

<b>ECU</b>	Revision	0.24
	Date	17/02/2025

## ECU overview

The **ECU** node is available in **Setups** for Cosworth ECU devices running CHP 2 (Metadata 3+). The **ECU** node is the interface for the exchange of channels between the ECU side (also known as the Pectel side) of the device and the logger side (also known as the Common Hardware Platform (CHP) side).

## ECU channels

The **ECU Channels** menu is prepopulated with all the channels from the ECU side in the list of channels to be exchanged in the setup metadata. Click on the list of channels in the **ECU Channels** menu (1) to see a brief description about the channel (2). The setup owner (Manufacturer) can select whether to apply channel protection (see [Setup Locking – Channel Protection](#)) (3). For convenience, there is the option to apply and remove channel protection from all ECU channels (4).

**Note** - Some channels may automatically be protected from an unlicensed user in the setup metadata. This is because the Pectel produced metadata contains protection at the point of build.

The screenshot displays the 'ECU Channels' interface. On the left, a list of channels is shown, with 'ACT' selected and highlighted in blue (1). On the right, a detailed view for the 'ACT' channel is shown, including its description 'Air Temperature', quantity 'temperature' (2), and data type 'F32'. Below this, there are 'Protect' and 'Remove protection' buttons (3). At the top of the interface, there are global controls for 'Protect all' and 'Remove protection from all' (4).

## ECU channel mapping

The **ECU Channels Mapping** menu is prepopulated with all the channels that are produced from the control side (ECU) and can then be logged on the CHP side. This list contains Autocoding actuators for the ECU side, which enable control over ECU applications such as CalPots.

You can configure which CHP channel is mapped to be exchanged to the ECU side. Click on the list of channels in the **ECU Channels Mapping** menu (1), to see a brief description about the channel (2). To select a channel to be mapped, click the 'browse' icon (3), and then select an available channel from the Channels list (4).

