Changelog

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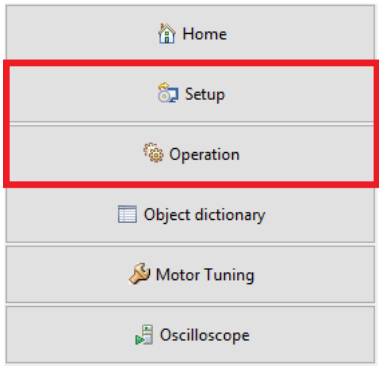
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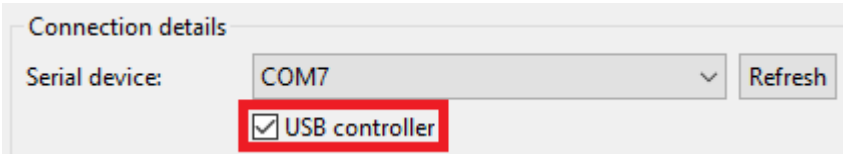
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1 Release 0.9 beta

Two new major features have been added in this release of Plug & Drive Studio: **Setup** for configuring base settings of the controller, as well as running the auto setup, and **Operation** for selecting and configuring the mode of operation of the controller.

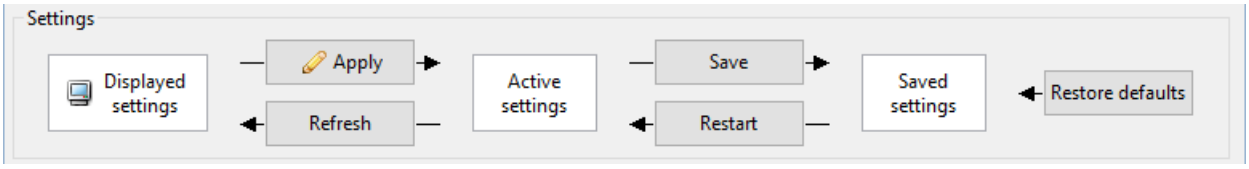


In addition, USB virtual COM port is now supported. To use it, add a new controller, and select the option **RS232, RS485 or USB serial** in the wizard. Then select **USB controller**.



1.1 Setup

All settings that can be modified in the setup are categorized. Each category is represented by a tab. When you make changes in the graphical interface, the new value is not immediately applied on the controller. Instead, an icon will appear, indicating where changes have been made. The same icon will also appear on the **Apply** button, which is usually what you would press next, unless you want to apply several changes at once. Text fields can also be applied directly, by pressing the return key while they are selected.



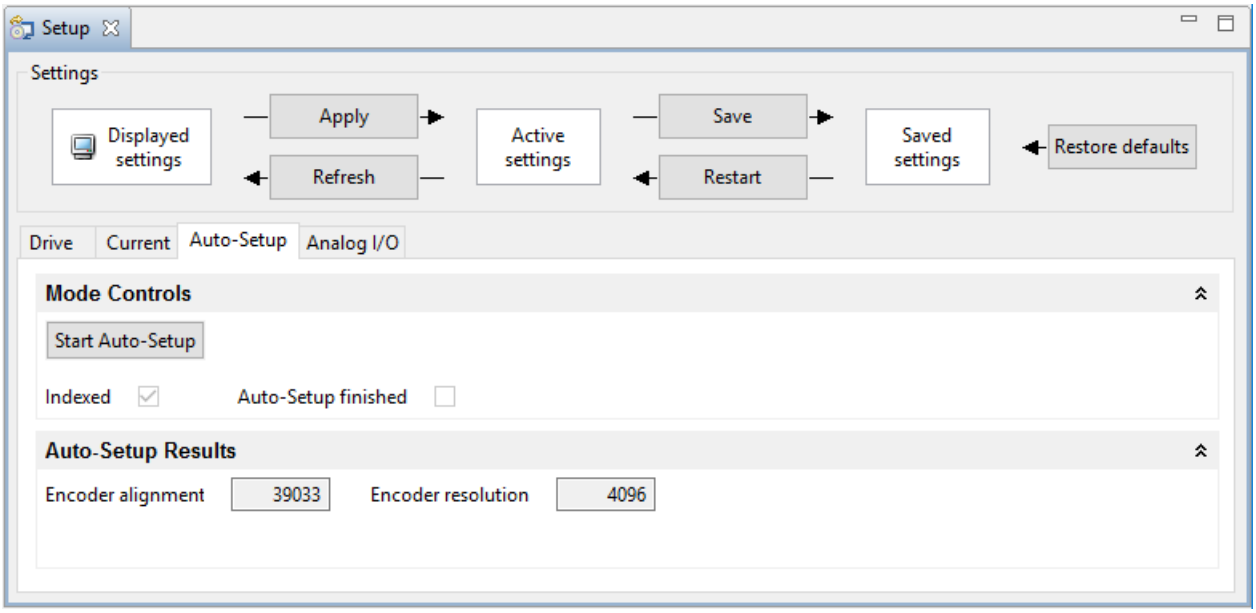
Applying changes means sending the new settings to the controller, making them the active settings. If you are satisfied with the active settings, you can make them permanent by pressing the **Save** button.

1.1.1 Auto-Setup

CAUTION

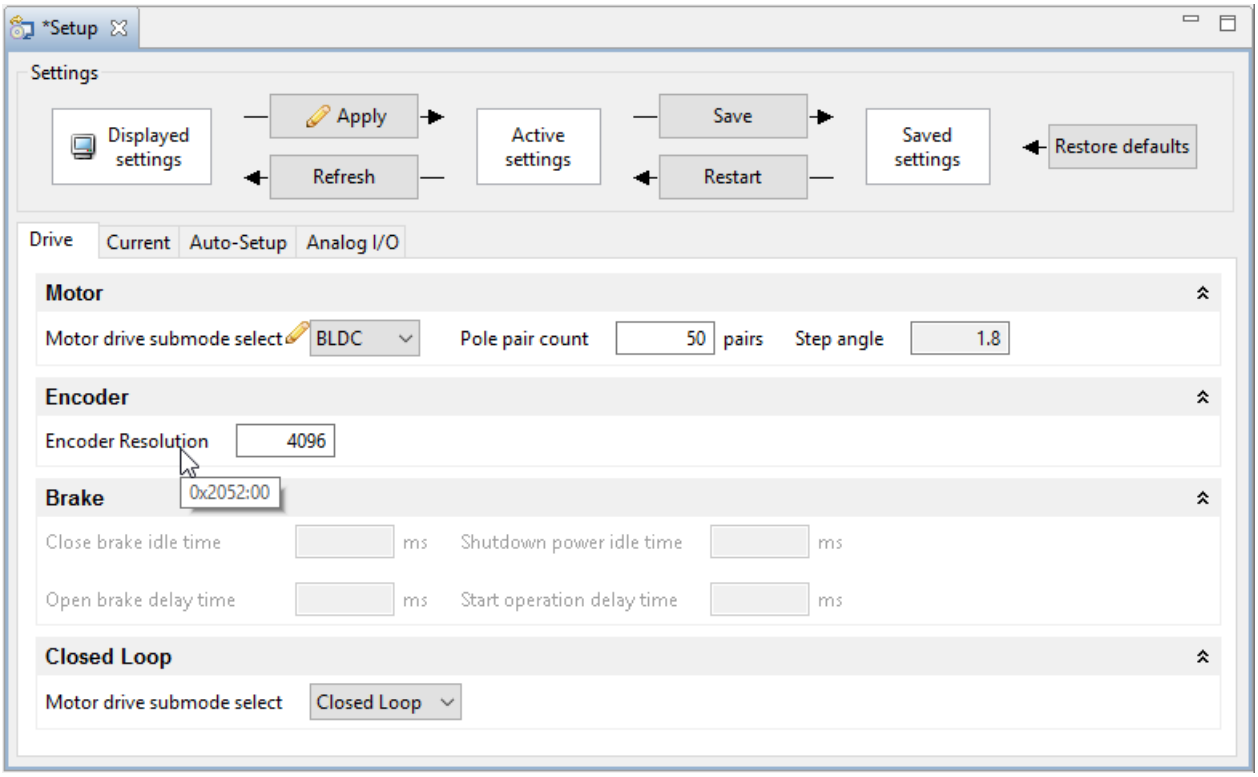
Before running the auto setup, make sure all prerequisites for your controller are met. You should *not* run the auto setup if you are using a PD (Plug & Drive) motor. When the auto setup is finished, the controller will restart.

To run the auto setup, open **Setup**, switch to the **Auto-Setup** tab, and press the **Start Auto-Setup** button.



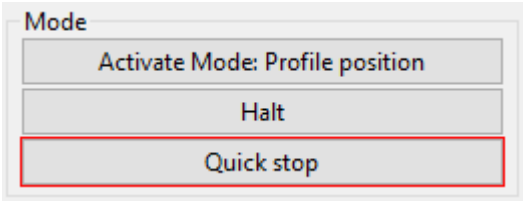
1.1.2 Setup Controls

Each field in the Setup tabs represents an object, or part of an object in the object dictionary. Some of the fields cannot be modified, either because they are read-only or derived values, or because they are not relevant for your controller. Hovering over the label of a field with the cursor will show you which index and subindex of the object it represents. Additonal information about each object can be found in the controllers manual.



1.2 Operation

Configuring the mode of operation of a controller is similar to changing its setup (see chapter **Setup**). However, there are additional controls.



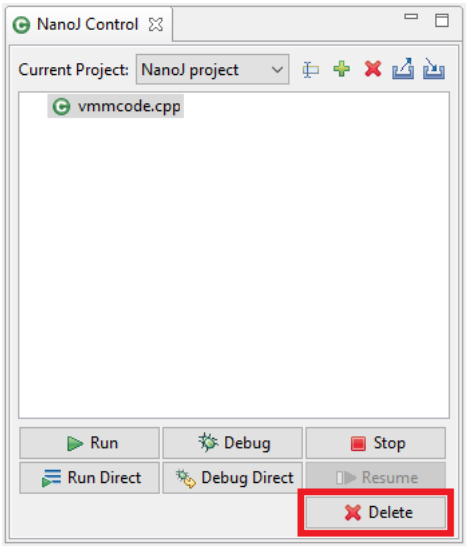
The first button activates the mode that is represented by the currently selected tab, and switches to the operation enabled state in the power state machine. Depending on your settings, this can result in immediate motor movement. The **Halt** button *toggles* bit 8 in the control word. The **Quick stop** button activates quick stop. Please refer to the controllers manual for more details.

1.3 Other Changes

1.3.1 NanoJ

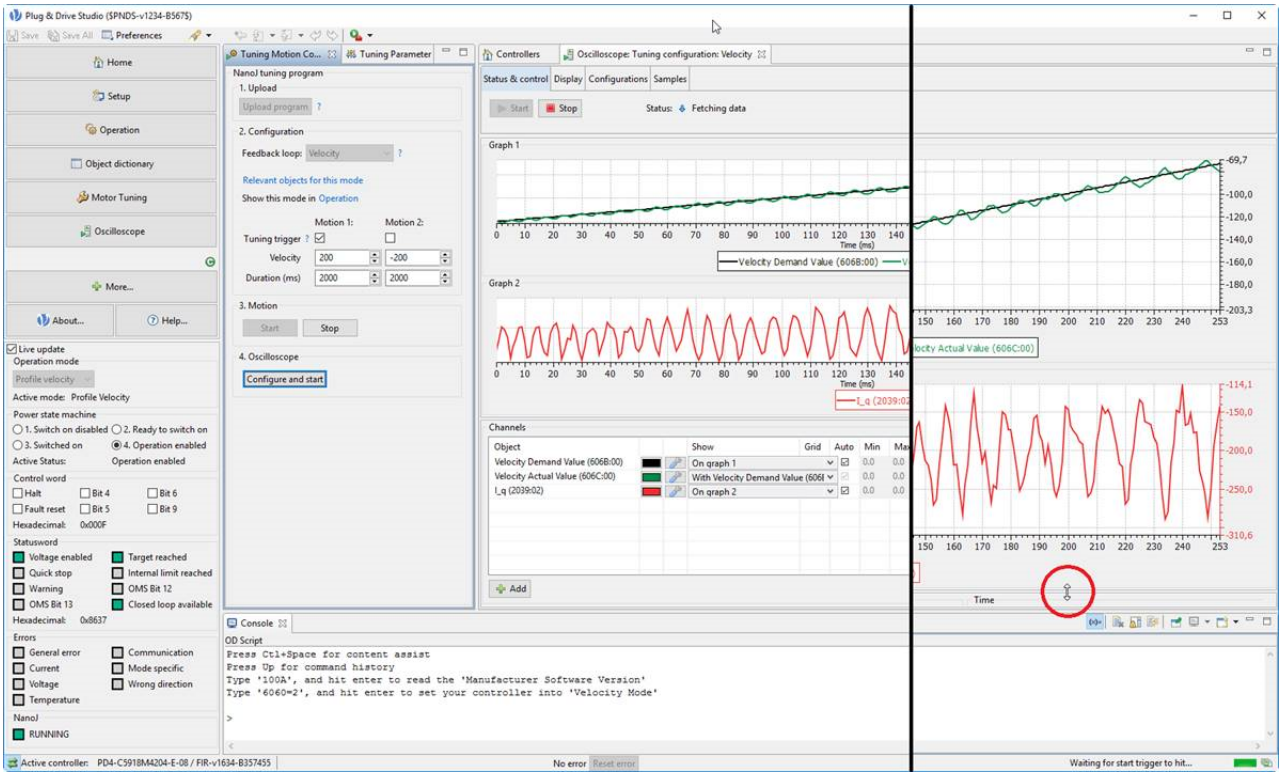
Up to three breakpoints can be used now.

It is now possible to delete the current NanoJ program from the controller with the following button.



1.3.2 Oscilloscope

More space for the oscilloscope can be made available by reducing the size of the lower configuration area.



1.3.3 Tuning

A link was added to directly access the objects that might have to be adjusted to tune the currently selected feedback loop.

