



## How to create your own distribution



---

## Contents

---

1. How to create your own distribution .....	3
2. Main Page .....	3



The content format pdf is not supported by the content model wikitext.

[Return to Main Page](#)

Stable: 17.11.2021 - 10:46 / Revision: 17.11.2021 - 15:58

You do not have permission to edit this page, for the following reasons:

- The action you have requested is limited to users in one of the groups: **Administrators**, **Editors**, **Reviewers**, **Selected\_editors**, **ST\_editors**.
- The action "Read pages" for the draft version of this page is only available for the groups **ST\_editors**, **ST\_readers**, **Selected\_editors**, **sysop**, **reviewer**

You can view and copy the source of this page.

==Article purpose== The purpose of this article is to describe the basic steps required to create your own distribution.<br> ==Prerequisites== OpenSTLinux distribution must be installed and into the board Flash memory (ies). ==Creating your own distribution== As recommended in Yocto user manual <ref name="Yocto mega manual"> [https://www.yoctoproject.org/docs/2.4/mega-manual/mega-manual.html#creating-your-own-distribution Yocto Megamanual Creating your own distribution]</ref>, you may create your own distribution in order not to alter any original distribution Metadata, while gaining more control over package alternative selections, compile-time options, and other low-level configurations. The basic steps for creating a distribution are detailed in the below chapter. More details can be found in "Yocto Mega manual/Creating your own distribution" <ref name="Yocto mega manual"/>. ===Creating a layer for a new distro=== Please read the [[How to create a new open embedded layer]] article. ===Creating the distribution configuration file=== Some configuration examples are provided in ST distribution under: "'<path of OpenSTLinux distribution delivery>/meta-st/meta-st-openstlinux/conf/distro/\*.conf'" ===Providing miscellaneous variables=== Some miscellaneous variable examples are provided under : "'<path of OpenSTLinux distribution delivery>/meta-st/meta-st-openstlinux/conf/distro/include/st-default-distro\*.inc files'" All meta-st-openstlinux distro layer configuration files presented above are located here: {{Highlight|distro}} {{Highlight|include}} exception-gplv3.inc openstlinux.inc {{HighlightParam|st-default-distro-providers.inc}} {{HighlightParam|st-default-distro-rules.inc}} openstlinux-eglfs.conf {{HighlightParam|openstlinux-weston.conf}} openstlinux-x11.conf [...] ===Adding more to the layer if necessary=== More add-on component examples: \* recipes for installing distro-specific configuration files \* any image recipes specific to user distribution \* a "psplash append file" for a branded splash screen \* any other append files to make custom changes Some examples of such add-on components can be found in "'<path of OpenSTLinux distribution delivery>/meta-st/meta-st-openstlinux, you will retrieve some examples of these addons.'"<br> ST has already added some recipes (\*bbappend) in openstlinux-weston distribution for configuring, patching, ... (non-exhaustive list shown below): \* recipes-benchmark for "glmark2" \* recipes-connectivity for "bluez5" \* recipes-core for "busybox" \* recipes-graphics for "weston-init" ...<br> Some other added components (\*bb) are more specific: images, system services, ... (non-exhaustive list shown below): \* recipes-core for "psplash screen", "systemd services" \* recipes-samples for example images \* recipes-security for "OP-TEE userland part" ...<br> ===Use of meta-st-stm32mp with a core image=== If you want to use the meta-st-stm32mp layer with a core image (nodistro mode), please apply the following steps to manage the dependencies between layers: {{PC\$}} source layers/openembedded-core/oe-init-build-env {{PC\$}} bitbake-layers add-layer ../layers/meta-openembedded/meta-oe {{PC\$}} bitbake-layers add-layer ../layers/meta-openembedded/meta-python {{PC\$}} bitbake-layers add-layer ../layers/meta-st/meta-st-stm32mp {{PC\$}} bitbake core-image-base or bitbake core-image-minimal ==Reference list== <references /> <noinclude> {{PublicationRequestId | 8445 | 2018-09-21 | BrunoB}} [[Category:How to customize software]] </noinclude>

Templates used on this page:

- [Template:Highlight \(view source\)](#)
- [Template:Info \(view source\)](#)
- [Template:STDarkBlue \(view source\)](#)

[Return to Main Page](#).