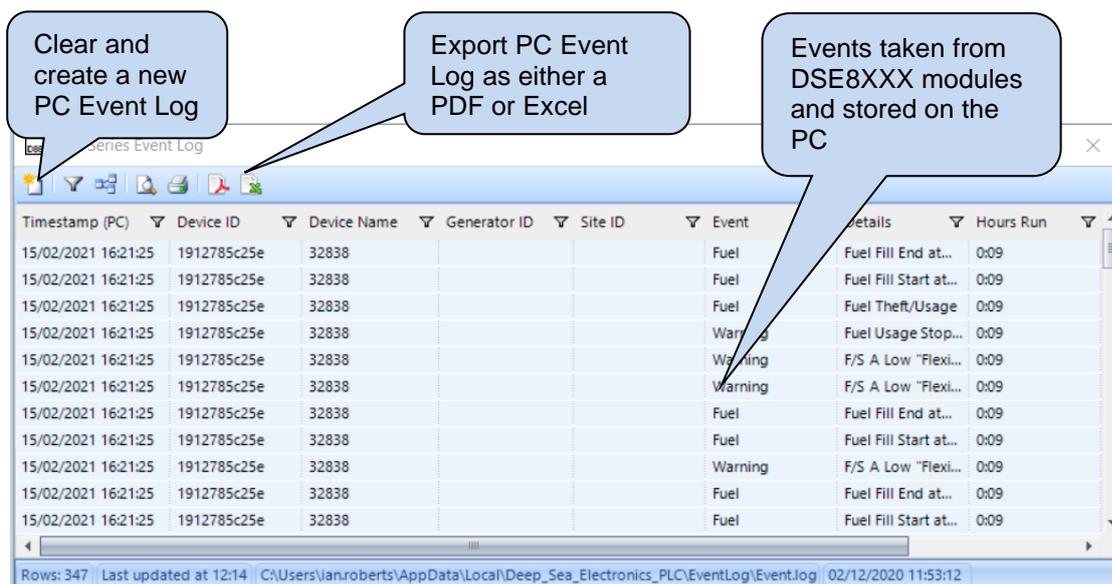
<p>Import users</p>	<p>Allows the user to import <i>Exported permission files (.xpf)</i> into config suite.</p> 
<p>Export users</p>	<p>Allows the user to export <i>Exported permission files (.xpf)</i> from config suite.</p> 

4.3.2.2 EDIT MENU

New	<p>Create a new user file. You are prompted to select a name for the user which appears in the <i>User</i> column. If no name is entered, then the software defaults to <i>New User</i>.</p>  <p>A new user can also be created by Right-Clicking on any existing user to reveal the context menu.</p>
Duplicate	Duplicate the permissions from the current user.
Delete	Allows deletion of the selected user.
Rename	Allows renaming of the selected user.
Change Password	<p>Allows the password to be changed for the user.</p> 

4.3.3 DSE8XXX SERIES PC EVENT LOG

The PC event log is provided to maintain a log of alarms of DSE8XXX controllers that have been connected to the SCADA section of the software. This event log is intended to maintain a log of alarms from modules that have ‘dialed’ in when the station is unattended.



Clear and create a new PC Event Log

Export PC Event Log as either a PDF or Excel

Events taken from DSE8XXX modules and stored on the PC

Timestamp (PC)	Device ID	Device Name	Generator ID	Site ID	Event	Details	Hours Run
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill End at...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill Start at...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Theft/Usage	0:09
15/02/2021 16:21:25	1912785c25e	32838			Warning	Fuel Usage Stop...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Warning	F/S A Low "Flexi...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Warning	F/S A Low "Flexi...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill End at...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill Start at...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Warning	F/S A Low "Flexi...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill End at...	0:09
15/02/2021 16:21:25	1912785c25e	32838			Fuel	Fuel Fill Start at...	0:09

Rows: 347 | Last updated at 12:14 | C:\Users\ian.roberts\AppData\Local\Deep_Sea_Electronics_PLC\EventLog\EventLog_02/12/2020 11:53:12

4.3.4 ADDRESS BOOK

The *Address Book (Tools | Address Book)* is included to allow the user to create and store address entries to make connection to a defined module with ease. An obvious use for this facility is to allow the user to create and store address entries for modules which are connected with modems to make communication without entering the information into the software multiple times.

4.3.4.1 CREATING A NEW ENTRY

The screenshot shows the main application window with a menu bar (File, Tools, Help) and a toolbar. A dropdown menu is open, showing 'Connect via' and 'USB connection'. A callout points to the 'Address Book' icon in the toolbar, stating: 'To create a new Address Book entry, click on the “Address Book” icon or go to (Tools | Address Book)'. Below this, the 'Address Book' window is open, displaying a table with columns: Name, Port, Site ID, Generator ID, and Details. The table contains three rows: 'USB connection', 'TCP/IP connection', and 'PCAN-USB adaptor'. A callout points to the table, stating: 'The user can choose to create a new Address Book entry, open an existing one for editing or delete an old one.' Another callout points to the column headers, stating: 'Click the column headings to sort them'. A large callout points to the table area, stating: 'Available communication'. At the bottom of the window, there are 'Add', 'Edit', and 'Remove' buttons. The status bar at the bottom indicates 'Rows: 3' and 'Last updated at 12:21'.

Name	Port	Site ID	Generator ID	Details
USB connection	USB connection			Device[1bad1dea]
TCP/IP connection	TCP/IP connection			IP Address[1.1.1.1] IP Port[502] Slave ID[10]
PCAN-USB adaptor	PCAN-USB adaptor			PCAN-USB adaptor

Adding a Connection

The 'Add Connection' dialog box contains the following fields and callouts:

- Port:** A dropdown menu set to 'USB connection'. Callout: "Select the port to communicate with module."
- Name:** A text input field containing 'Deep Sea Electronics'. Callout: "Enter the address details, if an identical name is used multiple times, a number will be automatically added after each entry."
- Site ID:** A text input field containing 'Scarborough'.
- Generator ID:** A text input field containing '2'.
- Password:** A text input field containing '****'. Callout: "Enter the modules PIN number if configured to allow access. If the module does not have a PIN number configured, leave as shown."
- Device ID:** A dropdown menu set to '32869 v1.0 [1bad1dea]'.
- Buttons:** 'OK' and 'Cancel' buttons. Callout: "To save the address entry, press the Ok"

4.3.4.2 USING AN ENTRY

The 'Address Book' window displays a table with the following data:

Name	Port	Site ID
USB connection	USB connection	Device[1bad1dea]
TCP/IP connection	TCP/IP connection	IP Address[1.1.1.1] IP Port[502] Slave ID[10]
PCAN-USB adaptor	PCAN-USB adaptor	PCAN-USB adaptor

Callout: "The new entry can now be selected by double clicking with the left mouse button or using the 'Connect via' drop down menu on the Main Toolbar."

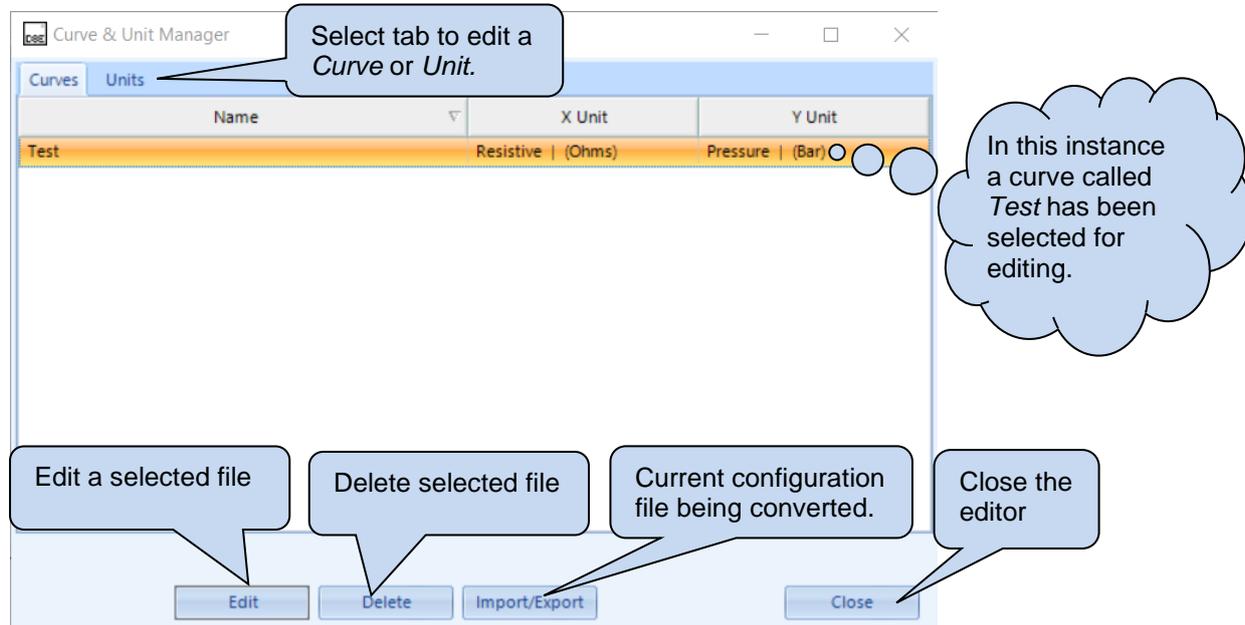
The 'Connect via' dropdown menu shows a list of recent entries:

- 1: Deep Sea Electronics 1 [USB connection]
- 2: Deep Sea Electronics [Brain Boxes Serial Port (COM5)]
- 3: Factory [Tibbo Virtual Serial Port (COM24)]
- 4: Deep Sea Electronics 3 [TCP/IP connection]
- 5: Workshop [USB connection]

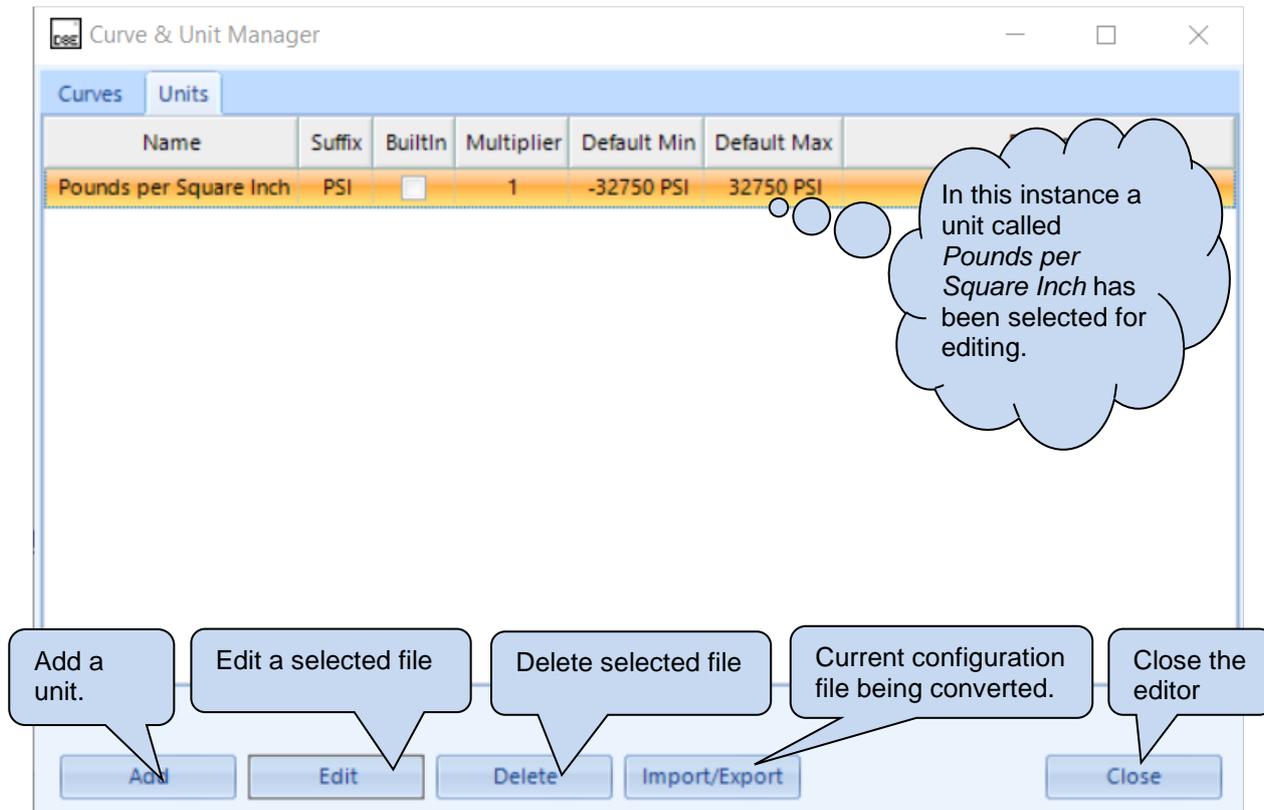
Callout: "If the user has multiple Address Book entries, the last 5 used will be shown in the 'Connect via' drop down menu."

4.3.5 CURVE AND UNIT MANAGER

While the DSE Configuration Suite holds sensor specifications for the most commonly used resistive sensors, occasionally it is required that the module be connected to a sensor not listed by the DSE Configuration Suite. To aid this process, a sensor curve editor is provided.



4.3.5.1 UNIT EDITOR



Adding a Unit

Define new custom unit

Description

Suffix

Multiplier

Default Min. PSI

Default Max. PSI

Max. Range From -32750 PSI to 32750 PSI in steps of 1 PSI

Enter a description of the *Unit*.

Enter the unit's suffix.

Enter the multiplier for the range.

Enter the minimum and maximum ranges for the unit.

Add the *Unit*.

Cancel adding the *Unit*.

Import/Export Curves & Units

Import/Export Curves & Units

Curves

Selected	Name	X Unit	Y Unit
<input checked="" type="checkbox"/>	Test	Resistive (Ohms)	Pressure (Bar)

Units

Selected	Name	Suffix
<input type="checkbox"/>	Pounds per Square Inch	PSI

In this instance a *Test* has been selected and can be exported using the *Export Selected* button.

Import a *Curve* or *Unit Database* file (*.cudb)

Import Legacy *Curves* or *Unit*

Export a *selected Curve* or *Unit* to a *Curve Unit Database* file (*.cudb)

4.3.5.2 CURVE EDITOR

Curve Editor

Test

Display Pressure in: Bar

Bar

Ohms

Interpolate Change Axes Range 182 Ohms 9.83 Bar Save As Save Cancel

"Double Click" to Add a point. "Right Click" on a point to Remove it. Number of points used: 13/31

Click to change the Y axis value between imperial and metric units.

Double click the left mouse button to add a point or right click on a point to remove it.

Click and drag the points on the graphs to change the settings

Use the mouse to select the graph point, then enter the value in the box or click up/down to change the value

The red highlighted area indicates over/under measurable range.

Click *Interpolate* then select two points as prompted to draw a straight line between

Click to change the range of the X and Y Axes of the graph and the level of open circuit

Click **SAVE AS**, a prompt to name the curve...

New Curve Name

Enter a name for the new curve

OK Cancel

Click **OK** to save the curve.

Any saved curves become selectable in the *Input Type* selection list.

Click **SAVE** to accept the changes or **CANCEL** to ignore and lose the

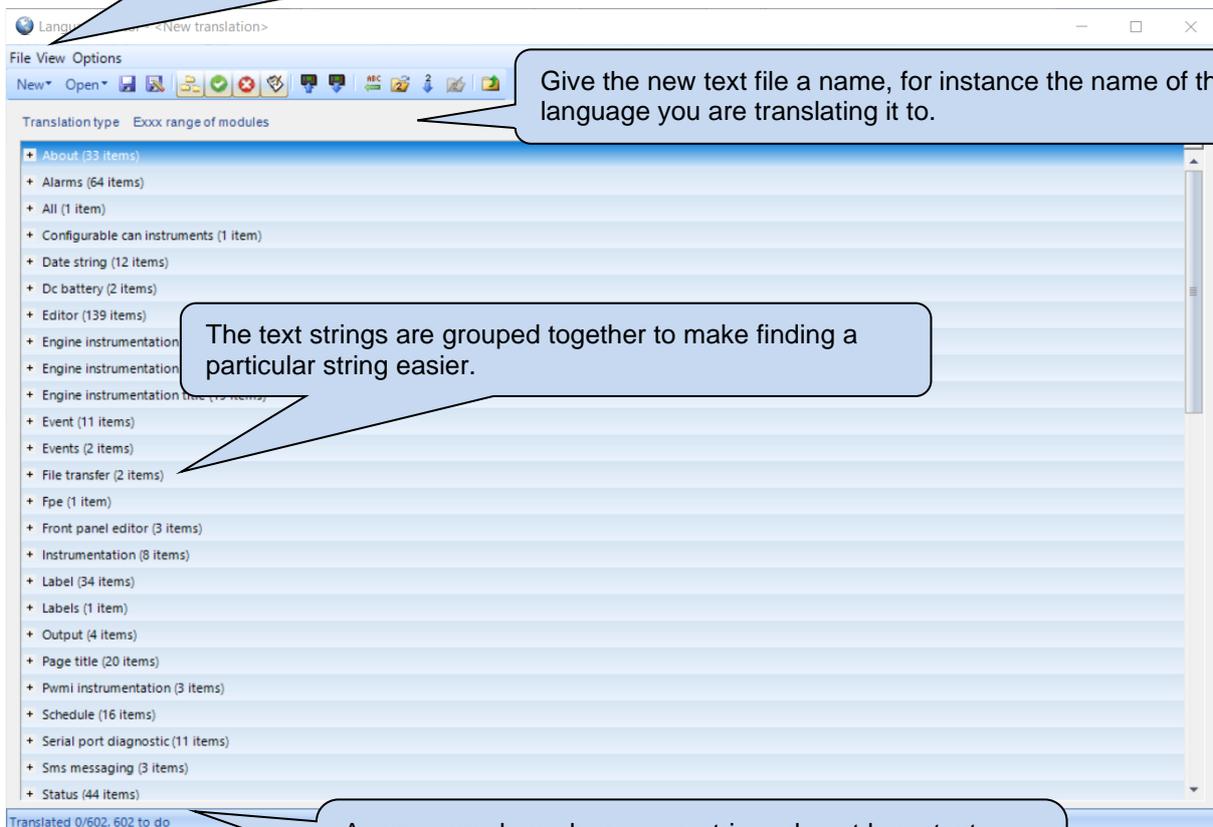
Hint: Deleting, renaming or editing custom sensor curves that have been added is performed in the main menu, select *Tools | Curve Manager*.

4.3.6 LANGUAGE EDITOR

The *Language editor (Tools | Language Editor)* is included to allow the user to tailor the text for some DSE controllers to suit their own requirements. An obvious use for this facility is to allow the user to change the entire module text to another language. Other uses include changing some wording to better reflect the customer's application. For instance, "Shutdown" can be renamed to "Critical Alarm" and "Warning" can be changed to "Prompt Alarm".

4.3.6.1 GETTING STARTED

To start a new translation, go to the File menu. The user can choose to create a new module translation or SCADA/event log translation (Module alarm strings) or open an existing one for editing.



Give the new text file a name, for instance the name of the language you are translating it to.

The text strings are grouped together to make finding a particular string easier.

A summary shows how many strings do not have text entered, and if any are incorrect (are too long to display on the module screen) these will be shown as 'errors'.

4.3.6.2 EDITING THE STRINGS

Click the + symbol to open up that section and view/modify the text strings. Click – to close this

Click the column headings to sort the strings into alphabetical order

	English	Translation	Mimic
Configurable CAN			
+ Date string (12 items)			
+ Dc battery (2 items)			
+ Editor (139 items)			
+ Engine instrumentation (135 items)			
+ Engine instrumentation label (5 items)			
+ Engine instrumentation title (19 items)			
+ Event (11 items)			
+ Events (2 items)			
+ File transfer (2 items)			

A 'tick' shows that the text fits onto the display. A 'cross' means the text is too long for the display.

Enter the new text into the *Translation* column.

The *Mimic* column shows how it will appear on the module display. Take care that the text fits correctly in the green box. You may need to abbreviate your translation if it does not fit

	English	Translation	Mimic
Engine Battery Voltage	✗	Engine Battery Voltage Meas	
Engine Fuel Temperature	✗	Maiximum Engine Fuel Temp	
Engine Run Time	✓	Engine Run Time	Engine Run Time
Engine Fuel Used	✗		

4.3.6.3 UPDATING THE MODULE LANGUAGE

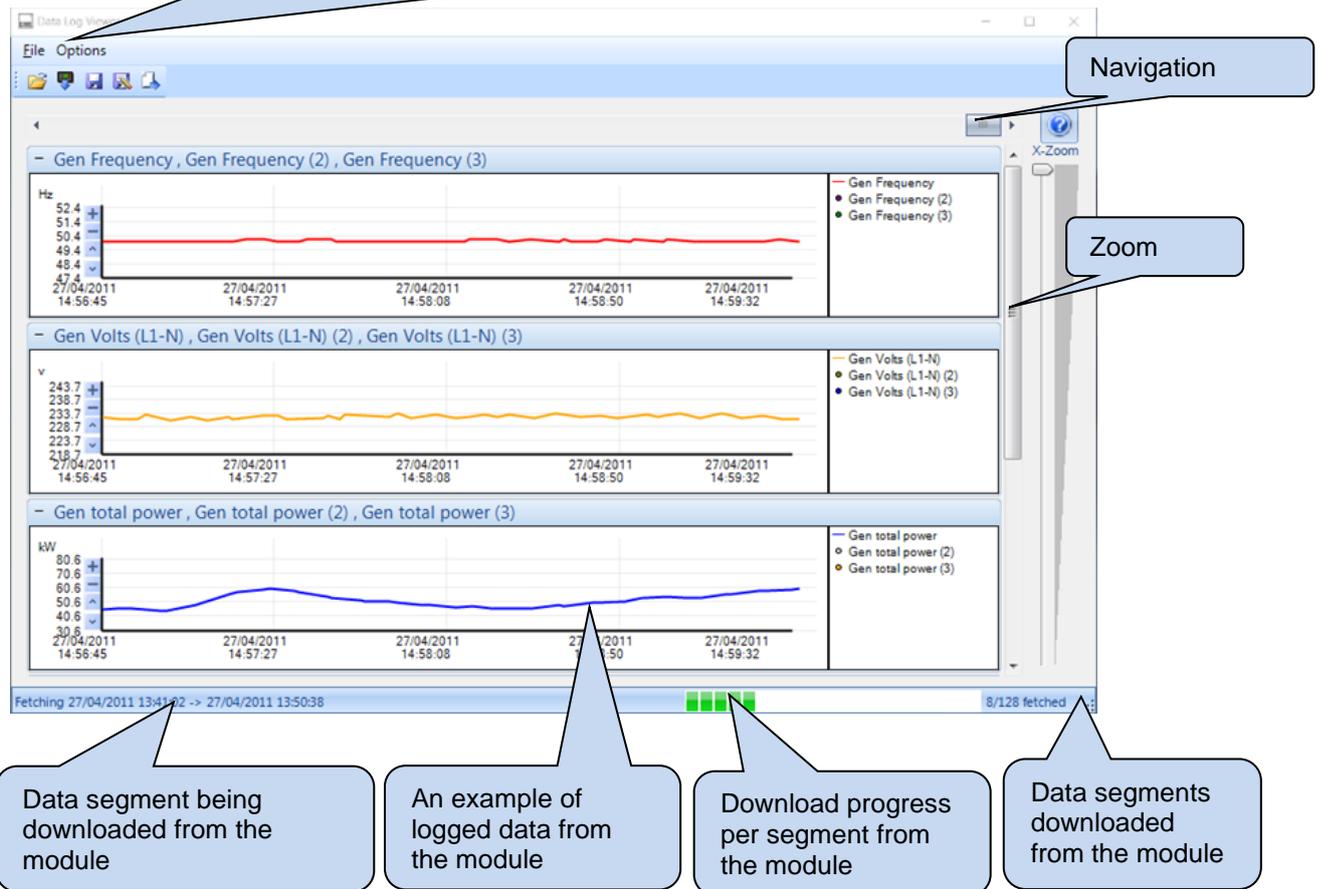
When you're ready to test your new text file in the connected module, 'send' it using the button provided. Remember you must select this new language file in the module's display configuration editor. You can also upload language files to the module using the SCADA | LANGUAGES section of the Configuration Suite Software.



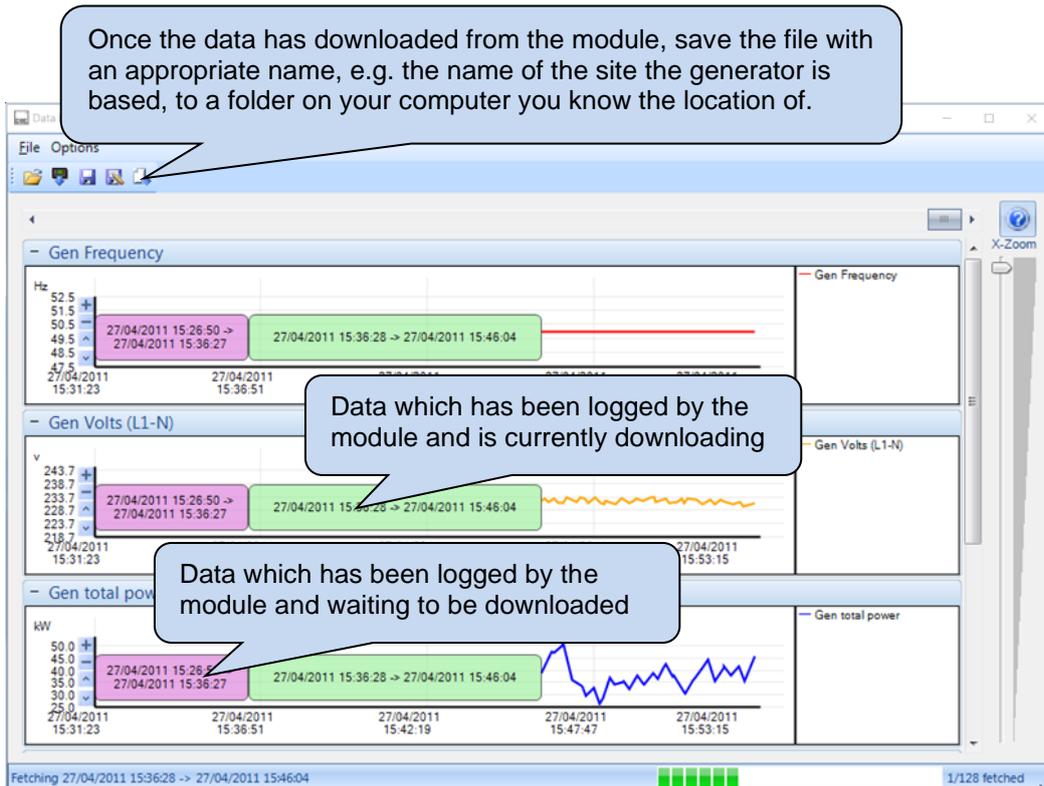
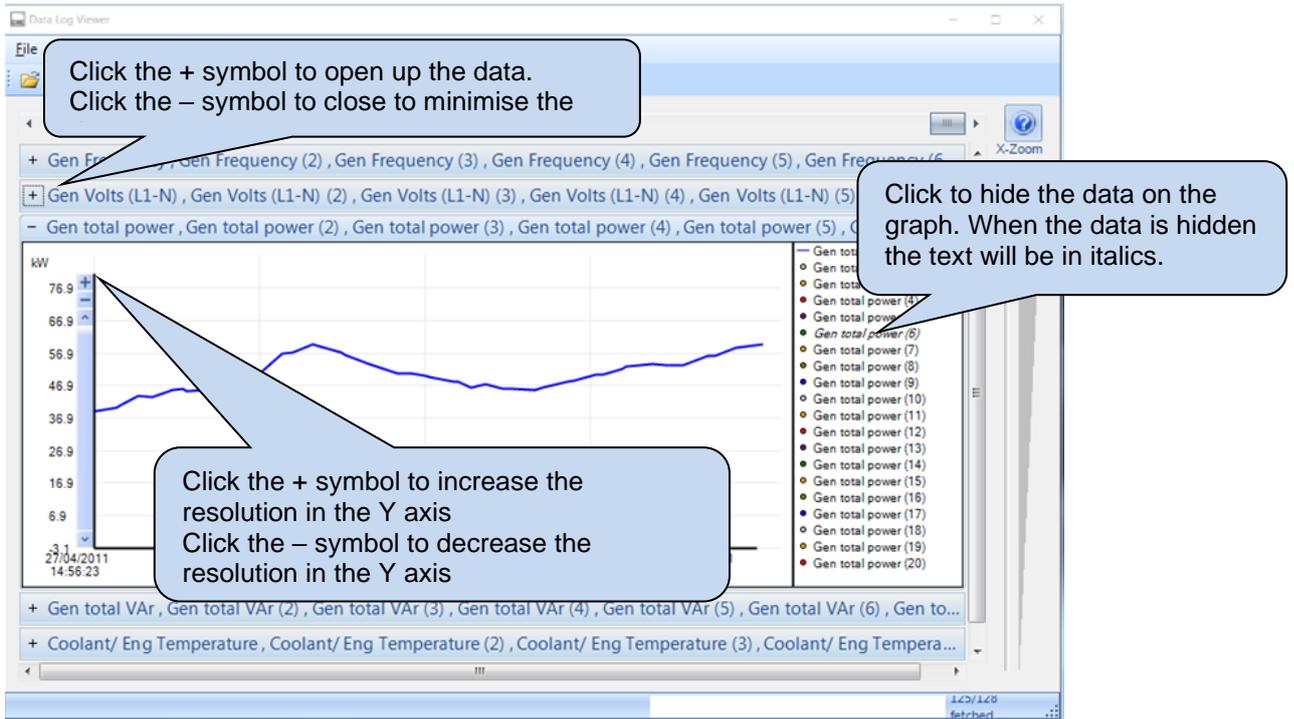
4.3.7 DSE8XXX DATA LOG VIEWER

The *Data Log Viewer (Tools | Data Log Viewer)* is included to allow the user to view saved data which has been logged by a DSE module. An obvious use for this facility is to allow the user to gather information for fault diagnostic or creating a report.

To view the logged data, press the 'Read from Controller' icon if the data is being logged to the modules internal memory. If the data is being logged to an external memory device, plug the external device into your computer and press the 'Open Icon' and locate the data.

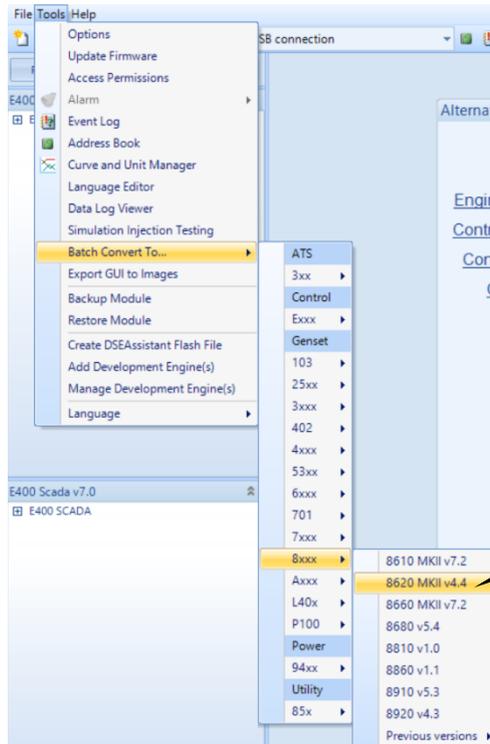


Menus and Toolbar



4.3.8 BATCH CONVERT TO...

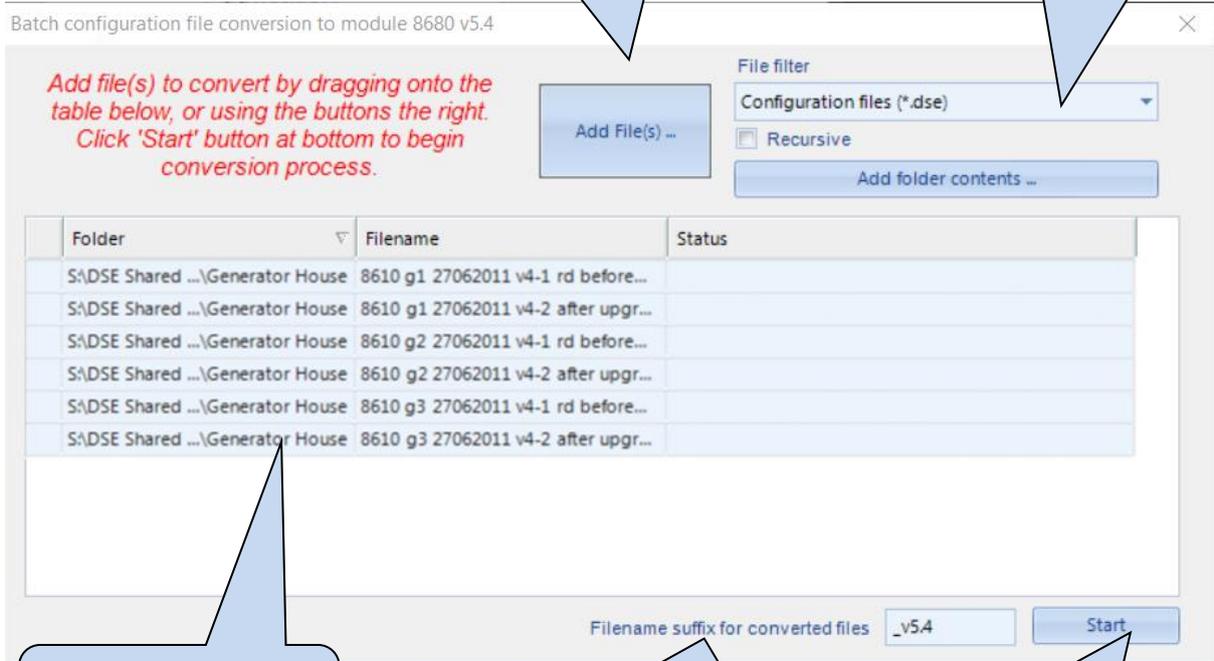
The *Batch Convert To...* (*Tools | Batch Convert To...*) is included to allow the user to convert a large batch of pre-existing module configuration files to the latest version with ease.



Select the type of configuration file to convert the pre-existing files to.

Add single configuration file to be converted.

Add multiple configuration files contained within a folder.



Configuration files waiting to be converted.

Add filename suffix to the new converted configuration files

Click **Start** to begin the conversion

Menus and Toolbar

A 'tick' shows that the configuration file has been converted.
A 'cross' shows that the configuration file has not been converted.

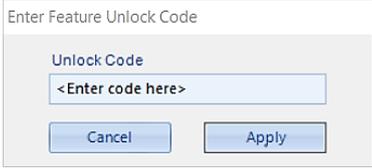
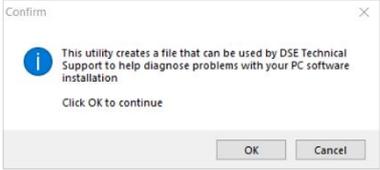
The screenshot shows a window with a toolbar at the top containing buttons for 'Add File(s) ...' and 'Add folder contents ...'. Below the toolbar is a table with columns for 'Folder', 'Filename', and 'Status'. The table lists several files from 'S:\DSE Shared ...\Generator House'. The status of each file is: 'Saved to file ...', 'No conversion required.', 'Saved to file ...', 'No conversion required.', 'Converting', and an empty status. A callout box points to the 'Converting' row. At the bottom of the window, there is a 'Filename suffix for conversions' field with the value '_v5.4' and a 'Start' button.

Folder	Filename	Status
S:\DSE Shared ...\Generator House	8610 g1 27062011 v4-1 rd before...	Saved to file 8610 g1 27062011 v4-1 rd before upgrad...
S:\DSE Shared ...\Generator House	8610 g1 27062011 v4-2 after upgr...	No conversion required.
S:\DSE Shared ...\Generator House	8610 g2 27062011 v4-1 rd before...	Saved to file 8610 g2 27062011 v4-1 rd before upgrad...
S:\DSE Shared ...\Generator House	8610 g2 27062011 v4-2 after upgr...	No conversion required.
S:\DSE Shared ...\Generator House	8610 g3 27062011 v4-1 rd before...	Converting
S:\DSE Shared ...\Generator House	8610 g3 27062011 v4-2 after upgr...	

Filename suffix for conversions:

Current configuration file being converted.

4.4 HELP MENU

Check for Updates	If an internet connection is available, the software will check for any updates to download.
About	Shows the version number of the configuration suite.
Enter Feature Unlock Code	<p>Allows the user to enter Feature Unlock Code.</p> 
Create Support File	<p>This allows the user to create a file that can be used by DSE Technical support to help diagnose problems.</p> 
Manuals	A complete list of DSE software and operator manuals.

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