Setup locking overview

When a device is supplied as a series specified component, the championship organiser or a manufacturer to lock setup items and channels for a team, customer, or other user groups. The **Setup Locking** node is used to configure what is hidden from the end user.

The **Setup Locking** node is made available with a manufacturer 'key' – a software license or a physical dongle. Contact sales@cosworth.com to request a quote.

The **Setup Locking** node contains two menus: **Setup Locking** and **User Groups**.

Setup Locking menu

The **Setup Locking** menu allows a manufacturer to select which nodes are available to the end user when the manufacturer key is not present. Unselected nodes are hidden from users without the manufacturers key and cannot be edited.

A manufacturer can view all the available nodes in the **Setup Locking** menu. Click on the node in the menu to unlock the node (1), and then select the check box (2).
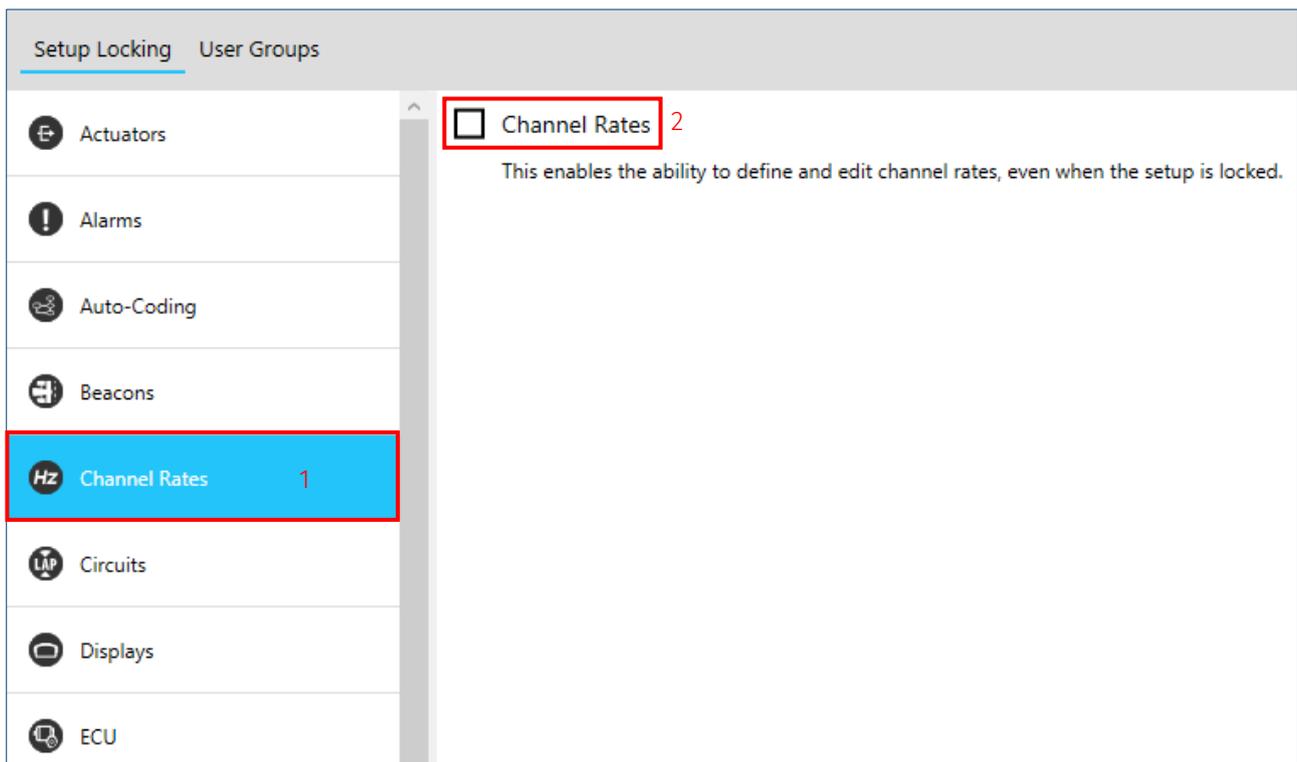
There are two distinct parts to setup locking: 'Manufacturer Status' and 'Channel Protection'.
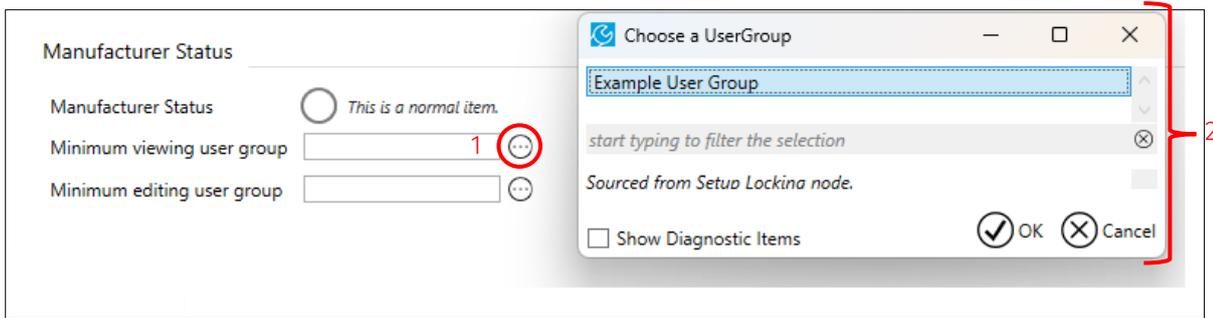
Manufacturer status

In some instances where a node contains items that a customer might need to edit, such as Maths channels, you can leave specific manufacturer items unmarked ('**None**'), marked as '**Recommended**', made '**Read-only**', or totally '**Hidden**' from the customer.

- **None** – The item is unmarked and is completely unprotected from an unlicensed user in the setup.
- **Recommended** – The manufacturer has recommended that the item is left in the setup, but the item is completely unprotected from an unlicensed user.
- **Read-Only** – The manufacturer has protected the item from one or more user groups so that it cannot be edited, but you can still view the item in the setup.
- **Hidden** – The manufacturer can completely hide the item from one or more user groups so that the item cannot be seen in the setup.

Click in the circle to select the **Manufacturer Status** from the dropdown menu (1)

A manufacturer can also select the minimum viewing and editing user group for an item. Click the 'browse' icon (1), and then select the user group from the dropdown menu (2).

Channel Protection

Channel Protection allows a manufacturer to hide channel data from one or more user groups. This means that when the data is opened by an unlicensed user, the channel is not shown.

Click **Protect** (1) to enable channel protection or **Remove Protection** to disable it (2).
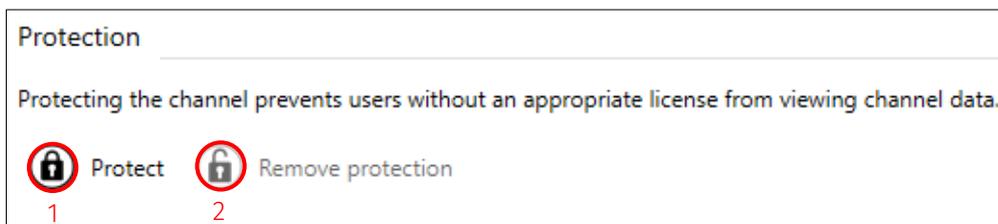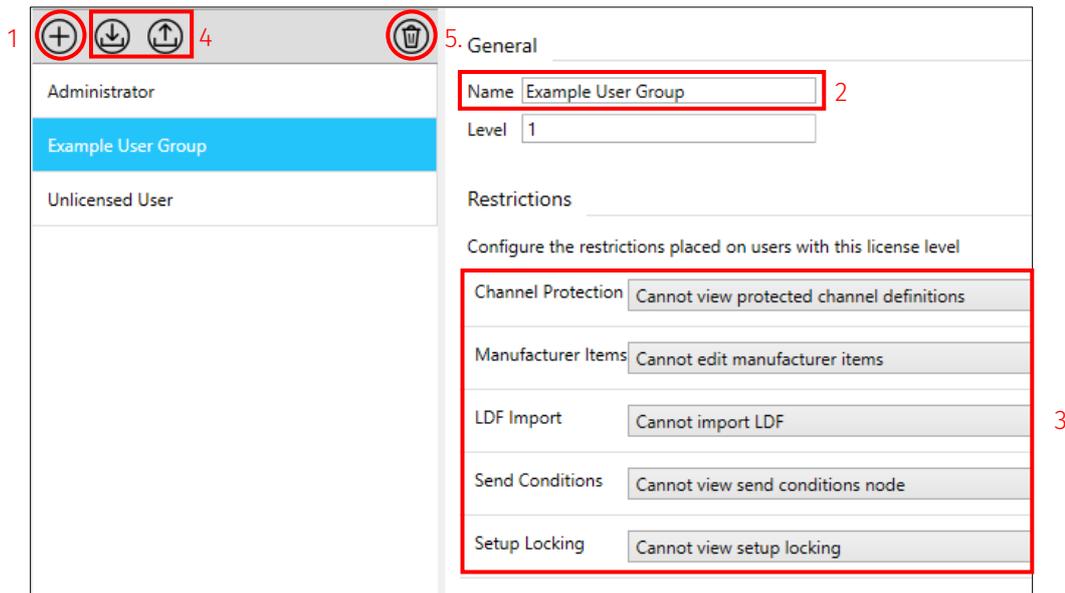

User Groups

The **User Groups** menu on the **Setup Locking** node allows a manufacturer to configure the setup editing restrictions for one or more user groups.

By default there are two user groups: Administrator and Unlicensed User. The following restrictions apply:

	Administrator	Unlicensed User
Can protect channels	✓	✗
Can edit manufacturer items	✓	✗
Can import LDF	✓	✗
Can edit Send Conditions	✓	✗
Can edit Setup Locking	✓	✗

A summary of the restrictions is shown at the top of the **User Groups** menu.

Click the **+** button (1) to create additional user groups. You can name the new user group (2) and set restrictions from the dropdown menus (3). You can import and export user groups between existing setups (4). You can use the 'bin' tool (5) to delete user groups.

The user group 'Level' is used to define the hierarchy of user groups when a manufacturer has added one or more groups.

The example below shows additional 'Scrutineer' and 'Engine Builder' user groups with different restrictions applied. The Administrator is assigned 'Level 0' by default. A manufacturer can define the hierarchy for any new user groups. In this example 'Scrutineer' is assigned 'Level 1' and 'Engine Builder' is assigned 'Level 2'. Therefore 'Scrutineering' is placed higher in the hierarchy.

Note: If a user group lower in the hierarchy is unrestricted from an item, then user groups higher in the hierarchy are automatically unrestricted too.

The summary of the restrictions for the user groups is updated and displayed at the top of the **User Groups** menu.

	Administrator	Scrutineer	Engine Builder	Unlicensed User
Channel Protection	Can protect channel definitions	Can view protected channel definitions	Can view protected channel definitions	Cannot view protected channel definitions
Manufacturer Items	Can edit manufacturer items	Can edit manufacturer items	Cannot edit manufacturer items	Cannot edit manufacturer items
LDF Import	Can import LDF	Cannot import LDF	Cannot import LDF	Cannot import LDF
Send Conditions	Can edit send conditions node	Cannot view send conditions node	Cannot view send conditions node	Cannot view send conditions node
Setup Locking	Can edit setup locking	Can view setup locking	Cannot view setup locking	Cannot view setup locking

When user groups are configured, you can log channels in different tables and at different rates depending on the user group. See **Logging Tables – Rate Groups and Channel Rates – Multiple Rate Groups** for more information.