



STM32MP1 Distribution Package - OpenSTLinux distribution



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STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 10.10.2019 - 15:21 / Revision: 10.10.2019 - 14:18

A [quality version](#) of this page, [accepted](#) on 10 October 2019, was based off this revision.

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
- Where to find the associated release note
- Where to find the previous releases (archives)




For more specific information, go through the Distribution Package article relative to your STM32 microprocessors Series: [Category:Distribution Package](#)

1 STM32MP15-Ecosystem-v1.1.0 release

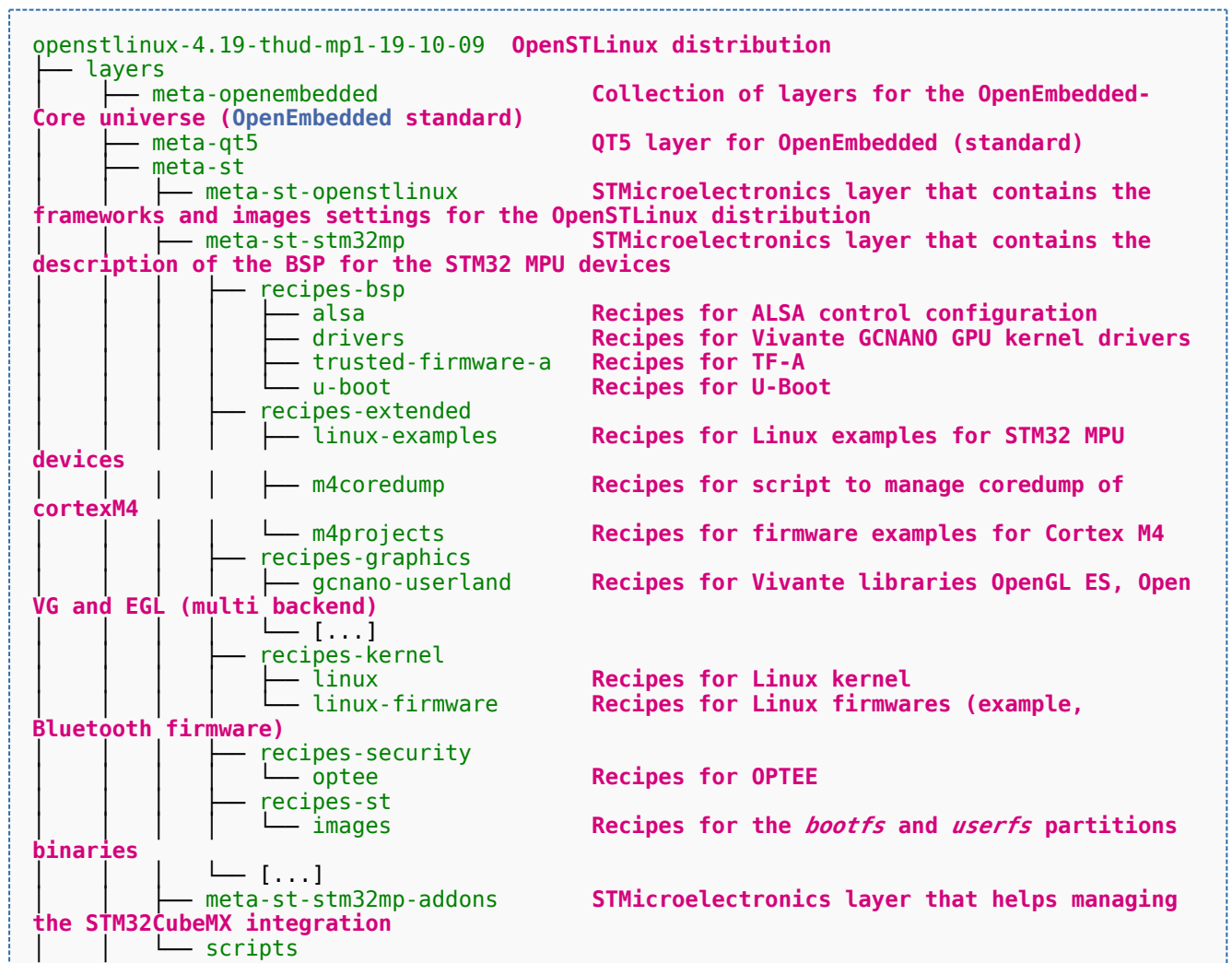
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-10-09**).
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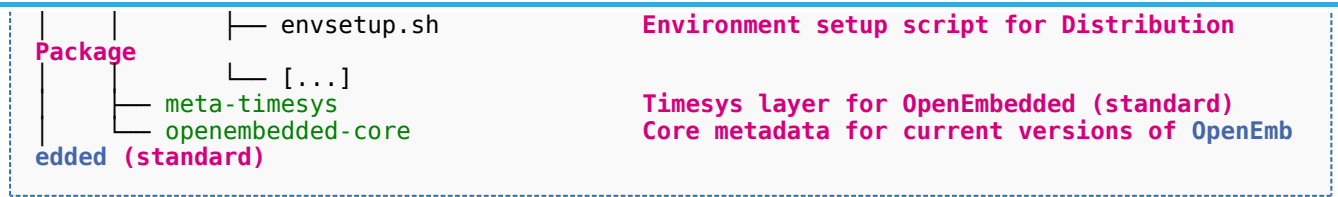
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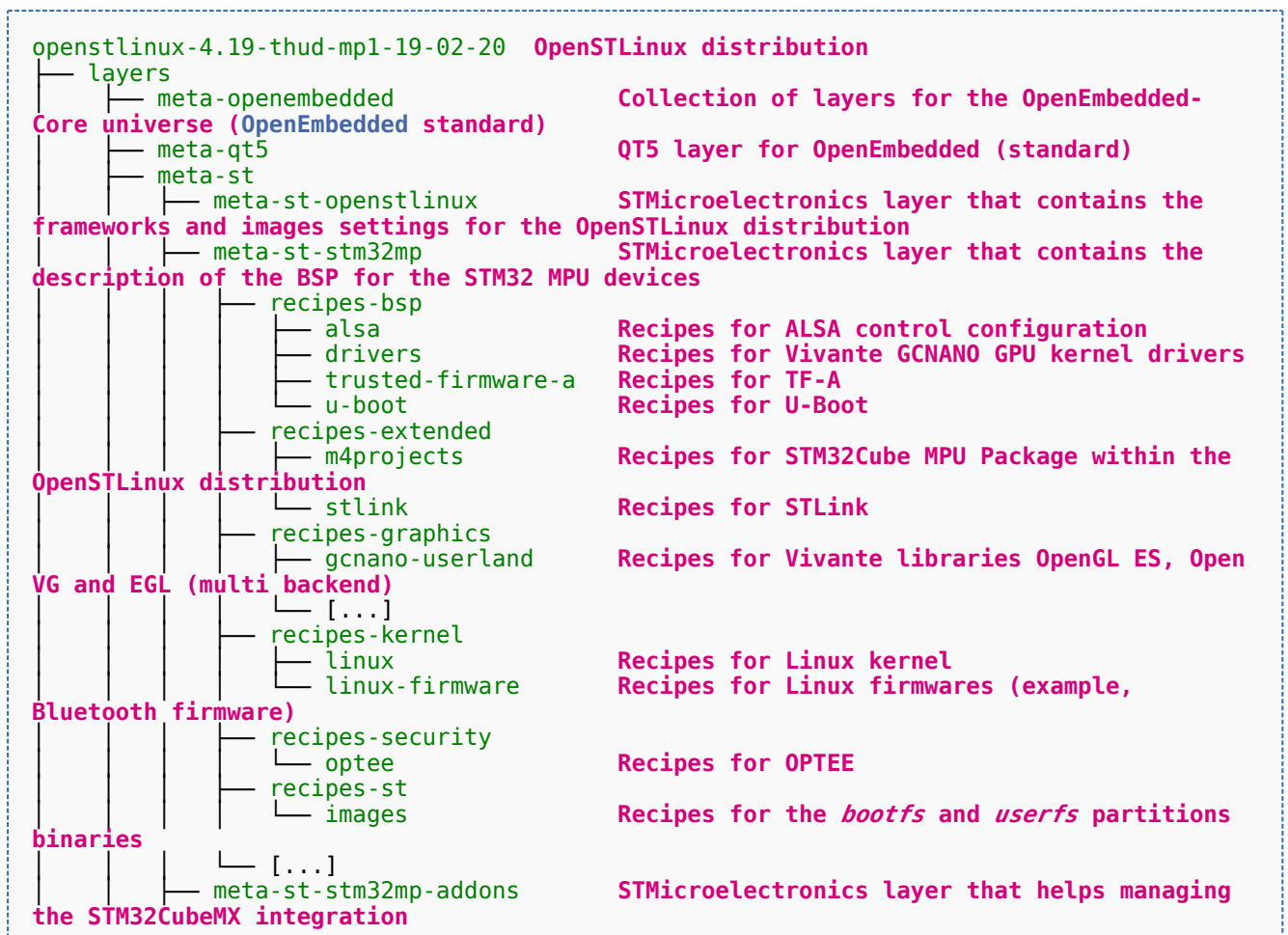
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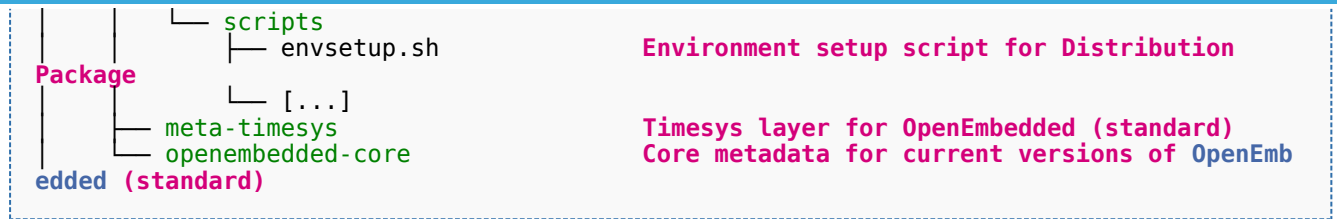
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ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 17.06.2020 - 15:26 / Revision: 16.01.2020 - 13:44

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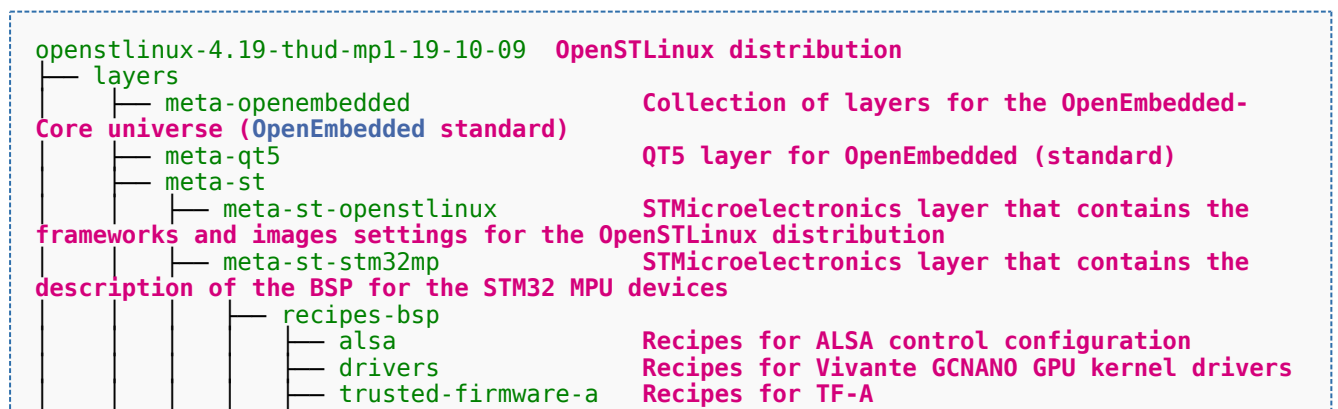
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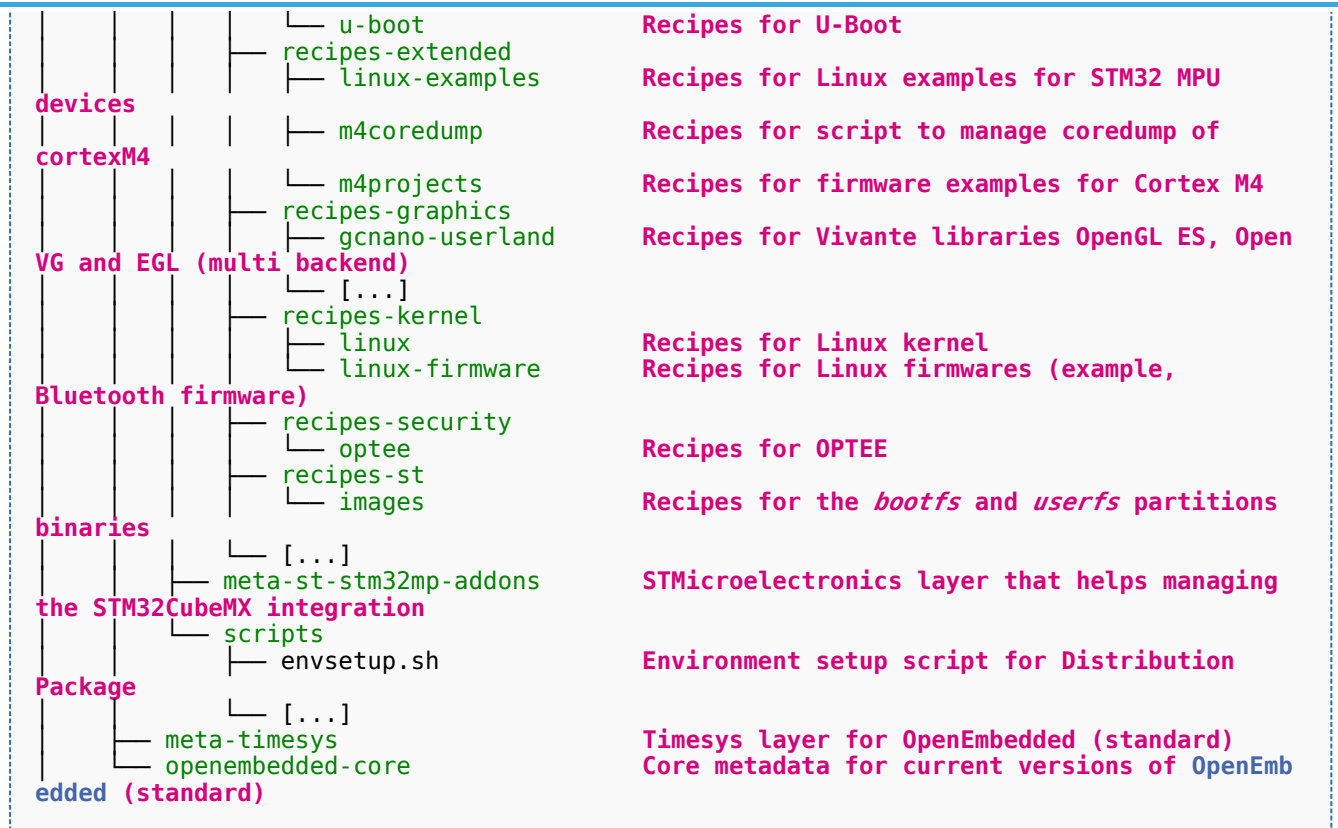
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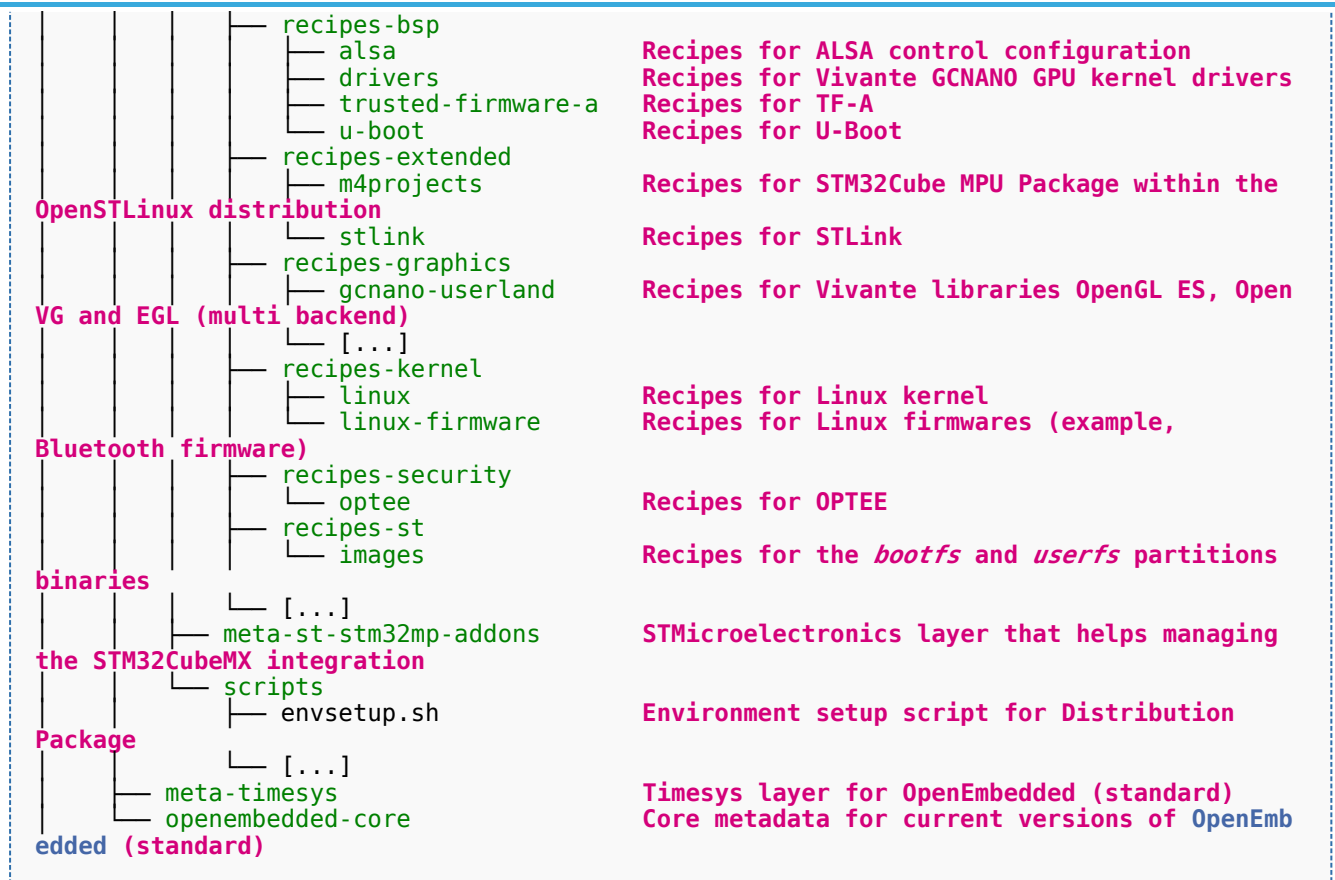
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```
openstlinux-4.19-thud-mp1-19-02-20  OpenSTLinux distribution
├── layers
│   ├── meta-openembedded           Collection of layers for the OpenEmbedded-
│   └── Core universe (OpenEmbedded standard)
│       ├── meta-qt5               QT5 layer for OpenEmbedded (standard)
│       ├── meta-st
│       │   ├── meta-st-openstlinux  STMicroelectronics layer that contains the
│       │   └── meta-st-stm32mp      frameworks and images settings for the OpenSTLinux distribution
│       │                                   STMicroelectronics layer that contains the
│       └── meta-st-stm32mp         description of the BSP for the STM32 MPU devices
```



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Pages in category "Distribution Package"

The following 6 pages are in this category, out of 6 total.



H

- How to add a customer application
- How to create your own machine
- How to cross-compile with the Distribution Package
- How to customize the Linux kernel

S

- [STM32MP1 Distribution Package](#)
- [STM32MP1 Distribution Package for Android](#)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 29.06.2020 - 09:25 / Revision: 23.06.2020 - 09:27

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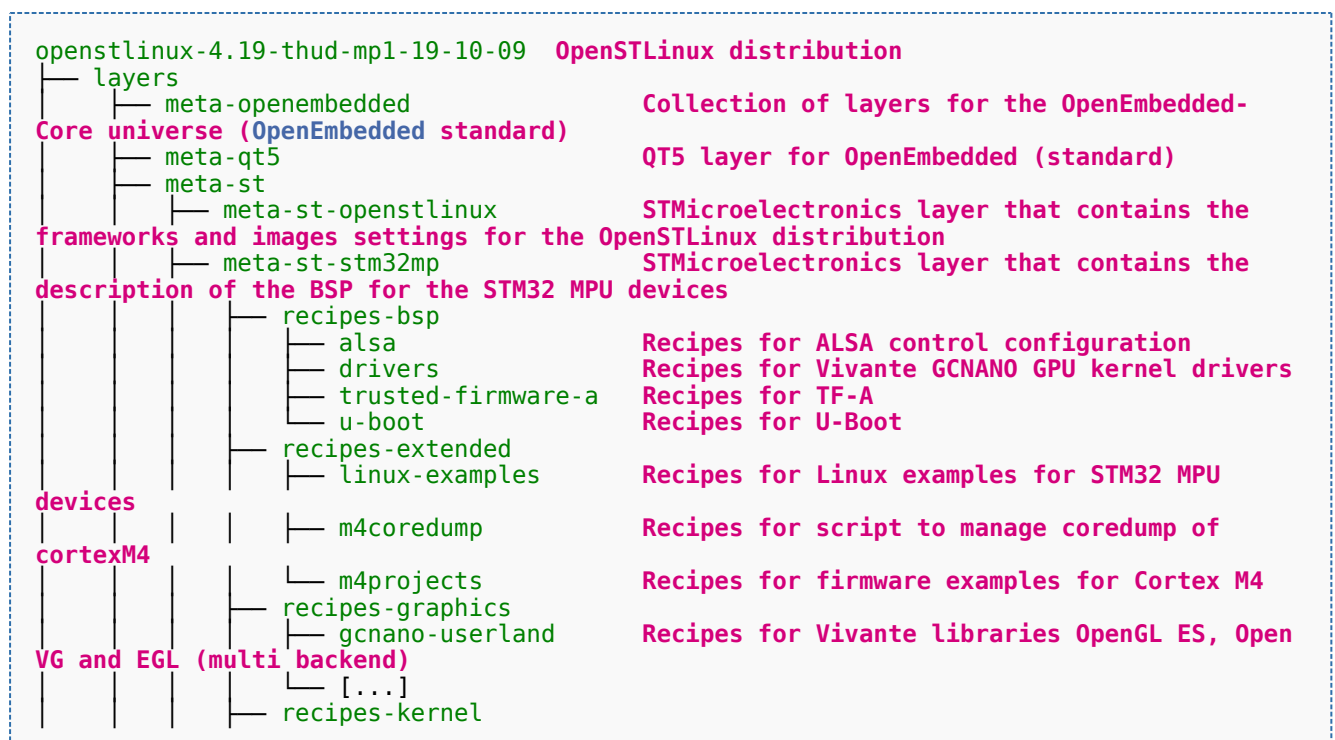
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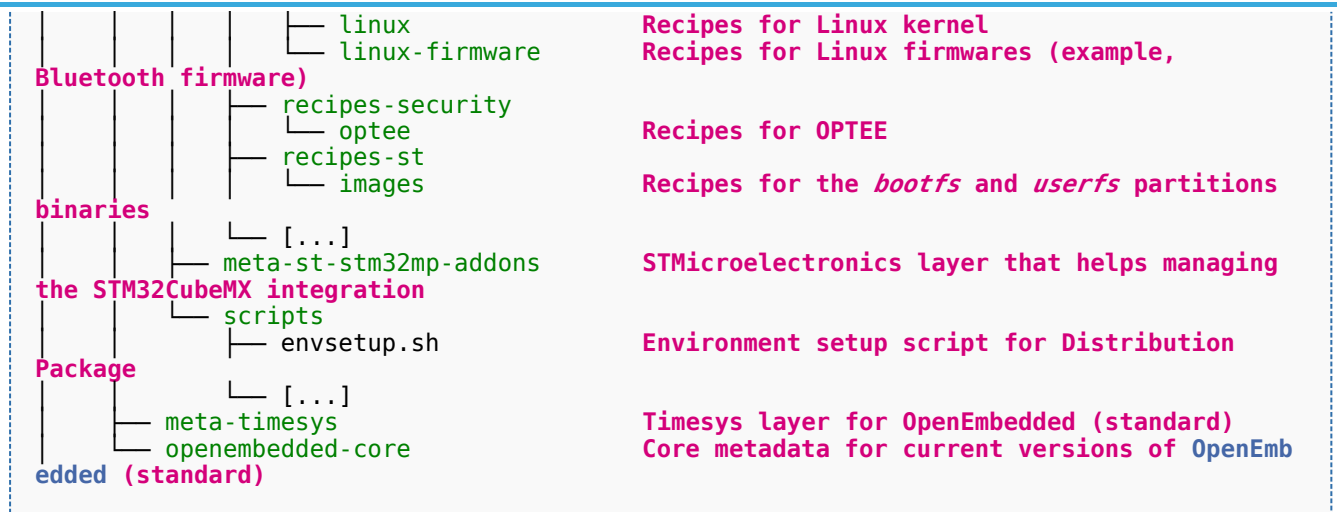
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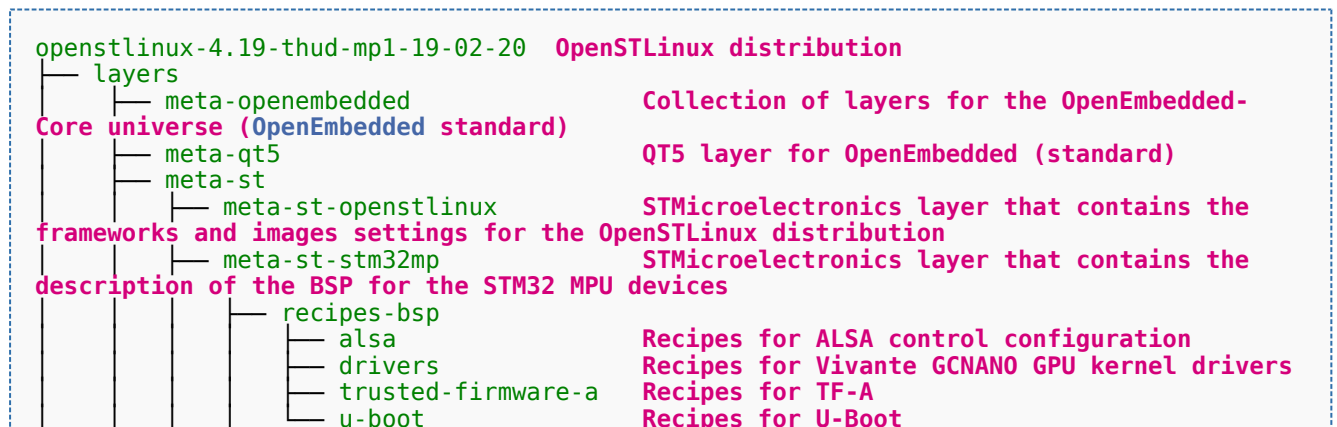
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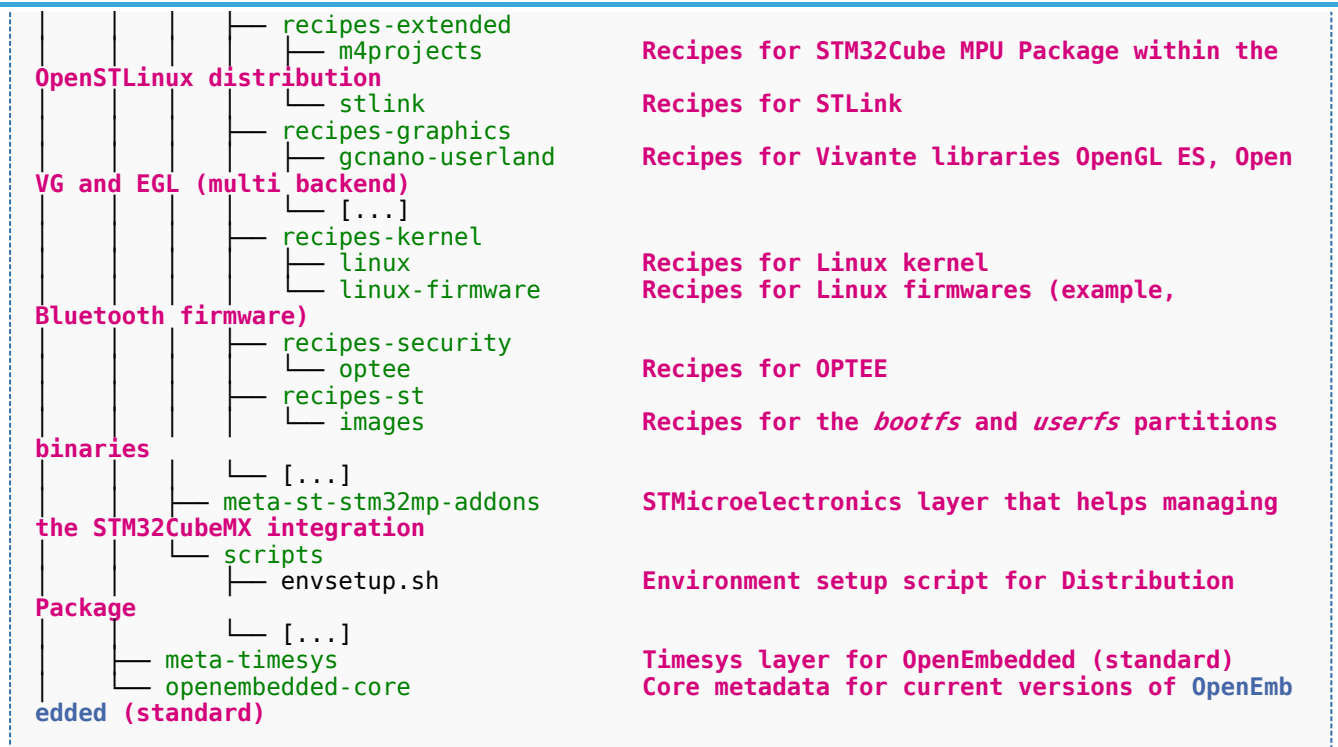
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STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 26.09.2019 - 13:27 / Revision: 26.09.2019 - 13:26

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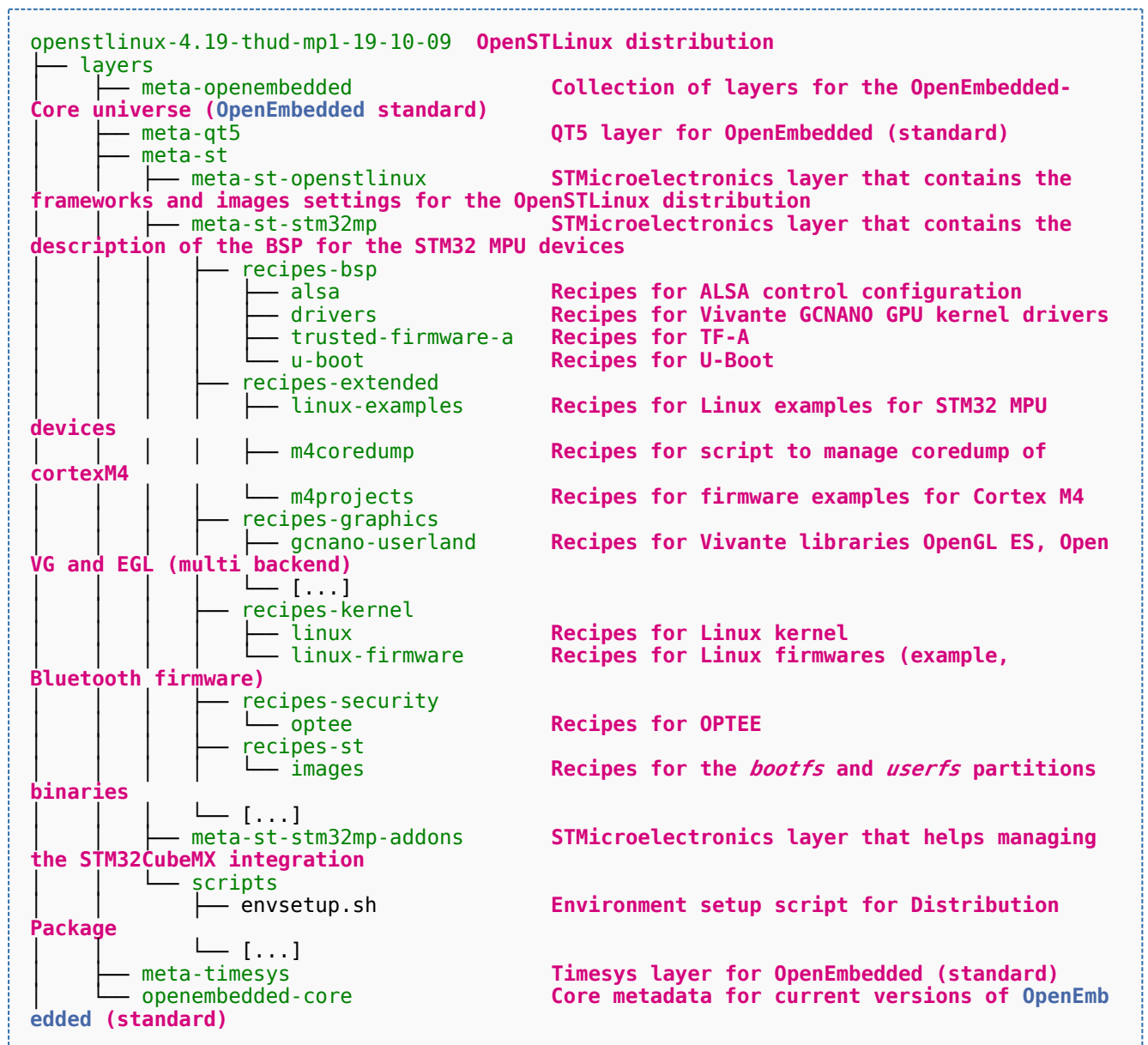
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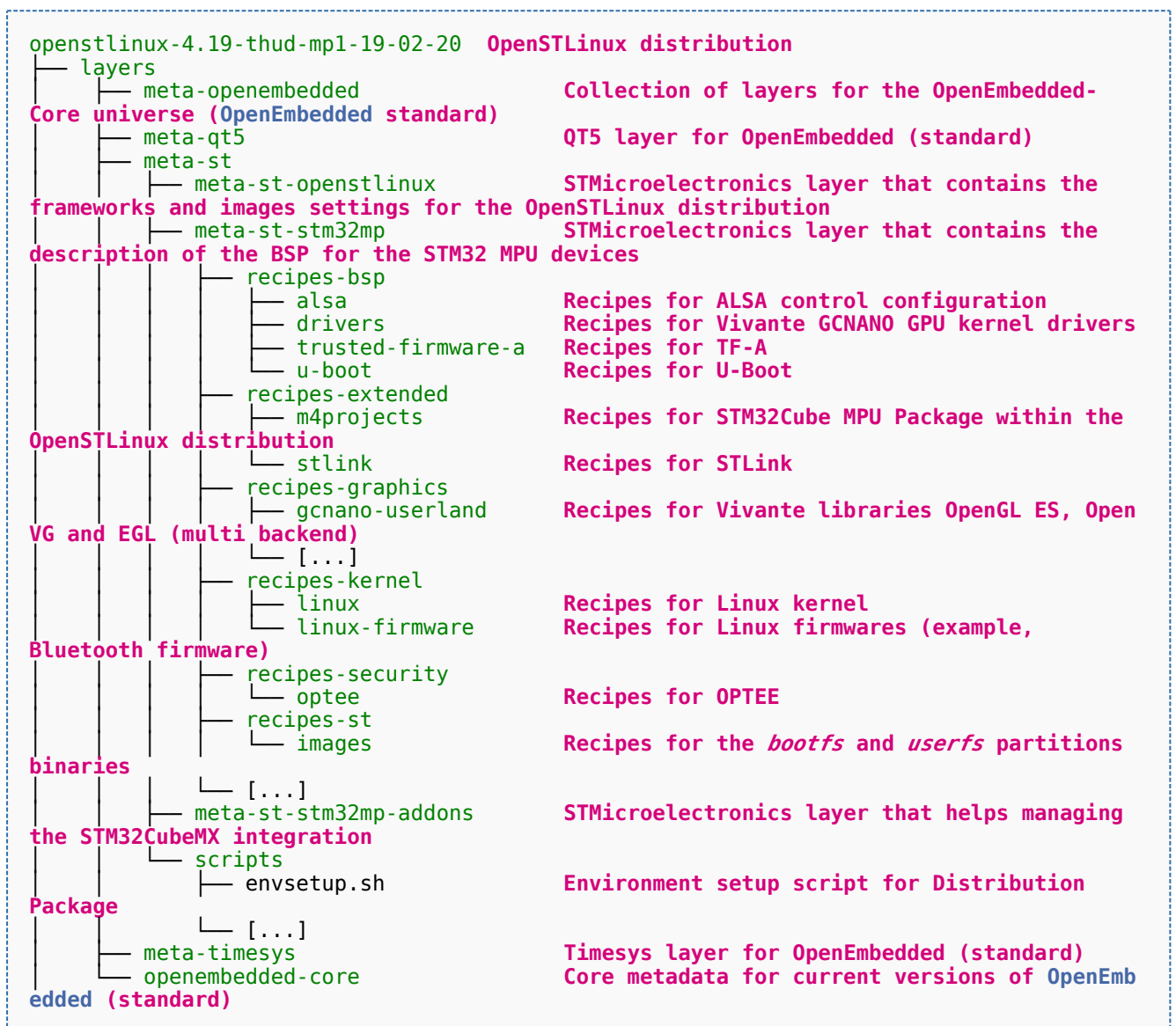
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Installation	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory: <pre style="border: 1px dashed black; padding: 5px;">\$ cd <working directory path>/Distribution-Package</pre> • Create the OpenSTLinux distribution installation sub-directory: <pre style="border: 1px dashed black; padding: 5px;">\$ mkdir openstlinux-4.19-thud-mp1-19-02-20 \$ cd openstlinux-4.19-thud-mp1-19-02-20</pre> • Initialize repo in the current directory. <p>Details:</p> <p>The below command downloads (in the <code>.repo</code> directory) the latest repo source code and a manifest file (<i>default.xml</i>) that describes the directory structure of the repositories for OpenSTLinux.</p> <p>The <code>-u</code> option specifies the manifest repository location, while the <code>-b</code> option specifies its branch.</p> <pre style="border: 1px dashed black; padding: 5px;">\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-02-20</pre> <p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none"> • Synchronize the local project directories with the remote repositories specified in the manifest <p>Details:</p> <p>If a local project does not yet exist, the command clones a new local directory from the remote repository and sets up tracking branches as specified in the manifest.</p> <p>If the local project already exists, the command updates the remote branches and rebases any new local changes on top of the new remote changes.</p>



	STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
	\$ repo sync
Release note	Details about the content of this software package are available in the associated STM32MP15 ecosystem release note .

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-02-20`:



Open Source Software

Board support package



Microprocessor Unit

Advanced Linux sound architecture

Graphics Processing Units

Trusted Firmware for Arm Cortex-A

Das U-Boot -- the Universal Boot Loader (see [U-Boot_overview](#))

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Khronos Native Platform Graphics Interface (See <http://www.khronos.org/egl/> for more details)

ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 24.06.2020 - 13:13 / Revision: 23.06.2020 - 07:31

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
- Where to find the associated release note
- Where to find the previous releases (archives)




For more specific information, go through the Distribution Package article relative to your STM32 microprocessors Series: [Category:Distribution Package](#)

1 STM32MP15-Ecosystem-v1.1.0 release

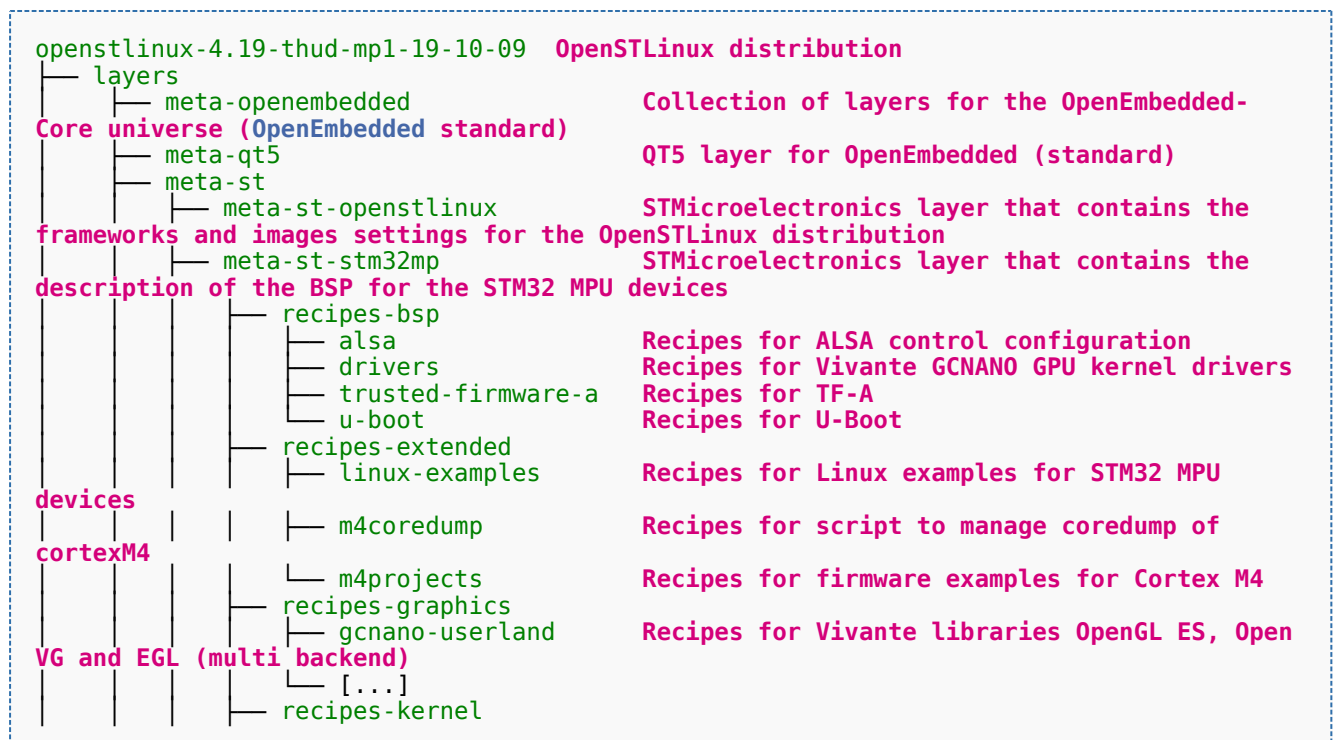
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
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- The OpenSTLinux distribution is massively using open source software (OSS) packages that are downloaded from a variety of open source repositories; so it is required that the IT infrastructure proxies do not forbid such accesses. If some proxy-related issues are suspected, refer to the [How to avoid proxy issues](#) article.
- Install the STM32MP1 OpenSTLinux distribution

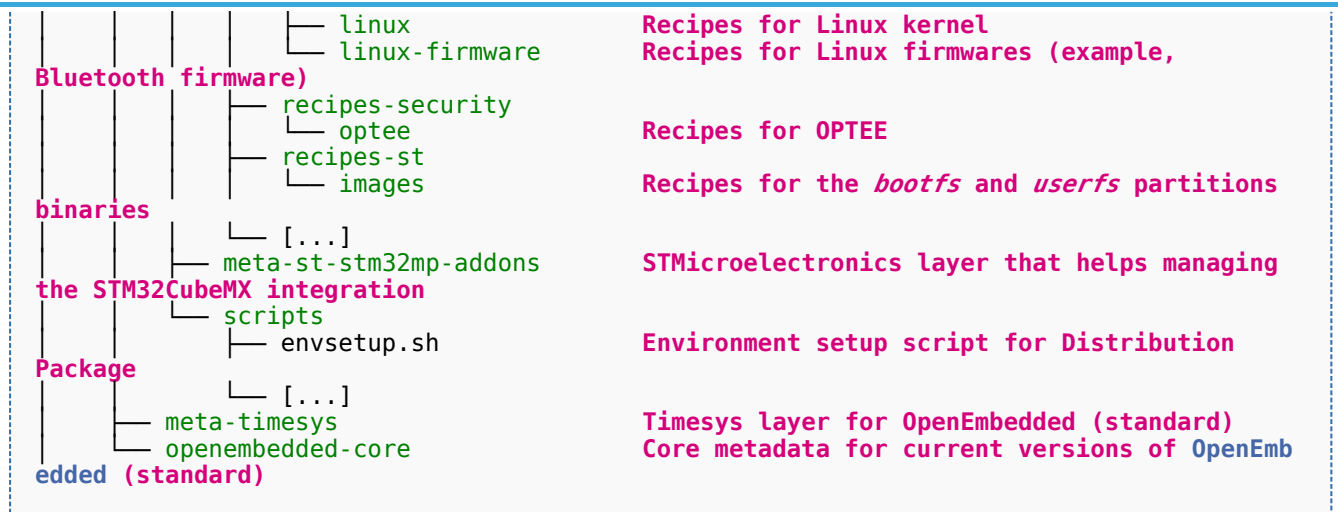
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Release note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p> If interested in previous releases, go through the archives of the ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-10-09`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

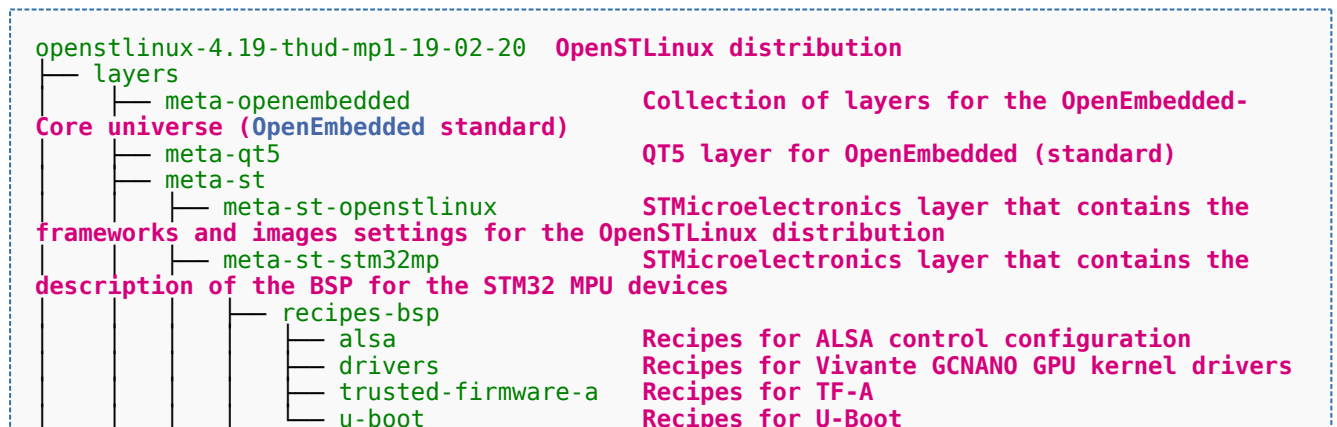
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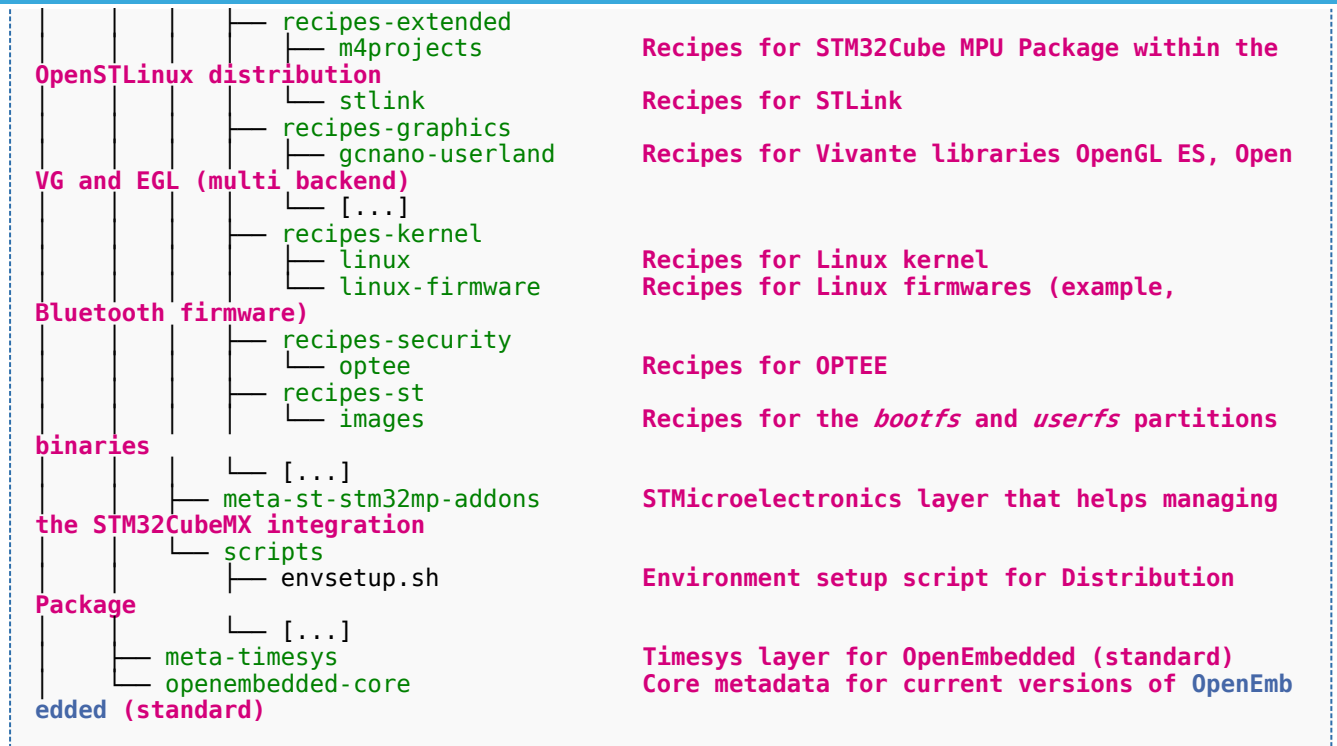
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Relea se note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the `<Distribution Package installation directory>`, and is named `openstlinux-4.19-thud-mp1-19-02-20`:





Open Source Software

Board support package

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ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 24.06.2020 - 11:52 / Revision: 24.06.2020 - 11:42

A [quality version](#) of this page, [accepted](#) on *10 October 2019*, was based off this revision.

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
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For more specific information, go through the [Distribution Package](#) article relative to your **STM32 microprocessors Series**: [Category:Distribution Package](#)

1 STM32MP15-Ecosystem-v1.1.0 release

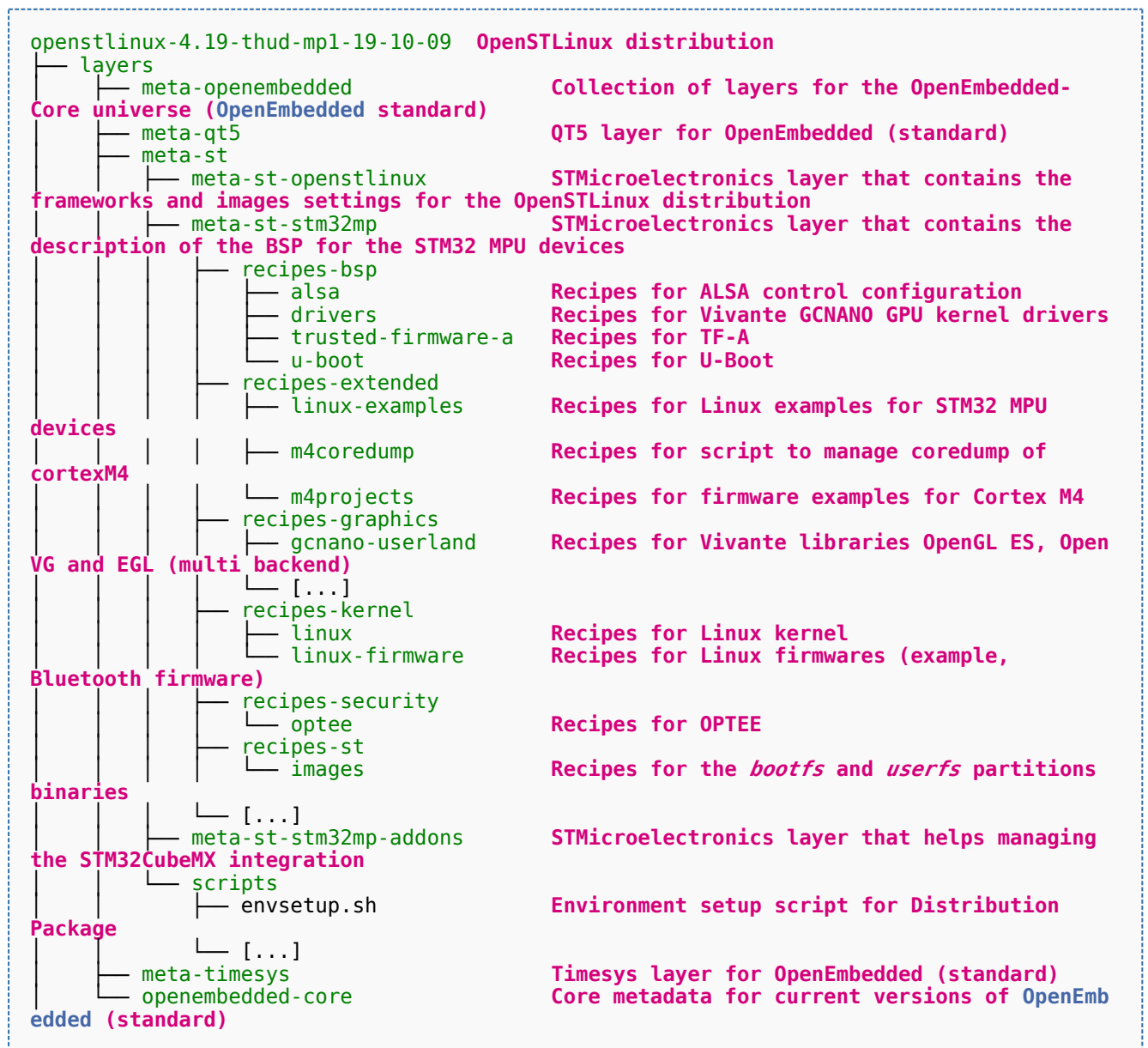
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STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
Release note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p> If interested in previous releases, go through the archives of the ecosystem release note.</p>

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2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

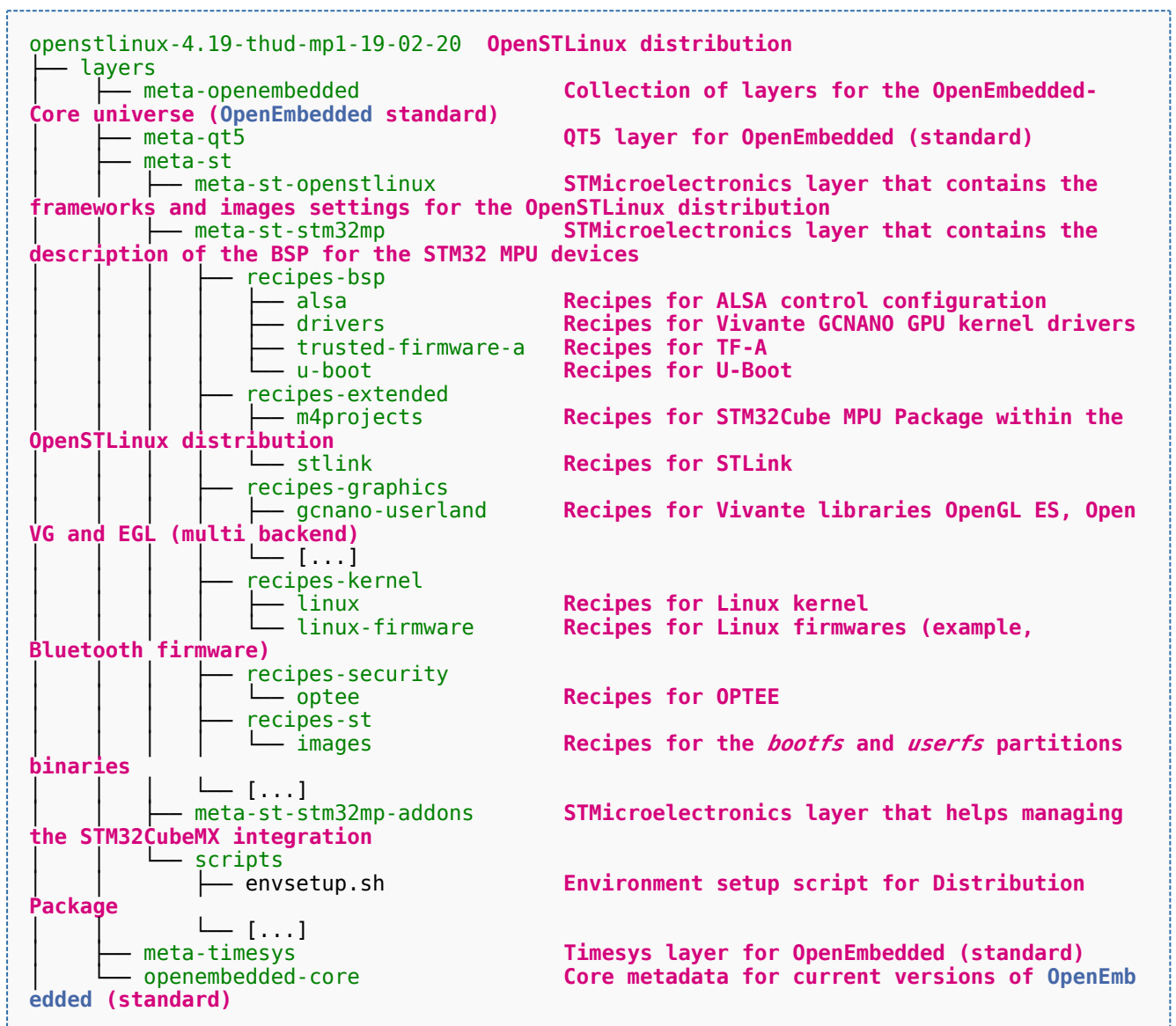
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Release note	Details about the content of this software package are available in the associated STM32MP15 ecosystem release note .

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STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 29.01.2020 - 16:07 / Revision: 29.01.2020 - 16:06

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
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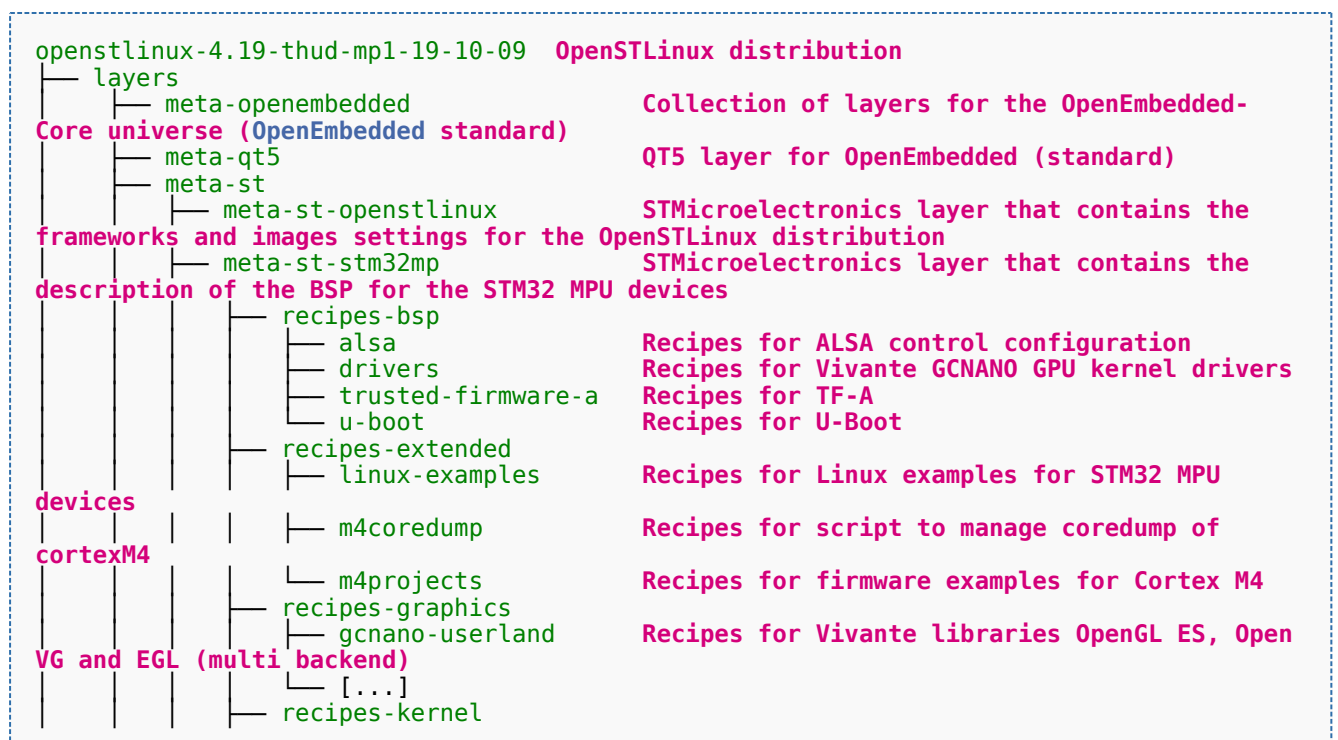
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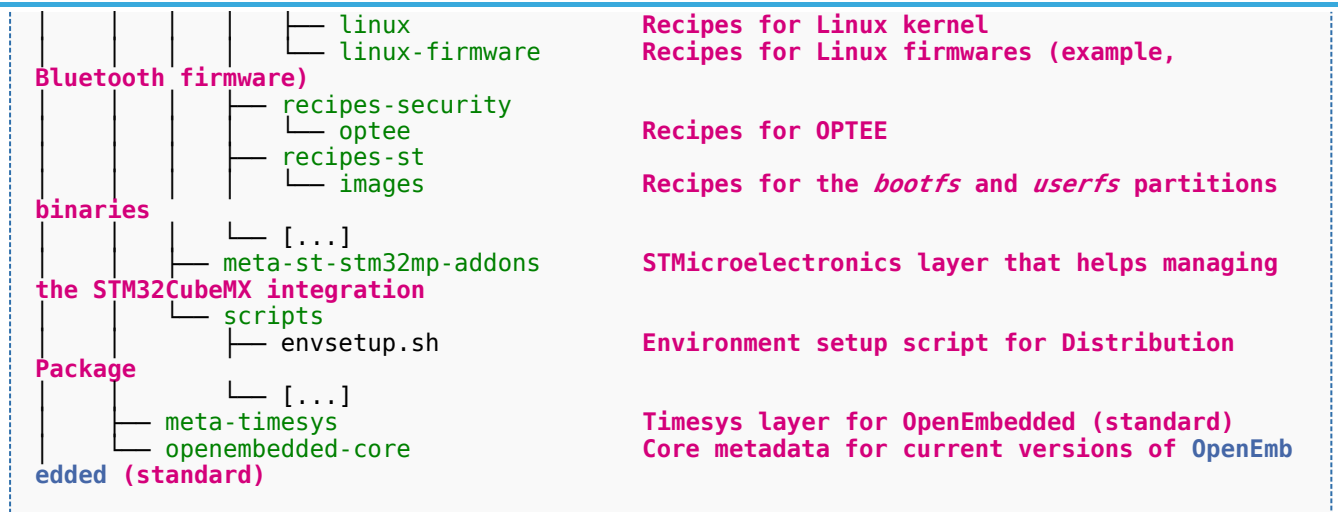
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2 Archives

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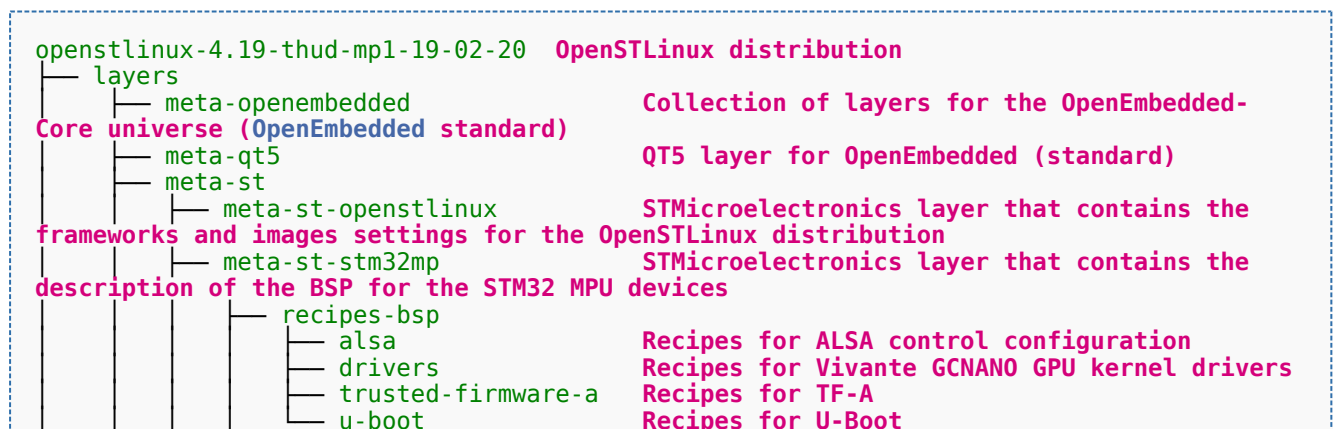
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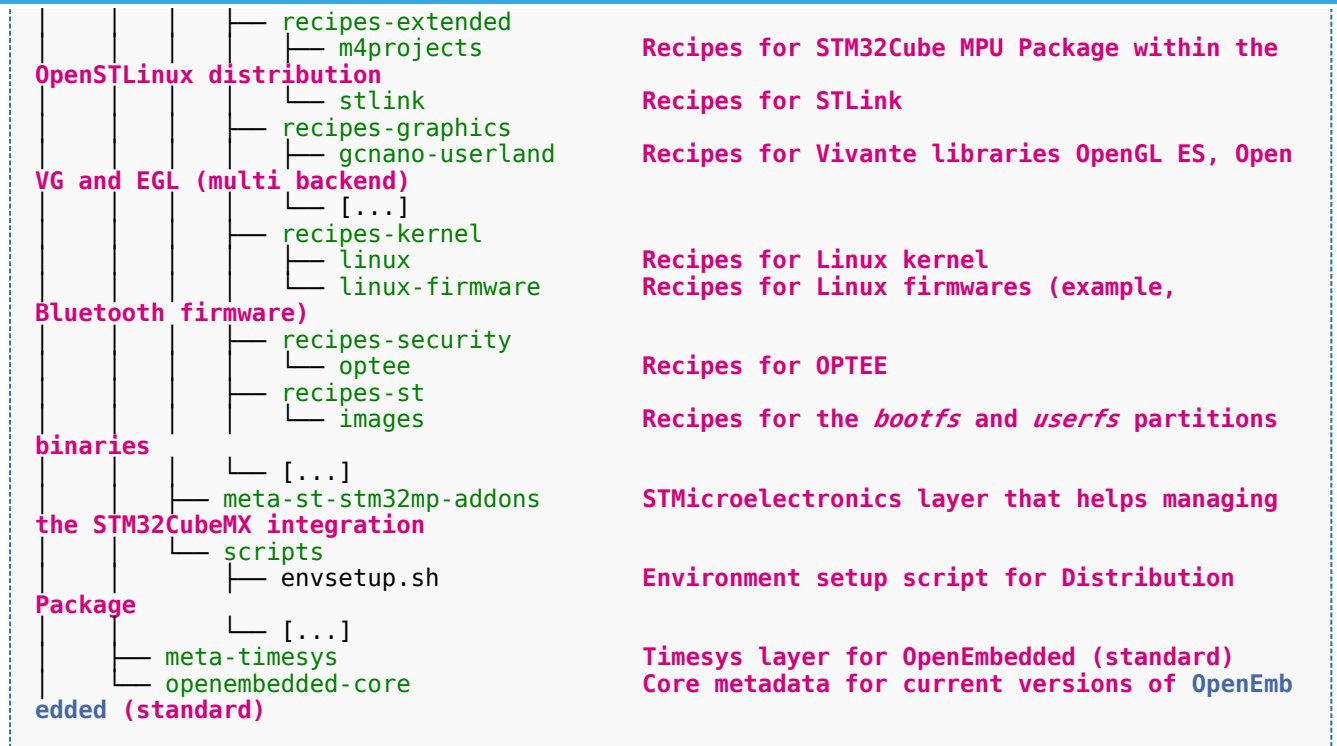
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ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: **Not stable** / Revision: 11.06.2020 - 15:33

This article aims to give the following information:

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STM32 microprocessors Series: Category:Distribution Package

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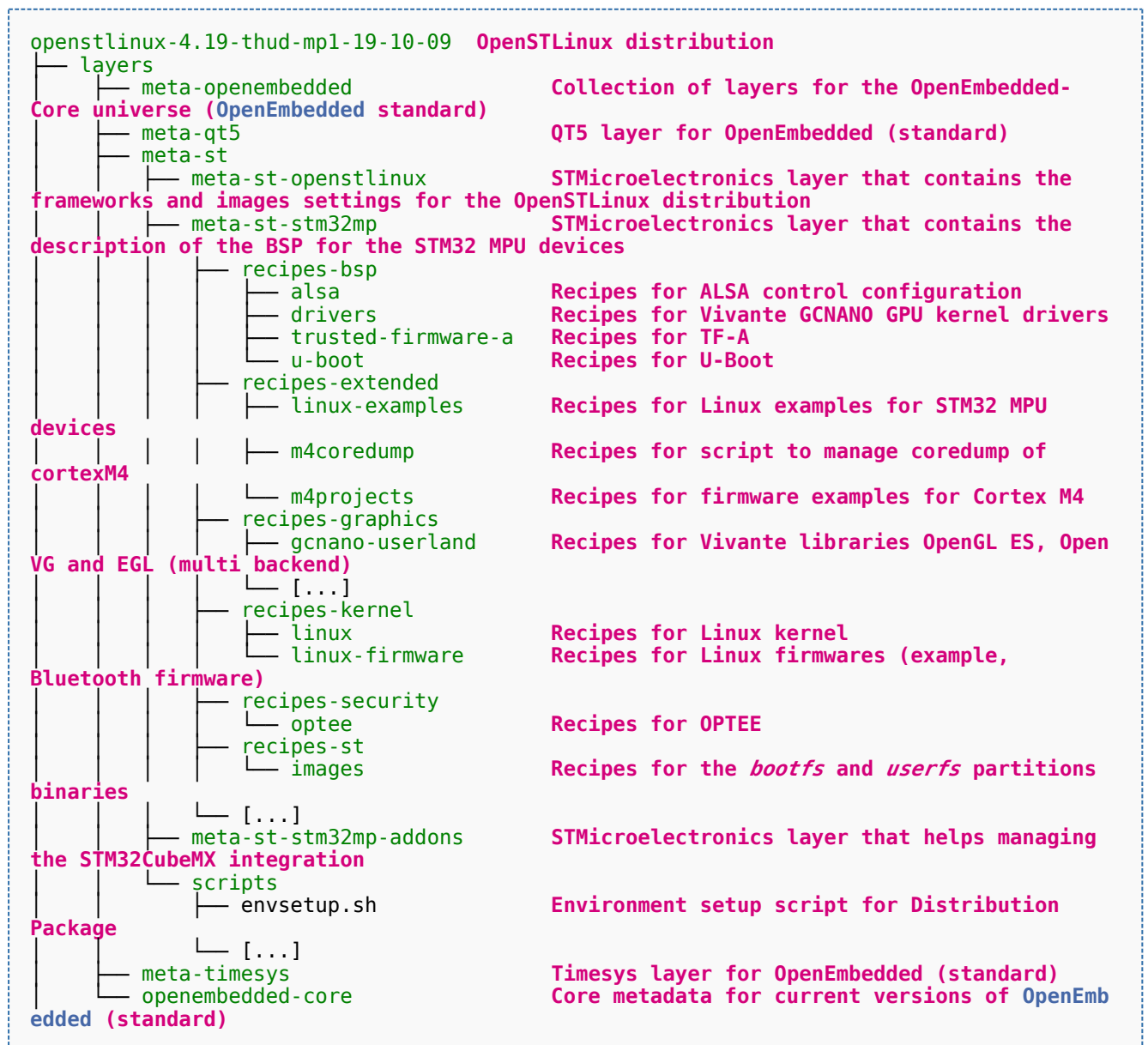
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Release	



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
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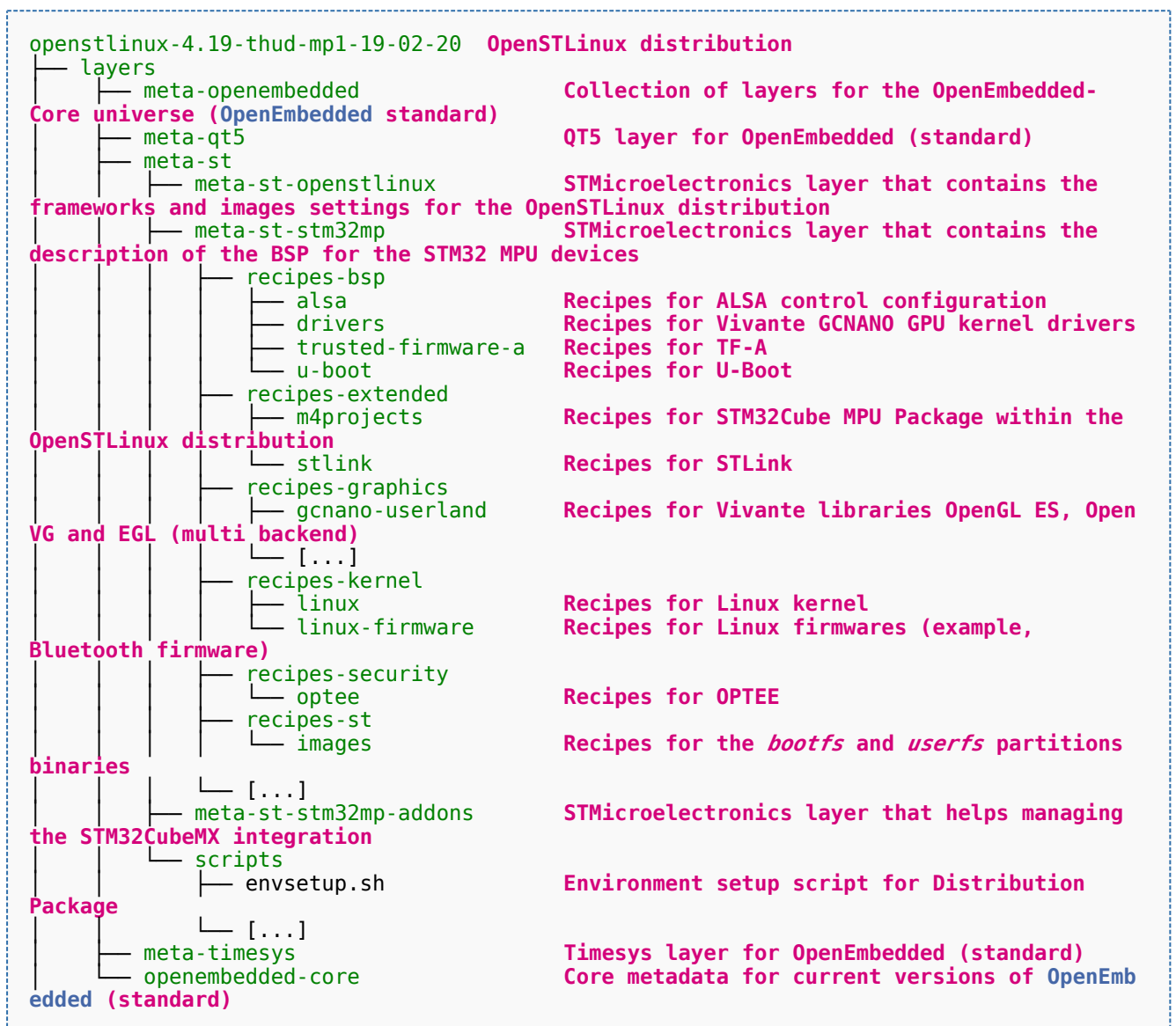
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- Install the STM32MP1 OpenSTLinux distribution

	STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
Installation	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory: <pre style="border: 1px dashed black; padding: 5px;">\$ cd <working directory path>/Distribution-Package</pre> • Create the OpenSTLinux distribution installation sub-directory: <pre style="border: 1px dashed black; padding: 5px;">\$ mkdir openstlinux-4.19-thud-mp1-19-02-20 \$ cd openstlinux-4.19-thud-mp1-19-02-20</pre> • Initialize repo in the current directory. <p>Details:</p> <p>The below command downloads (in the <code>.repo</code> directory) the latest repo source code and a manifest file (<i>default.xml</i>) that describes the directory structure of the repositories for OpenSTLinux.</p> <p>The <code>-u</code> option specifies the manifest repository location, while the <code>-b</code> option specifies its branch.</p> <pre style="border: 1px dashed black; padding: 5px;">\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-02-20</pre> <p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none"> • Synchronize the local project directories with the remote repositories specified in the manifest <p>Details:</p> <p>If a local project does not yet exist, the command clones a new local directory from the remote repository and sets up tracking branches as specified in the manifest.</p> <p>If the local project already exists, the command updates the remote branches and rebases any new local changes on top of the new remote changes.</p>



	STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
	<code>\$ repo sync</code>
Release note	Details about the content of this software package are available in the associated STM32MP15 ecosystem release note .

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-02-20`:



Open Source Software

Board support package



Microprocessor Unit

Advanced Linux sound architecture

Graphics Processing Units

Trusted Firmware for Arm Cortex-A

Das U-Boot -- the Universal Boot Loader (see [U-Boot_overview](#))

Open Graphics Library (See <http://www.opengl.org/> for more details)

Open Vector Graphics (See <http://www.khronos.org/opengv/> for more details)

Khronos Native Platform Graphics Interface (See <http://www.khronos.org/egl/> for more details)

ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)

STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 20.12.2019 - 15:12 / Revision: 12.12.2019 - 12:53

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
- Where to find the associated release note
- Where to find the previous releases (archives)




For more specific information, go through the Distribution Package article relative to your STM32 microprocessors Series: [Category:Distribution Package](#)

1 STM32MP15-Ecosystem-v1.1.0 release

- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not yet installed and configured on the host PC, refer to the [PC prerequisites](#) article.
- The OpenSTLinux distribution is massively using open source software (OSS) packages that are downloaded from a variety of open source repositories; so it is required that the IT infrastructure proxies do not forbid such accesses. If some proxy-related issues are suspected, refer to the [How to avoid proxy issues](#) article.
- Install the STM32MP1 OpenSTLinux distribution

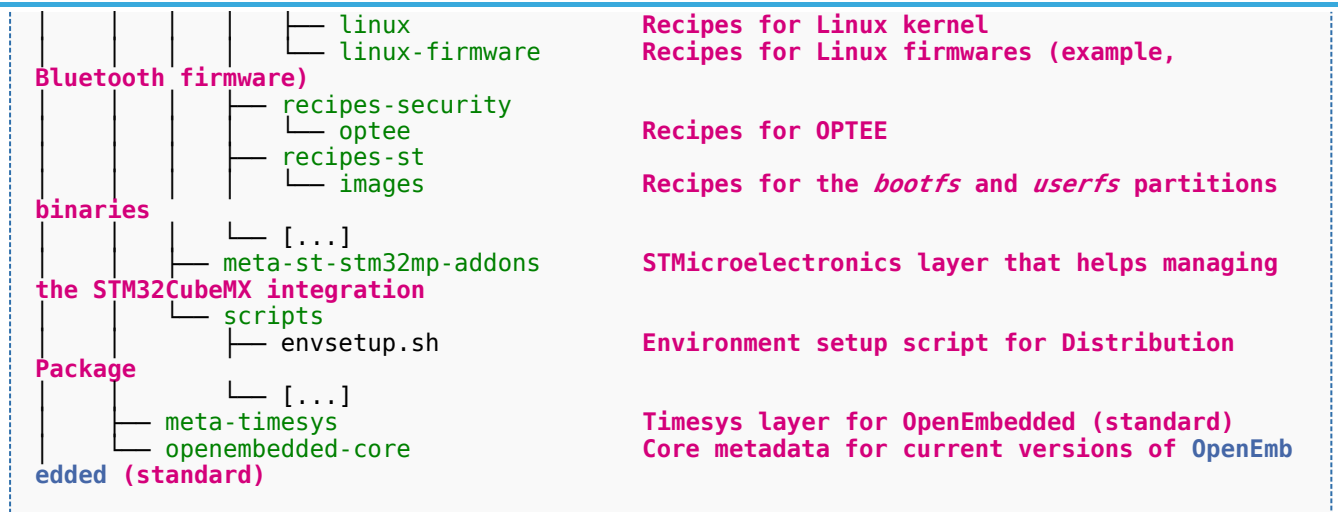
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory: <pre style="border: 1px dashed black; padding: 5px;">\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
Installation	<pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09</pre> <pre>\$ cd openstlinux-4.19-thud-mp1-19-10-09</pre> <ul style="list-style-type: none"> Initialize repo in the current directory (More details on 'repo init' here). <pre>\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-10-09</pre> <p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none"> Synchronize the local project directories with the remote repositories specified in the manifest (more details on 'repo sync' here) <pre>\$ repo sync</pre> <p>Note: <i>Distribution package</i> needs around 140MB to be installed (and around 25GB once <i>distribution package</i> is compiled).</p>
Release note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p> If interested in previous releases, go through the archives of the ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-10-09`:

openstlinux-4.19-thud-mp1-19-10-09 OpenSTLinux distribution	
layers	
meta-openembedded	Collection of layers for the OpenEmbedded-
Core universe (OpenEmbedded standard)	
meta-qt5	QT5 layer for OpenEmbedded (standard)
meta-st	
meta-st-openstlinux	STMicroelectronics layer that contains the
frameworks and images settings for the OpenSTLinux distribution	
meta-st-stm32mp	STMicroelectronics layer that contains the
description of the BSP for the STM32 MPU devices	
recipes-bsp	
alsa	Recipes for ALSA control configuration
drivers	Recipes for Vivante GCNANO GPU kernel drivers
trusted-firmware-a	Recipes for TF-A
u-boot	Recipes for U-Boot
recipes-extended	
linux-examples	Recipes for Linux examples for STM32 MPU
devices	
cortexM4	
m4coredump	Recipes for script to manage coredump of
m4projects	Recipes for firmware examples for Cortex M4
recipes-graphics	
gcnano-userland	Recipes for Vivante libraries OpenGL ES, Open
VG and EGL (multi backend)	
[...]	
recipes-kernel	



2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

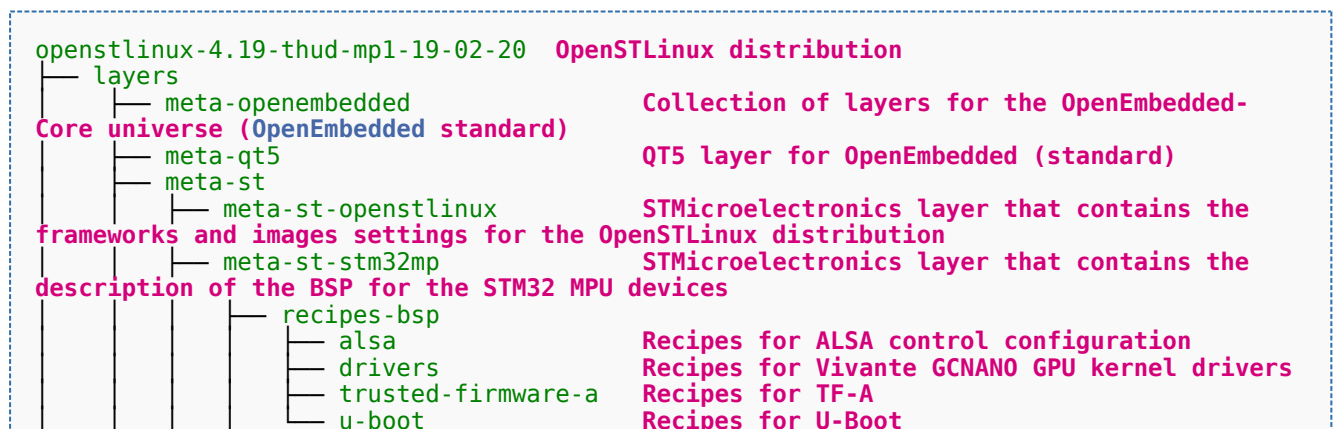
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not yet installed and configured on the host PC, refer to the [PC prerequisites](#) article.
- The OpenSTLinux distribution is massively using open source software (OSS) packages that are downloaded from a variety of open source repositories; so it is required that the IT infrastructure proxies do not forbid such accesses. If some proxy-related issues are suspected, refer to the [How to avoid proxy issues](#) article.
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STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
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<ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory: 	



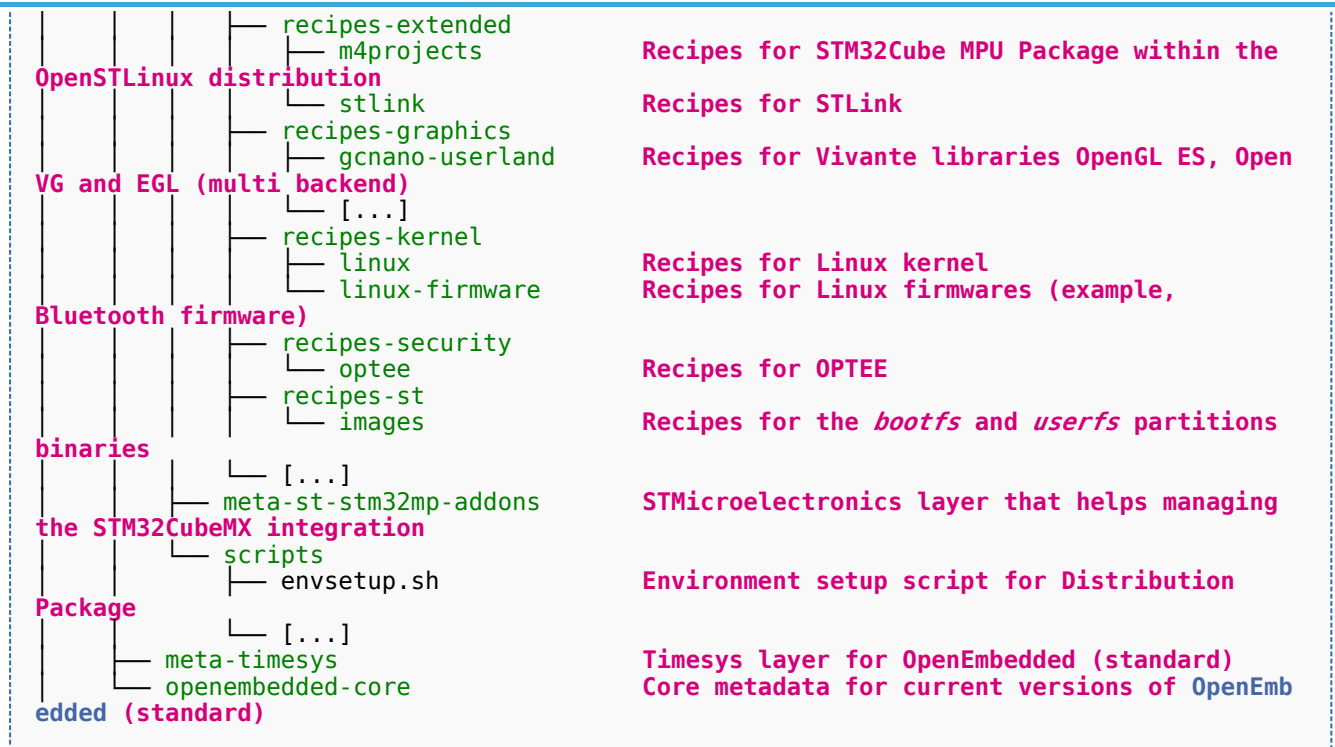
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Install ation	<pre>\$ mkdir openstlinux-4.19-thud-mp1-19-02-20 \$ cd openstlinux-4.19-thud-mp1-19-02-20</pre> <ul style="list-style-type: none"> Initialize repo in the current directory. <p>Details:</p> <p>The below command downloads (in the <code>.repo</code> directory) the latest repo source code and a manifest file (<code>default.xml</code>) that describes the directory structure of the repositories for OpenSTLinux.</p> <p>The <code>-u</code> option specifies the manifest repository location, while the <code>-b</code> option specifies its branch.</p> <pre>\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-02-20</pre> <p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none"> Synchronize the local project directories with the remote repositories specified in the manifest <p>Details:</p> <p>If a local project does not yet exist, the command clones a new local directory from the remote repository and sets up tracking branches as specified in the manifest.</p> <p>If the local project already exists, the command updates the remote branches and rebases any new local changes on top of the new remote changes.</p> <pre>\$ repo sync</pre>
Relea se note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the `<Distribution Package installation directory>`, and is named `openstlinux-4.19-thud-mp1-19-02-20`:





STM32MP1 Distribution Package - OpenSTLinux distribution



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