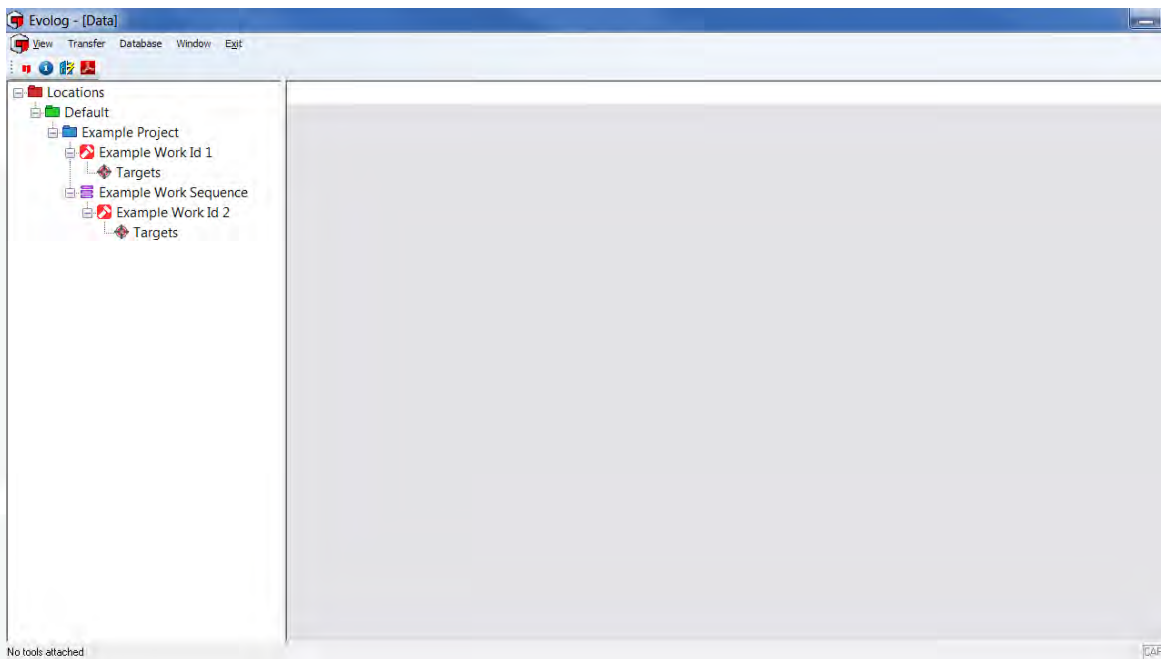


## EvoLog





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# EVOTORQUE®2 SOFTWARE COMPATIBILITY

EvoLog software Version 1.0.65 is compatible with EvoTorque®2 software 37799.101.

EvoLog software Version 2.0.73 onwards is compatible with EvoTorque®2 software 37799.201 onwards.

Data bases that were Backed up using EvoLog software Version 1.0.65 can be Restored using EvoLog software Version 2.0.73 onwards.

## INTRODUCTION

EvoLog is PC software designed with a user friendly interface that will enable data archiving from EvoTorque®2 Electric Tools.

Targets, Work ID's, Work Group's and User ID's can be created and archived in EvoLog.

EvoLog uses a bi-directional USB or Bluetooth® Smart interface to send Targets, Work ID's, Work Group, User ID's, Tool Settings and Tool Lock to the EvoTorque®2. Saved Results (Readings), Tool Settings and Operational data can be retrieved from the EvoTorque®2.

The Bluetooth® Smart interface requires the use of an additional USB Bluetooth® Smart adapter plugged into a USB port on your PC.

EvoLog gives the ability to archive data and produce Reports when EvoTorque®2 Tools are being used in tightening applications (Work). Statistical Process Control (SPC) can also be performed on the archived data as well as the ability to view histograms and data graphs.

Torque, Torque and Angle graphs can be viewed in EvoLog and printed. Live fastener profile graphs can also be displayed and saved in EvoLog using compatible EvoTorque®2 Tools.

Data can be copied to Microsoft® Excel® and/or any other equivalent packages via Copy to Clipboard & Paste.

Part numbers covered by this manual; 37792, EvoLog PC software.

## FEATURES AND FUNCTIONS

- USB interface to Norbar EvoTorque®2 Electric Tool for fast data transfer.
- Bluetooth® Smart interface to Norbar EvoTorque®2 Electric Tools for data transfer with additional USB Bluetooth® Smart adapter.
- Data Base for archiving of data which has been stored on the EvoTorque®2 tool or sent via the "Log Results" option in real time.
- Statistical Process Control (SPC) on Test Results for Tools.
- Set up individual (or multiple) EvoTorque®2 Tools with Targets, Work ID's, Work Group's, User ID's and Tool Settings via USB or Bluetooth® Smart.
- Live Graphing feature, to display and save tightening profiles.
- Ability to download a LOCK to the EvoTorque®2 to stop user adjustment.
- Real time data input via the Log Results option.
- Compatible with Windows® 10, 8.1, 7, XP (32 bit & 64 bit).
- Connect up to 8 EvoTorque®2 tools simultaneously.
- Report generation for archived results.

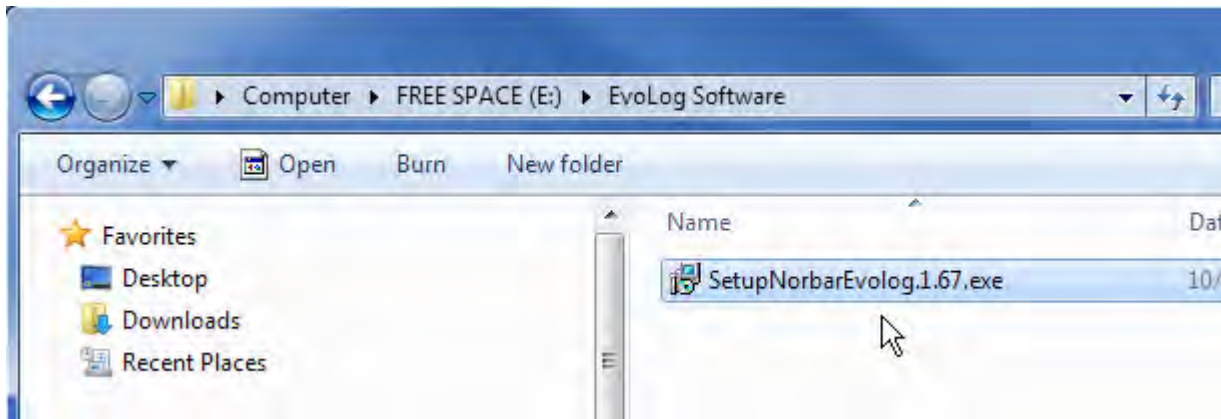
# INSTALLING EVOLOG

The software is supplied as an installation file on a USB Flash Drive (memory stick). This is included with the EvoTorque®2 Electric Tool.

**TIP:** Backup your old database before installing a new version of EvoLog. Use the restore database option after your new version of EvoLog has been installed. See page 67.

Plug the USB Flash Drive (memory stick) into your PC.

Go to START – MY COMPUTER and double left click on **Removable Disk (?)**.

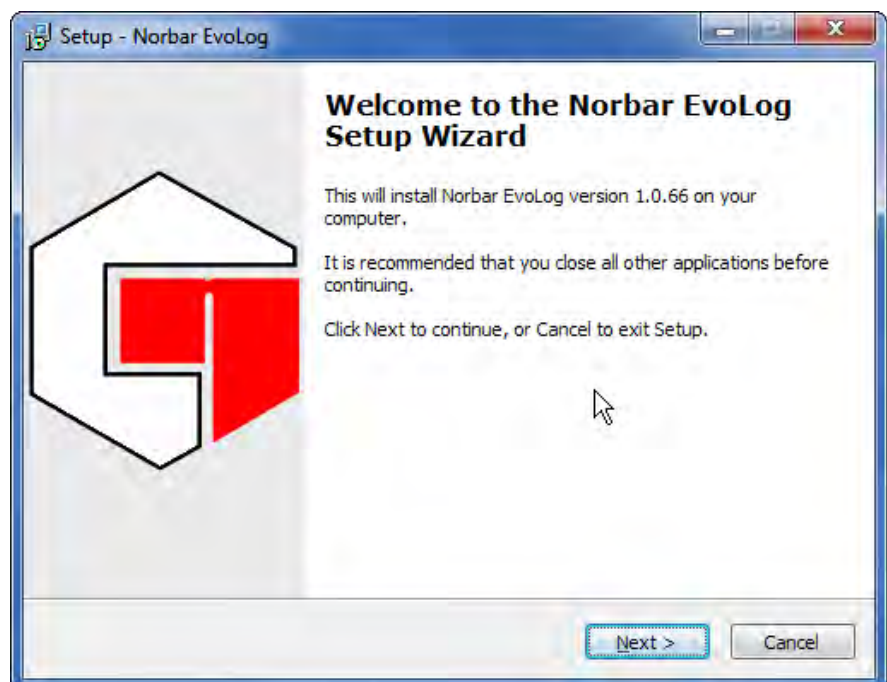


**TIP:** The user may need administrative privileges to be able to install the software.

Double left click on **SetupEvoLog1.0.XX** (where XX represents the latest software revision number) or copy the file to a directory on your computer and double left click on it.

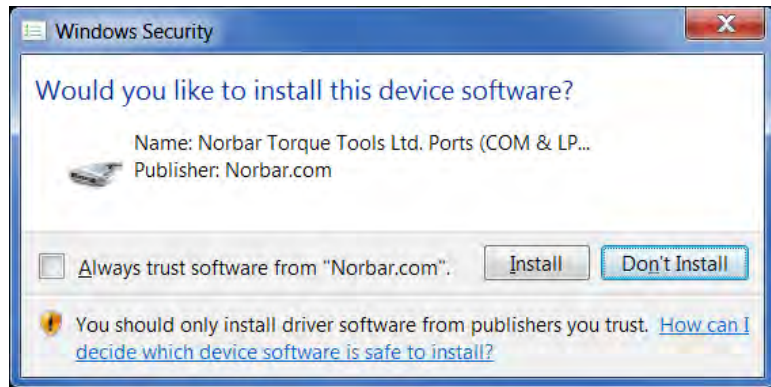
Windows® XP, 7, 8.1 & 10

**TIP:** Screens may look slightly different for different windows operating systems.

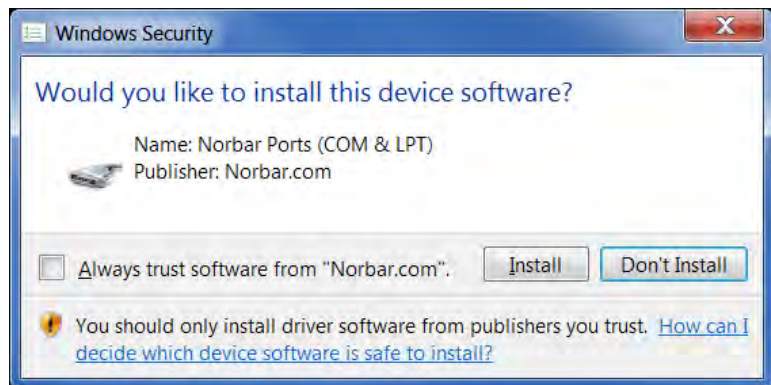


Left click on **Next** and follow the additional pop up window instructions.

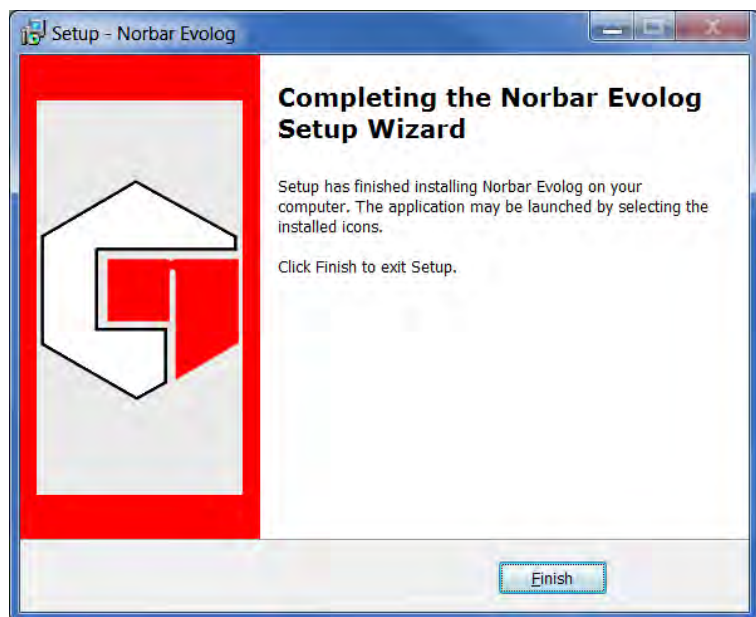
Left click on **Install** to install USB driver onto your computer.



Left click on **Install** to install the USB Bluetooth® Smart Adapter driver onto your computer.



Left click on **Finish** to complete the installation.

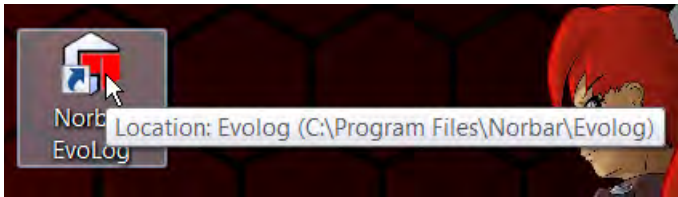


*After Installation an EvoLog icon will be placed on the desktop.*

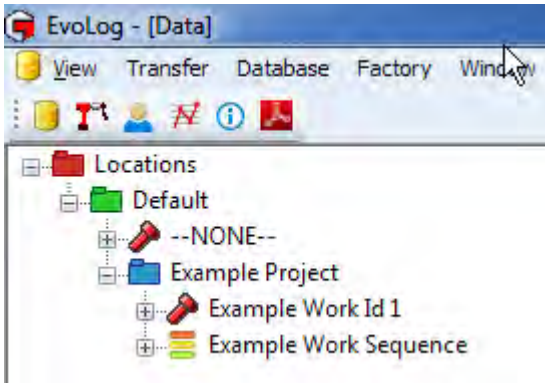


# CONNECTING AN EVOTORQUE<sup>®</sup>2 TOOL TO EVOLOG

- 1) Start EvoLog by double left clicking on the desktop icon.



Screen shown on power up with Default Location, Example Location, Work ID's, Targets and Work Group added.



**TIP:** EvoLog comes with a Default Location, Example Project, Work ID's and Work Group already created. These are for information only and should be deleted / modified if not required.

- 2) Plug in the USB cable (part # 39678 supplied with EvoTorque<sup>®</sup>2) between the mini USB connector on the EvoTorque<sup>®</sup>2 display panel and the USB Type A connector on a PC or Tablet.



**TIP:** The user may need to remove the USB cover from the EvoTorque<sup>®</sup>2 to achieve this. The USB cover must be fitted for IP44 protection.



Alternatively plug in the USB Bluetooth<sup>®</sup> Smart adapter (part # 43513 supplied with EvoTorque<sup>®</sup>2) into a USB port on your PC or Tablet.

Before EvoTorque®2 is attached, the bottom left of the EvoLog window will show:

No tools attached

- 3) Power up the EvoTorque®2 by switching on
- 4) Wait for the USB or Bluetooth® Smart icon to appear on the EvoTorque®2 display.

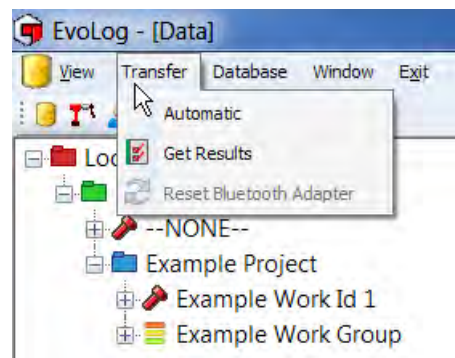


When EvoLog successfully attaches to an EvoTorque®2 tool, the bottom left of the EvoLog window will show:

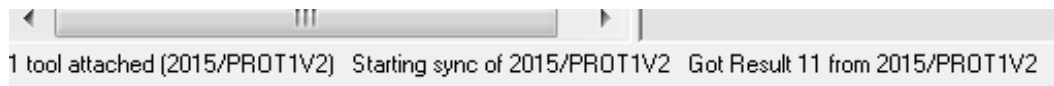
1 tool attached (2015/PROT05)

**TIP: The number in the brackets is the serial # of the EvoTorque®2 Tool attached.**

- 5) Right click on 'Transfer' and then 'Get Results' to transfer results stored on the tool.











The following message will be displayed in the bottom left hand corner when a connection is established and data is being transferred.



**TIP: No data will be shown if none has been previously saved in the attached EvoTorque®2 Tool.**

Should the User perform 'Get Results' from EvoTorque®2 without specifying/selecting a Work ID, EvoLog creates a 'Default' location with a Work ID '—NONE—'. This is where the results will be stored.

## Icon Colour Connection Table

Interface	Connection Type	Icon Colour	Information
USB	Enabled	White	 Connected to PC or Tablet
	Attached	Green	 Send/Receive data
	Logging (see page 54)	Orange	 Log Results mode. Readings are sent as they happen in real time. Also shown in Graphing mode.
	User mode	Blue	 Tool configured for USER mode (It will not be possible to connect to EvoLog)
Bluetooth®	Enabled	White	 Enabled in Tool Settings
	Attached	Green	 Send/Receive data ( <a href="#">connects and disconnects automatically</a> )
	Logging (see page 54)	Orange	 Log Results mode. Readings are sent as they happen in real time. Also shown in Graphing mode.
	User mode	Blue	 Tool configured for USER mode (It will not be possible to connect to EvoLog)

## DISCONNECTING AN EVOTORQUE®2 TOOL FROM EVOLOG

For some configurations of PC hardware and software it may be necessary to disconnect from USB correctly before removing the lead. Click on 'Safely Remove Hardware' in the bottom right hand corner of your desktop if this option is available to you.

Unplug USB lead from either the EvoTorque®2 or PC and EvoLog will display after a number of seconds:

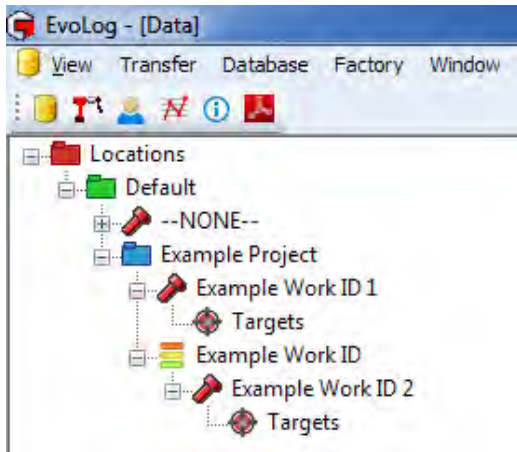
No tools attached

**TIP:** Wait at least 10 seconds before re-inserting the lead if required.

# TREE STRUCTURE

## Locations

Locations is the name for the tree root and can be renamed to anything you choose (see 'View – Settings' on page 13), but this has been primarily designed to be Locations. Use Locations for a multiple site environment i.e. Wind Towers and use Departments for a single Factory environment.



## Location

Location is the 1<sup>st</sup> level object and can be renamed to anything you choose (see 'View – Settings' on page 13), but this has been primarily designed to be Location. Use Location for a multiple site environment i.e. Tower 123 and use Department for a single Factory environment.

## Project

Project is the 2<sup>nd</sup> level object and can be renamed to anything you choose (see 'View – Settings' on page 13), but this has been primarily designed to be Project. It is not compulsory to have a Project as Work ID's and Work Groups can be added directly to a Location.

## Work ID

Work ID is the collective name used to identify all of the Work Tasks to be done i.e. Blade1, Blade2 etc. and can be renamed to anything you choose (see 'View – Settings' on page 13), but this has been primarily designed to be Work ID. Work ID's have Targets associated with them.

- A Work ID is a name of a collection of Test Results done on an application e.g. Blade 1.
- This can be user definable, Alpha / numeric when entered in the PC software and downloaded to the Tool.
- Maximum number of Alpha / numeric displayable characters limited to **15** on the tool (unlimited in EvoLog).
- Work ID's can be added to a Location, Project and Work Group (maximum of **12**).
- The Work ID is not editable on the Tool.
- A maximum of **12** standalone Work ID's can exist on the tool at any one time.
- Data is saved under the "Work ID" in EvoLog.
- Statistical Process Control (SPC) can also be performed on the archived Work or Calibration data as well as the ability to view histograms of the archived data.

## Targets

A Target is a Torque value, Torque & Angle values or Audit Torque value which has an Angle result. For more information please see page 31.

- Targets are Stand alone or can be attached to Work ID's
- A maximum of **20** unique Targets can be attached to **1** Work ID or Work Group.
- Torque Tolerances – minimum = +/- **3%** reading, maximum = +/- **20%** reading.
- Angle Tolerances – minimum = +/- **2°**, maximum = +/- **20°**.
- Audit Angle Limits – minimum = **2°**, maximum = **99°**.
- The 'Number of Readings' can be specified in a Target for use in a Work Group. This is the Number of results (readings) that can be saved against the Target before the next Target in the Work Group is selected and active.

## Work Group

Work Group is the collective name used to identify a collection of Work ID's and Targets that can be sent to the tool.

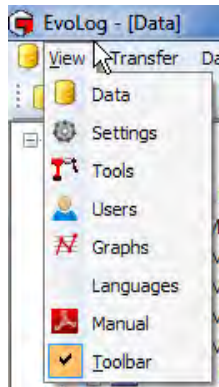
A Work Group can be Locked (Work ID's processed in the order in which it is shown in the EvoLog tree view) or Un-Locked (individual Work ID's within the Work Group can be selected as required on the tool).

Work Group can be renamed to anything you choose (see 'View – Settings' on page 13), but this has been primarily designed to be Work Group.

- Targets are directly **linked** to Work ID's within a Work Group.
- Work Groups can only be **set up** in EvoLog.
- Up to **5** Work Groups can co-exist on the tool at any time.
- The **name** of the Work Group is user definable alpha / numeric characters (limited to the first **30** characters on the tool, but unlimited in EvoLog).
- The order in which the Work ID's are completed by the tool can be configured as '**locked**' (sequential) or '**un-locked**' (chosen in any order by the user).
- A Work Group can have a maximum of **12** Work ID's incorporating a maximum of **144** Steps (Maximum of **20** unique Targets within the whole Work Group). In addition, **12** Standalone Work ID's and **20** Standalone Targets can be added to the tool.
- The **# of Tests** for each Target can only be specified in the EvoLog Target.
- Work Groups can be sent via **USB** or **Bluetooth®** Smart to the Tool.
- After the final Target has completed (and No further Target has been specified), '**Group Done**' will be shown on the Tool if the Work Group is un-locked. '**Sequence Done**' will be shown on the Tool if the Work Group is locked.
- To Repeat the Group, press **↵** on the tool when prompted.
- A Work Group can be **stopped** and **resumed** at any time.

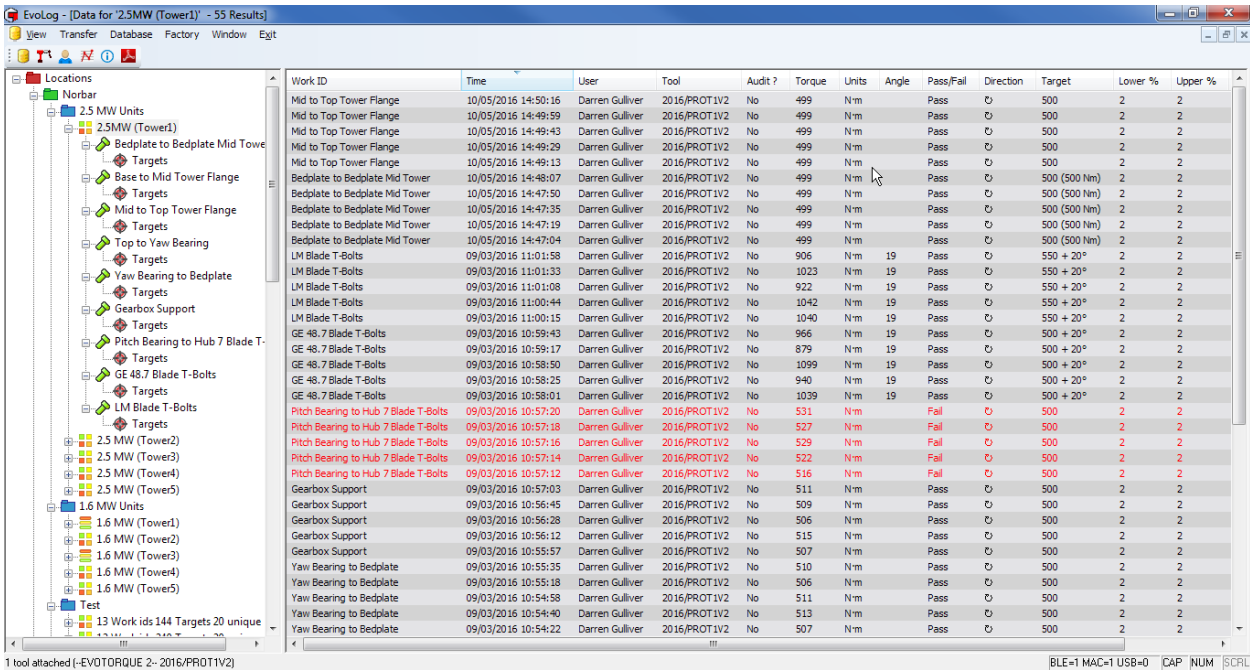
# VIEW

Left click on the **View** button.

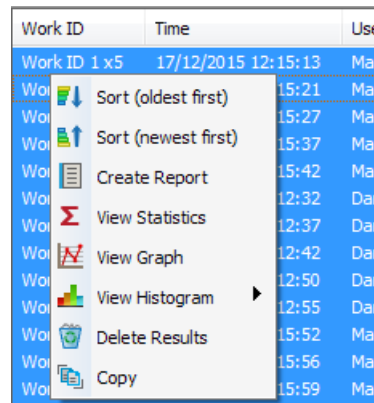


## View - Data

Left click on View - **Data**.



Selecting the **Results** and then Right clicking on the **Results** pane brings up the following options. See page 60 for more details.



## View - Settings

These are the EvoLog settings.

**Root Display Name:** *This can be changed if required.*

**1st Level Object Name:** *This can be changed if required.*

**2nd Level Object Name:** *This can be changed if required.*

**Work Group Name:** *This can be changed if required.*

**Work ID Name:** *This can be changed if required.*

**Allowed Units.** *Specify which units Targets can be added / edited.*

**Password Protection.** *Specify which features are to be password protected.* Click on 'Set Password' and tick the data you wish to be protected.

After 10 minutes or closing - reopening EvoLog, the user will be prompted to enter the password previously entered to make changes to the data that have tick boxes in front of them.

**TIP:** **Targets are considered data by EvoLog.**

The screenshot shows the 'Settings' dialog box with the following fields and options:

- Root Display Name:
- 1st. Level Object Name:
- 2nd. Level Object Name:
- Work Group Name:
- Work ID Name:
- Allowed Units section with checkboxes:
  - N.m
  - dN.m
  - cN.m
  - kgf.m
  - kgf.cm
  - gf.m
  - gf.cm
  - lbf.ft
  - lbf.in
  - ft.lb
  - in.lb
  - ozf.in
  - in.oz
- Password Protection section with buttons and checkboxes:
  - 
  - Edit User
  - Delete Data
  - Assign user to result
  - Move Results
- BLE ID (default 4E4252):
- Report Logo:
- Coloured Background:
- 

The screenshot shows a small dialog box titled 'This function requires a Password' with a text input field for the password and 'OK' and 'Cancel' buttons.

**BLE ID (default 4E4252):** *BLE ID is used for multiple tool, multiple USB Bluetooth® Smart adapter scenarios where specific tools can be linked with specific Bluetooth® Smart adapters. The BLE ID must match the BLE ID on the tool you wish to communicate with. See page 52.*

**Report Logo.** *Specify the logo that is printed on Reports.*

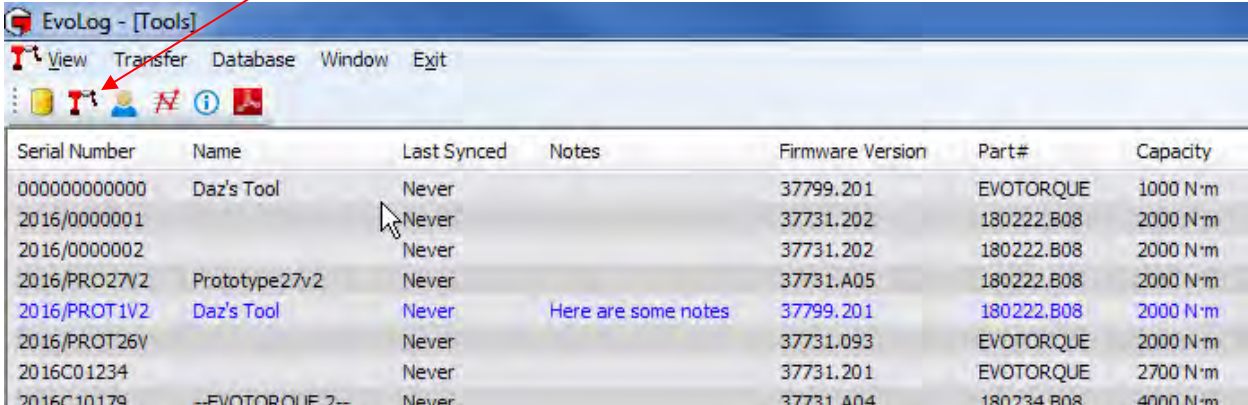
**Coloured Background.** *Choose the background display colours when viewing Data and Targets.*

Left click the  button to save changes.

## View - Tools

All of the tools that have been connected (or are connected) to EvoLog can be viewed here.

Select Tools from the View drop down.  
Alternatively click on the Tools icon on the Toolbar.



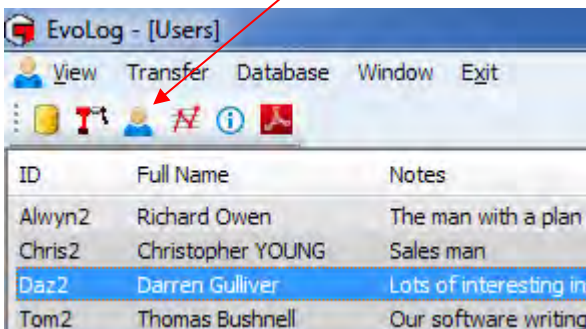
Serial Number	Name	Last Synced	Notes	Firmware Version	Part#	Capacity
000000000000	Daz's Tool	Never		37799.201	EVOTORQUE	1000 N·m
2016/0000001		Never		37731.202	180222.B08	2000 N·m
2016/0000002		Never		37731.202	180222.B08	2000 N·m
2016/PRO27V2	Prototype27v2	Never		37731.A05	180222.B08	2000 N·m
2016/PROT1V2	Daz's Tool	Never	Here are some notes	37799.201	180222.B08	2000 N·m
2016/PROT26V		Never		37731.093	EVOTORQUE	2000 N·m
2016C01234		Never		37731.201	EVOTORQUE	2700 N·m
2016C10179	--EVOTORQUE 2--	Never		37731.A04	180234.B08	4000 N·m

**TIP:** Attached tools are shown in Blue.

## View - Users

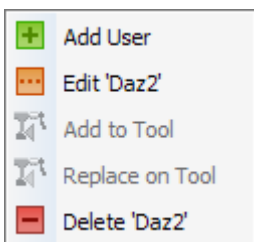
Here is where all of the Users are stored. Users can be Replaced or Added on the attached tool.

Select Users from the View drop down.  
Alternatively click on the Users icon on the Toolbar.



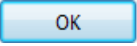
ID	Full Name	Notes
Alwyn2	Richard Owen	The man with a plan
Chris2	Christopher YOUNG	Sales man
Daz2	Darren Gulliver	Lots of interesting in
Tom2	Thomas Bushnell	Our software writing

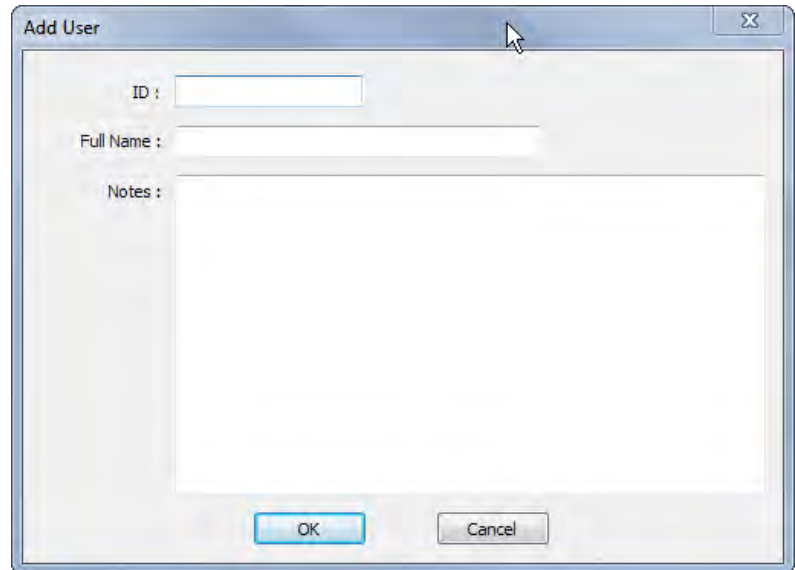
Right click on the **Users** pane to enable the User options (shown below).



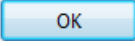


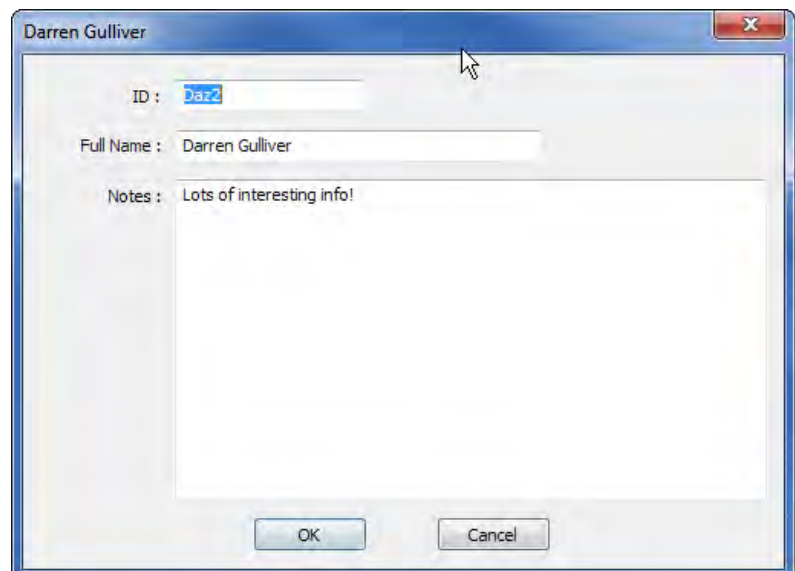
## Add User

- 1) Type in the '**ID**' of the user i.e. 'Darren' (maximum of 19 characters).
- 2) Type in the **Full Name** i.e. Darren Gulliver.
- 3) Click in the **Notes** box and type any **information**. This will appear under the Notes tab in the Users View.
- 4) Left click the  button to save changes.



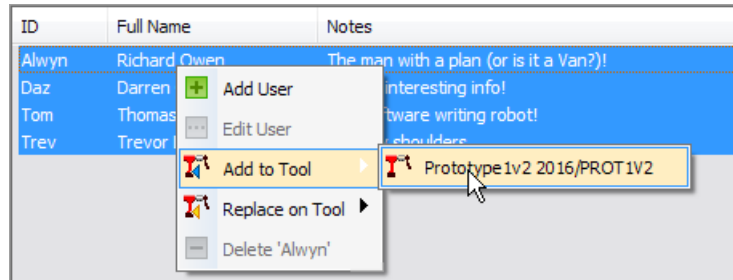
## Edit User

Make changes and left click the  button to save the changes.



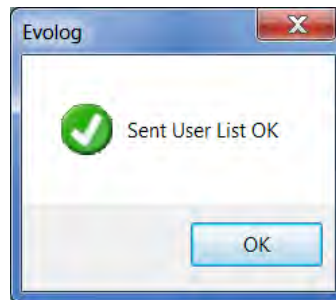
## Add to Tool (User)

This will **Add** all of the **User(s)** that are selected (highlighted) to the attached tool. Use CTRL + click or Shift + click to select multiple Users.



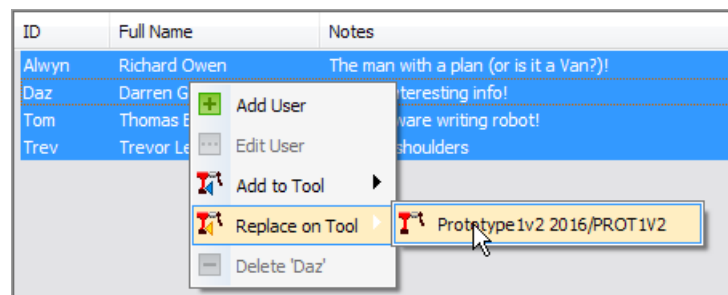
EvoLog confirms that the User(s) have been sent to the tool.

Left click the  button.

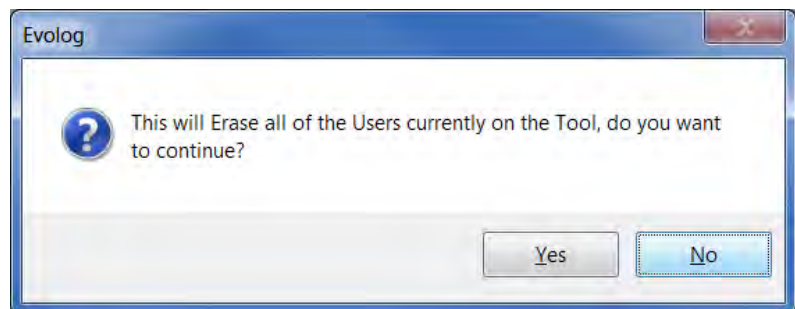


## Replace on Tool (User)

This will **Replace** all of the **User(s)** on the attached tool with the Users that are selected (highlighted). Use CTRL + a, CTRL + click or Shift + click to select multiple Users.



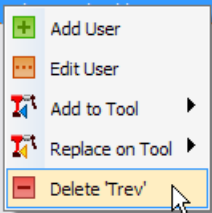
This confirmation will pop up.



## Delete User

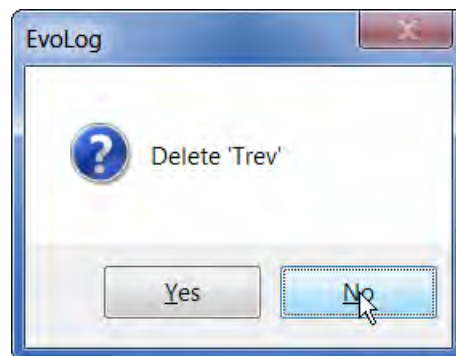
This will **Delete** the highlighted **User(s)** from EvoLog. Use CTRL + click or Shift + click to select multiple Users.

ID	Full Name	Notes
Alwyn	Richard Owen	The man with a plan (or is it
Daz	Darren Gulliver	Lots of interesting info!
Tom	Thomas Bushnell	Our software writing robot!
Trev	Trevor Lester	

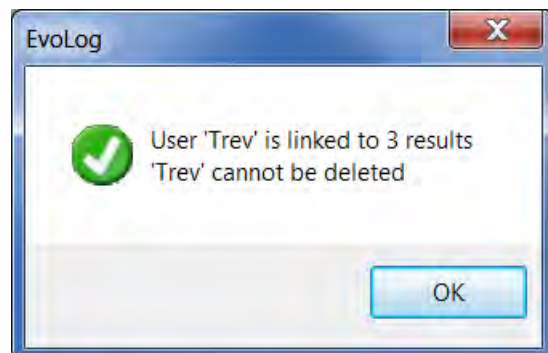


A context menu is open over the 'Trev' row of the table. The menu items are: Add User (green plus icon), Edit User (orange dots icon), Add to Tool (red and blue arrows icon), Replace on Tool (red and blue arrows icon), and Delete 'Trev' (red minus icon). The 'Delete 'Trev'' option is highlighted in yellow, and a mouse cursor is pointing at it.

This confirmation will pop up.



If Results have been saved against the user, this pop up will be shown.

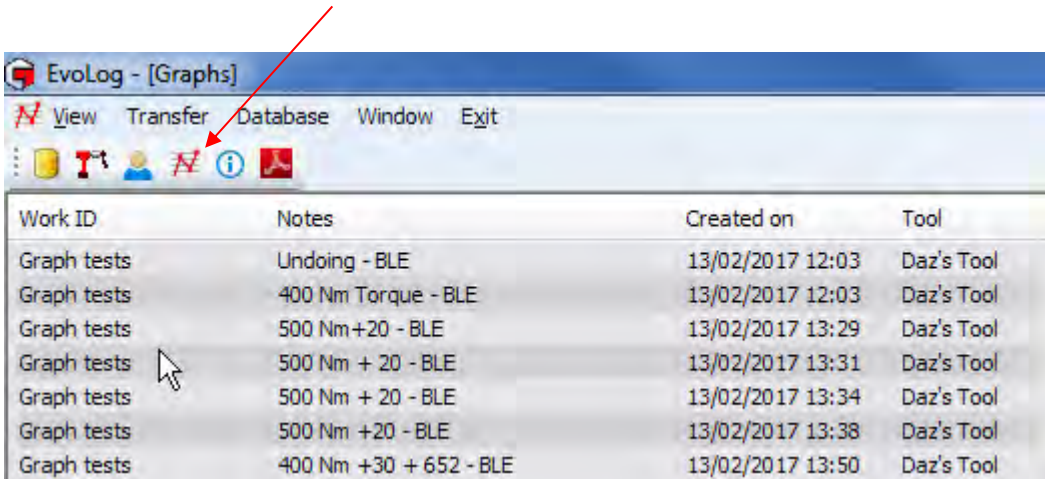


Left click the  button.

## View - Graphs

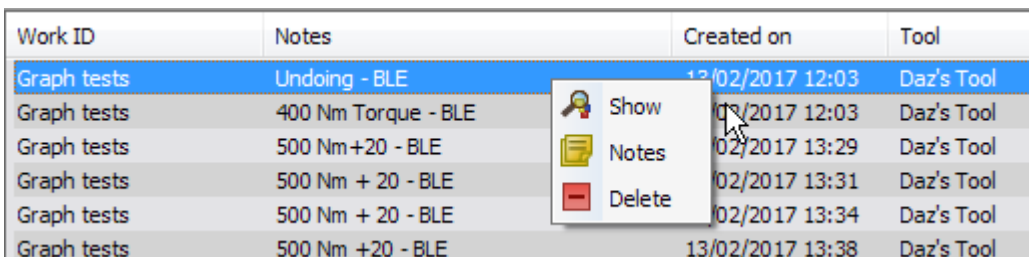
All of the Graphs produced using the **Capture Graph** facility can be viewed here. Please see page 57 on how to capture graphs.

- 1) Select Graphs from the View drop down.  
Alternatively click on the Graphs icon on the Toolbar.

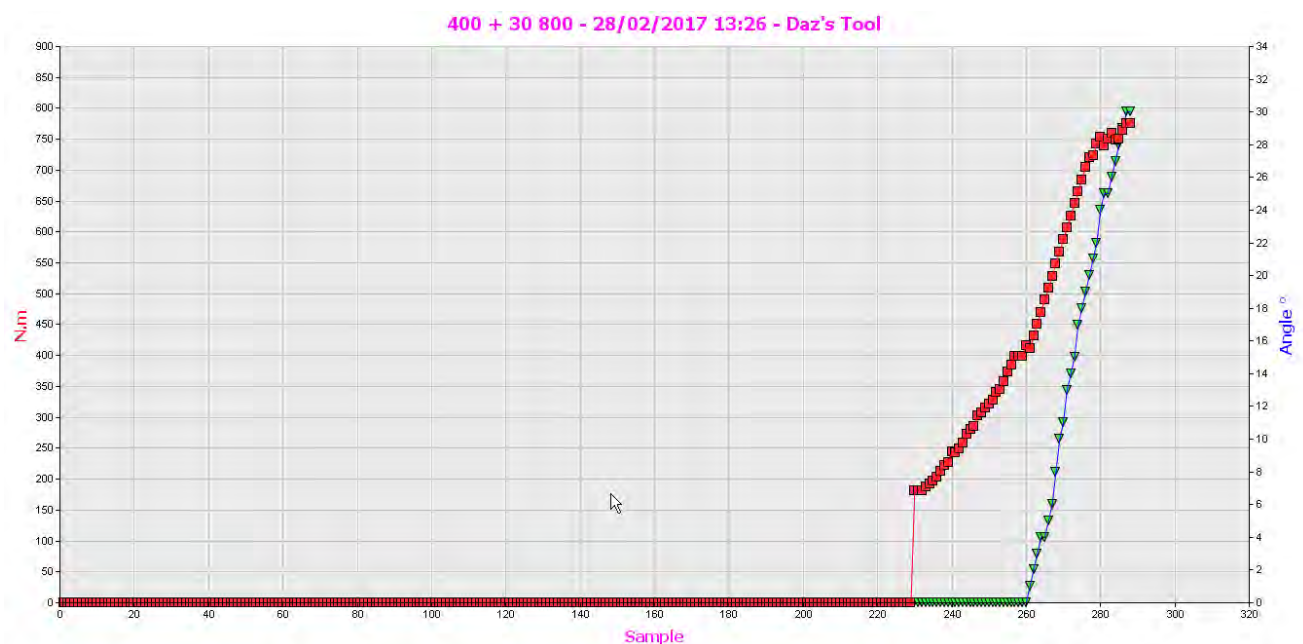


Work ID	Notes	Created on	Tool
Graph tests	Undoing - BLE	13/02/2017 12:03	Daz's Tool
Graph tests	400 Nm Torque - BLE	13/02/2017 12:03	Daz's Tool
Graph tests	500 Nm +20 - BLE	13/02/2017 13:29	Daz's Tool
Graph tests	500 Nm + 20 - BLE	13/02/2017 13:31	Daz's Tool
Graph tests	500 Nm + 20 - BLE	13/02/2017 13:34	Daz's Tool
Graph tests	500 Nm +20 - BLE	13/02/2017 13:38	Daz's Tool
Graph tests	400 Nm +30 + 652 - BLE	13/02/2017 13:50	Daz's Tool

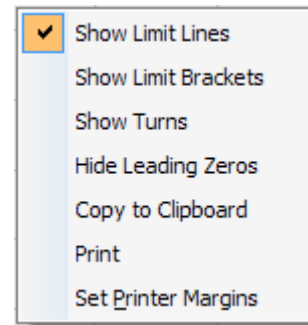
- 2) Graphs can be shown, notes added to or deleted by right clicking on the specific graph in the list and clicking on the required option. Double clicking on a Graph in the list will open the graph.



Work ID	Notes	Created on	Tool
Graph tests	Undoing - BLE	13/02/2017 12:03	Daz's Tool
Graph tests	400 Nm Torque - BLE	13/02/2017 12:03	Daz's Tool
Graph tests	500 Nm +20 - BLE	13/02/2017 13:29	Daz's Tool
Graph tests	500 Nm + 20 - BLE	13/02/2017 13:31	Daz's Tool
Graph tests	500 Nm + 20 - BLE	13/02/2017 13:34	Daz's Tool
Graph tests	500 Nm +20 - BLE	13/02/2017 13:38	Daz's Tool



3) Right Click on the graph to show the graph View, Copy and Print options,



## Show Limit Lines

Left Click on [Show Limit Lines](#) to view on the graph.

## Show Limit Brackets

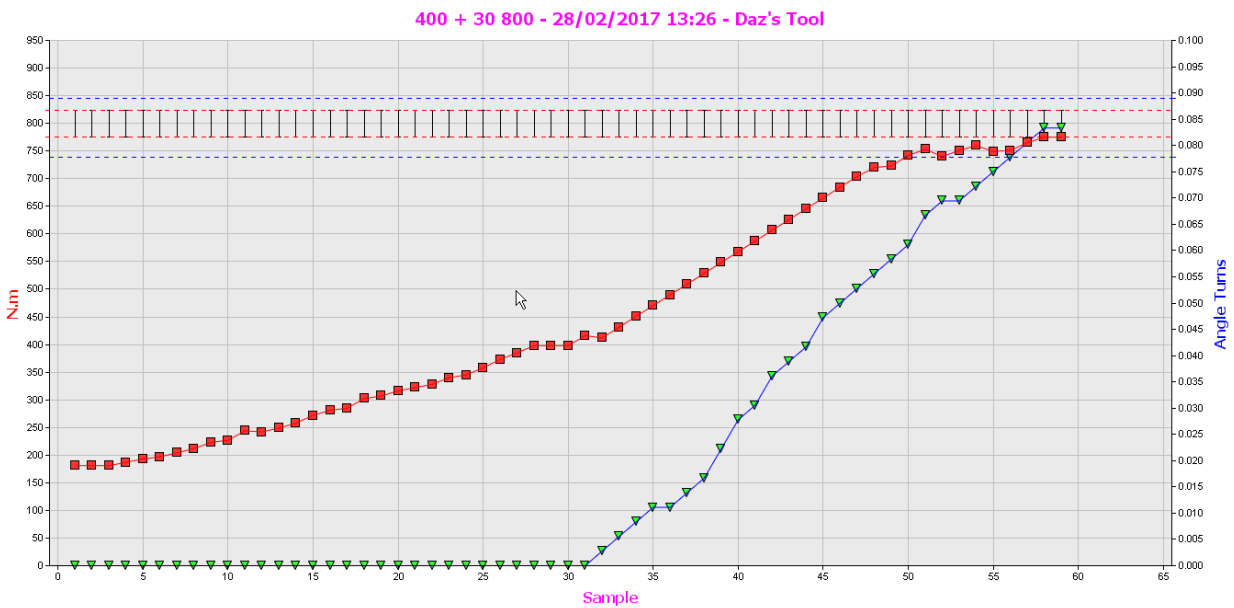
Left Click on [Show Limit Brackets](#) to view on the graph.

## Show Turns

Left Click on [Show Turns](#) to show a Torque & Angle graph as Torque and Turns.

## Hide Leading Zeros

Left Click on [Hide Leading Zeros](#) to zoom in on the tightening cycle.



## Copy to Clipboard

This function is used to copy Graphs and Histograms and paste them into Microsoft applications like Word, Excel etc.

## Print

See page 66 for more information.

## Set Printer Margins

See page 66 for more information.

## View – Graphs for a Work ID

To view graphs for a Work ID, they must have either been taken against that Work ID (see page 58), or added to that Work ID by dragging and dropping from the right hand graphs view pane

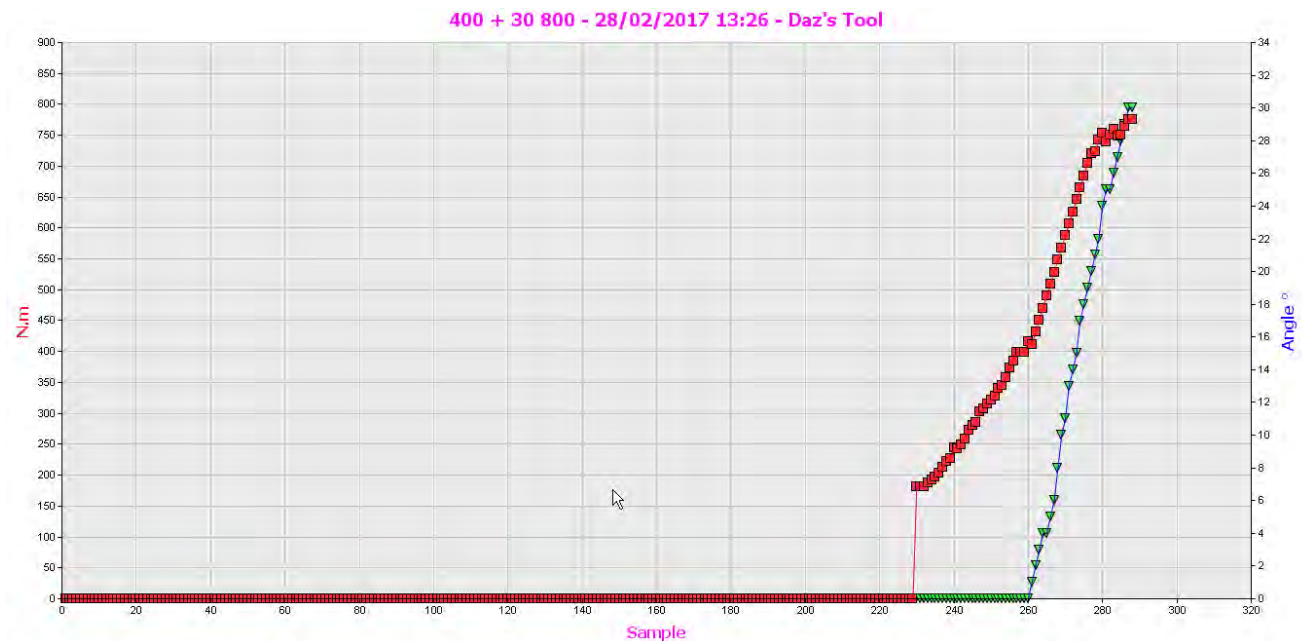
The screenshot shows the EvoLog software interface. On the left is a tree view under 'Locations' with 'Graph tests version 2' selected. The central pane displays a table of test notes:

Notes	Created on	Tool
400 Nm Torque - BLE	15/02/2017 11:54	Daz's Tool
400 Nm + 20 - BLE	15/02/2017 11:58	Daz's Tool
400 Nm + 20 with Final 600 - BLE	15/02/2017 12:08	Daz's Tool
double tightening - doh!! - BLE	15/02/2017 12:10	Daz's Tool
400 Nm + 20 700 final - BLE	15/02/2017 12:11	Daz's Tool
700 Nm Audit 5 degrees - BLE	15/02/2017 12:15	Daz's Tool
400 Nm + 20 with 700 final - BLE	15/02/2017 12:22	Daz's Tool
400 Nm + 20 with 700 final - BLE	15/02/2017 12:24	Daz's Tool
400 Nm Torque - USB	15/02/2017 13:14	Daz's Tool
400 Nm + 20 - USB bolt tight	15/02/2017 13:15	Daz's Tool
400 Nm + 20 - USB - undoing	15/02/2017 13:16	Daz's Tool
400 Nm + 30 with 700 final - USB	15/02/2017 13:19	Daz's Tool
700 Nm Audit - USB	15/02/2017 13:20	Daz's Tool
700 Nm Audit - USB	15/02/2017 13:20	Daz's Tool
700 Nm Audit - USB	15/02/2017 13:20	Daz's Tool

The right-hand pane shows another table of notes:

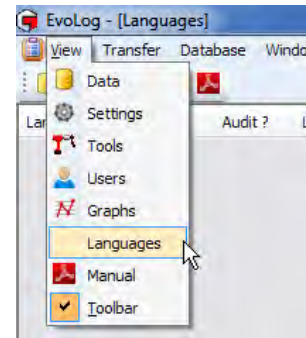
Notes	Created on	Tool
500 Nm + 30 (875)	13/02/2017 14:53	Daz's Tool
750 Nm Audit	13/02/2017 14:59	Daz's Tool
700 Nm + 20	13/02/2017 15:00	Daz's Tool
400 Nm Audit - usb	15/02/2017 13:26	Daz's Tool
400 Nm Audit - usb	15/02/2017 13:26	Daz's Tool
400 Nm Audit - usb	15/02/2017 13:26	Daz's Tool
400 Nm + 30 with 700 Final - USB	15/02/2017 13:38	Daz's Tool
2000 Nm + 720 Audit - BLE	15/02/2017 13:44	Daz's Tool
2000 Nm + 150 Audit	15/02/2017 13:55	Daz's Tool

Double click on any of the graphs in the middle pane to view the graph.

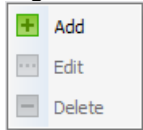


## View - Languages

This where you can Add, Edit or Delete a User Language for Report Generation.

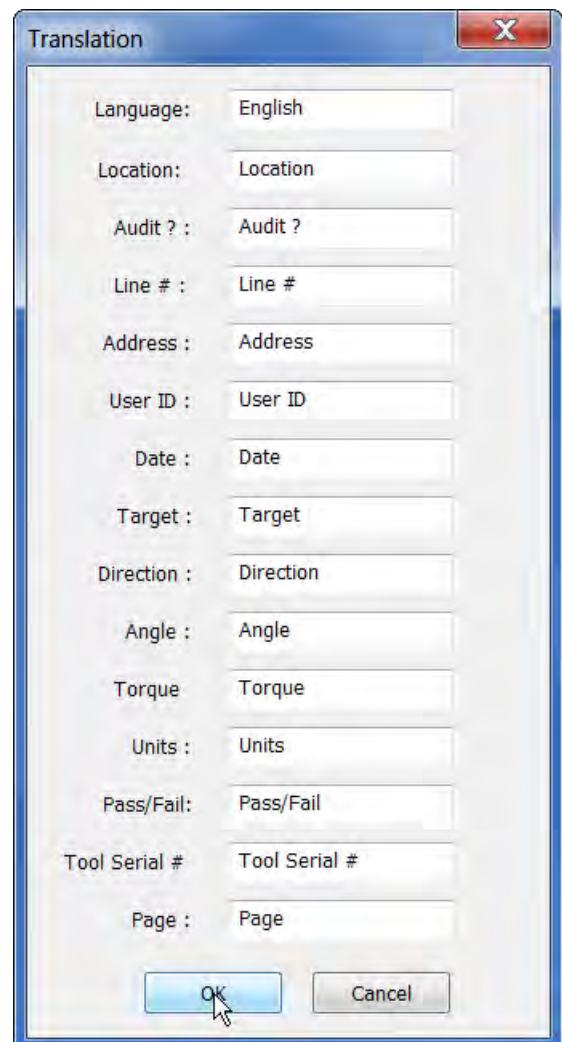


1) Right click in the language pane to bring up the following.



2) Left click **Add**.

3) Type in the required text opposed to the English word.



4) Left click the  button.

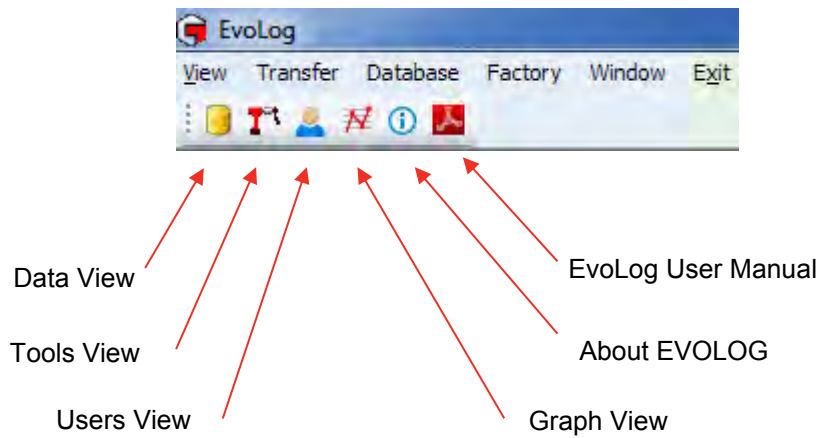
## View – Manual

Left click on the  icon to open a pdf of the EvoLog Operators Manual in a separate window.

## View - Toolbar

This is a toggle setting to show or hide the toolbar icons.

Clicking these icons will take you directly to the options listed below.

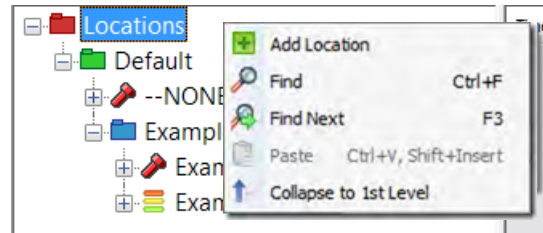




# LOCATION

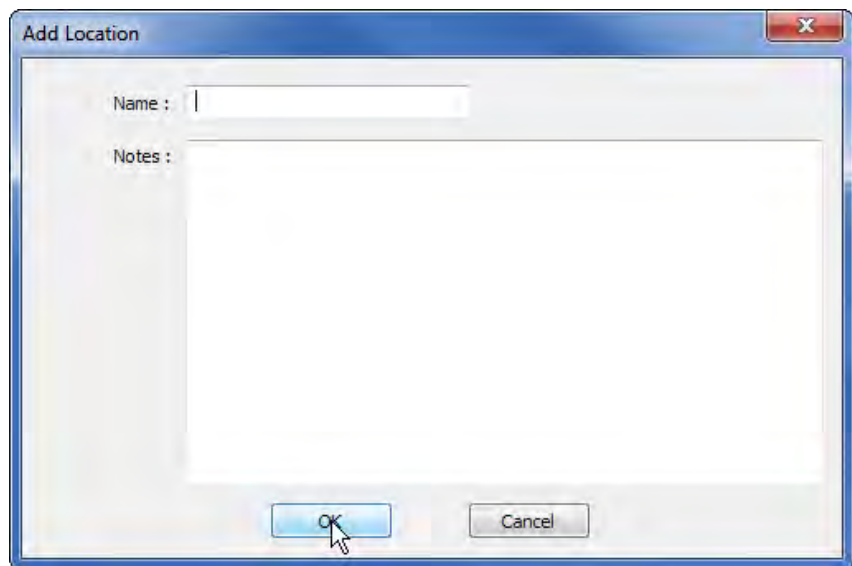
## Add Location

- 1) Right click on the **Locations** icon to show the drop down menu.

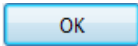


- 2) Left click on **Add Location** from the drop down menu.

- 3) Type in your required Location **Name** or identification.

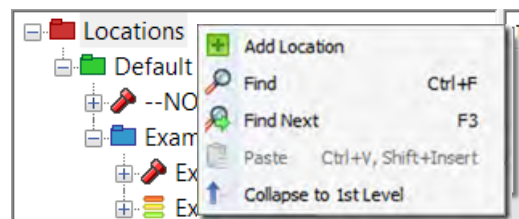


- 4) You can also add information in the **Notes** box below. This is primarily meant to be an **Address** and will be shown and printed out on **Reports** (see page 60).

- 5) Left click the  button.

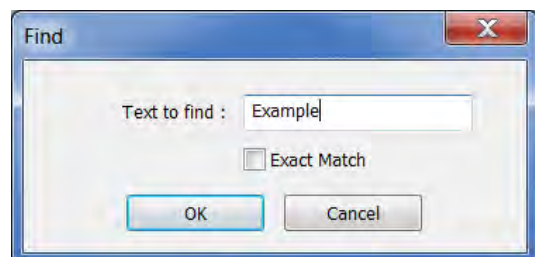
## Find

- 1) Right click on the **Locations** icon to show the drop down menu.



- 2) Left click on **Find** from the drop down menu.

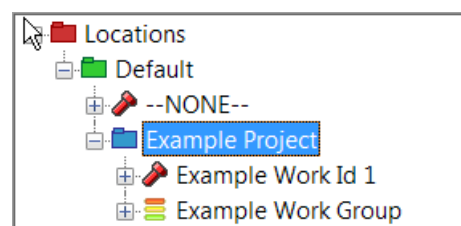
- 3) Type in what you wish to find.



- 4) Left click the  button.

- 5) The first match will be highlighted.

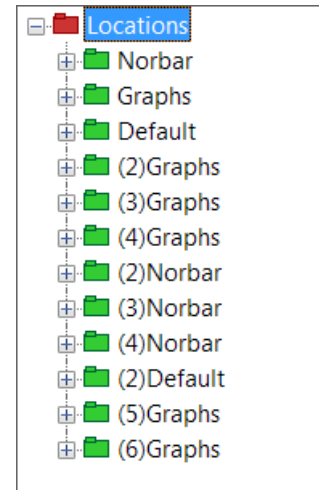
- 6) Press '**F3**' or click **Find Next** to find the next occurrence.



## Collapse to 1<sup>st</sup> Level

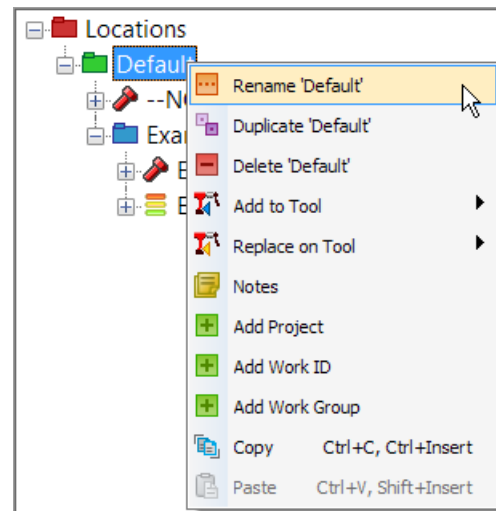
- 1) Right click on the **Locations** icon to show the drop down menu.
- 2) Left click on **Collapse to 1<sup>st</sup> Level** from the drop down menu.

**TIP: The current tree view is preserved when re-opening EvoLog.**

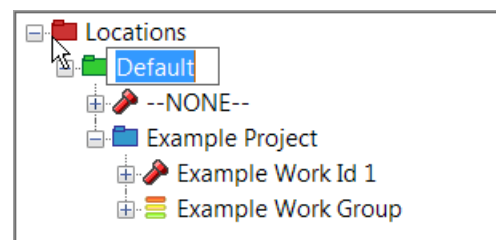


## Rename Location

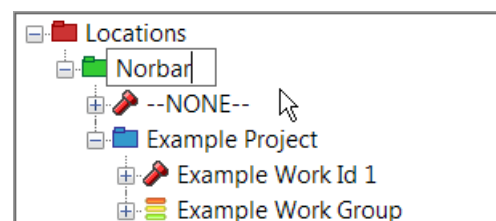
- 1) Right click on the **Location** you wish to rename.



- 2) Left click on **Rename 'xxxxxx'** on the drop down menu.

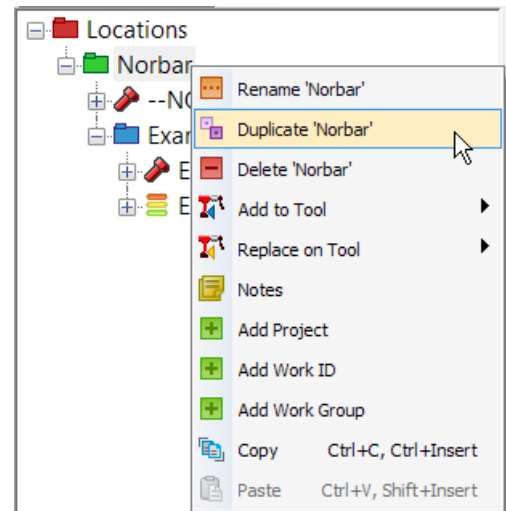


- 3) Type in the new **Location name** or identification and press return.

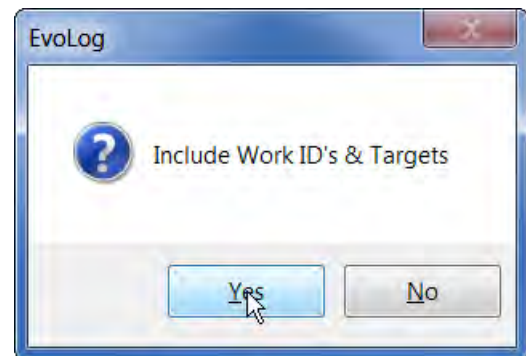


## Duplicate Location

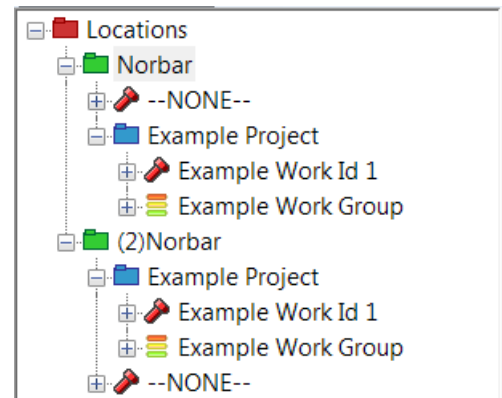
- 1) Right click on the **Location** you wish to **Duplicate**, and then left click on **Duplicate 'xxxxxx'** on the drop down menu.



- 2) If the Location has **Work ID's & Targets**, you will see this pop up. Left click on the required action.

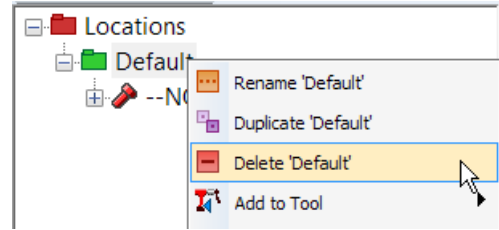


- 3) This picture shows **Yes** selected.



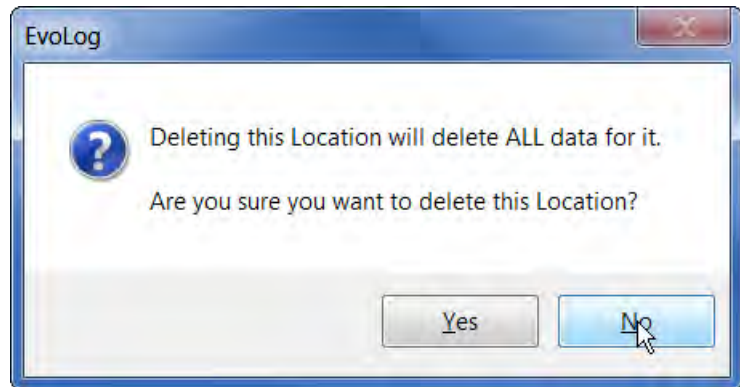
## Delete Location

1) Right click on the **Location** you wish to **Delete**.



2) Left click on **Delete 'xxxxxxx'** on the drop down menu.

3) If a Location has Projects, Work ID's, Work Groups & data associated with it, you will see the following message.



4) Left click on **Yes**.

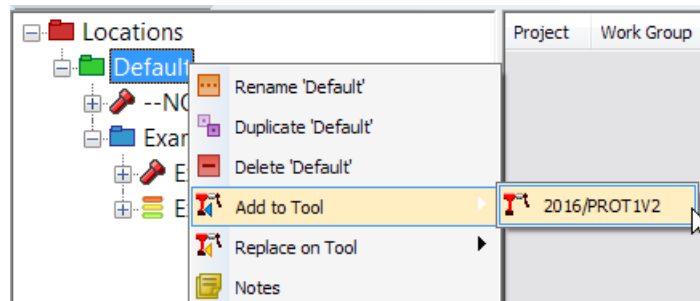
## Add to Tool (Location)

1) Check that there is a **tool attached** (shown in the bottom left hand corner of EvoLog).

1 tool attached (2015/PROT05)

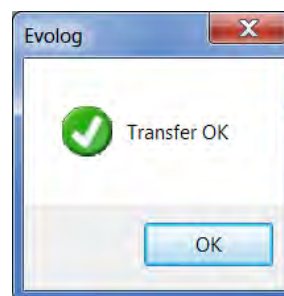
2) Right click on the required **Location** you wish to **Add** to the tool.

**TIP: Adding a 'Location' to a tool will send all of the standalone Work ID's and standalone Targets and Work Groups.**



**TIP: The tool can only have 5 Work Groups loaded at any one time.**

3) EvoLog will confirm that the **Transfer** has been successful.



4) Left click the **OK** button.

## Replace on Tool (Location)

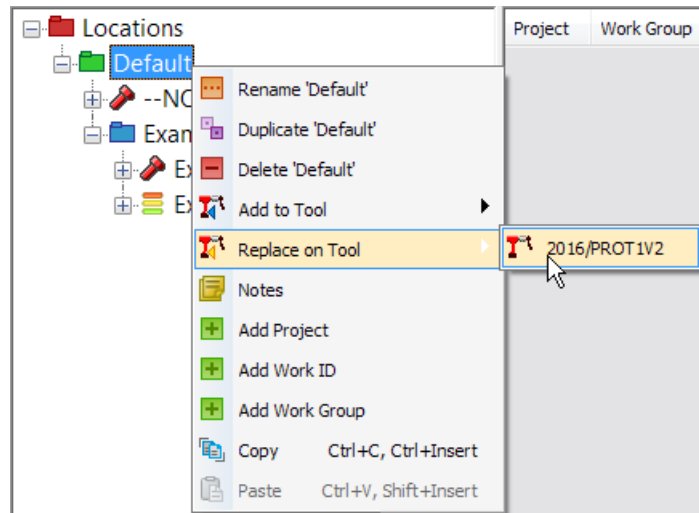
- 1) Check that there is a **tool attached** (shown in the bottom left hand corner of EvoLog).

1 tool attached (2015/PROT05)

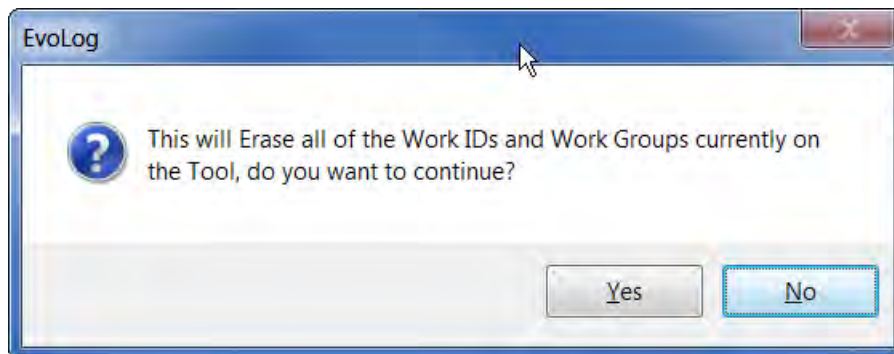
- 2) Right click on the required **Location** you wish to **Replace** to the tool.

**TIP:** Replace a 'Location' to a tool will Erase all of the standalone Work ID's, standalone Targets and Work Groups.

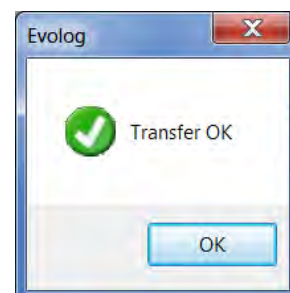
**TIP:** The tool can only have 5 Work Groups loaded at any one time.



- 3) If the Tool already has Work ID's, Targets or Work Groups, you will see this message.



- 4) EvoLog will confirm that the **Transfer** has been successful.

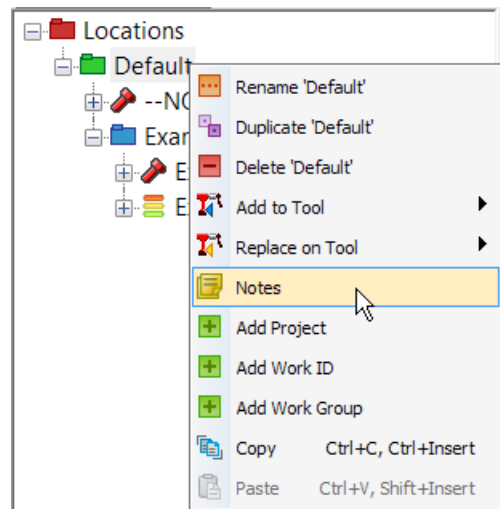


- 5) Left click the  button.

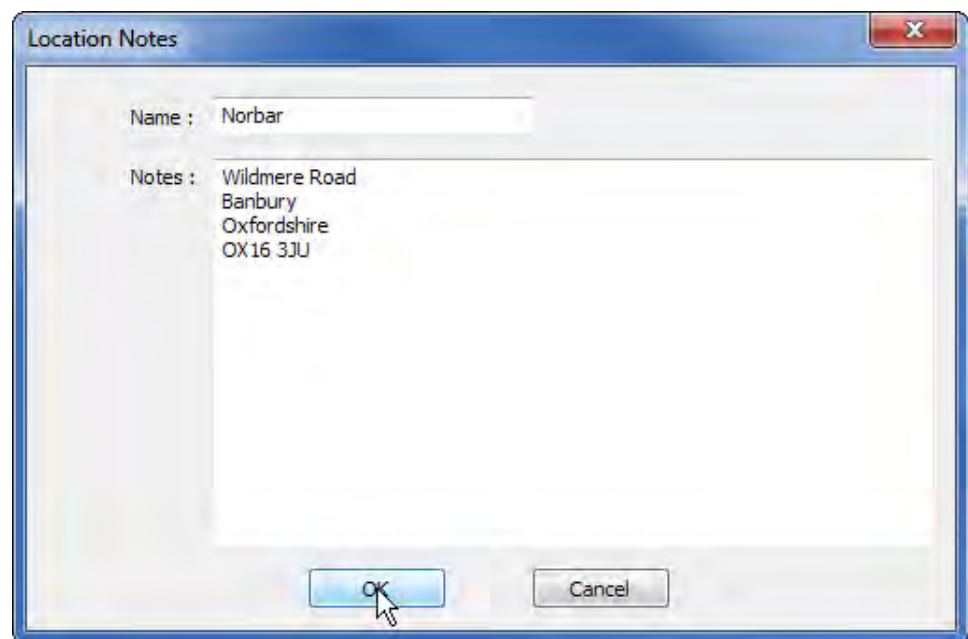
## Notes (Location)

These notes will be shown on a **Report**. This is primarily meant to be an **Address** and will be shown and printed out on **Reports** (see page 60).

- 1) Right click on the required **Location** you wish to add **Notes** to.



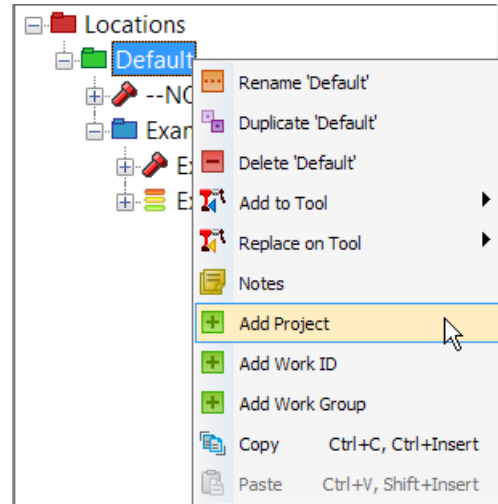
- 2) Type in the required **text**.



- 3) Left click the  button.

## Add Project (Location)

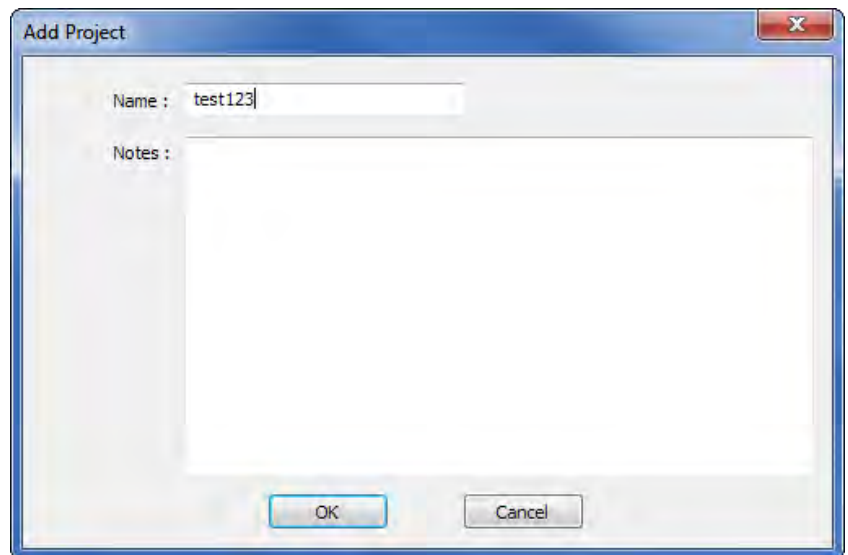
- 1) Right click on a **Location**.

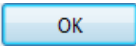


- 2) Left click on **Add Project** from the drop down menu.

- 3) Type in the Project **Name**.

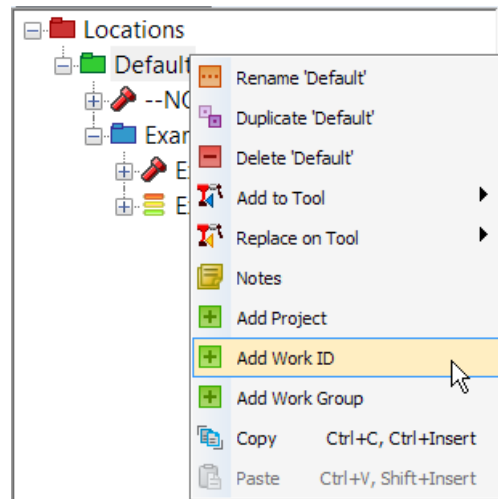
- 4) Type into the **Notes** box (if required).



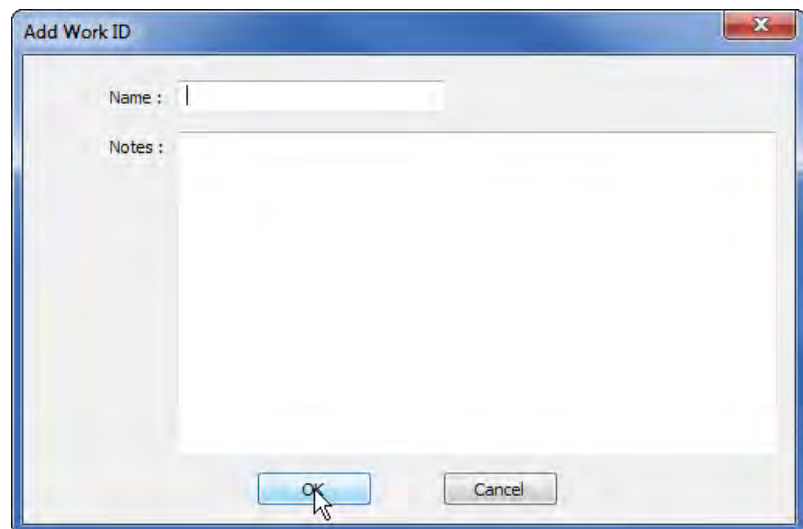
- 5) Left click the  button to save.

## Add Work ID (Location)

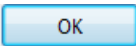
- 1) Right click on a **Location**.
- 2) Left click on **Add Work ID** from the drop down menu.



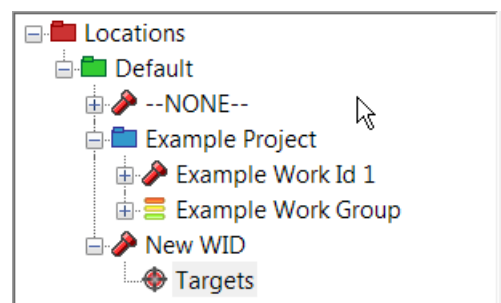
- 3) Type in the Work ID **Name**.



- 4) Type into the **Notes** box (if required).

- 5) Left click the  button to save.

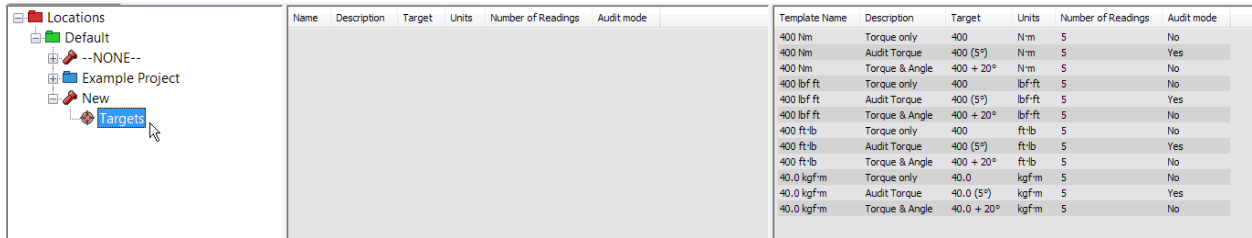
- 6) Expand the '+' in front of the Work ID and then right click on the **Target icon** underneath the Work ID you have just added.



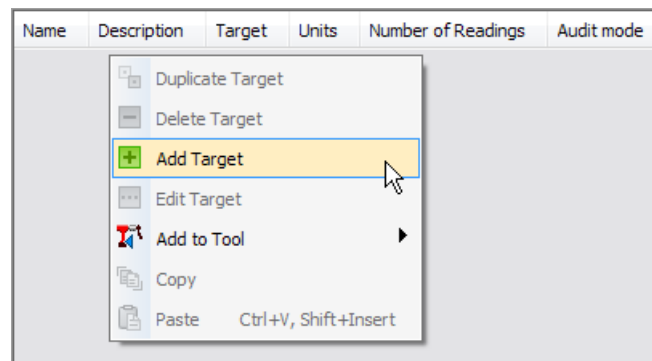


## Add Target (Work ID)

- Existing **Target Templates** are shown on the right. These Targets can be **dragged** into the middle pane to attach and associate with the Work ID (by right clicking and holding the mouse button down whilst moving the mouse pointer).



- Alternatively Left Click in the center pane and right click **Add Target** on the drop down.

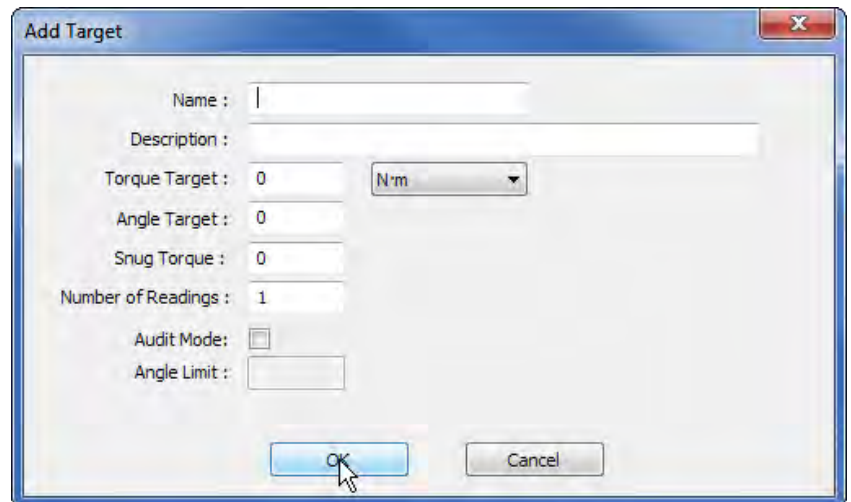
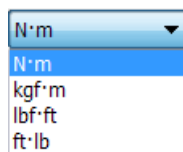


- Check the cursor is blinking in the **Name** entry box and Type required text.

- Left Click in the **Description** entry box and type the required text (this is optional).

- Left Click in the **Torque Target** entry box and type the required value.

- Left click on the Torque units drop down and left click on desired units.



- Left Click in the **Angle Target** entry box and type the required value. This value is in degrees.

- Left Click in the **Snug Torque** entry box and type the required value.

- Left click in the **Number of Readings** entry box and type the value if required (maximum 255). Here is where you can define the number of tests to be taken for the Target value when used in a Work Group.

- Left Click to tick **Audit Mode** if this is required.

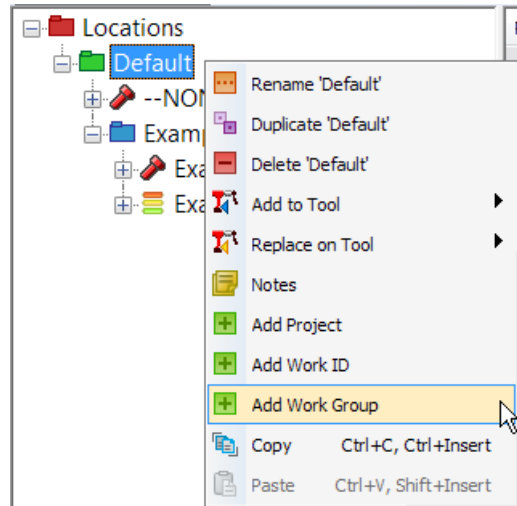
- If Audit Mode is ticked, Left Click in the **Angle Limit** entry box and type the required value (range = 2 – 99).

- Left click  to save the Target in EvoLog.

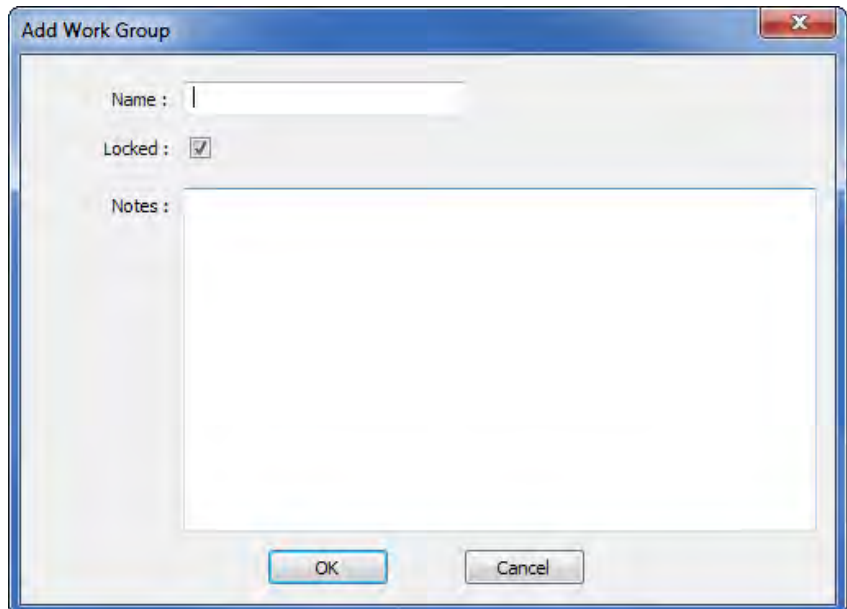
**TIP:** Targets added to Work ID's can also be dragged into the Target Templates pane.

## Add Work Group (Location)

- 1) Right click on a Location.
- 2) Left click on **Add Work Group** from the drop down menu.





- 3) Enter the Work Group **Name**.

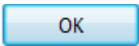


- 4) Type into the **Notes** box (if required).

- 5) Tick '**Locked**' to specify the order in which the Work ID's are completed by the tool (sequential). Un-ticked allows Work ID's to be chosen at random within the Work Group.

Work Groups are shown in the tree view in the following way:-

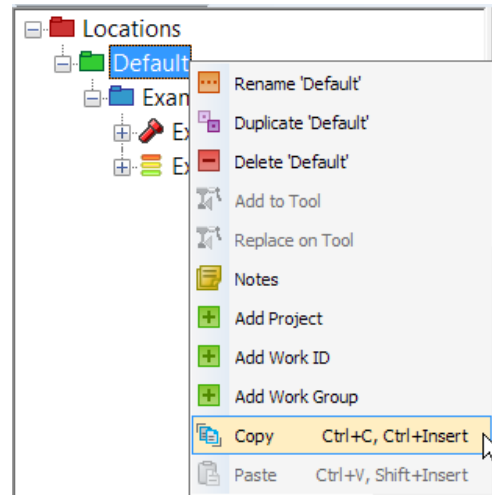
-  Locked Work Group
-  Un-Locked Work Group

- 6) Left click the  button to save.

- 7) The User can now add Work ID's and Targets to the Work Group (see page 30 & 31).

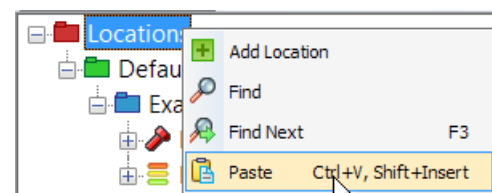
## Copy and Paste (Location)

- 1) Left click on the **Location** you wish to copy.
- 2) Right click **Copy** on the drop down. Alternatively use CTRL+C or CTRL+Insert.

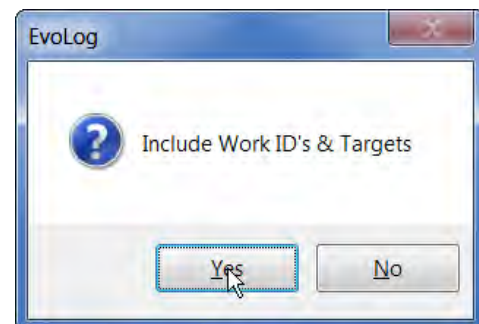


- 3) Right Click on the tree root '**Locations**' and left click on **paste**. Alternatively use CTRL+V or Shift+Insert.

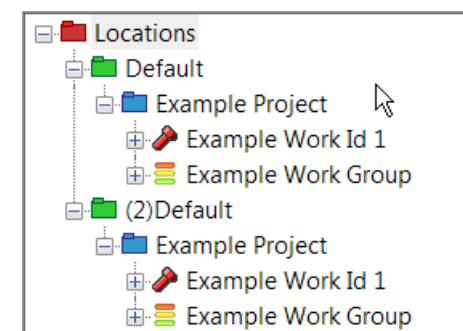
**TIP:** A '**Location**' can only be pasted to the tree root '**Locations**'.



- 4) This pop up will be shown, left click **Yes** or **No** as required.



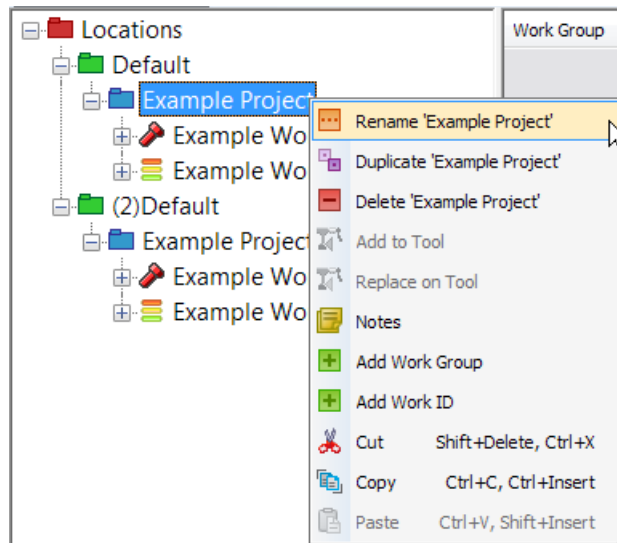
- 5) This screen shows **Yes** selected for the above Location.



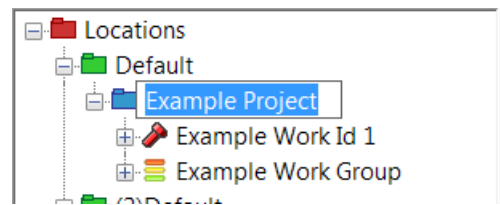
# PROJECT

## Rename Project

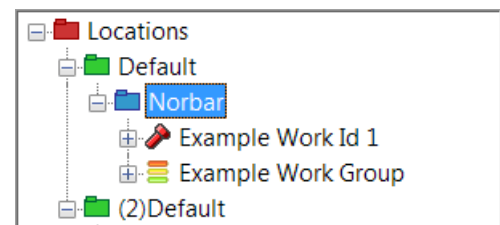
- 1) Right click on the **Project** you wish to **Rename**.



- 2) Left click on **Rename 'xxxxxx'** on the drop down menu.

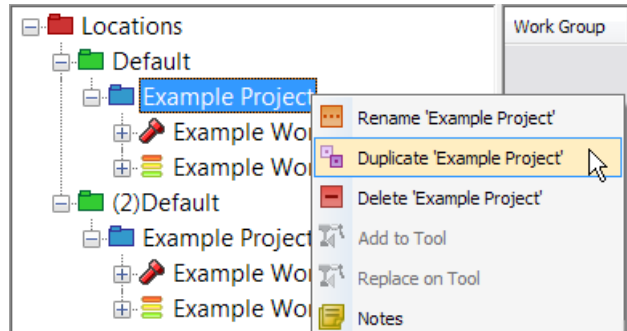


- 3) Type in the new **Location name** or identification and press enter.

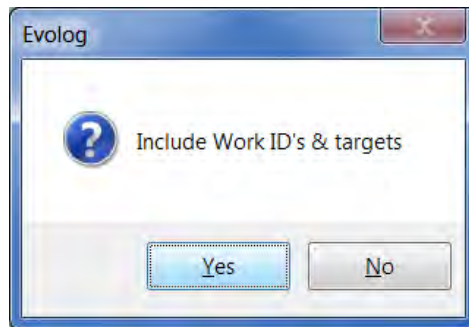


## Duplicate Project

- 1) Right click on the required **Project** you wish to **Duplicate**, and then left click on **Duplicate 'xxxxxx'** on the drop down menu.

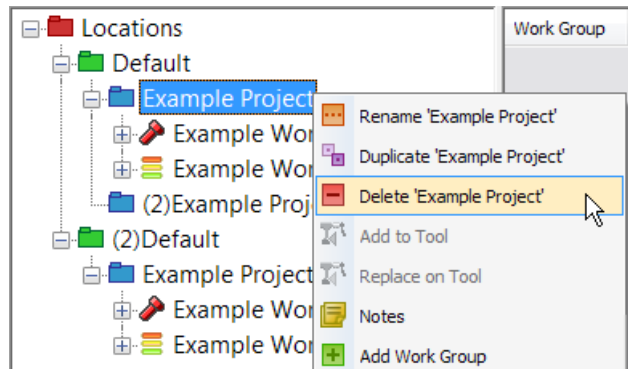


- 2) Click on the required action when this pop up is displayed.



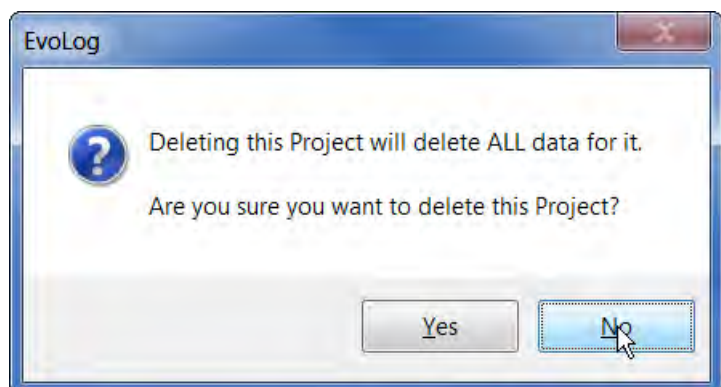
## Delete Project

- 1) Right click on the **Project** you wish to **Delete**.
- 2) Left click on **Delete 'xxxxxxx'** on the drop down menu.



**NOTE:** If a Project has Work ID's, Work Groups & data associated with it, you will see this pop up message.

- 3) Left click on **Yes**.



## Add to Tool (Project)

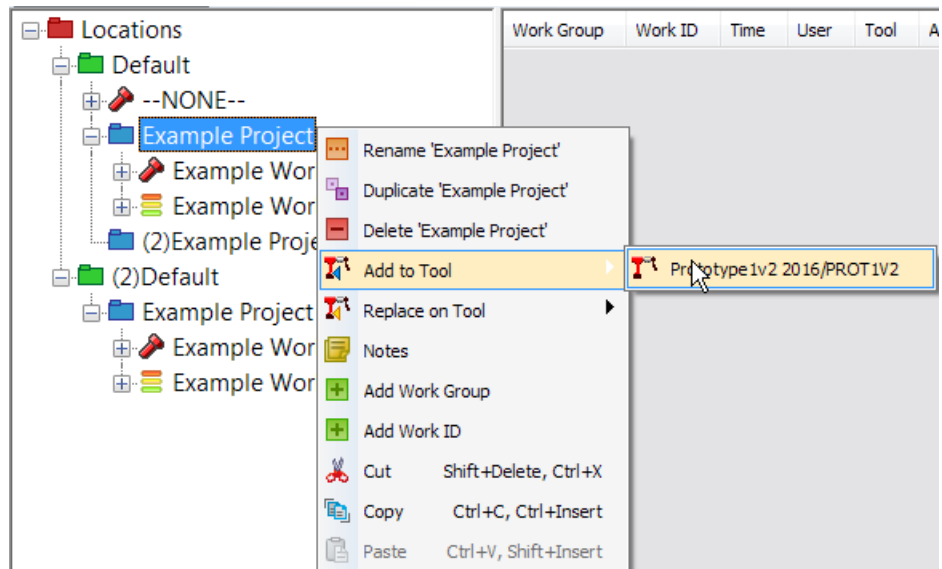
- 1) Check that there is a **tool attached** (shown in the bottom left hand corner of EvoLog).

1 tool attached (2015/PROT05)

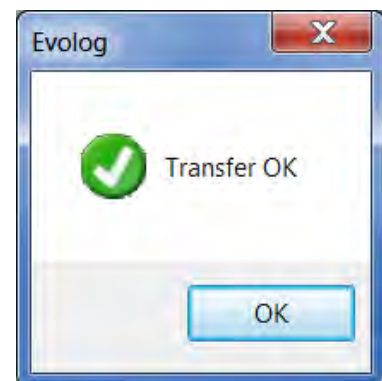
- 2) Right click on the required **Project** you wish to **Add** to the tool.

**TIP:** Adding a 'Project' to a tool will send all of the standalone Work ID's, standalone Targets and any Work Groups to the tool.

**NOTE:** The tool can have a maximum of 5 Work Groups loaded at any one time.



- 3) EvoLog will confirm that the **Transfer** has been successful.



- 4) Left click the  button.

## Replace on Tool (Project)

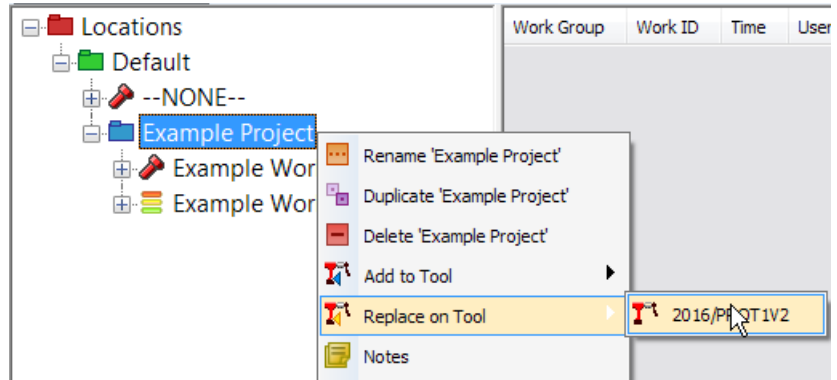
- 1) Check that there is a **tool attached** (shown in the bottom left hand corner of EvoLog).

1 tool attached (2015/PROT05)

- 2) Right click on the required **Project** you wish to **Replace** on the tool.

**TIP:** Replace a 'Location' to a tool will Erase all of the standalone Work ID's, standalone Targets and Work Groups.

**NOTE:** The tool can have a maximum of 5 Work Groups loaded at any one time.



- 3) EvoLog will confirm that the **Transfer** has been successful.



- 4) Left click the  button.

## Notes (Project)

Add notes here for the specific Project. These are for reference only and do not appear on any Reports.

## Add Work Group (Project)

Adding a Work Group here is the same as detailed on page 32. This is a different level on the tree.

## Add Work ID (Project)

Adding a Work ID here is the same as detailed on page 30. This is a different level on the tree.

## Cut (Project)

The User can **Cut** a **Project** from one **Location** and **Paste** it to different **Location**.

## Copy (Project)

The User can **Copy** a **Project** from one **Location** and **Paste** it to the same or a different **Location**.

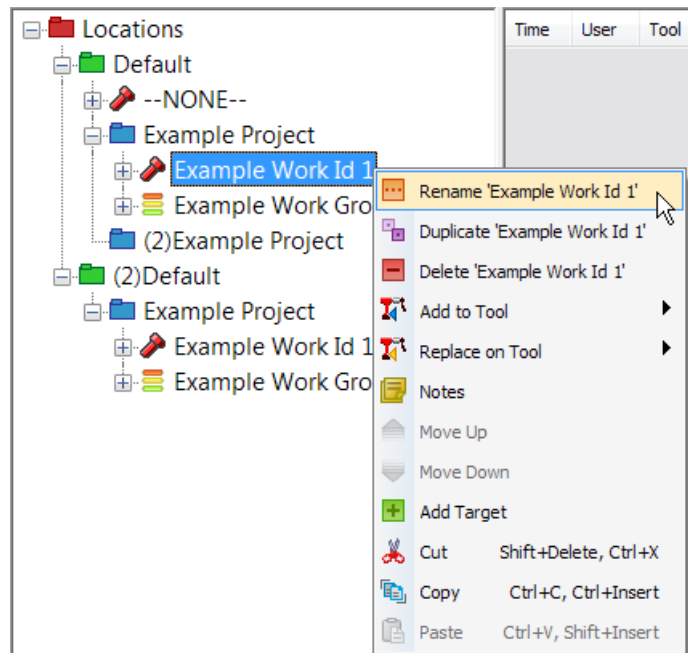
## Paste (a Project)

Used in conjunction with **Cut** or **Copy**.

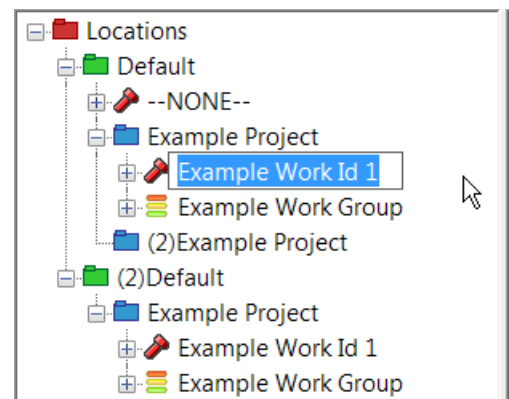
# WORK ID

## Rename Work ID

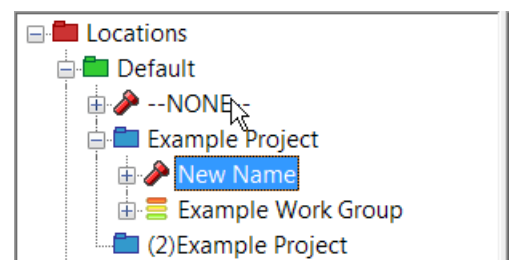
- 1) Right click on the **Work ID** you wish to **Rename**.



- 2) Left click on **Rename 'xxxxxx'** on the drop down menu.



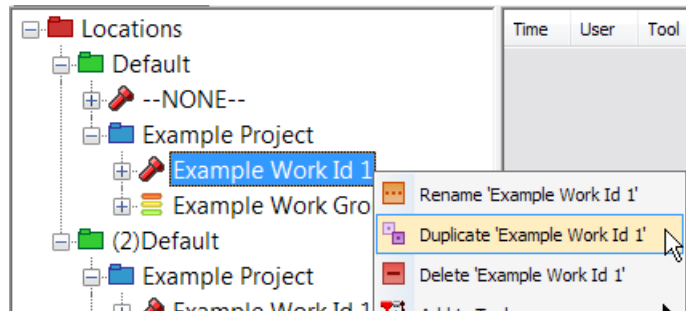
- 3) Type in the new **Work ID name** or identification and press enter.



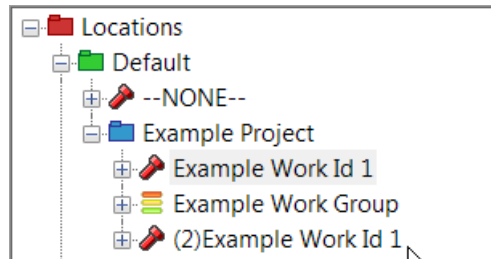


## Duplicate Work ID

- 1) Right click on the required **Work ID** you wish to **Duplicate**, and then left click on **Duplicate 'xxxxxx'** on the drop down menu.

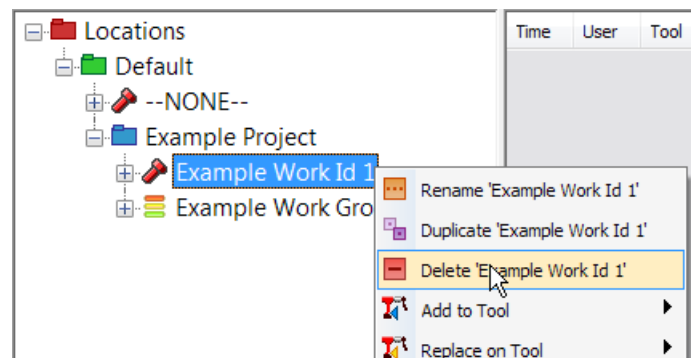


- 2) The duplicated Work ID is shown here "(2)Example Work id 1". Any Targets linked to the Work ID are also duplicated.



## Delete Work ID

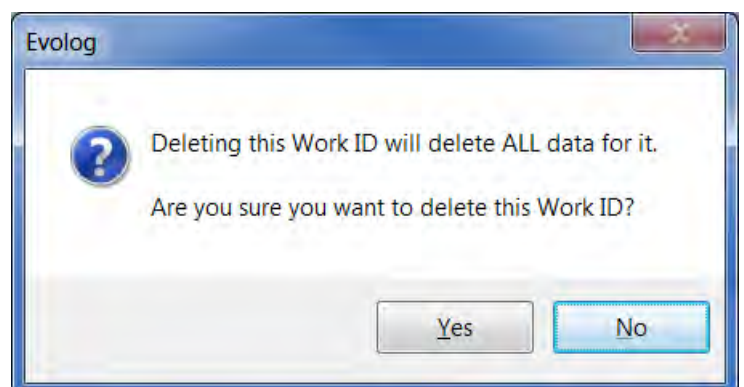
- 1) Right click on the **Work ID** you wish to **Delete**.



- 2) Left click on **Delete 'xxxxxx'** on the drop down menu.

- 3) Left click on **Yes** button.

**TIP:** Data can be Results and/or Targets.

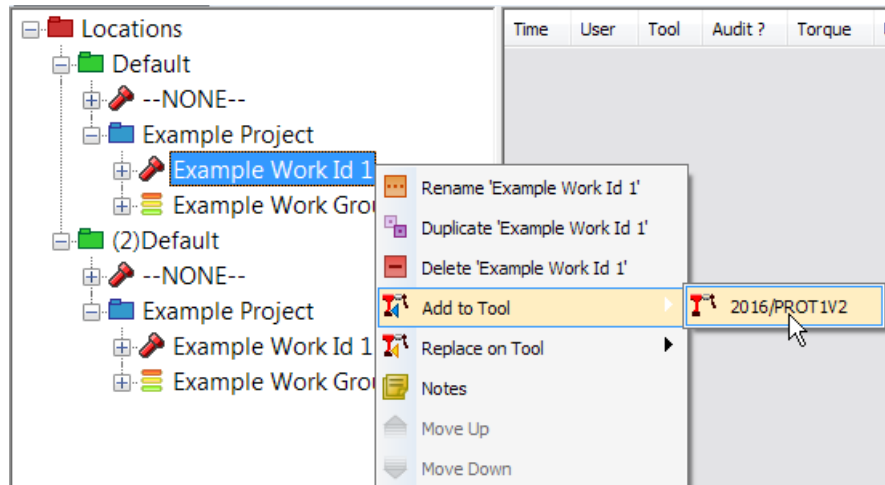


## Add to Tool (Work ID)

Use this to **Add** the selected **Work ID & associated Target(s)** to the tool.

- 1) Right click on the **Work ID** you wish to **Add**.

**TIP:** Select multiple Work ID's using CTRL + Click.



- 2) Highlight **Add to Tool** on the drop down menu and then left click on the tool you wish to send to.

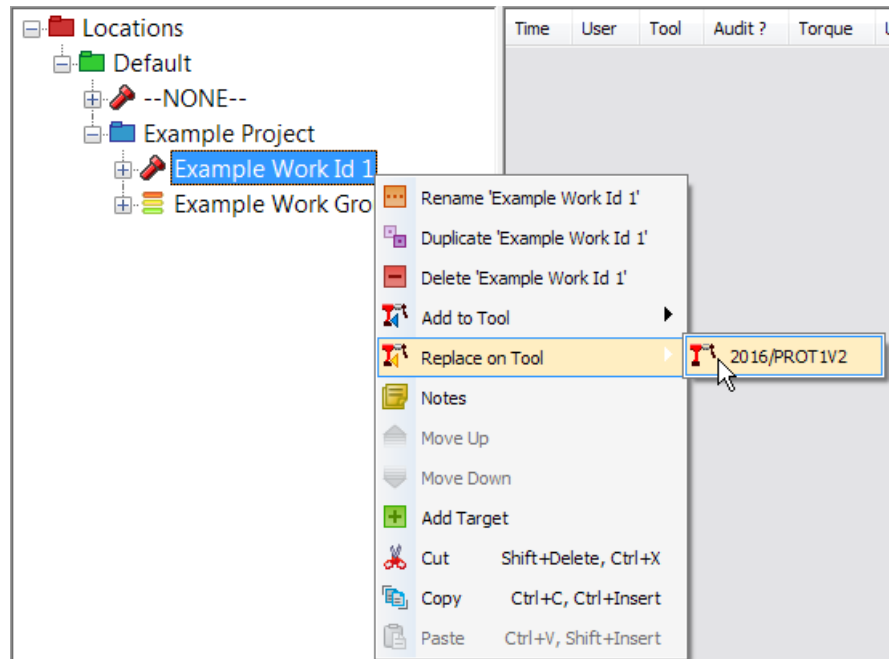
**TIP:** Targets are not linked to Work ID's on the tool except when in a Work Group.

## Replace on Tool (Work ID)

Use this to **Replace** the **Work ID & associated Target(s)** to the tool with the selected **Work ID & associated Target(s)** in EvoLog.

- 1) Right click on the **Work ID** you wish to **Replace** on Tool.

**TIP:** Select multiple Work ID's using CTRL + Click.

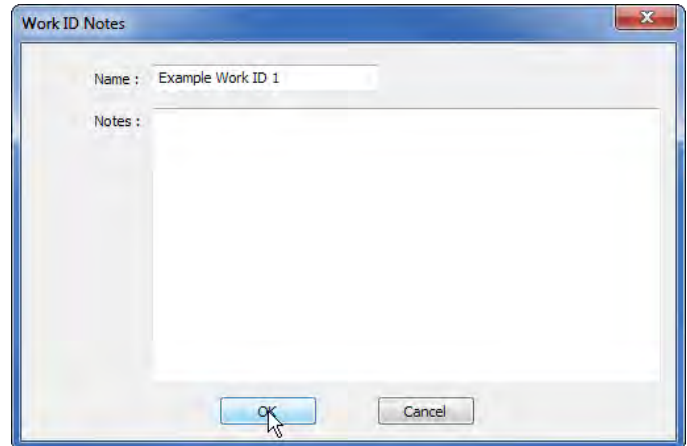
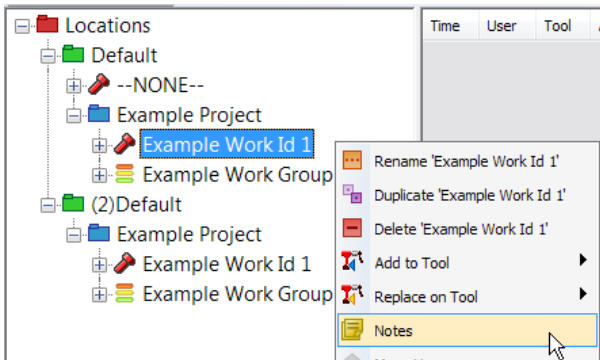


- 2) Highlight **Replace on Tool** on the drop down menu and then left click on the tool you wish to send to.

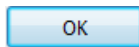
**TIP:** Targets are not linked to Work ID's on the tool except when in a Work Group.

## Notes (Work ID)

Add **Notes** here for the specific **Work ID**. These are shown when generating a Report for an individual Work ID.



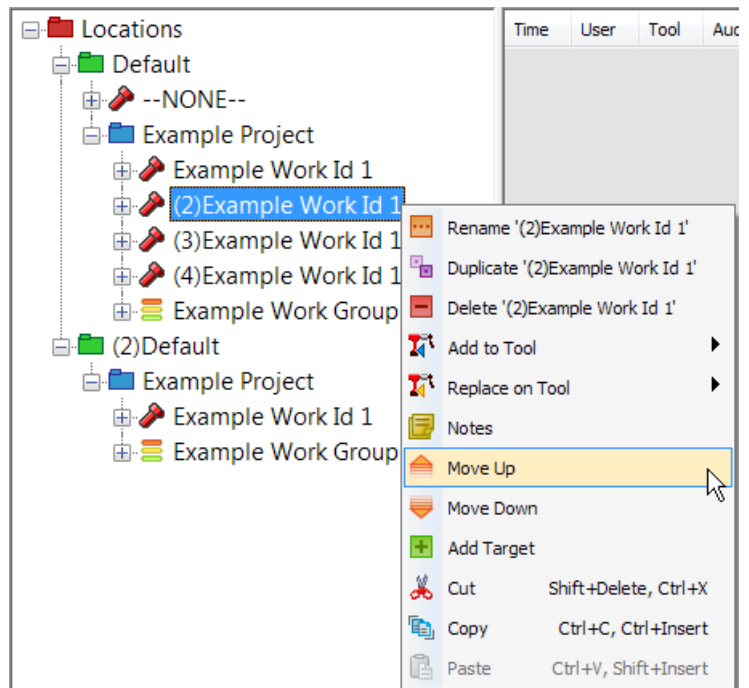
Type in your text and left click the



button.

## Move Up / Move Down (Work ID)

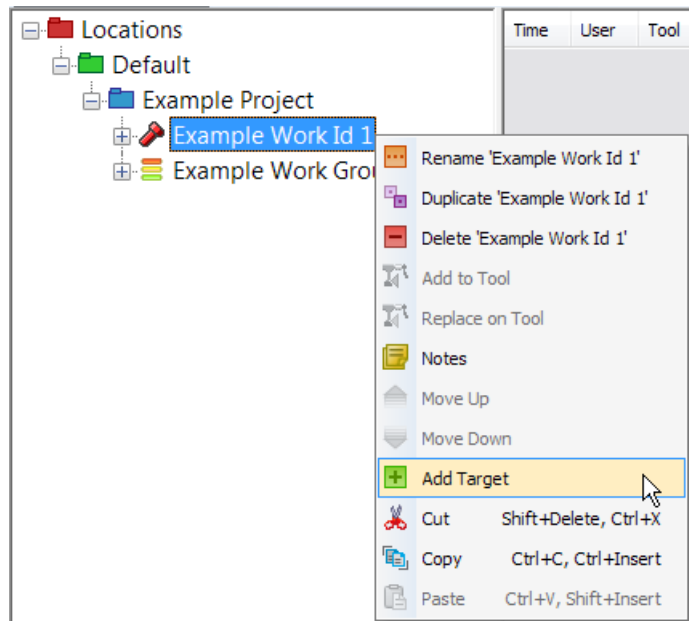
These become active if there are **multiple Work ID's** under a **Project** and allows the user to re-order the list of Work ID's. The user must click on the specific Work ID to be moved.



## Add Target (Work ID)

The Target is associated with the Work ID. See page 31 for more information on how to add a Target.

**TIP:** When the Work ID is selected on the tool, the associated Target(s) are not and any Targets will have to be selected separately to make the Target active.



## Cut (Work ID)

The User can **Cut** a Work ID from a **Project** and **Paste** it to different **Project** or **Location**.

## Copy (Work ID)

The User can **Copy** a Work ID from one **Project** and **Paste** it to the same or a different **Project** or **Location**.

## Paste (Work ID)

Used in conjunction with **Cut** or **Copy** a Work ID.

# TARGET TEMPLATES

Target Templates are shown in the right hand pane and can be viewed by clicking on any of the Target icons when the Data View is shown in the left hand pane. Targets can be re-ordered within the list by dragging and dropping.

Template Name	Description	Target	Units	Number of Readings	Audit mode
400 Nm	Torque only	400	N·m	5	No
400 Nm	Audit Torque	400 (5°)	N·m	5	Yes
400 Nm	Torque & Angle	400 + 20°	N·m	5	No
400 lbf ft	Torque only	400	lbf·ft	5	No
400 lbf ft	Audit Torque	400 (5°)	lbf·ft	5	Yes
400 lbf ft	Torque & Angle	400 + 20°	lbf·ft	5	No
400 ft·lb	Torque only	400	ft·lb	5	No
400 ft·lb	Audit Torque	400 (5°)	ft·lb	5	Yes
400 ft·lb	Torque & Angle	400 + 20°	ft·lb	5	No
40.0 kgf·m	Torque only	40.0	kgf·m	5	No
40.0 kgf·m	Audit Torque	40.0 (5°)	kgf·m	5	Yes
40.0 kgf·m	Torque & Angle	40.0 + 20°	kgf·m	5	No

Targets can be copied by right click, hold and dragging into the center pane (Work ID Targets). Work ID Targets can also be copied by right click, hold and dragging into the Target Templates area.

**TIP:** Targets can be sorted by clicking on any of the column headings at the top i.e. Template Name, Description, Target etc.

## Duplicate Target

- 1) Right Click on an existing Target in the **Targets Pane** and then left click on **Duplicate Target**.
- 2) The **Target** will be added at the bottom of the Target Templates pane on the right hand side.

Template Name	Description	Target	Units	Number of Readings	Audit mode
400 Nm	Torque only	400	N·m	5	No
400 Nm	Audit Torque	400 (5°)	N·m	5	Yes
400 Nm	Torque & Angle	400 + 20°	N·m	5	No
400 lbf ft	Torque only	400	lbf·ft	5	No
400 lbf ft	Audit Torque	400 (5°)	lbf·ft	5	Yes
400 lbf ft	Torque & Angle	400 + 20°	lbf·ft	5	No
400 ft·lb	Torque only	400	ft·lb	5	No
400 ft·lb	Audit Torque	400 (5°)	ft·lb	5	Yes
400 ft·lb	Torque & Angle	400 + 20°	ft·lb	5	No
40.0 kgf·m	Torque only	40.0	kgf·m	5	No
40.0 kgf·m	Audit Torque	40.0 (5°)	kgf·m	5	Yes
40.0 kgf·m	Torque & Angle	40.0 + 20°	kgf·m	5	No

## Delete Target

- 1) Right Click on the **Target** you wish to **Delete** in the right hand side Target Templates pane (or Work ID Target center pane).
- 2) Left click Delete Target.

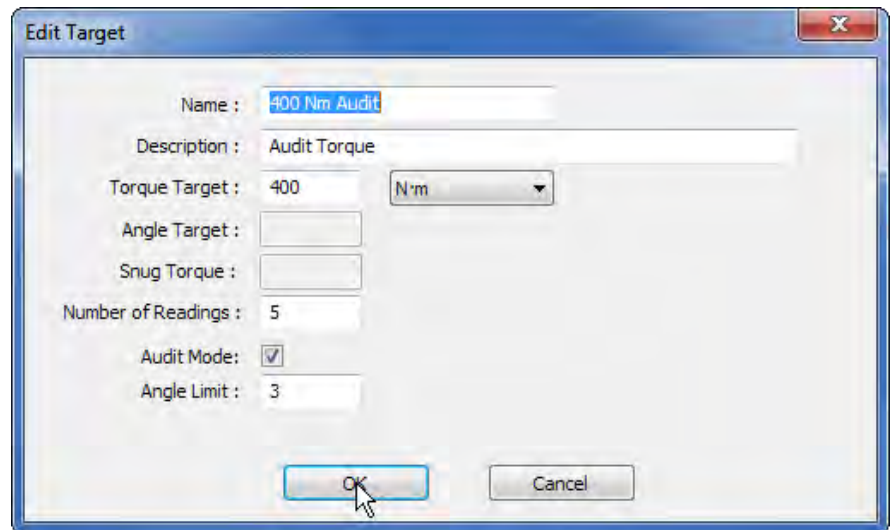
Template Name	Description	Target	Units	Number of Readings	Audit mode
400 Nm	Torque only	400	N·m	5	No
400 Nm	Audit Torque	400 (5°)	N·m	5	Yes
400 Nm	Torque & Angle	400 + 20°	N·m	5	No
400 lbf ft	Torque only	400	lbf·ft	5	No
400 lbf ft	Audit Torque	400 (5°)	lbf·ft	5	Yes
400 lbf ft	Torque & Angle	400 + 20°	lbf·ft	5	No
400 ft·lb	Torque only	400	ft·lb	5	No
400 ft·lb	Audit Torque	400 (5°)	ft·lb	5	Yes
400 ft·lb	Torque & Angle	400 + 20°	ft·lb	5	No
40.0 kgf·m	Torque only	40.0	kgf·m	5	No
40.0 kgf·m	Audit Torque	40.0 (5°)	kgf·m	5	Yes
40.0 kgf·m	Torque & Angle	40.0 + 20°	kgf·m	5	No

## Add Target

See page 31 for more information on how to Add a Target.

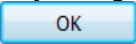
## Edit Target

1. Right click on the **Target** you wish to modify in the Target pane and left click on Edit Target to show the 'Edit Target' screen.



The 'Edit Target' dialog box contains the following fields and values:

Field	Value
Name	400 Nm Audit
Description	Audit Torque
Torque Target	400
Unit	N'm
Angle Target	
Snug Torque	
Number of Readings	5
Audit Mode	<input checked="" type="checkbox"/>
Angle Limit	3

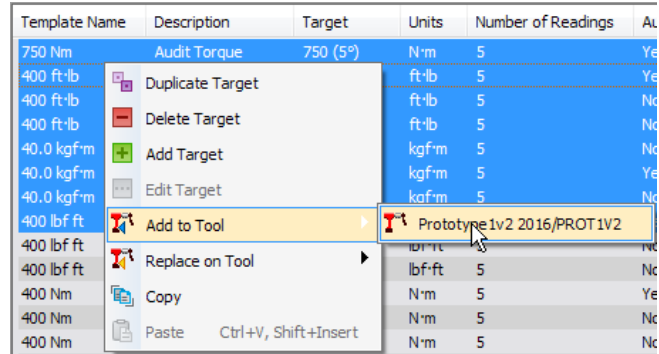
2. Make necessary changes and left click the  button.

## Add to Tool (Targets)

- 1) Left Click on the **Target(s)** you wish to Add in the Targets pane and then right click to show the drop down.

**TIP: If no tool is attached, Add to Tool will be greyed out.**

- 2) Highlight **Add to Tool** and select which Tool you wish to Add the Target(s) to (only one will be shown if there is only one attached) and left click.

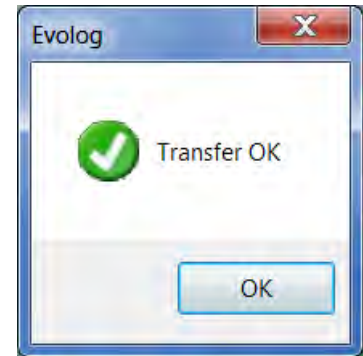


- 3) When the Tool has received the Target a confirmation pop up screen will be shown. The Target is now active and the Tool can be used.

- 4) Left click the  button.

This option is only active when **'1 Tool attached (???????)'** is shown in the bottom left hand corner of EvoLog after connecting to a EvoTorque®2 tool(s) via USB or Bluetooth® Smart

This option can be used to control the Target(s) sent to single or multiple EvoTorque®2 Tools.

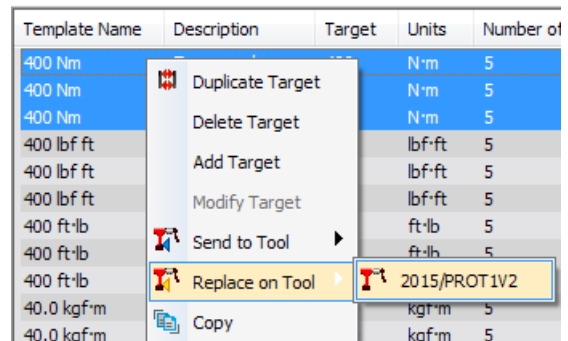


## Replace on Tool (Targets)

This will Replace any existing Target(s) on the attached tool with the Target(s) you have selected.

- 1) Left Click on the **Target(s)** you wish to Add in the Targets pane to show the drop down. Left click on **Replace on Tool**.

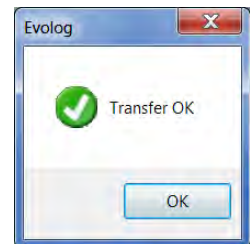
**TIP: If no tool is attached, Add to Tool will be greyed out.**



- 2) Select which Tool you wish to Add the Target(s) to. Only one will be shown if there is only one attached.

- 3) When the Tool has received the Target a confirmation pop up screen will be shown. The Target is now active and the Tool can be used.

- 4) Left click the  button.



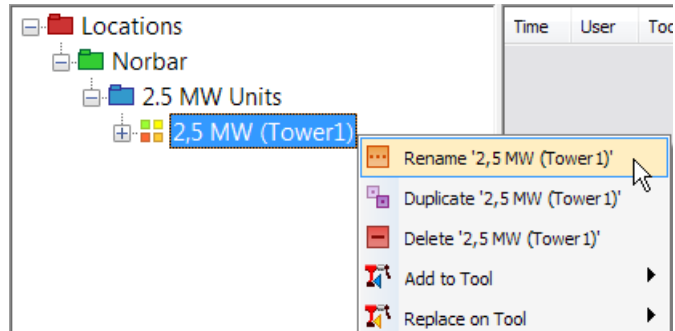
## Copy (Targets)

This function is used to **Copy Target(s)** and **Paste** them into Work ID's. Targets can also be copied and pasted into Microsoft applications like Word, Excel etc.

# Work Group

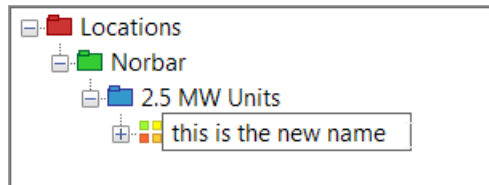
## Rename (Work Group)

- 1) Right click on the **Work Group** you wish to **Rename**.



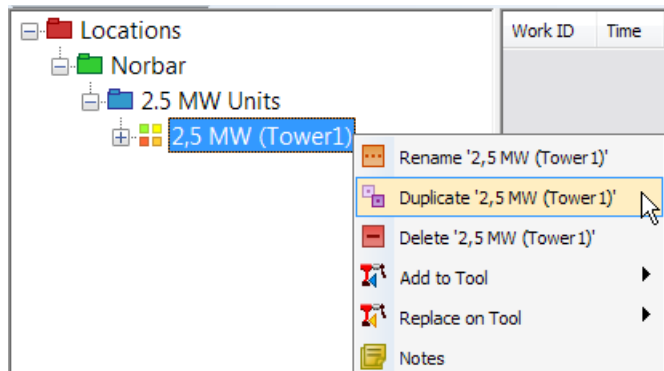
- 2) Left click on **Rename 'xxxxxx'** on the drop down menu.

- 3) Type in the new Work Group name or identification and press enter.



## Duplicate (Work Group)

- 1) Right click on the required **Work Group** you wish to **Duplicate**, and then left click on **Duplicate 'xxxxxx'** on the drop down menu.



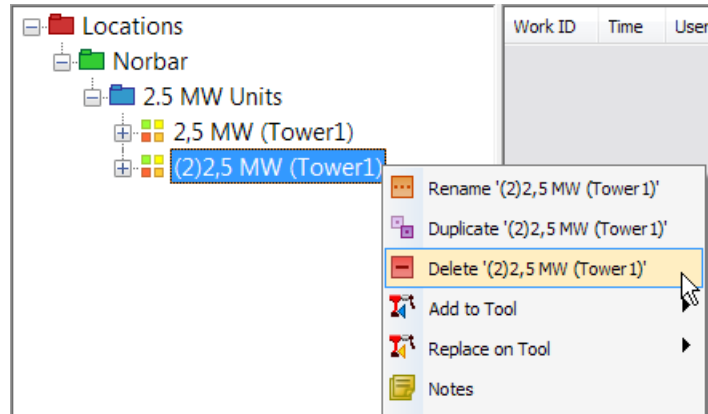
- 2) All Work ID's and Targets are also Duplicated.

Name	Description	Target	Units	Number of Readings	Audit mode
500 Nm	Torque only	500	N·m	5	No

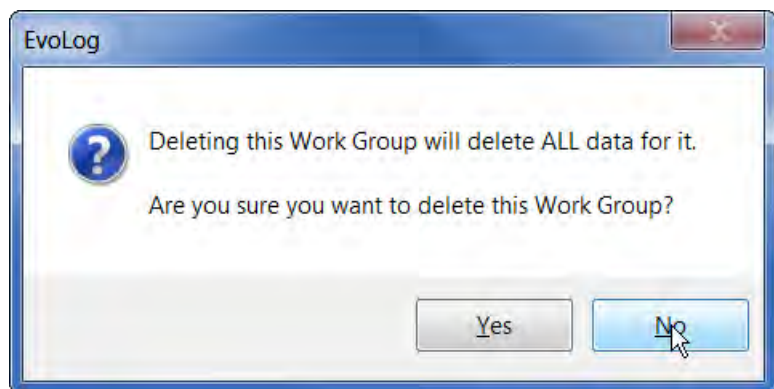


## Delete (Work Group)

- 1) Right Click on the **Work Group** you wish to **Delete**.



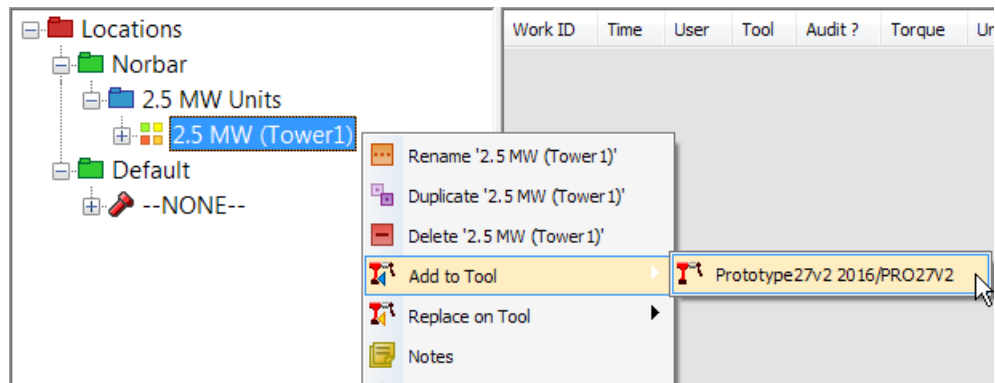
- 2) Left click the **Yes** button.



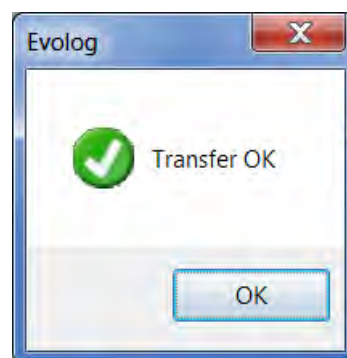
## Add to Tool (Work Group)

This will Add the Work Group to the tool.

- 1) Right Click on the **Work Group** you wish to **Add**.
- 2) Highlight **Add to Tool** on the drop down menu and then left click on the tool you wish to send to.



- 3) Confirmation that the Work Group has been received on the tool.



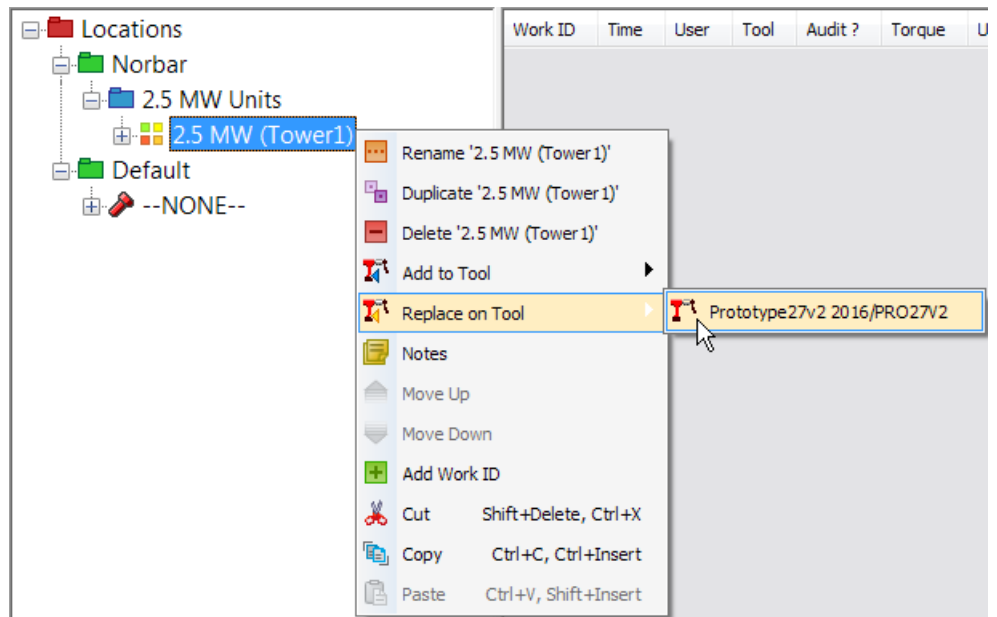
## Replace on Tool (Work Group)

This will Replace any existing Work Groups to the tool.

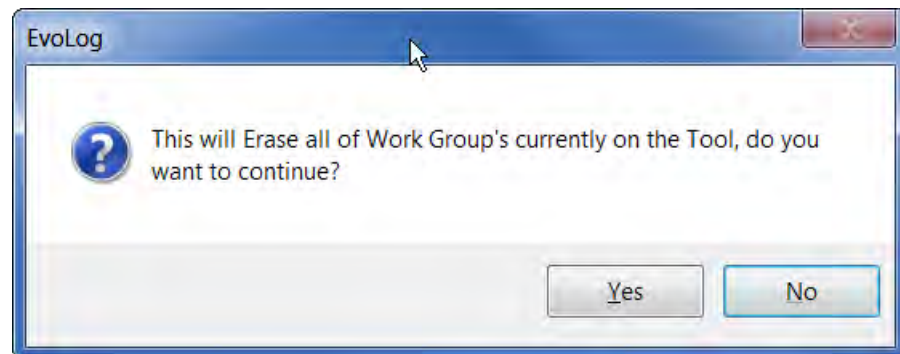
- 1) Right Click on the **Work Group(s)** you wish to **Replace**.

**TIP:** The tool can have a maximum of 5 Work Groups loaded at any one time.

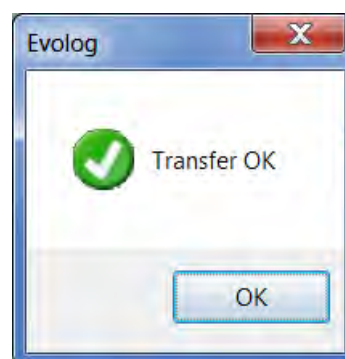
- 2) Highlight **Replace on Tool** on the drop down menu and then click on the tool you wish to send to.



- 3) Left click the **Yes** button.



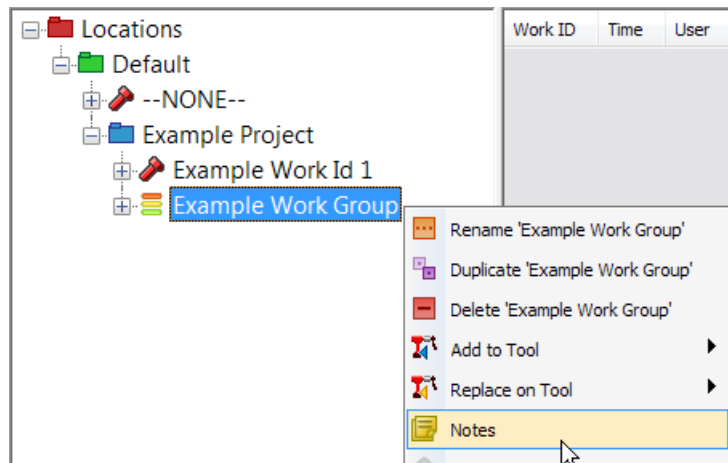
- 4) Confirmation that the Work Group has been received on the tool.



## Notes (Work Group)



Add notes here for the Work Group. These are for reference only and do not get shown on a Report.

- 1) Right click on a **Work Group**.
- 2) Left click on **Notes** from the drop down menu.

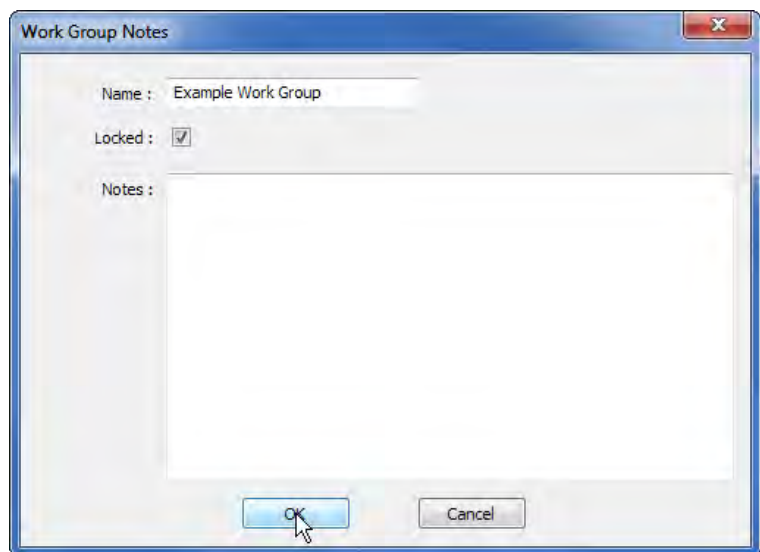


- 3) Type in required text.
- 4) Tick '**Locked**' to specify the order in which the Work ID's are completed by the tool (sequential). Un-ticked allows Work ID's to be chosen at random within the Work Group.

Work Groups are shown in the tree view in the following way:-

-  Locked Work Group
-  Un-Locked Work Group

- 5) Left click the  button to save.



## Move Up / Move Down (Work Group)

These become active if there are **multiple Work ID's** under a **Work Group** and allows the user to re-order the list of Work ID's. The user must click on the specific Work ID to be moved.

**TIP:** The order in which the Work ID's are shown is the order in which they will be processed by the tool.

## Add Work ID (Work Group)

Adding a Work ID here is the same as detailed on page 30. This is a different level on the tree.

## Cut (Work Group)

The User can **Cut** a **Work Group** from one **Location** or **Project** and **Paste** it to different **Location** or **Project**.

## Copy (Work Group)

The User can **Copy** a **Work Group** from one **Location** or **Project** and **Paste** it to different **Location** or **Project**.

## Paste (Work Group)

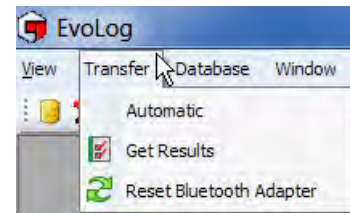
Used in conjunction with **Cut** or **Copy** of a **Work Group**.

# Transfer

## USB / Bluetooth® Smart Data Transfer

1) Right click on **Transfer** on the EvoLog menu bar.

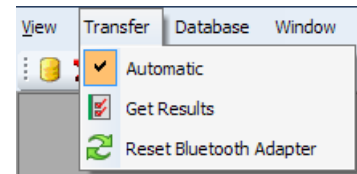
**NOTE:** A Tool must be attached via USB/Bluetooth® Smart and EvoLog must be displaying "X Tool attached (XXXXXX)" in the bottom left hand corner).



1 tool attached (2015/PROT05)

2) Left Click **Automatic** on the drop down menu to turn on (ticked). Left click again to turn it off (un-ticked).

When **Automatic** is turned **On**, Test Results are uploaded from an EvoTorque®2 tool to EvoLog and the current time / date is set on the EvoTorque®2 when EvoLog has detected and attached to a Tool(s).



When **Automatic** is turned **Off**, you can use the **Get Results** by left clicking on the option from the drop down menu to control when Test Results are sent to EvoLog.

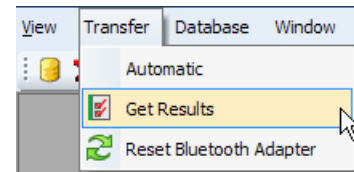
## Get Results

Right click on **Get Results** on the EvoLog toolbar.

**Get Results** is used to copy any stored results from any attached EvoTorque®2 Tool into EvoLog.

The current time / date on the EvoTorque®2 tool is also synchronized with the PC.

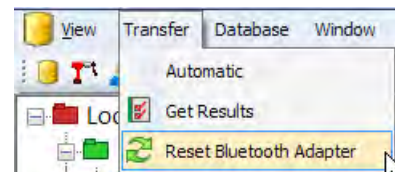
**NOTE:** A Tool must be attached via USB/Bluetooth® Smart and EvoLog must be displaying "X Tool attached (XXXXXX)" in the bottom left hand corner).



1 tool attached (2015/PROT05)

## Reset Bluetooth® Adapter

This option should be used if you are experiencing difficulty in attaching to a Tool using Bluetooth®.



Confirmation will be shown (bottom left) that the Adapter has been Reset.

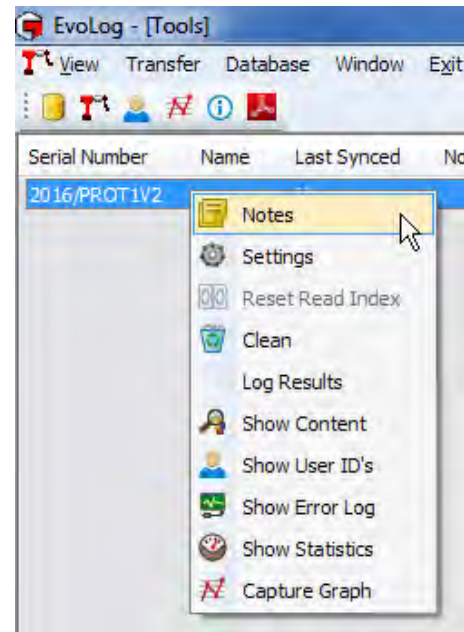
No tools attached 1 Bluetooth module RESET

# TOOLS

## Notes (Tool)

This is where you can add some **Notes** against the tool i.e. where the tool is being used. These notes appear in the **Notes column** of the **Tools View**, but do not appear on any Reports.

- 1) Right click on the **attached tool** (shown in Blue) to show the drop down.



- 2) Right click on **Notes** to show the following pop up.



- 3) Type in the required text and left click the **OK** button

- 4) The text will appear under the **Notes** column in the **Tools View**.

Serial Number	Name	Last Synced	Notes	Firmware Version	Part#	Capacity
000000000000	Daz's Tool	Never		37799.201	EVOTORQUE	1000 N·m
2016/0000001		Never		37731.202	180222.B08	2000 N·m
2016/0000002		Never		37731.202	180222.B08	2000 N·m
2016/PRO27V2	Prototype27v2	Never		37731.A05	180222.B08	2000 N·m
2016/PROT1V2	Daz's Tool	Never	Here are some notes	37799.201	180222.B08	2000 N·m
2016/PROT26V		Never		37731.093	EVOTORQUE	2000 N·m
2016C01234		Never		37731.201	EVOTORQUE	2700 N·m

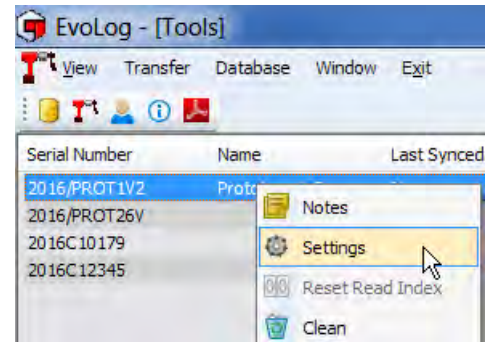
## Tool Settings

All of the **Tool Settings** can be configured and downloaded to the Tool from EvoLog.

1. Left Click the **View** tab.
2. Left click **Tools**. Alternatively right click the Tools icon from the menu bar.
3. Select the Tool you wish to change the configuration by right clicking and selecting **Settings** from the drop down.

**TIP: Tools that are attached will be shown in Blue.**

4. Enter/Change the **Tool Name**.



Change the **Unit** in which the tool will be operating by clicking in the tick boxes next to them. Only one Unit can be active.

5. Tick **Auto Reset?** If you wish the Tool to automatically reset after a successful joint complete. This operates in conjunction with the **Hold Time** setting detailed later.

If this option is left un-ticked the EvoTorque®2 operates in Manual Reset mode i.e. a Peak is held until the ↵ button has been pressed on the EvoTorque®2 Tool.

6. Tick **Bluetooth?** to enable Bluetooth® Smart communication with EvoLog via the Bluetooth® Smart adapter.
7. By ticking **Inverse?** the display colours change from white on black to Black on white.
8. By ticking **2 Stage Target?** the tool will need 2 trigger presses to complete a Snug & Angle Target.
9. The **Hold Time** value is the length of time a Final Reading is held for before resetting to '0'. This is greyed out if **Auto Reset?** Is left un-ticked.
10. Select the **Date Format** required by clicking on the selection box. Available formats are DD/MM/YY, MM/DD/YY or YY/MM/DD.
11. Select the **Output Format** required by clicking on the selection box. Available formats are EvoLog or User.
12. Select the **Operation Direction** for the Targets set up on the tool. The options are ↻ (clockwise only), ↺ (counter clockwise only) or ↻+↺ (both directions).
13. **Lock Level** (please see following page).



14. The **Torque Tolerance** can be set between 3 – 20%.
15. The **Angle Tolerance** can be set between 2 – 20°.
16. The **Turn Angle** can be set between 0 – 99°. 0 = disabled. The tool will not complete the tightening successfully unless the Turn Angle has been achieved.
17. The **Tool Version** is the current software version installed.
18. BLE ID : *BLE ID is used for multiple tool, multiple USB Bluetooth® Smart adapter scenarios where specific tools can be linked with specific Bluetooth® Smart adapters. The BLE ID must match the BLE ID on the Bluetooth® Smart adapter you wish to communicate with. See page 13.*

## Lock EvoTorque®2 Tool

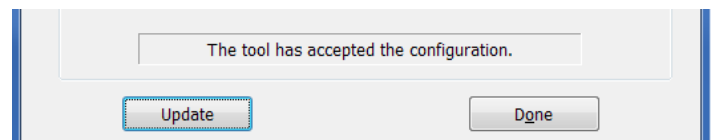
The Tool can be **Locked** to 3 different **Lock Levels** on **Tool Settings**.

- Off – Tool Unlocked.
- 1 – Tool Locked
  - No access to Tool settings, Erase results
  - Allowed to select other Targets (if populated on the tool) , but NOT allowed to change their values by holding down the Up/Down buttons.
- 2 - Tool Locked
  - Up, Down and Exit buttons disabled whilst in the Run Screen
  - Not Allowed to select other Targets with the 'Up/Down' buttons (if populated on the tool)
  - Not allowed to Exit the Run screen with the 'X' button.

To allow tool adjustment, set **Lock Level** to **Off** and **Update** the EvoTorque®2 Tool.

## Update Settings on EvoTorque®2 Tool

1. Click the **Update** button to send the Tool Settings to the EvoTorque®2 Tool. You will see the following message if the update has been successful.



2. Click **Done** to close Tool Settings and return to the EvoLog main screen.

## Reset Read Index

This option is Tool specific and can only be performed when the tool is not attached in View Tools.

When the EvoTorque®2 tool is next connected, the 'Last Synced' date will be shown as 'Never'.

This should only be selected if you are experiencing loss of data transfer between the EvoTorque®2 and EvoLog using either USB or Bluetooth® Smart data transfer.

Serial Number	Name	Last Synced
000000000000		Never
2016/PROT27V2	Prototype27v2	Never
2016/PROT1V2		Never
2016/PROT26V	Notes	Never
2016C10179	Settings	Never
2016C12345	Reset Read Index	Never
	Clean	

Every piece of test data EvoTorque®2 stores has a unique id in increasing values. So that only the latest data is transferred, EvoLog only requests test values with an id greater than the one it last read for that EvoTorque®2 serial number.

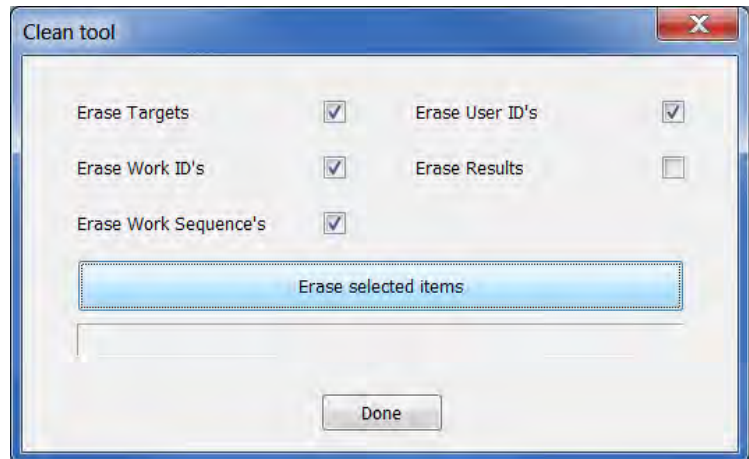
When you do a reset, the read id is set to zero so all future test data is transferred. However it also stores the test id and won't duplicate data it already has stored.

**TIP:** If you have already synchronized EvoTorque®2 to EvoLog and select **Reset Read Index**, the next time that you synchronize with EvoLog, some data may be duplicated.

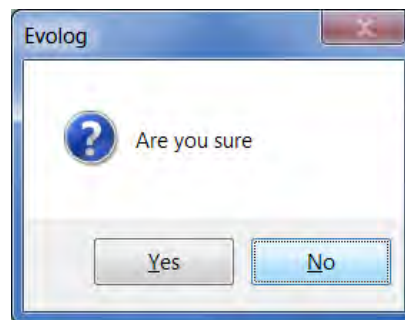
## Clean

Use this option to Erase data currently stored on the tool.

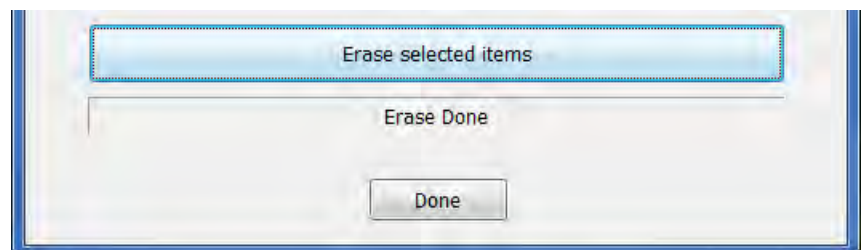
- 1) Tick the box(s) next to the **data** you wish to be **erased** from the tool and right click the **Erase selected items** button.



- 2) Left click the **Yes** button.



- 3) Confirmation that the action has been performed.

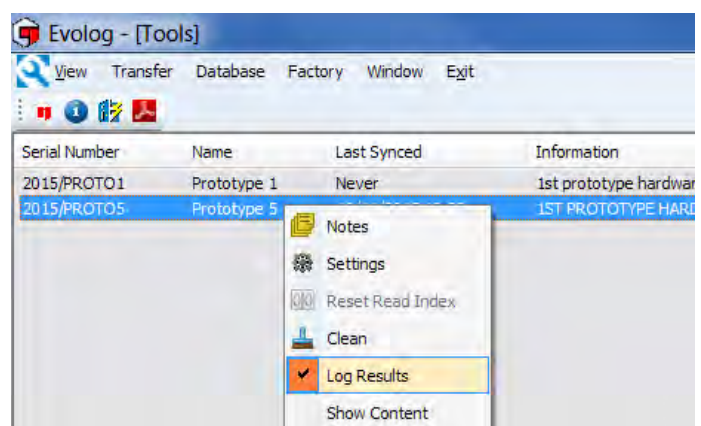


- 4) Left click the **Done** button.

## Log Results

**Results** can be **sent** from the EvoTorque®2 Tool to EvoLog via the **Log Results** option. This will send individual test results as they happen in real time.

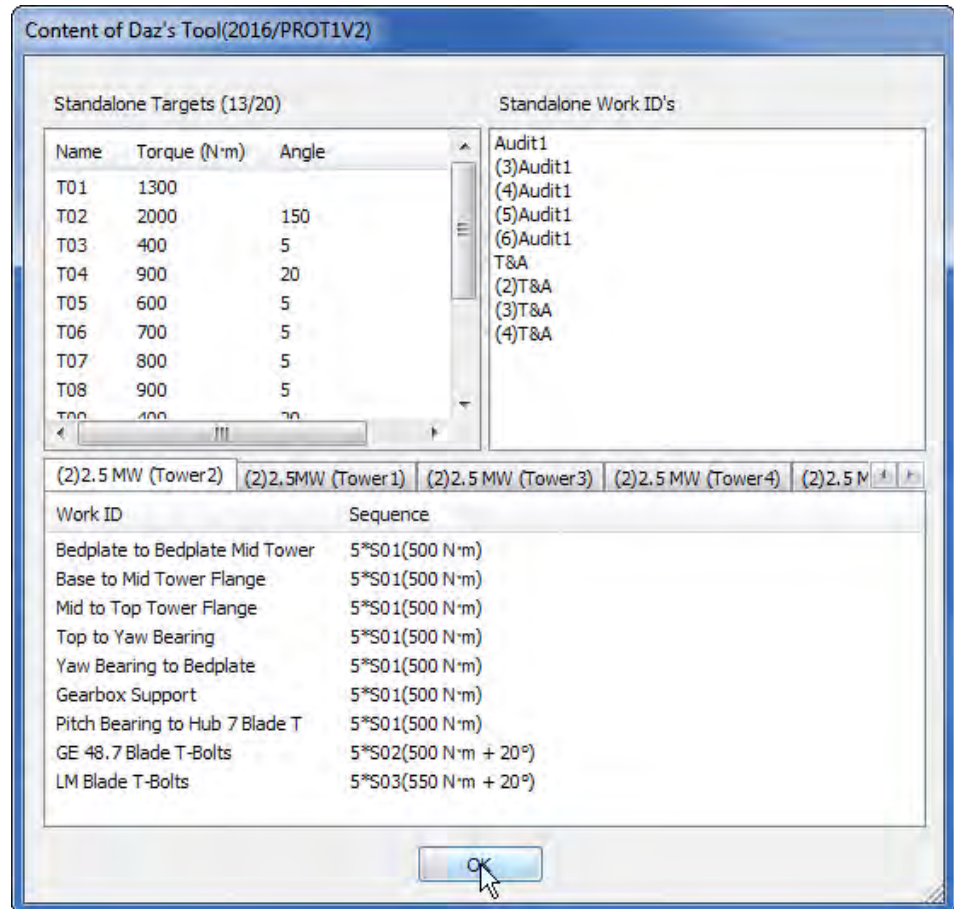
- The Save icon goes red, Bluetooth® Smart icon goes green.
- Click on **Log Results** again to turn off



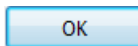


## Show Content

This **shows** all of the standalone **Targets**, **Work ID's** and **Work Groups** that are currently on the **tool**.

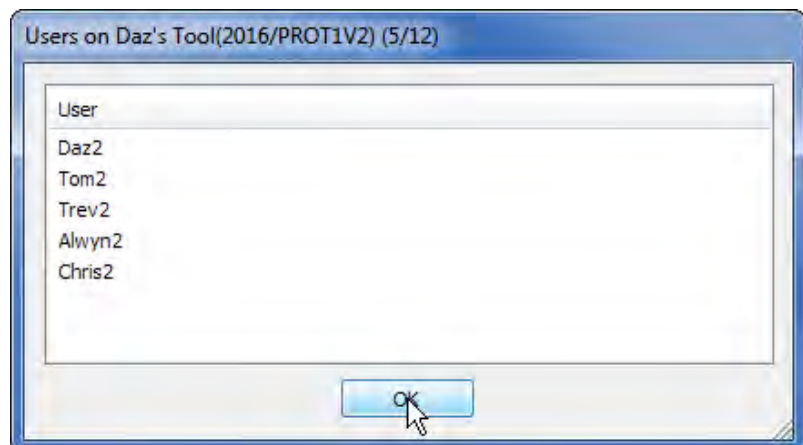


Left click the

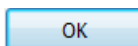


## Show User ID's

This **shows** all of the **User ID's** that are currently on the **tool** for selection.



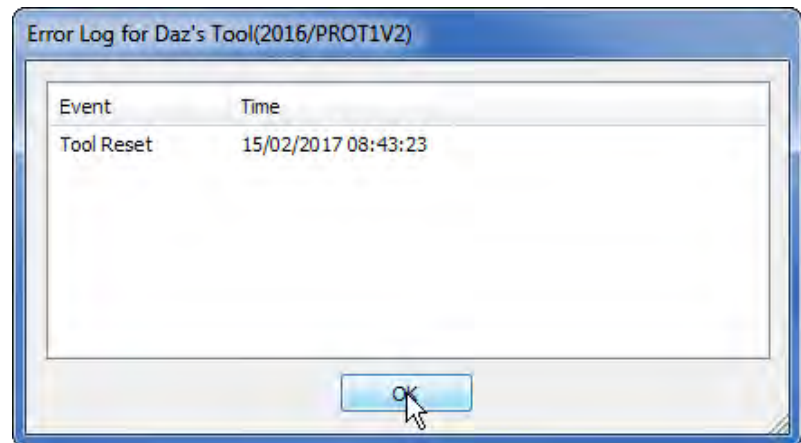
Left click the



button.

## Show Error Log

This option **shows** the time and date stamped **log** of all of the **error conditions** the **tool** has experienced.



Left click the  button.

## Show Statistics

This option **shows** how the **tool** is being **used** i.e. Number of successful joints plus the number of errors the tool has experienced.

The tool also shows the tools trip data i.e. how much the tool has been used since the date the trip counter was last reset.

Item	Count (All Time)	Since 2017-02-15 16:18:22
Cycles 10%-50%	63	40
Cycles 51%-80%	6	5
Cycles 81%-100%	2	0
Over Voltage	0	0
Over Current	0	0
Over Temp. (M)	0	0
Over Temp. (D)	0	0

Left click the  button.

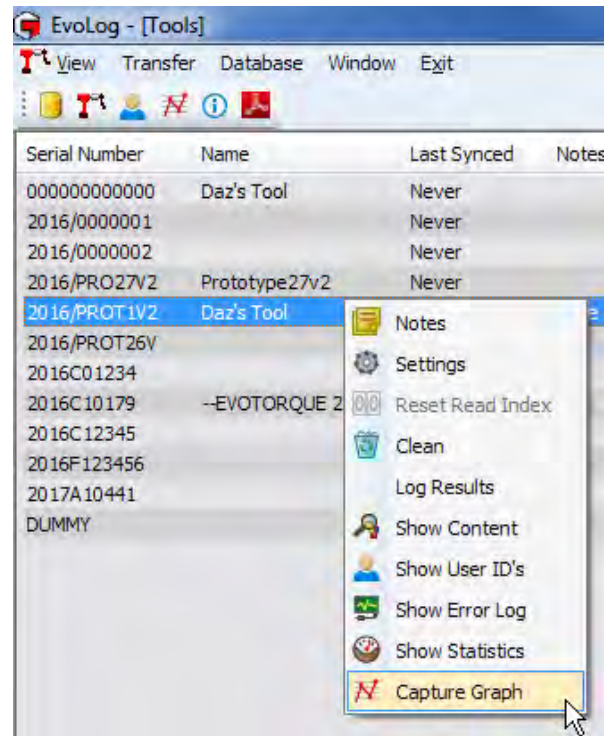
## Capture Graph

Graphs can be captured from a USB or Bluetooth connected tool.

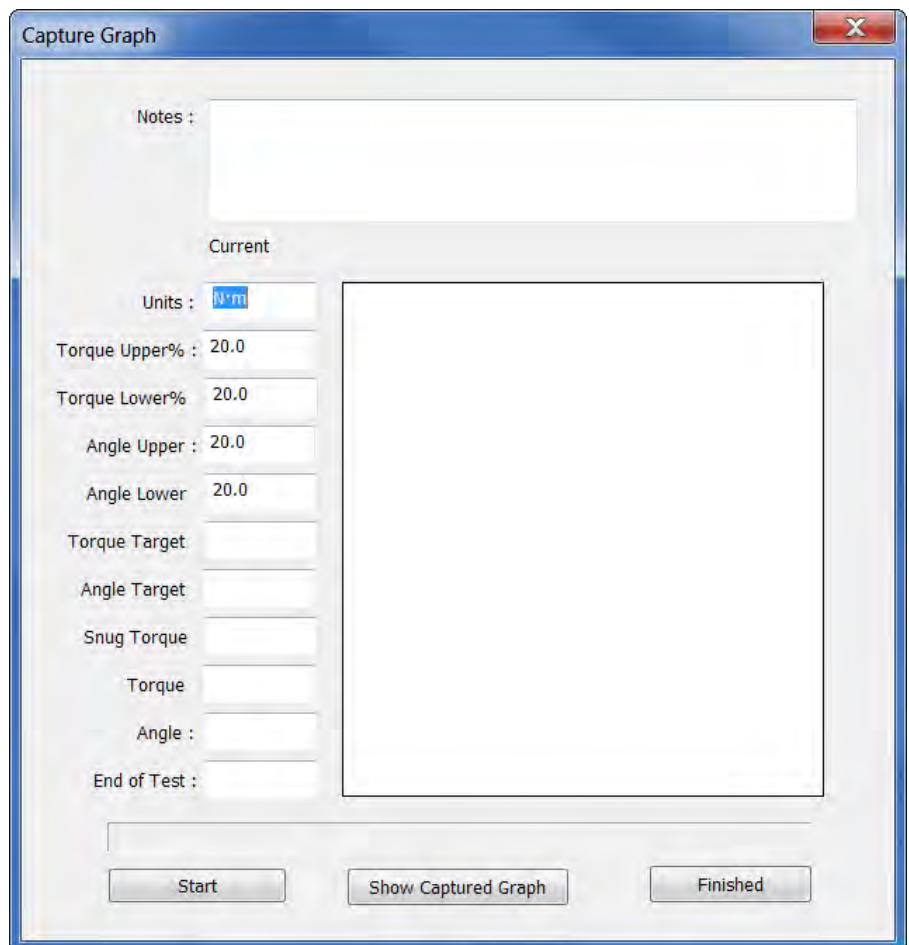
Graphs can be captured in 2 ways, either associated (or not associated) with a Work ID.

### Graph Not Associated with a Work ID.

- 1) From the Tools drop down, select 'Capture Graph'.



- 2) Type in the 'Notes' entry box if required.



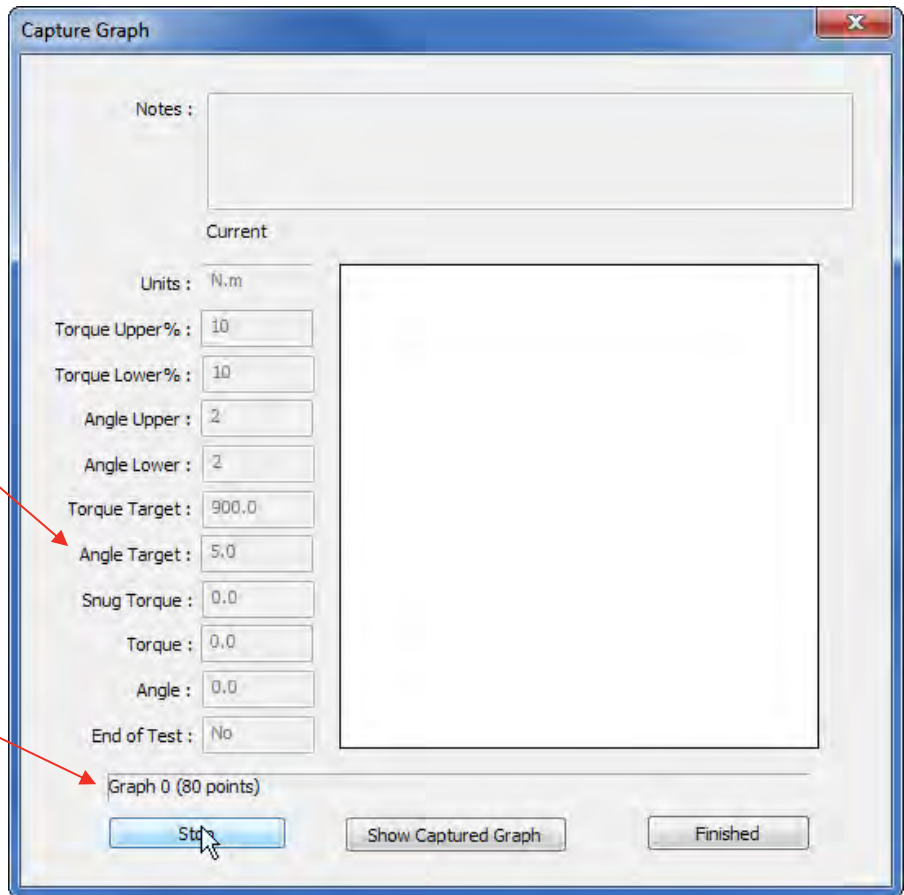
- 3) Click the 'Start' button.

- 4) Pull the Trigger on the tool (to start the tightening).

- 5) The Target entry boxes on the left of Capture Graph box will be populated with the current Target on the tool.

- 6) The Graph points will increase as the graph is being taken. A Graph preview will also be displayed.

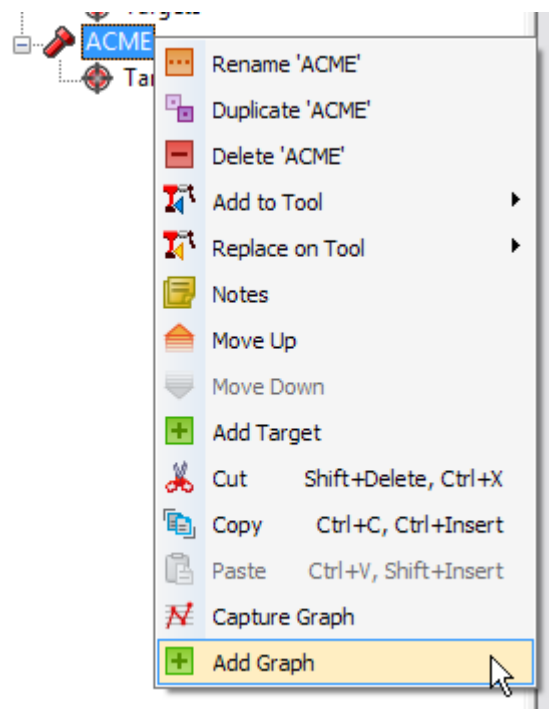
- 7) When you have finished, click the 'Stop' button.



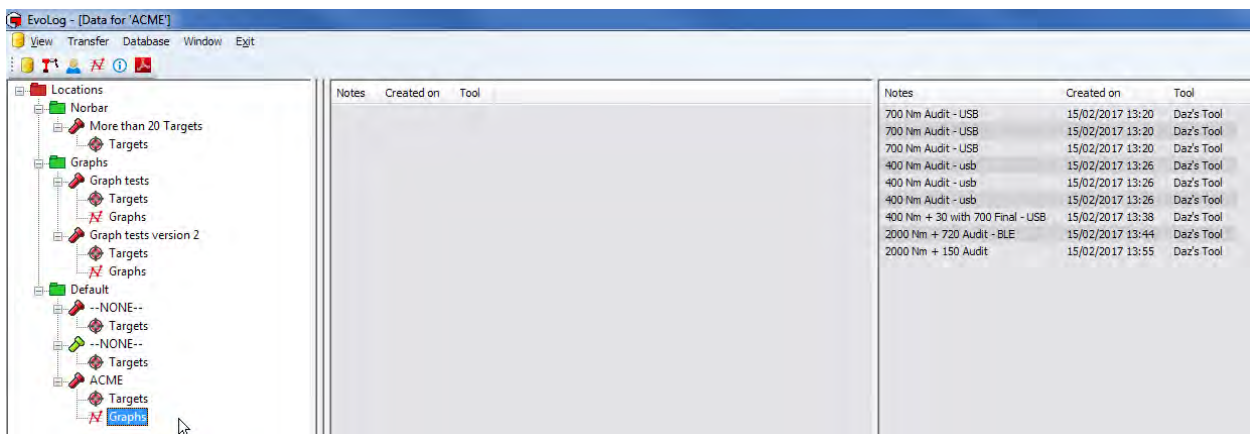
- 8) To View the Graph, click the 'Show Captured Graph' button or click the 'Finished' button.

### Graph Associated with a Work ID.

- 1) In the Tree View, right click on a Work ID and click on Add Graph (if the Work ID has no previous graphs associated).

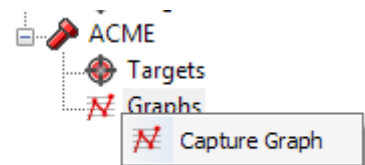


- Click on the Graphs icon to bring up the Graphs View. Graphs shown in the middle pane are associated with the Work ID and Graphs shown in the right hand pane have no associated Work ID.

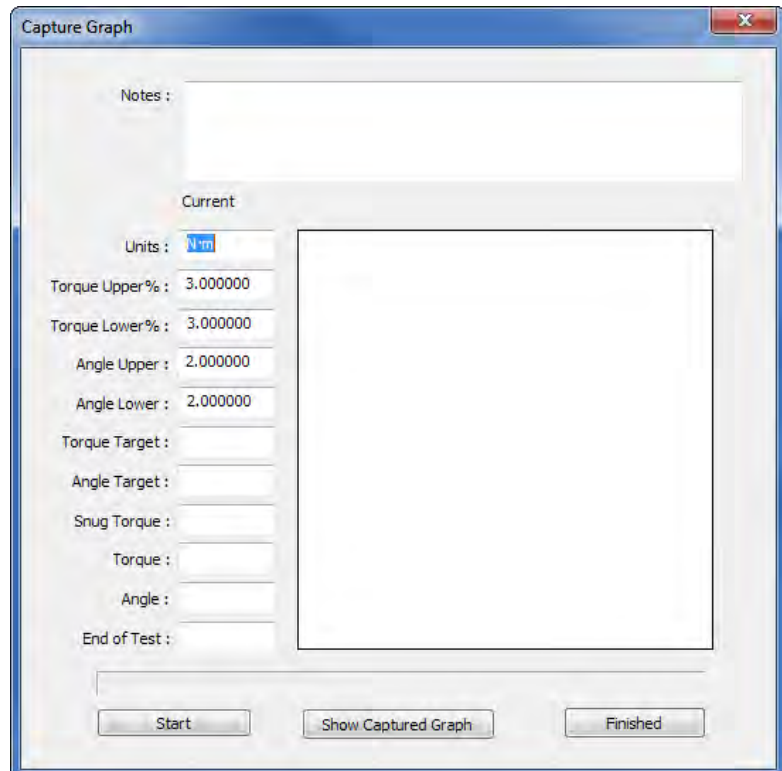


- Graphs can be dragged from the right hand pane to the middle pane to associate them with that Work ID. Graphs can also be dragged from the middle pane to the right hand pane to un-associate them from a Work ID.

- Right Click on the Graph icon in the tree to enable Capture Graph.



- Click on Capture Graph and follow steps 2 – 8 on page 57 & 58.



# DATA

## View Work ID / Work Group Test Results

Left Click on a Work ID or Work Group in the left hand tree structure.

## Sort (oldest first) / Sort (newest first)

Data is sorted by Time & Date (oldest first) by default.


## Create Report

- 1) Highlight the Results for which the Report is to be created.

**TIP:** Use CTRL + Click or Shift + Click to select specific data or use CTRL + A to select all the data. Reports are customised to only show the selected (highlighted) data.

Work ID	Time	User	Tool	Audit ?
Bedplate to Bedplate Mid Tower	09/03/2016 10:46:44	Darren Gulliver	2016/PROT1V2	No
Bedplate to Bedplate Mid Tower	09/03/2016 10:47:01	Darren Gulliver	2016/PROT1V2	No
Bedplate to Bedplate Mid Tower		Darren Gulliver	2016/PROT1V2	No
Bedplate to Bedplate Mid Tower		Darren Gulliver	2016/PROT1V2	No
Base to Mid Tower Flange		Darren Gulliver	2016/PROT1V2	No
Base to Mid Tower Flange		Darren Gulliver	2016/PROT1V2	No
Base to Mid Tower Flange		Darren Gulliver	2016/PROT1V2	No
Base to Mid Tower Flange		Darren Gulliver	2016/PROT1V2	No
Base to Mid Tower Flange		Darren Gulliver	2016/PROT1V2	No
Mid to Top Tower Flange		Darren Gulliver	2016/PROT1V2	No
Mid to Top Tower Flange		Darren Gulliver	2016/PROT1V2	No
Mid to Top Tower Flange		Darren Gulliver	2016/PROT1V2	No
Mid to Top Tower Flange		Darren Gulliver	2016/PROT1V2	No
Mid to Top Tower Flange	09/03/2016 10:51:16	Darren Gulliver	2016/PROT1V2	No
Top to Yaw Bearing	09/03/2016 10:51:39	Darren Gulliver	2016/PROT1V2	No
Top to Yaw Bearing	09/03/2016 10:52:02	Darren Gulliver	2016/PROT1V2	No

- 2) Right click on the highlighted Results and left click Create Report on the drop down menu.

 <span style="float: right;">Page 1 / 2</span>											
Location : Norbar											
Wildmere Road Banbury Oxfordshire OX163JU											
Project : 2.5 MW Units											
Line #	Work ID	Work Group	User ID	Date	Audit ?	Target	Direction	Angle	Torque	Pass/Fail	Tool Serial #
1	Bedplate to Bedplate Mid Tower	2.5MW (Tower1)	Daz	09/03/2016 10:46:44	No	- 500	CW		499 N-m	Pass	2016/PROT1V2
2	Bedplate to Bedplate Mid Tower	2.5MW (Tower1)	Daz	09/03/2016 10:47:01	No	- 500	CW		501 N-m	Pass	2016/PROT1V2
3	Bedplate to Bedplate Mid Tower	2.5MW (Tower1)	Daz	09/03/2016 10:47:21	No	- 500	CW		501 N-m	Pass	2016/PROT1V2
4	Bedplate to Bedplate Mid Tower	2.5MW (Tower1)	Daz	09/03/2016 10:47:44	No	- 500	CW		500 N-m	Pass	2016/PROT1V2
5	Bedplate to Bedplate Mid Tower	2.5MW (Tower1)	Daz	09/03/2016 10:48:03	No	- 500	CW		506 N-m	Pass	2016/PROT1V2
6	Base to Mid Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:48:34	No	- 500	CW		505 N-m	Pass	2016/PROT1V2
7	Base to Mid Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:48:50	No	- 500	CW		504 N-m	Pass	2016/PROT1V2
8	Base to Mid Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:49:07	No	- 500	CW		500 N-m	Pass	2016/PROT1V2
9	Base to Mid Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:49:23	No	- 500	CW		507 N-m	Pass	2016/PROT1V2
10	Base to Mid Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:49:41	No	- 500	CW		505 N-m	Pass	2016/PROT1V2
11	Mid to Top Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:50:06	No	- 500	CW		504 N-m	Pass	2016/PROT1V2
12	Mid to Top Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:50:24	No	- 500	CW		504 N-m	Pass	2016/PROT1V2
13	Mid to Top Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:50:42	No	- 500	CW		501 N-m	Pass	2016/PROT1V2
14	Mid to Top Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:50:58	No	- 500	CW		504 N-m	Pass	2016/PROT1V2
15	Mid to Top Tower Flange	2.5MW (Tower1)	Daz	09/03/2016 10:51:16	No	- 500	CW		500 N-m	Pass	2016/PROT1V2
16	Top to Yaw Bearing	2.5MW (Tower1)	Daz	09/03/2016 10:51:39	No	- 500	CW		502 N-m	Pass	2016/PROT1V2
17	Top to Yaw Bearing	2.5MW (Tower1)	Daz	09/03/2016 10:52:02	No	- 500	CW		503 N-m	Pass	2016/PROT1V2
18	Top to Yaw Bearing	2.5MW (Tower1)	Daz	09/03/2016 10:52:22	No	- 500	CW		505 N-m	Pass	2016/PROT1V2
19	Top to Yaw Bearing	2.5MW (Tower1)	Daz	09/03/2016 10:53:44	No	- 500	CW		502 N-m	Pass	2016/PROT1V2
20	Top to Yaw Bearing	2.5MW (Tower1)	Daz	09/03/2016 10:54:02	No	- 500	CW		507 N-m	Pass	2016/PROT1V2
21	Yaw Bearing to Bedplate	2.5MW (Tower1)	Daz	09/03/2016 10:54:22	No	- 500	CW		507 N-m	Pass	2016/PROT1V2
22	Yaw Bearing to Bedplate	2.5MW (Tower1)	Daz	09/03/2016 10:54:40	No	- 500	CW		513 N-m	Pass	2016/PROT1V2

## View Statistics

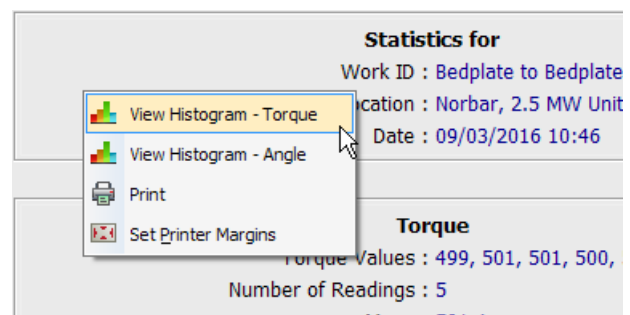
- 1) Right click on the required **Work ID** in the left hand pane.
- 2) **Select** the **Test Results** you want to **View Statistics** for by left clicking on the first one then holding down shift and left clicking on the last one you wish to analyse. Use CTRL + A to select all results.

Time	User	Tool
09/03/2016 10:46:44	Darren Gulliver	2016/PROT1V2
09/03/2016		2016/PROT1V2
09/03/2016		2016/PROT1V2
09/03/2016		2016/PROT1V2
09/03/2016		2016/PROT1V2

- 3) Right click on the **Test Results** window and left click on **View Statistics** on the drop down menu.



- 4) Right click on the statistics results and left click on either **View Histogram – Torque**, **View Histogram – Angle**, **Print** or **Set Printer Margins**.



**TIP:** Statistics can be viewed for Torque values taken with or without a valid Target, but all Test Results must share the same Target value.

## SPC Calculations

Term	Mathematical equation	Comment
Mean	Sum of results / N	This is the average result.
Maximum		The largest result.
Minimum		The smallest result.
No readings		The number of readings
Sigma	The square root of: $\Sigma(\text{reading-mean})^2 / (N-1)$	Also known as standard deviation, this shows how close together the readings are.
Cp (3 sigma)	$(USL - LSL) / 6 \text{ sigma}$	This is the capability index, showing the process capability potential. It takes no account of how centred the process is. A value of 1.33 or more is desirable.
Cpk (3 Sigma)	lesser of: $(USL - \text{mean}) / 3 \text{ sigma}$ or $(\text{mean} - LSL) / 3 \text{ sigma}$	This indicates whether the process will produce units within tolerance. If the process is centred on the nominal value then Cpk will have a value equal to Cp. A negative value shows mean is outside tolerance. A value of 1.33 or more is desirable.
Cp (6 sigma)	$(USL - LSL) / 12 \text{ sigma}$	This is the capability index, showing the process capability potential. It takes no account of how centred the process is.
Cpk (6 Sigma)	lesser of: $(USL - \text{mean}) / 6 \text{ sigma}$ or $(\text{mean} - LSL) / 6 \text{ sigma}$	This indicates whether the process will produce units within tolerance. If the process is centred on the nominal value then Cpk will have a value equal to Cp. A negative value shows mean is outside tolerance.

**TIP:** **USL=Upper set limit**  
**LSL=Lower set limit**  
**N=Number of results**

The SPC calculations depend on the number of results selected and if a Target with limits was used.

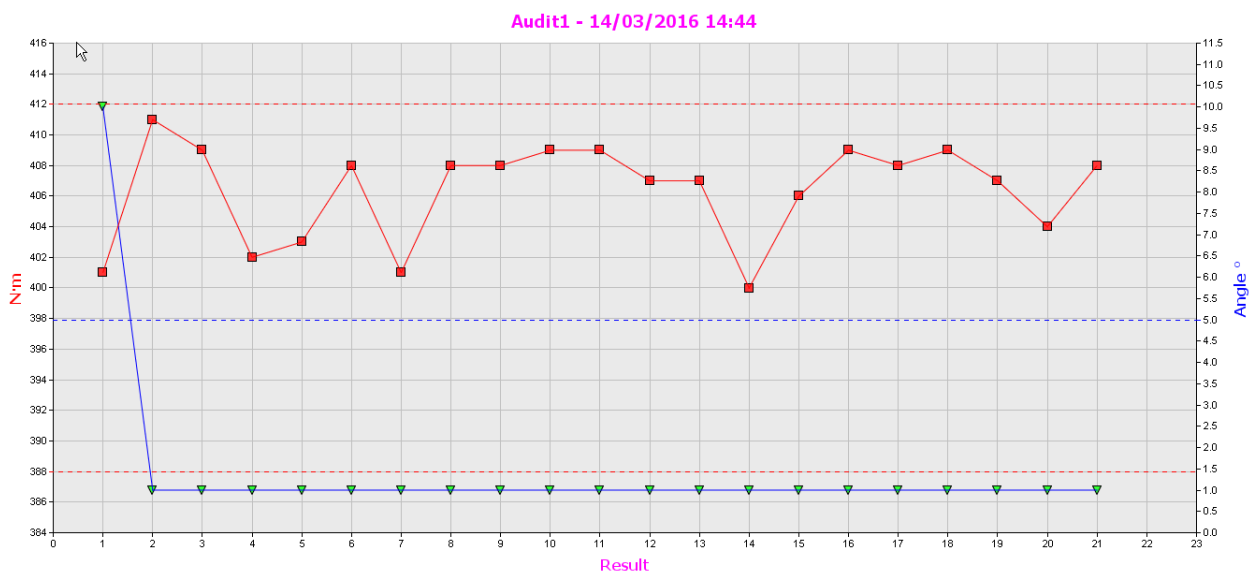


## View Data Graph(s)

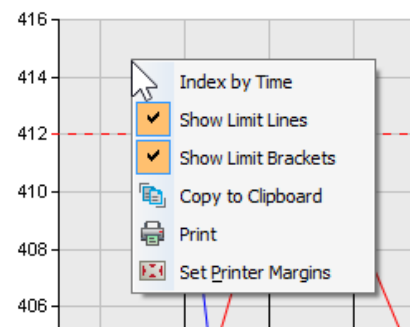
- 1) Left click on a **Work Id** or **Work Group** in the left hand pane.
- 2) Select the **Test Results** you want to view Graph for by left clicking on the first one then holding down shift and left clicking on the last one you wish to produce a graph for.

Time	User	Tool	Audit ?	Torque	Units	Angle	Pass/Fail	Direction	Target
14/03/2016 14:44:47	Thomas Bushnell	2016/PROT1V2	Yes	401	N·m	10	Fail	↻	400 (5°)
14/03/2016 14:44:48	Thomas Bushnell	2016/PROT1V2	Yes	411	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:49	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:50	Thomas Bushnell	2016/PROT1V2	Yes	402	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:51	Thomas Bushnell	2016/PROT1V2	Yes	403	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:52	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:53	Thomas Bushnell	2016/PROT1V2	Yes	401	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:54	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:55	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:56	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:57	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:58	Thomas Bushnell	2016/PROT1V2	Yes	407	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:59	Thomas Bushnell	2016/PROT1V2	Yes	407	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:00	Thomas Bushnell	2016/PROT1V2	Yes	400	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:25	Thomas Bushnell	2016/PROT1V2	Yes	400	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:28	Thomas Bushnell	2016/PROT1V2	Yes	406	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:31	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)

- 3) Right click on the Test Results window and left click on **View Graph**.



- 4) Right click on the graph to show a drop down where you can select **Index by Time**, **Show Limit Lines**, **Show Limit Brackets**, **Copy to Clipboard**, **Print** or **Set Printer Margins**.

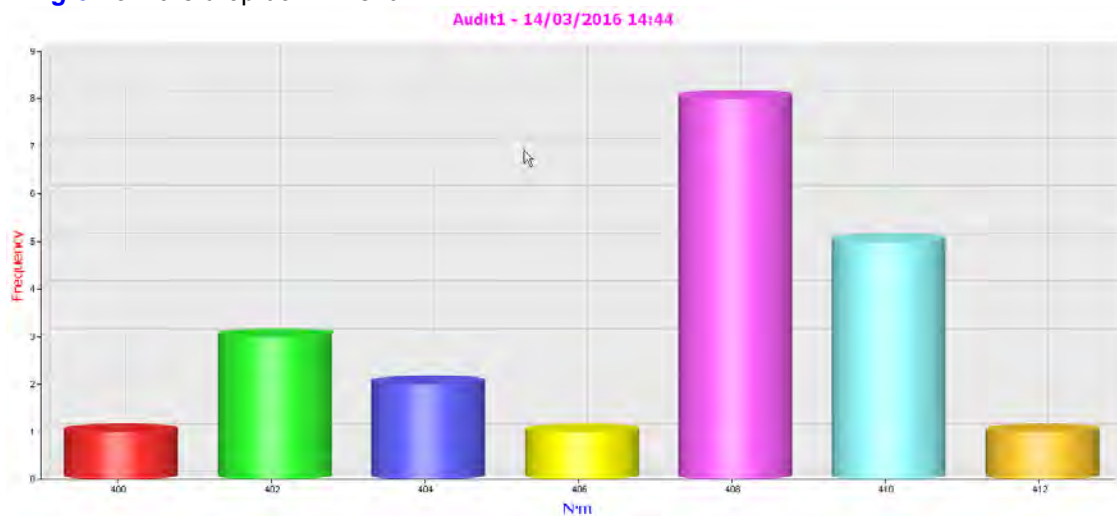


## View Histogram(s)

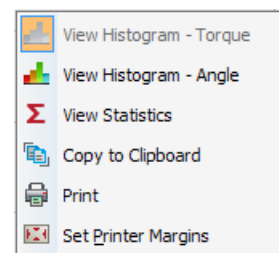
- 1) Left click on a **Work Id** or **Work Group** in the left hand pane.
- 2) Select the Test Results you want to view Histogram for by left clicking on the first one then holding down shift and left clicking on the last one you wish to analyse.

Time	User	Tool	Audit ?	Torque	Units	Angle	Pass/Fail	Direction	Target
14/03/2016 14:44:47	Thomas Bushnell	2016/PROT1V2	Yes	401	N·m	10	Fail	↻	400 (5°)
14/03/2016 14:44:48	Thomas Bushnell	2016/PROT1V2	Yes	411	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:49	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:50	Thomas Bushnell	2016/PROT1V2	Yes	402	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:51	Thomas Bushnell	2016/PROT1V2	Yes	403	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:52	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:53	Thomas Bushnell	2016/PROT1V2	Yes	401	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:54	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:55	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:56	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:57	Thomas Bushnell	2016/PROT1V2	Yes	407	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:44:58	Thomas Bushnell	2016/PROT1V2	Yes	407	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:25	Thomas Bushnell	2016/PROT1V2	Yes	400	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:28	Thomas Bushnell	2016/PROT1V2	Yes	406	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:31	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:33	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:36	Thomas Bushnell	2016/PROT1V2	Yes	409	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:39	Thomas Bushnell	2016/PROT1V2	Yes	407	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:42	Thomas Bushnell	2016/PROT1V2	Yes	404	N·m	1	Pass	↻	400 (5°)
14/03/2016 14:45:45	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m	1	Pass	↻	400 (5°)

- 3) Right click on the Test Results window and left click on **View Histogram – Torque** or **View Histogram – Angle** from the drop down menu.



- 4) Left click on the histogram to bring up the extra options **View Histogram - Angle, View Statistics, Copy to Clipboard, Print or Set Printer Margins**.

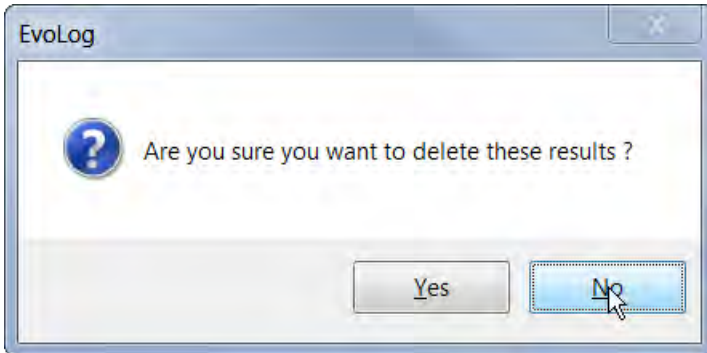


## Copy to Clipboard

This function is used to copy Graphs and Histograms and paste them into Microsoft applications like Word, Excel etc.

## Delete Results

You will then see the following pop up.



## Copy (Results)

This function gives the ability to copy Results data and paste into other Microsoft applications like Word, Excel etc.

## Assign User / Unassign User

This is where you can Add / Change or Remove a User associated with results transferred from a tool. This option is only available if you right click in the User column of the Results pane.

This option can be password protected. See Settings on page 13

Time	User	Tool	Audit ?	Torque	Units
14/03/2016 14:44:47	Thomas Bushnell	2016/PROT1V2	Yes	401	N·m
14/03/2016 14:44:50	Thom			411	N·m
14/03/2016 14:44:53	Thom			409	N·m
14/03/2016 14:44:57	Thom			402	N·m
14/03/2016 14:45:00	Thomas Bushnell	2016/PRC		403	N·m
14/03/2016 14:45:03	Thomas Bushnell	2016/PRC		408	N·m
14/03/2016 14:45:06	Thomas Bushnell	2016/PRC		401	N·m
14/03/2016 14:45:09	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m
14/03/2016 14:45:12	Thomas Bushnell	2016/PROT1V2	Yes	408	N·m

## Assign/Unassign Target Name

This is where you can Add / Change or Remove a Target Name associated with results transferred from a tool. This option is only available if you right click in the Target column of the Results pane.

This option can be password protected. See Settings on page 13

Time	User	Tool	Audit ?	Torque	Units	Angle	Pass/Fail	Direction	Target	Lower %	Upper %	Lower °	Upper °
21/03/2016 10:52:55	Darren Gulliver	2016/PROT1V2	Yes	712	N·m	3	Pass	⌚	700 (5°)				
21/03/2016 10:52:51	Darren Gulliver	2016/PROT1V2	Yes	711	N·m	3	Pass	⌚	700 (5°)				
21/03/2016 10:52:47	Darren Gulliver	2016/PROT1V2	Yes	713	N·m	3	Pass	⌚	700 (5°)				
21/03/2016 10:52:43	Darren Gulliver	2016/PROT1V2	Yes	704	N·m	3	Pass	⌚	700 (5°)	3	3	2	2
21/03/2016 10:52:35	Darren Gulliver	2016/PROT1V2	Yes	715	N·m	3	Pass	⌚	700 (5°)	3	3	2	2
21/03/2016 10:52:30	Darren Gulliver	2016/PROT1V2	Yes	706	N·m	3	Pass	⌚	700 (5°)	3	3	2	2
21/03/2016 10:52:23	Darren Gulliver	2016/PROT1V2	Yes	699	N·m	3	Pass	⌚	700 (5°)	3	3	2	2
21/03/2016 10:52:16	Darren Gulliver	2016/PROT1V2	Yes	713	N·m	3	Pass	⌚	700 (5°)	3	3	2	2

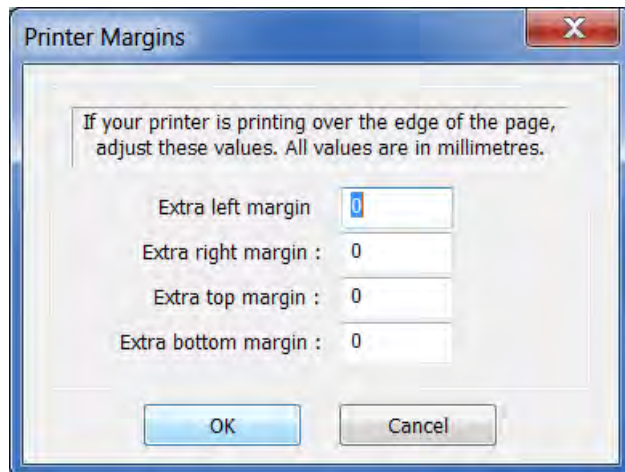
# SET PRINTER MARGINS

To ensure compatibility with different printers where printouts of reports do not fit on the page:

- 1) Left Click on the **Report** view.

ID	Work ID	Work Sequence	DRG	Date/Time	Yes	=	Value	Unit	Pass	2015/PROTO5		
4	Work ID 1 x3	Work Sequence 1		01/10/2015 11:26:36	Yes	=	400	CW	3	435 N-m	Pass	2015/PROTO5
5	Work ID 1 x3	Work Sequence 1		01/10/2015 11:26:56	Yes	=	400	CW	3	442 N-m	Pass	2015/PROTO5
6	Work ID 1 x3	Work Sequence 1		01/10/2015 11:27:14	Yes	=	400	CW	3	438 N-m	Pass	2015/PROTO5
7	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 15:54:33	Yes	=	400	CW	3	438 N-m	Pass	2015/PROTO5
8	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 15:55:01	Yes	=	400	CW	3	442 N-m	Pass	2015/PROTO5
9	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 15:55:20	Yes	=	400	CW	3	431 N-m	Pass	2015/PROTO5
10	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 16:07:16	Yes	=	-400	CCW	3	440 N-m	Pass	2015/PROTO5
11	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 16:07:34	Yes	=	-400	CCW	3	463 N-m	Pass	2015/PROTO5
12	Work ID 1 x3	Work Sequence 1	DRG	06/10/2015 16:07:53	Yes	=	-400	CCW	3	447 N-m	Pass	2015/PROTO5
13	Work ID 1 x3	Work Sequence 1	MH	08/10/2015 09:55:57	Yes	=	400	CW	3	432 N-m	Pass	2015/PROTO5
14	Work ID 1 x3	Work Sequence 1	MH	08/10/2015 09:56:25	Yes	=	400	CW	3	435 N-m	Pass	2015/PROTO5
15	Work ID 1 x3	Work Sequence 1	MH	08/10/2015 09:56:43	Yes	=	400	CW	3	432 N-m	Pass	2015/PROTO5
16	Work ID 1 x3	Work Sequence 1	DRG	13/10/2015 09:06:37	Yes	=	400	CW	3	440 N-m	Pass	2015/PROTO5
17	Work ID 1 x3	Work Sequence 1	DRG	13/10/2015 09:06:56	Yes	=	400	CW	3	417 N-m	Pass	2015/PROTO5
18	Work ID 1 x3	Work Sequence 1	DRG	13/10/2015 09:07:17	Yes	=	400	CW	3	416 N-m	Pass	2015/PROTO5

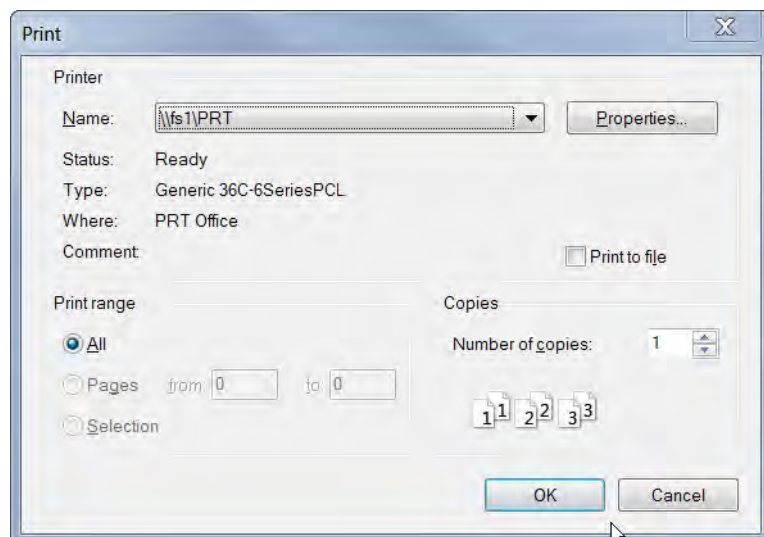
- 2) Left click **Set Printer Margins**.



- 3) Click in each box and type in desired value.

# PRINT

Choose the required printer, then left click the **OK** button.



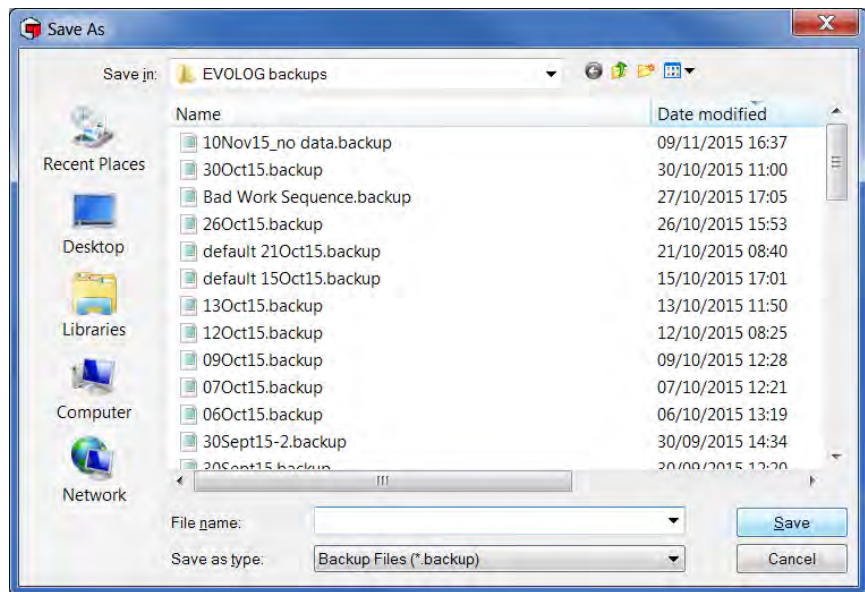
# DATABASE

## Backup Database

- 1) All data can be backed up to a specified location on your PC specified by left clicking **Database** and then left clicking **Backup**.

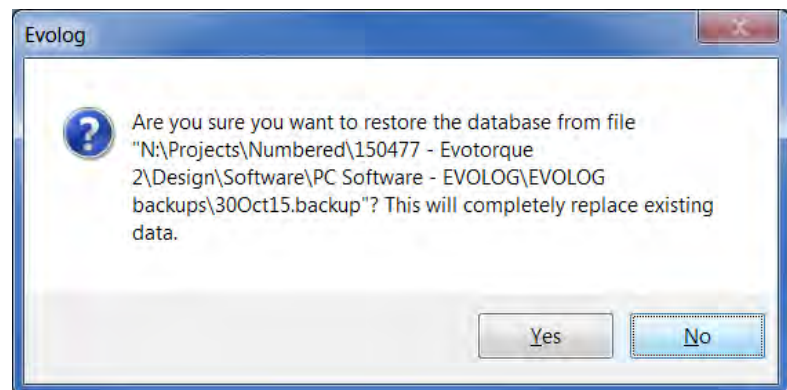


- 2) Type in the **backup file name** and left click the **Save** button.

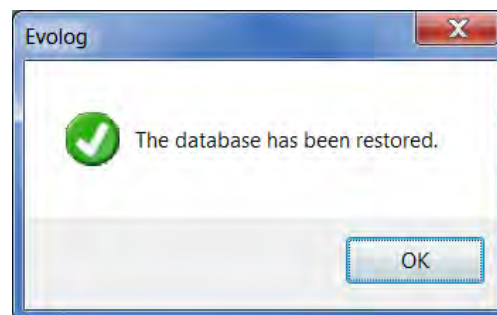


## Restore Database

- 1) Data can be restored by left clicking **Database** and then left clicking **Restore**, select the **backup file** and then left click the **Open** button.



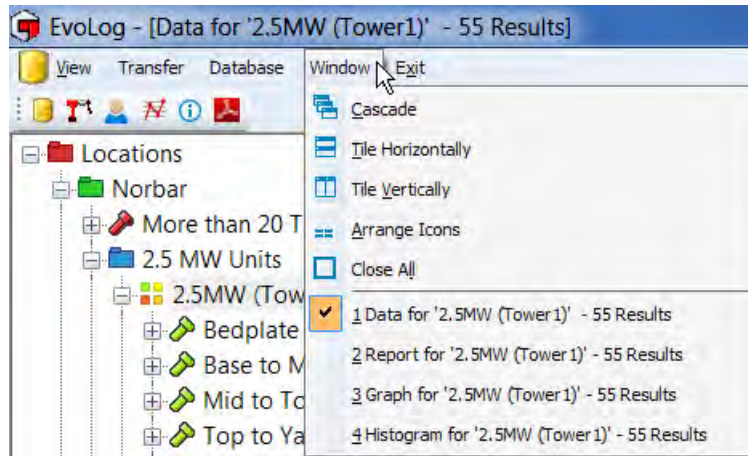
- 2) Left click the **Yes** button.



- 3) Left click the **OK** button.

# WINDOW

Left click the **Window** tab on the EvoLog toolbar, and then left click on desired window option. These options are intended for use when multiple windows are open so that they can be viewed simultaneously.



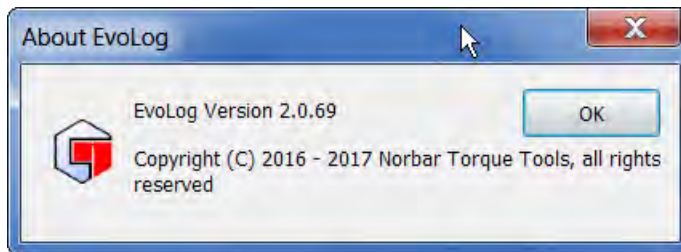
## Currently Open Windows

This is shown on the bottom of the expanded Window menu. Click on (select) a currently open window to display that window at the front.

# ABOUT EVOLOG

Left click on the information icon  on the EvoLog shortcut bar.

This will show the version number of the software.



Left click **OK** to cancel.

## TROUBLE SHOOTING

Problem	Likely Solutions
EvoLog displays <b>No tools attached</b> and will NOT attach to EvoTorque <sup>®</sup> 2 tools. <b>USB connection.</b>	<ul style="list-style-type: none"> <li>a) Unplug the USB lead, wait at least 10 seconds and re-insert whilst EvoLog has been launched and EvoTorque<sup>®</sup>2 is displaying the Measure screen (Hot-Plug).</li> <li>b) Ensure that you disconnect from USB correctly before removing the lead. Click on 'Safely Remove Hardware' in the bottom right hand corner of your desktop if this option is available to you.</li> <li>c) Ensure 'Output Format' is set to 'EvoLog' on the tool.</li> </ul>
EvoLog displays <b>No tools attached</b> and will NOT attach to EvoTorque <sup>®</sup> 2 tools. <b>Bluetooth<sup>®</sup> Smart connection.</b>	Ensure the Bluetooth <sup>®</sup> Smart interface has been enabled. See the EvoTorque <sup>®</sup> 2 tool Setup section in EvoTorque <sup>®</sup> 2 Manual part # 34426.
Data does not transfer between EvoTorque <sup>®</sup> 2 and EvoLog	<ul style="list-style-type: none"> <li>a) After installing new EvoTorque<sup>®</sup>2 software and perhaps EvoLog software, if you restore an earlier backup of EvoLog and then take some new data on the EvoTorque<sup>®</sup>2, the data will NOT get transferred to EvoLog. You will have to use "<b>Reset Test Data Read Index</b>" before synchronizing.</li> <li>b) The user must wait at least 10 seconds after saving the last result to the tool and synchronizing with EvoLog.</li> </ul>
Multiple tools will not connect	Ensure EvoLog has recognised the 1 <sup>st</sup> tool before trying to connect the 2 <sup>nd</sup> etc
EvoTorque <sup>®</sup> 2 Target & Setup cannot be accessed and beep when selected.	The Lock option has been downloaded to the tool from EvoLog. To allow Target and Setup changes to be made on the tool, start 'EvoLog' and then un-tick the 'Lock' option on the 'Tool Settings' screen and click 'Update'.
Password protection does not work	Close and reopen EvoLog.

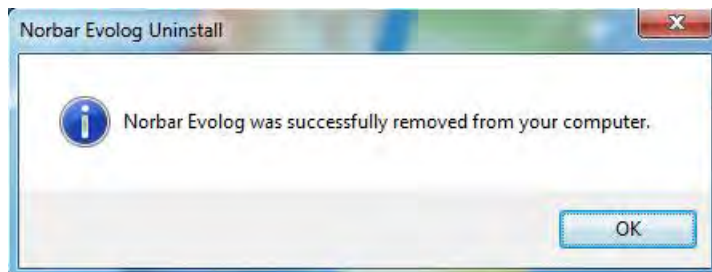
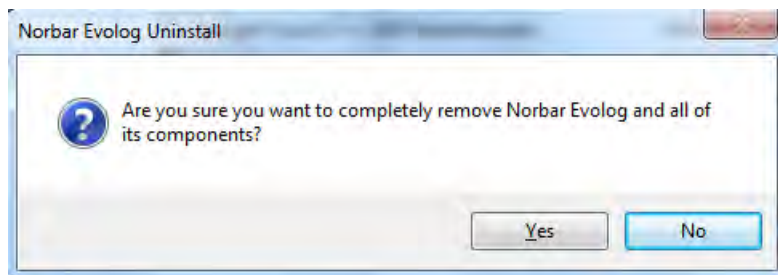
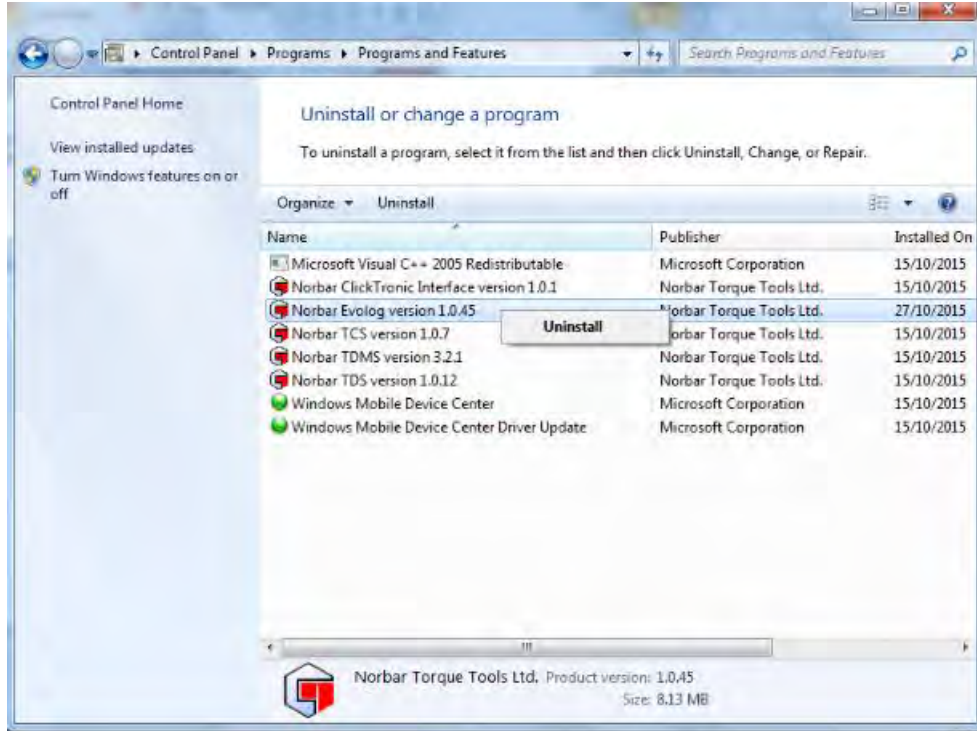
## GLOSSARY OF TERMS

Word or Term	Meaning
Audit	Checking a pre-tightened joint.
Auto reset	
Bi-directional	Clockwise and Counter Clockwise
EvoLog	Software supplied with EvoTorque <sup>®</sup> 2 for data comparison and tool setting
EvoTorque <sup>®</sup> 2	Product Name
Fastener	Bolt or stud to be tightened
Record	A memory location. A Work Group, Work ID, User ID or Result saved in the tools memory.
Target	The Torque, Torque & Angle or Audit Torque that the tool is set to achieve (when active).
Snug and Angle	Applies a torque first and then an angle after.
Turn Angle	Minimum angle of rotation of a Torque only fastener
User ID	Identification of the person using the tool.
Work ID	Identification of a group of Results.
Work Group	Specific group of a number of Work IDs and Targets.

# UNINSTALLING EVOLOG

Essentially the same screens will be seen for Windows® XP, 7, 8.1 & 10

Go to Control Panel – Programs and Features– Select Norbar EvoLog version 1.0.X – Click ‘Uninstall’ and then click ‘Yes’ to confirm you want to un-install EvoLog.



Click **OK**.



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