

P2PP Confiruration Tool



This tool is in a very early development stage. Use at your own risk.

Introduction

P2PP Configuration tool is a one time setup utility to help you creating a complete first time setup of PrusaSlicer to work with the Palette 2 Post Processing script.

One time... meaning that this is currently not intended as a utility to maintain P2PP configurations. After the first profiles have been created they can be edited through the normal PrusaSlicer configuration interface. The configurator will only add configuration items to the configs... not analyze or remove existing ones.

1. prerequisites

Before even starting multi color printing with PsursaSlicer and P2PP make sure you have the following steps completed:

- Make sure you have a properly tuned single color profile for your printer. If your
 printer does not print consistently in one color, adding the complexity of multiple
 colors is not really going to give good results..
 - Properly calibrated extruder
 - o Bed size is correctly defined
 - Pre- and post scripts are setup to operate your pinter in a safe way

2. saving a basic single color configuration

- If all these requirements are met, SAVE the printer under a separate configuration (the configurator cannot generate configs based on the default Prusa configs at this point)
- For each of the print profiles (specifying the layer height etc), SAVE a copy (e.g. just name is **0.20mm QUALITY Mosaic**)
- Repeat the above step for the filaments you want to use in your prints

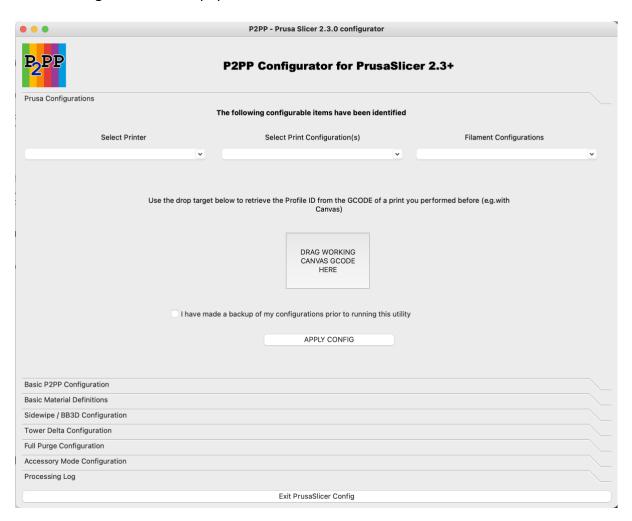
These steps take a little effort but without you will not be able to select the items in your drop down box for reconfiguration

3. start the configuration tool

On mac open a command window and type

On windows navigate to the installation folder in a cmd window and type

The following screen should poput:



You should find the saved configurations in the different drop down boxes for printers, prints and filaments.

If you have calibrated your printerd before using Canvas, you can just drag a canvas generated gcode file onto the drop target to get basic information from the file. This way you don't lose any calibration done before. You can also copy the information manually in the **Basic P2PP Conficuration** tab.

4. Performing the configuration

Browse through the different tabs to set the parameters of P2PP. More information on the purpose of the parameters can be found in the P2PP manual of in the popup tooltips in the config application (to be implemented)

Each of the tabs represent different setup parameters

- Basic P2PP Config is information needed for every P2PP print
- SideWipe and BigBraind 3D are for people that have the capability to wipe to the side of the bed. BigBrain 3D is an hardware-specific solution. Do not enable this setup unless you have the hardware installed and calibrated. You will require the parameters defined during calibration to operate P2PP
- Tower Delta if enable sets up a profile that allows you to reduce the amount of purge in the purge tower by not printing purge for layers with no toolchanges.
- Fullpurge is similar to towerdelta, but is optimized to make the tower grow with the print to minimize the Z-movements as much as possible
- Accessory mode is currently not implemented (generates no code)

The processing log contains info on the generateion of profiles.

Which items should I configure

In order to start using P2PP for the first time, you will need to at leat condider changing the following configuration items.

- **Printer Prodile ID** this is absolutely MANDATORY
- Extra filament at end of print if you have a Bowden type extruder setup, you will
 want to add the length of the Bowden tube + extruser filament distance and possibly
 10cm or so of "safety" length to make sure Palette 2 generates sufficient fileament
 to keep the extrudermotor engaged at all times

Special printing modes

Accessory Mode printintg, TowerDelta and FullPurge Reduction don't reaquire printer-specific information to go into the tabs.

SideWipe and BigBrain3D allow you to save as much filament as possible during the print BUT they will require very printer/setup specific information.

- Make sure the bed size is correctly defined in the Prusa Slicer config
- The positional data for the SideWipe/BB3D need to be calibrated. (there sis no P2PP specific support for doing this. BB3D offers instructions on setting up their tool
- Motor values in BB3D are set way too high in the BB3D instructions...

Both of these modes should be installed with care!!

5. Exporting the configurations

Once you are satisfied with the settings and all desired configurations have been flagged, go back to the **Prusa Configurations** tab

From the drop down select the Printrs/Prints/Filaments you saved before as basis for your p2pp configurations. There should be one printer selected but you can select multiple print profiles and filaments.

Before hitting the APPLY CONFIG button, tick the box indicating that you have made a backup of your settings so they can be restored should something go wrong in the script



IMPORTANT: Profiles will be overwritten without further notification

6. Resulting profiles

If there are no processing errors, you should get several files depending on the settings

Before running the config utility:



After running config utility:



You can then select each of the printer profiles to perform a print with one of the specific featured of P2PP activated