



STM32MP1 Distribution Package - OpenSTLinux distribution



Contents

1. STM32MP1 Distribution Package - OpenSTLinux distribution	3
2. Category:Distribution Package	7
3. PC prerequisites	12
4. How to avoid proxy issues	16
5. Example of directory structure for Packages	21
6. STM32MP15 ecosystem release note - v1.1.0	25
7. STM32MP15 ecosystem release note	30
8. OpenEmbedded	34
9. STM32MP15 ecosystem release note - v1.0.0	39
10. U-Boot overview	43
11. ST-LINK	48



STM32MP1 Distribution Package - OpenSTLinux distribution

Stable: 09.10.2019 - 13:15 / Revision: 09.10.2019 - 13:13

A [quality version](#) of this page, [accepted](#) on 9 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

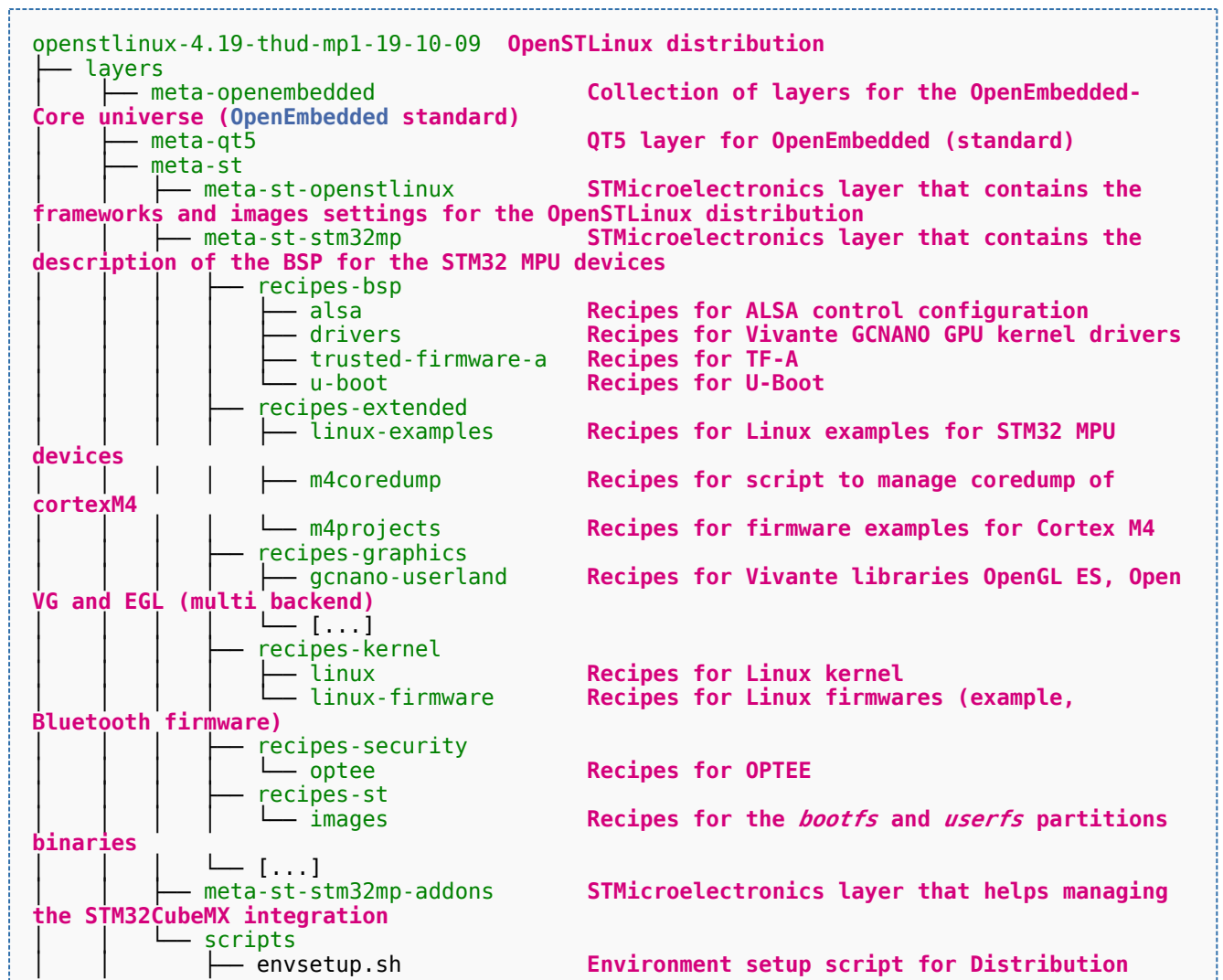
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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

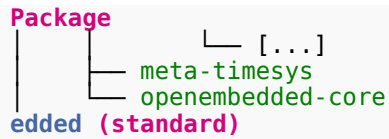
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
Installation	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:
	<pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none">• Create the OpenSTLinux distribution installation sub-directory:
	<pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<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) <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div> <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`:





Timesys layer for OpenEmbedded (standard)
Core metadata for current versions of OpenEmb

2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

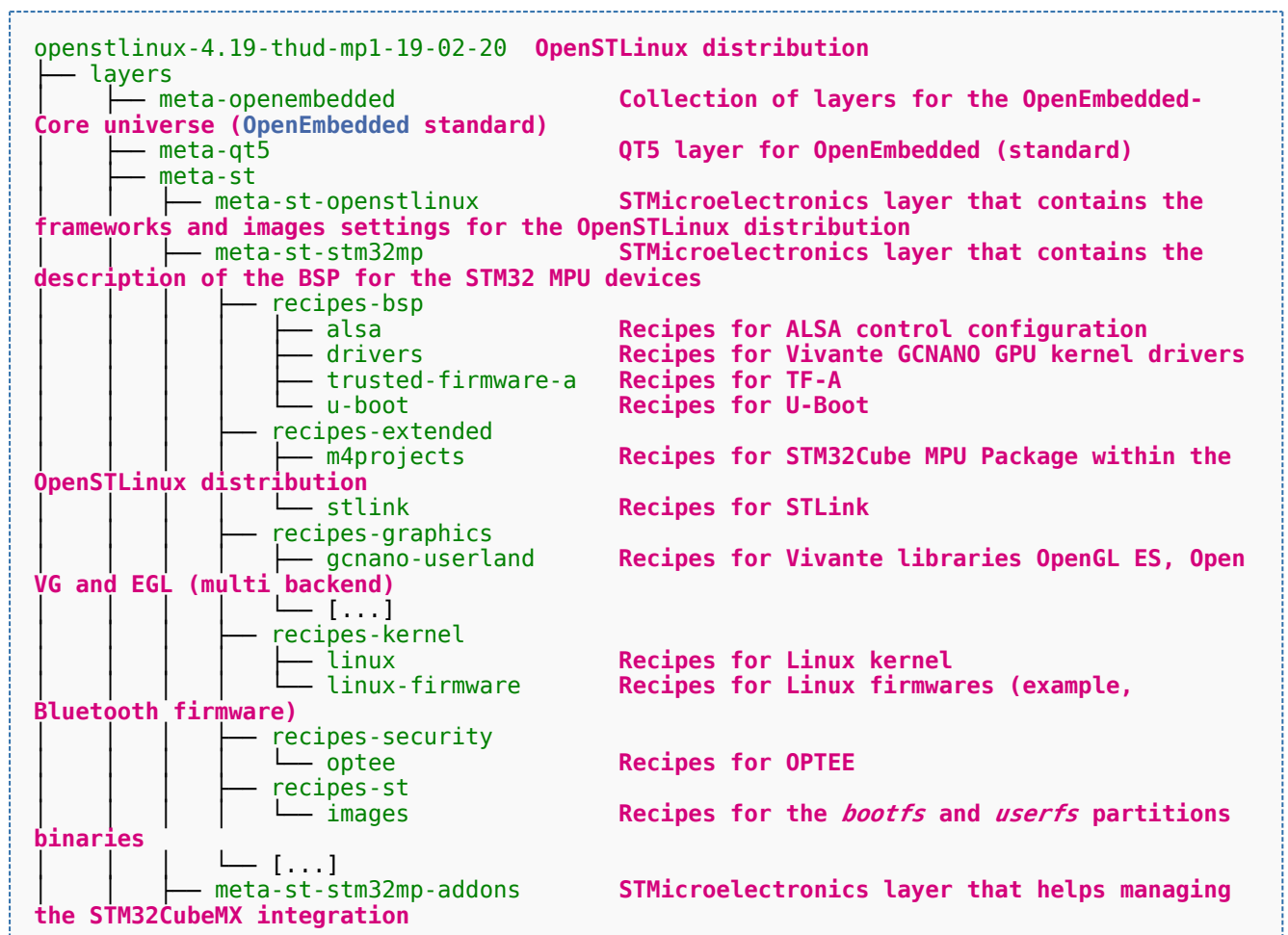
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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.
- 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>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none">• Create the OpenSTLinux distribution installation sub-directory:
	<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.
	Details: 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. The <code>-u</code> option specifies the manifest repository location, while the <code>-b</code> option specifies its branch.
	<pre>\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-02-20</pre>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<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> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div>
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-mp1-19-02-20`:





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/openvg/> 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

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](#)

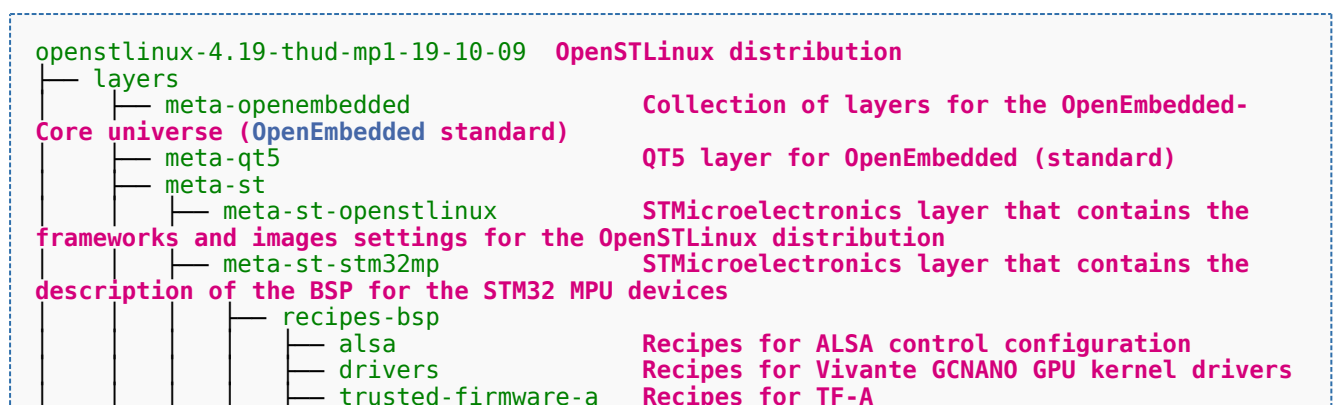
1 STM32MP15-Ecosystem-v1.1.0 release

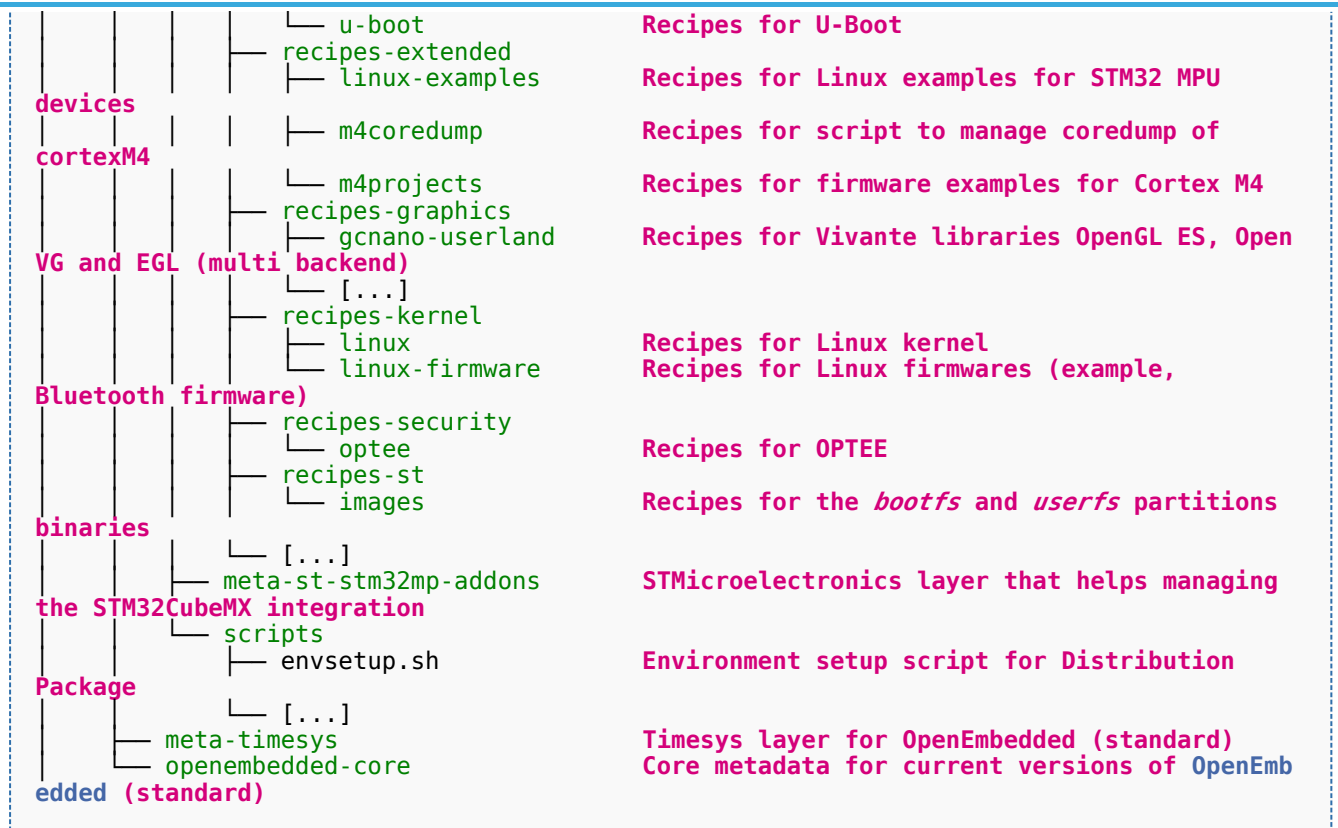
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
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>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

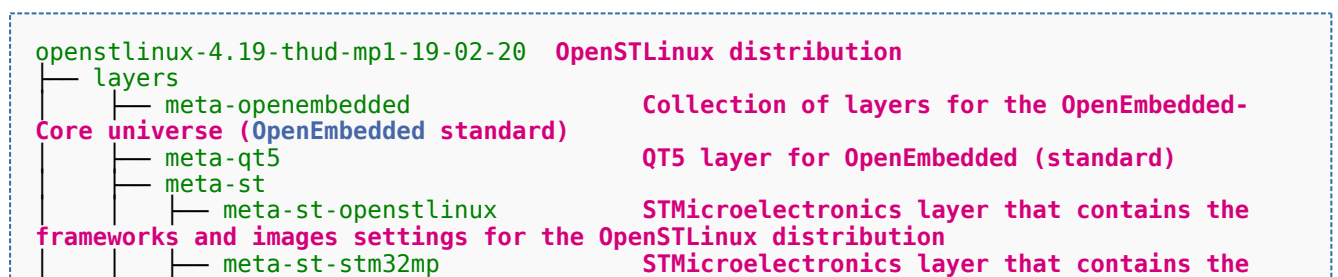
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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.
- Install the STM32MP1 OpenSTLinux distribution

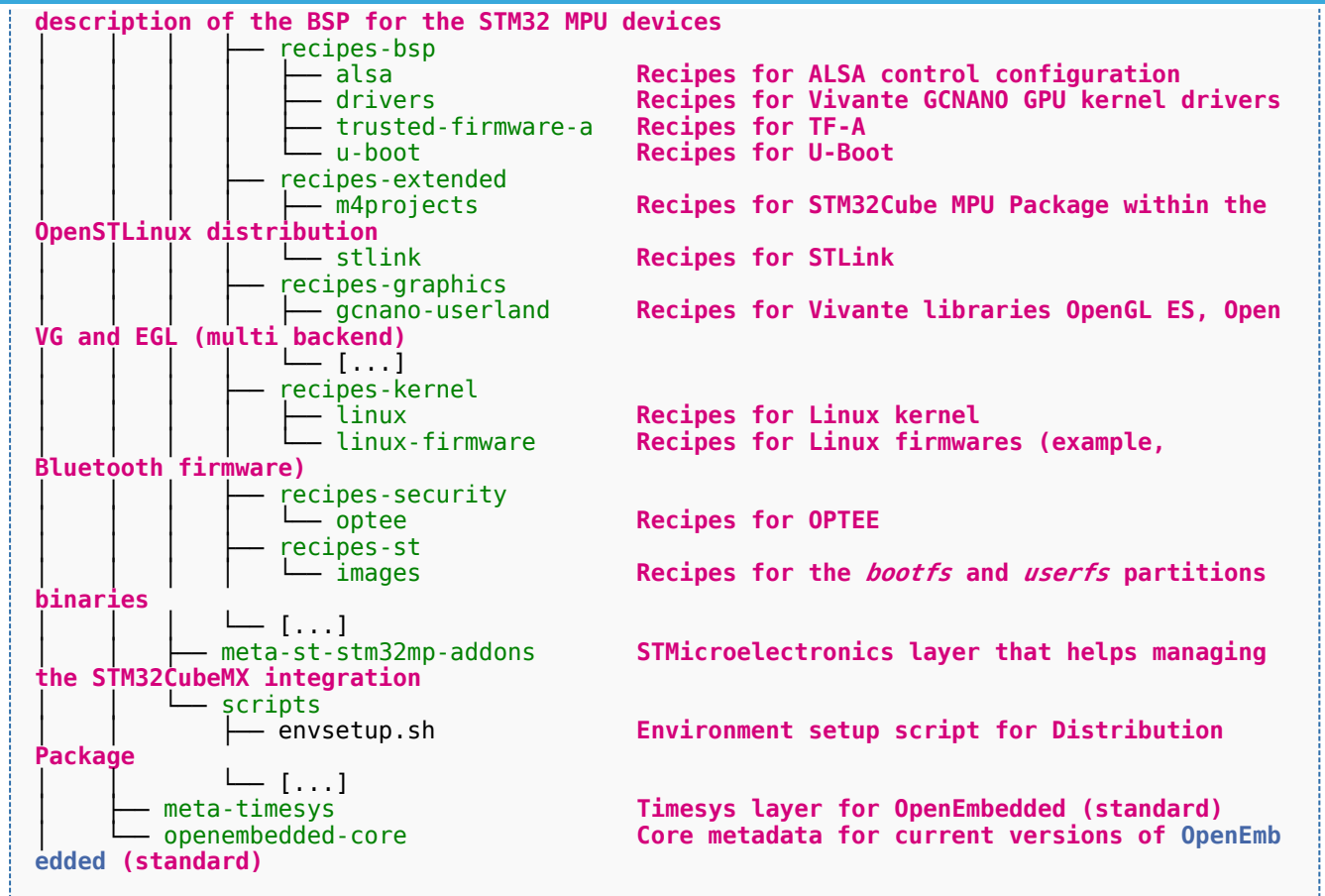
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <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>
	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/opencv/> 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)

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: 21.02.2020 - 08:23 / Revision: 14.02.2020 - 16:43

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

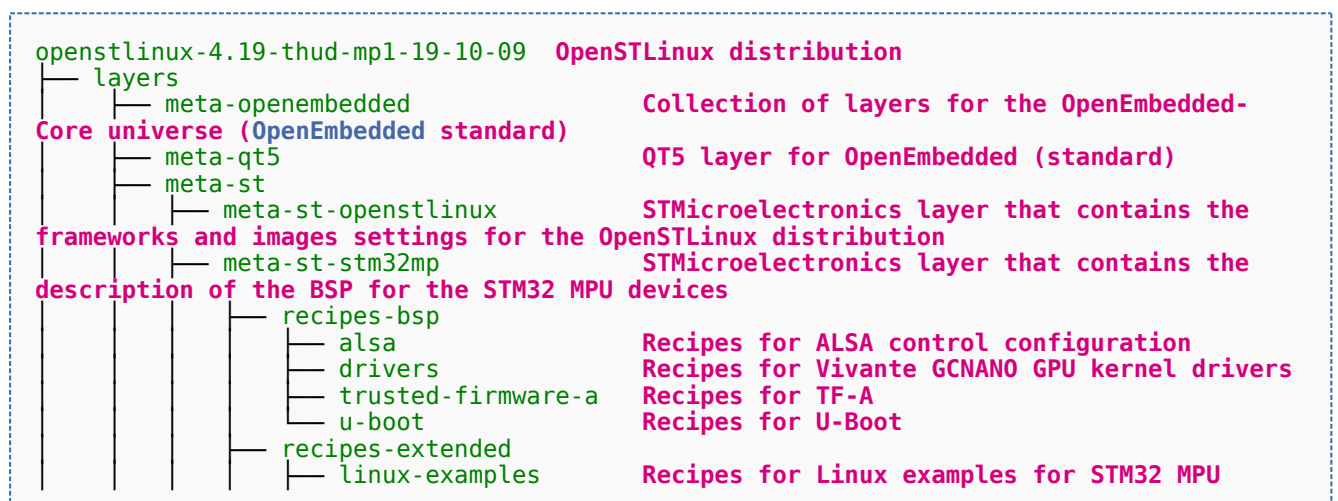
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-10-09**).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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

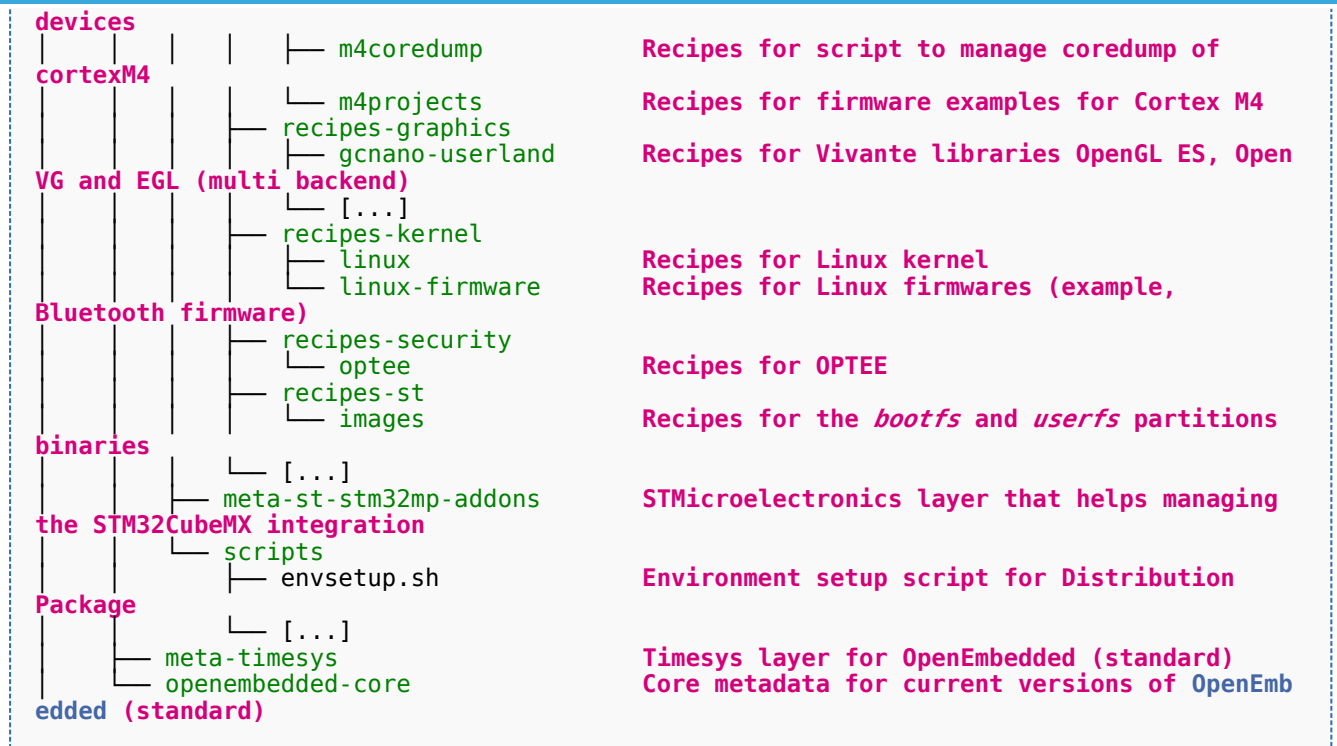
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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

- 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

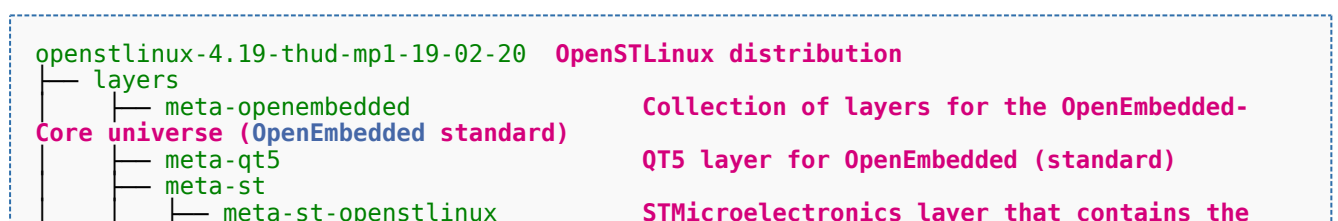
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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.
- Install the STM32MP1 OpenSTLinux distribution

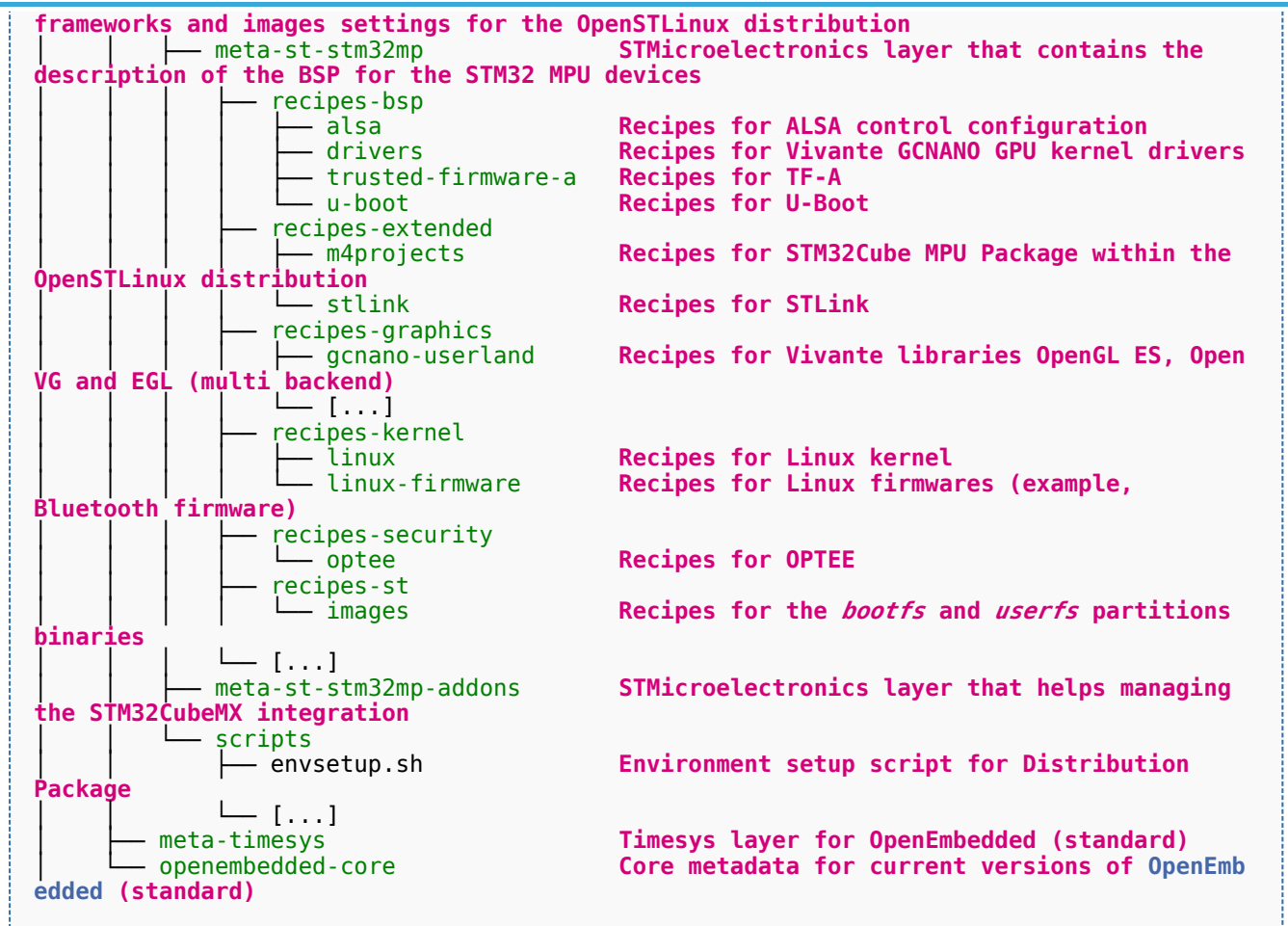
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <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>
	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/openvg/> 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: 26.09.2019 - 13:27 / Revision: 26.09.2019 - 13:26



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
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>\$ cd <working directory path>/Distribution-Package</pre>• Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ cd openstlinux-4.19-thud-mp1-19-10-09</pre>• 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)



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<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`:



2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

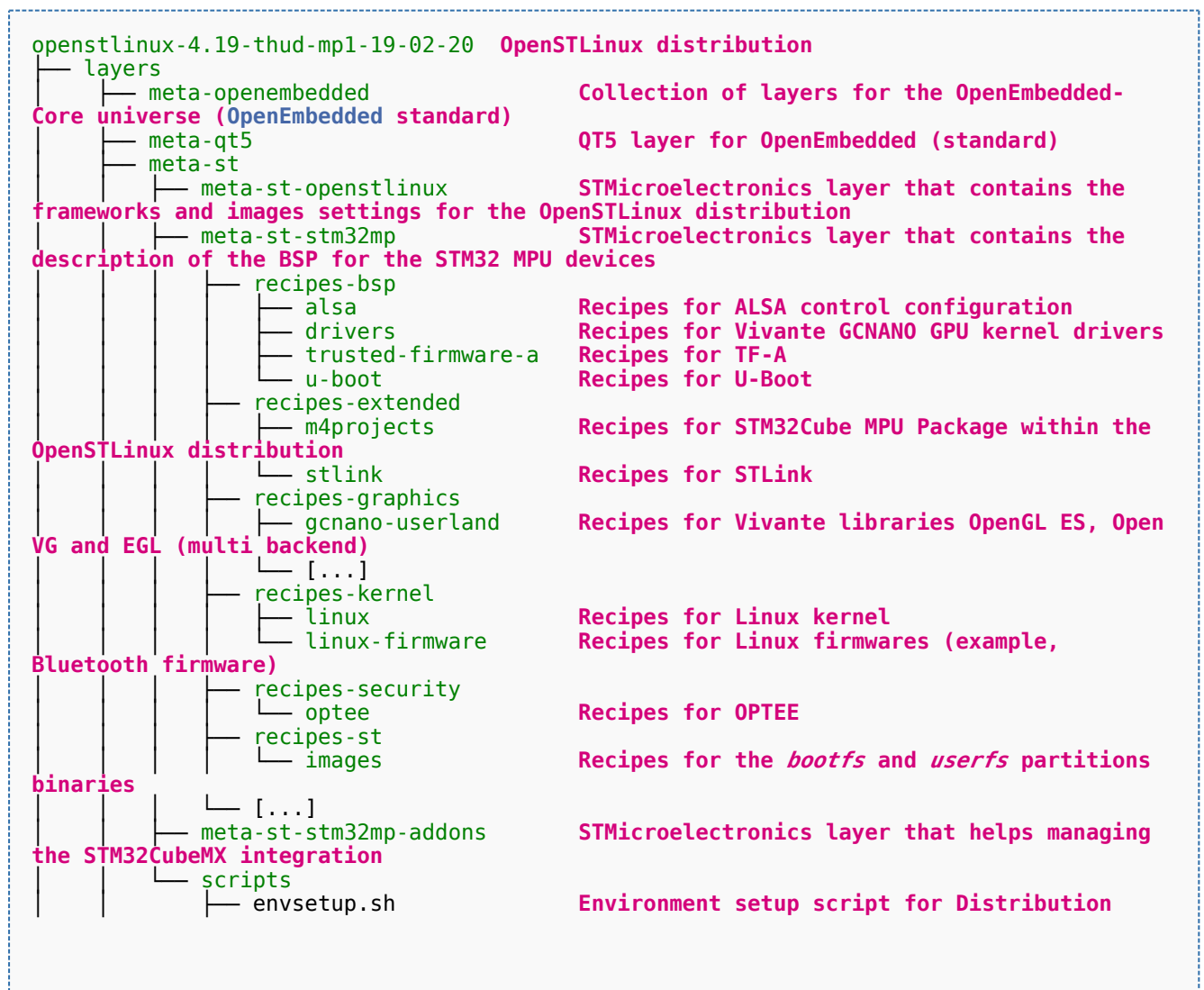
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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.
- Install the STM32MP1 OpenSTLinux distribution

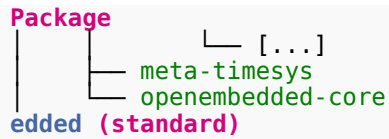
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:
	<pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory:
	<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 (<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>\$ 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>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<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> <div style="border: 1px dashed blue; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div>
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-mp1-19-02-20`:





Timesys layer for OpenEmbedded (standard)
Core metadata for current versions of OpenEmb

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/openvg/> 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: 21.02.2020 - 08:27 / Revision: 19.02.2020 - 16:49

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](#)

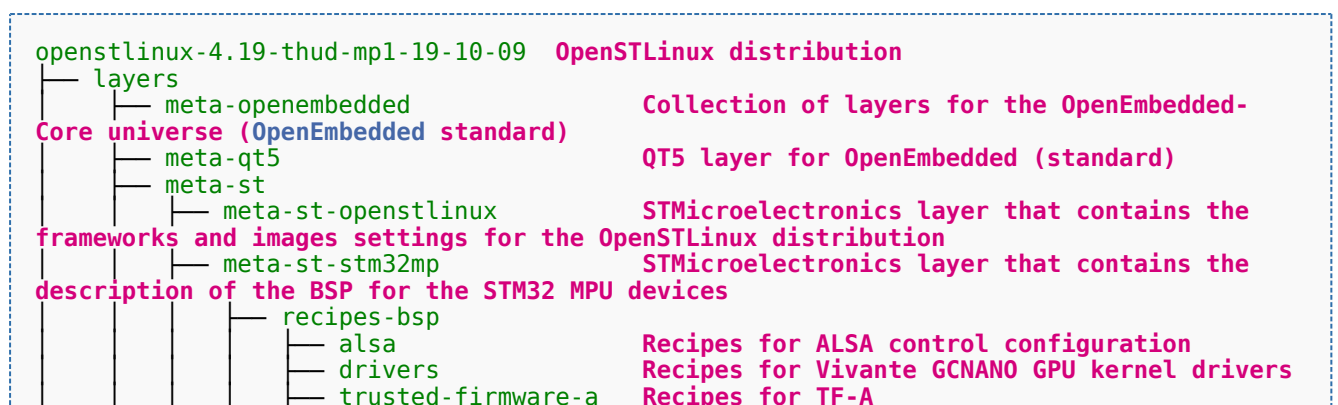
1 STM32MP15-Ecosystem-v1.1.0 release

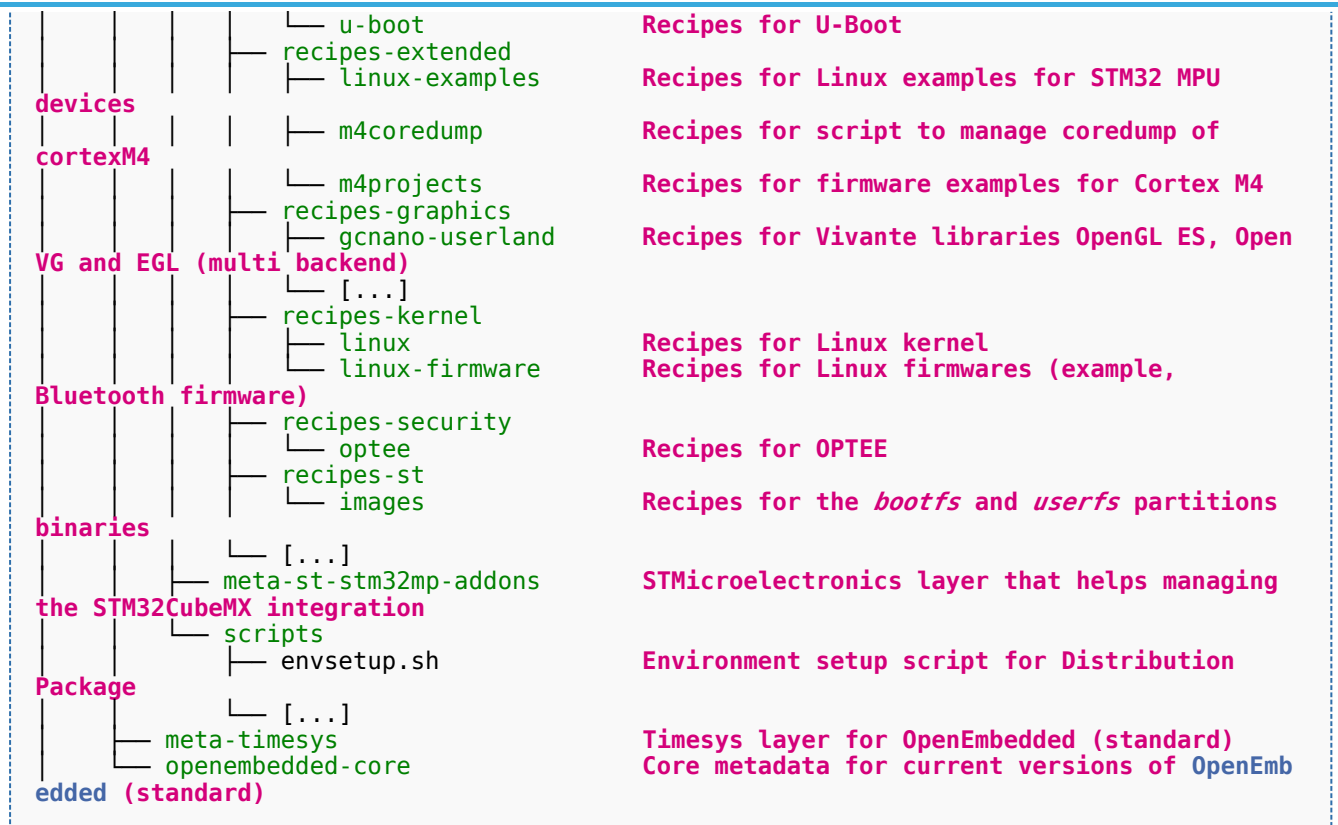
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
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>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

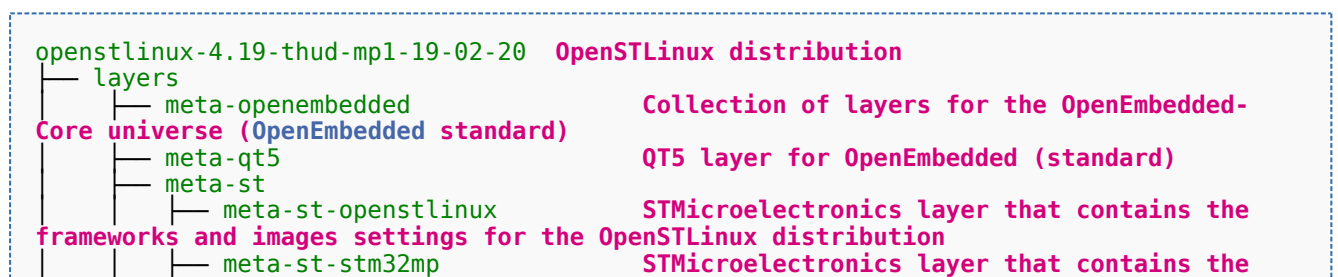
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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.
- Install the STM32MP1 OpenSTLinux distribution

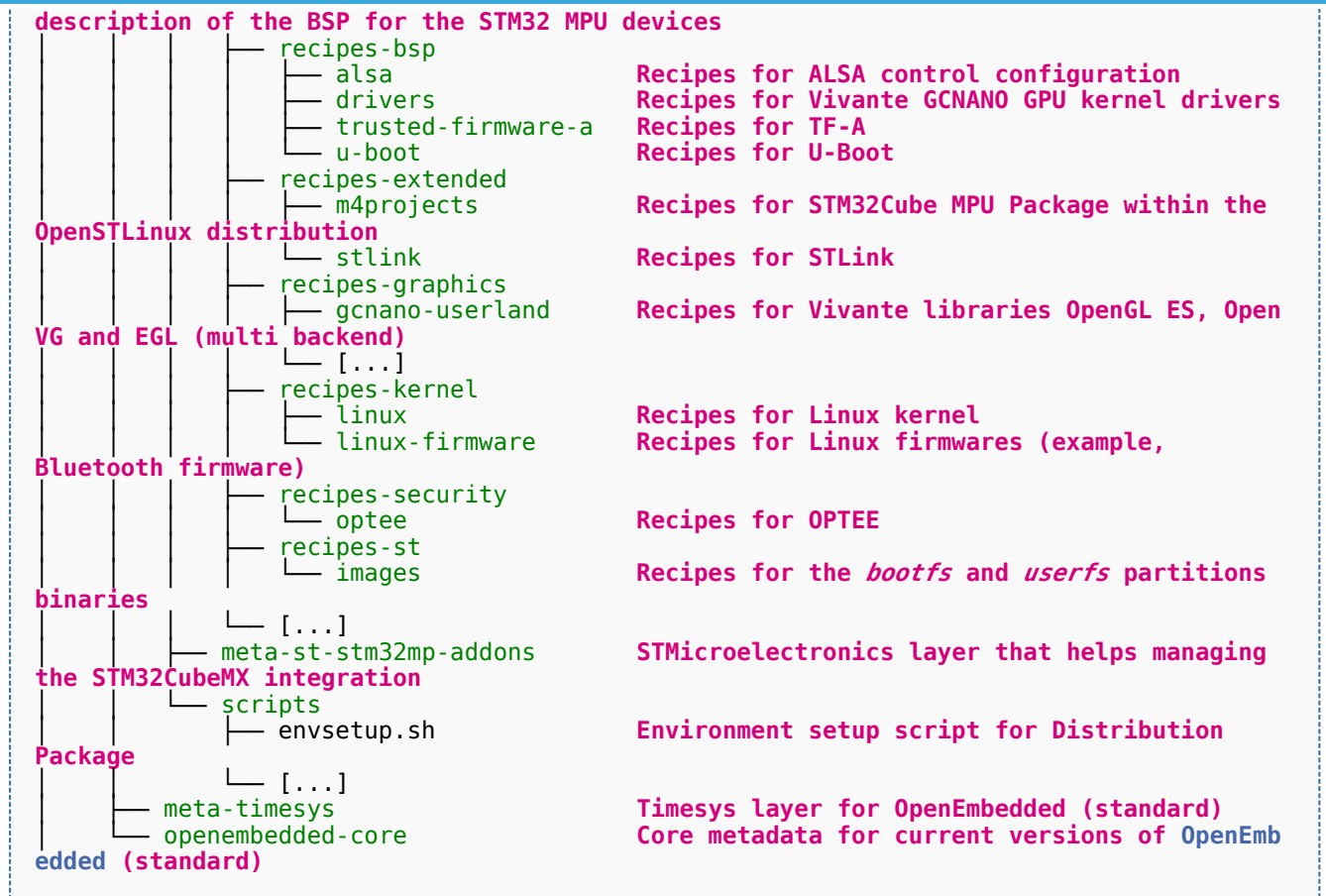
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <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>
	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/opencv/> 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: 02.04.2020 - 09:29 / Revision: 02.04.2020 - 09:24

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

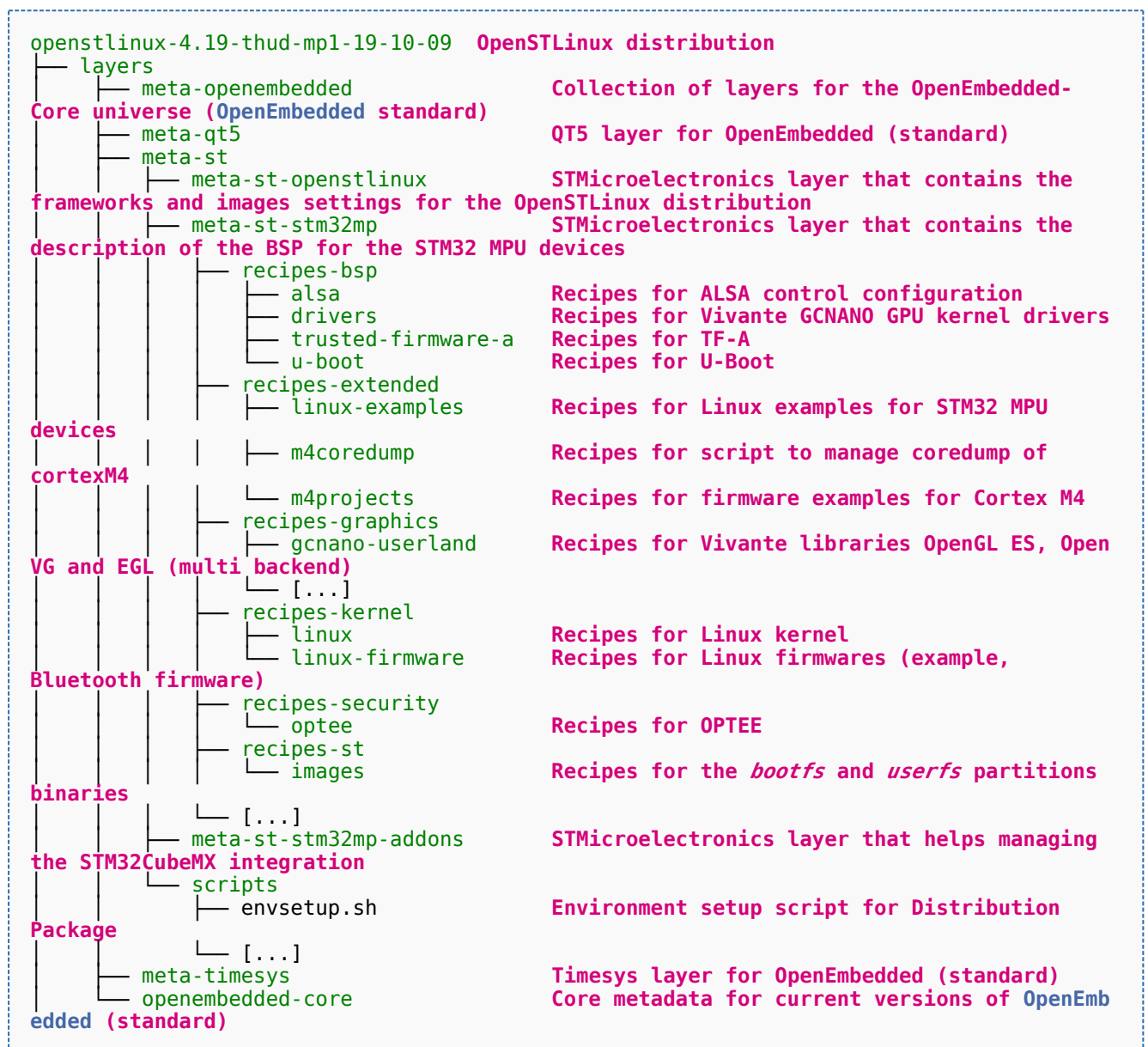
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
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> <ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory: <pre style="border: 1px dashed black; padding: 5px;">\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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 style="border: 1px dashed black; padding: 5px;">\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-10-09</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)



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<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`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

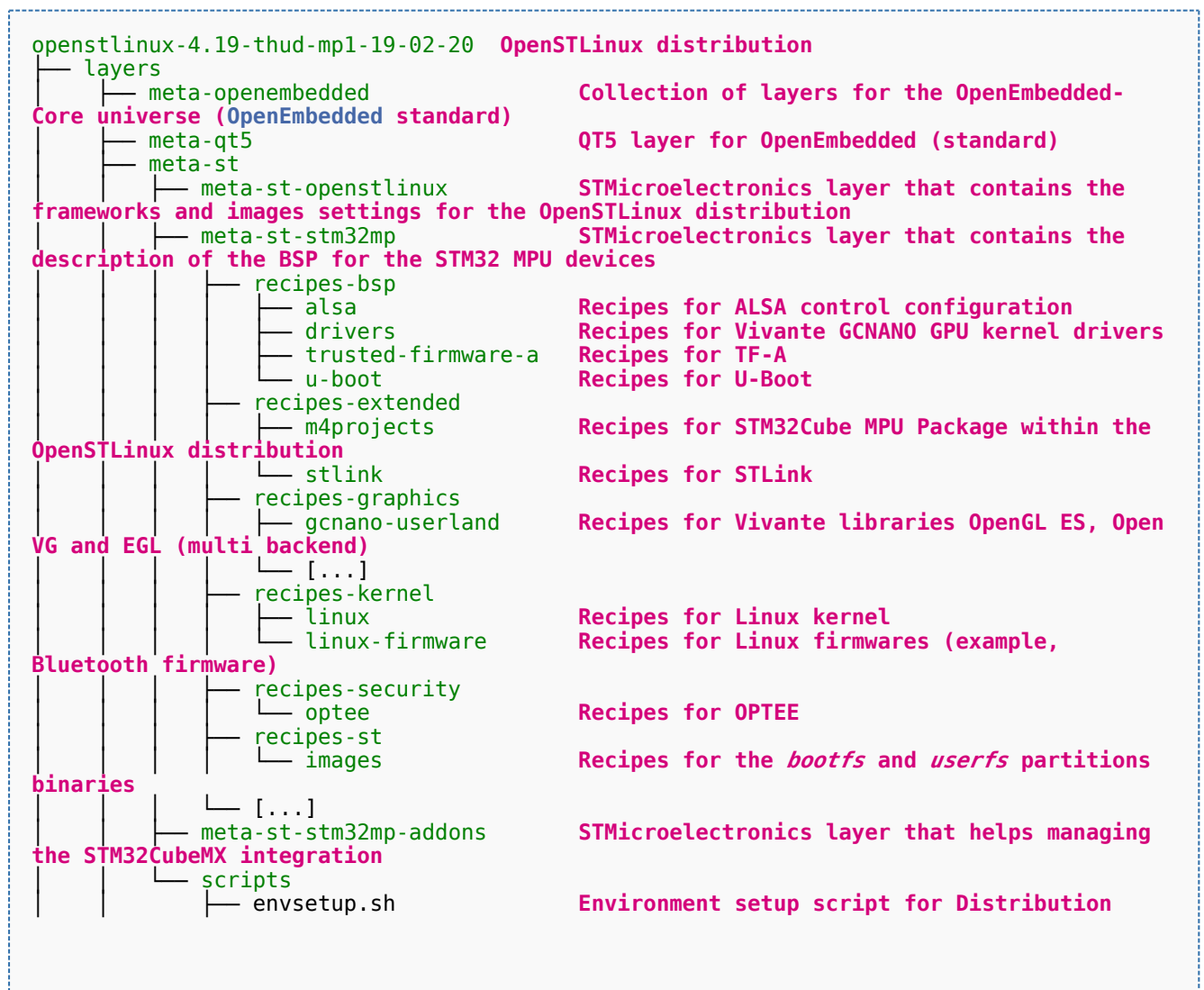
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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.
- Install the STM32MP1 OpenSTLinux distribution

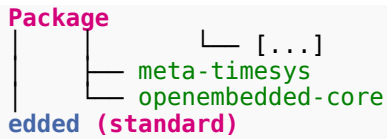
	STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
Installation	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:<pre>\$ cd <working directory path>/Distribution-Package</pre>• Create the OpenSTLinux distribution installation sub-directory:<pre>\$ 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>\$ 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>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<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> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div>
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-mp1-19-02-20`:





Timesys layer for OpenEmbedded (standard)
Core metadata for current versions of OpenEmb

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/opencv/> 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: 21.02.2020 - 13:34 / Revision: 21.02.2020 - 13:03

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

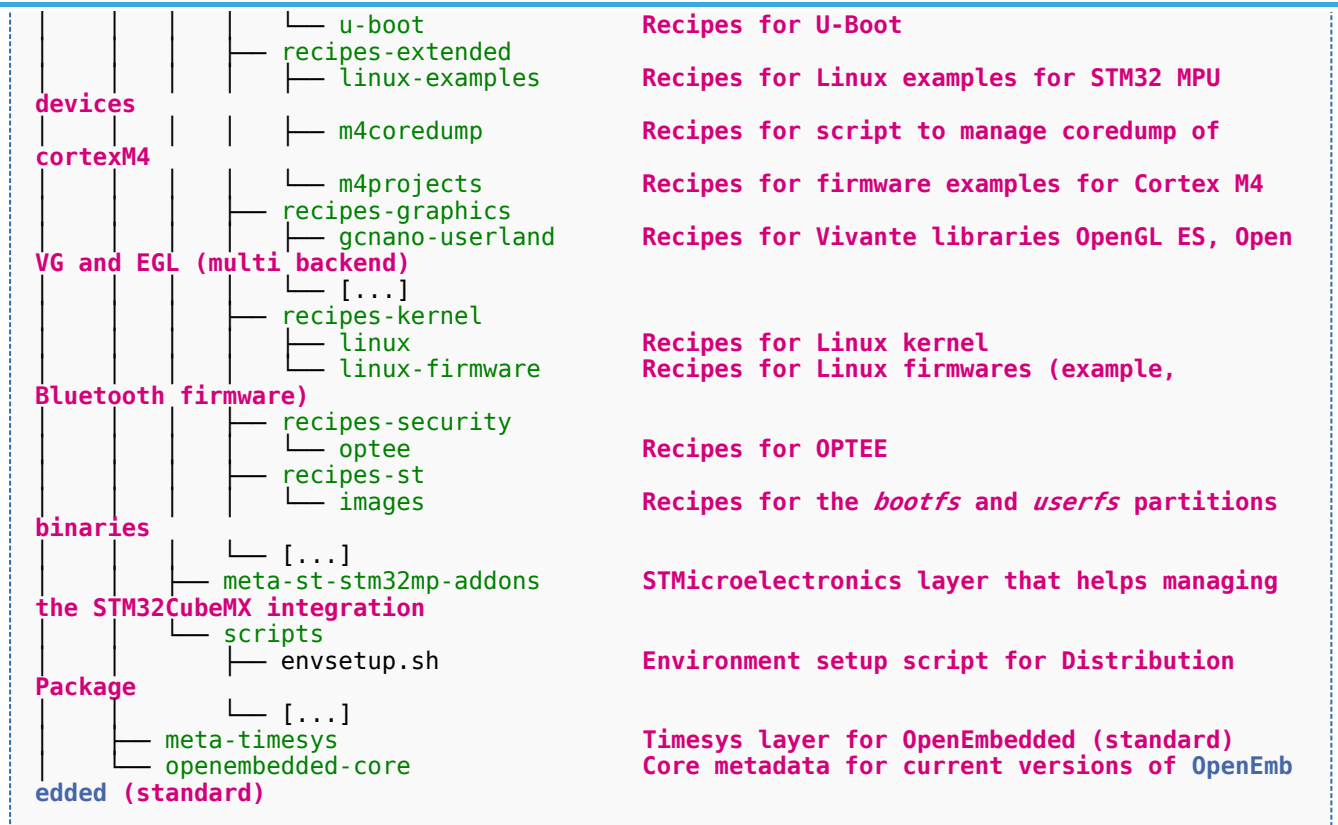
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
Installation	<ul style="list-style-type: none"> Go to the host PC directory where to install the Distribution Package (<Distribution Package installation directory>). Example, if following the proposition to organize the working directory: <pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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: Distribution package needs around 140MB to be installed (and around 25GB once distribution package 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:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

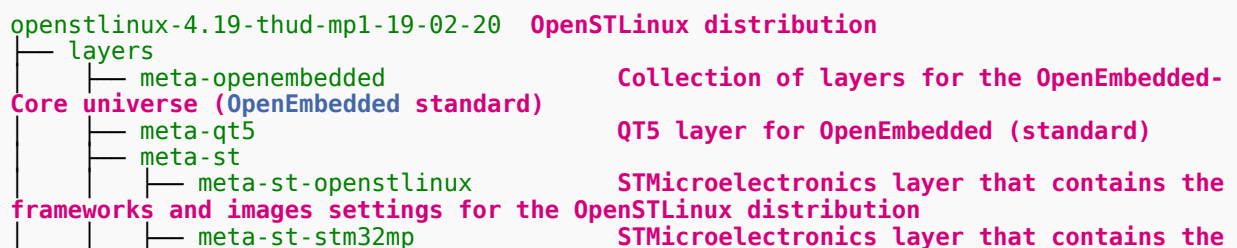
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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.
- Install the STM32MP1 OpenSTLinux distribution

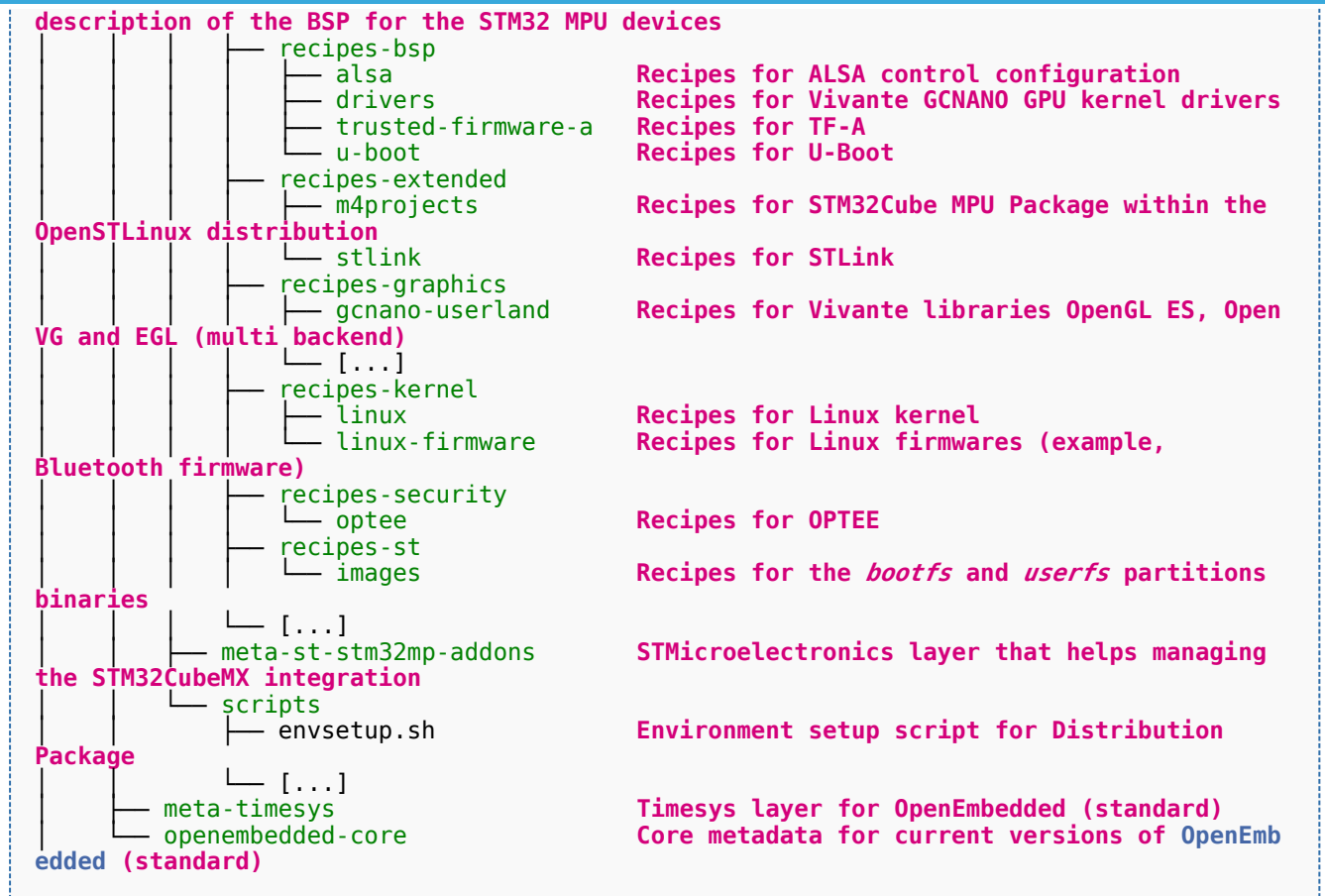
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <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>
	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/opencvg/> 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: 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
- 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

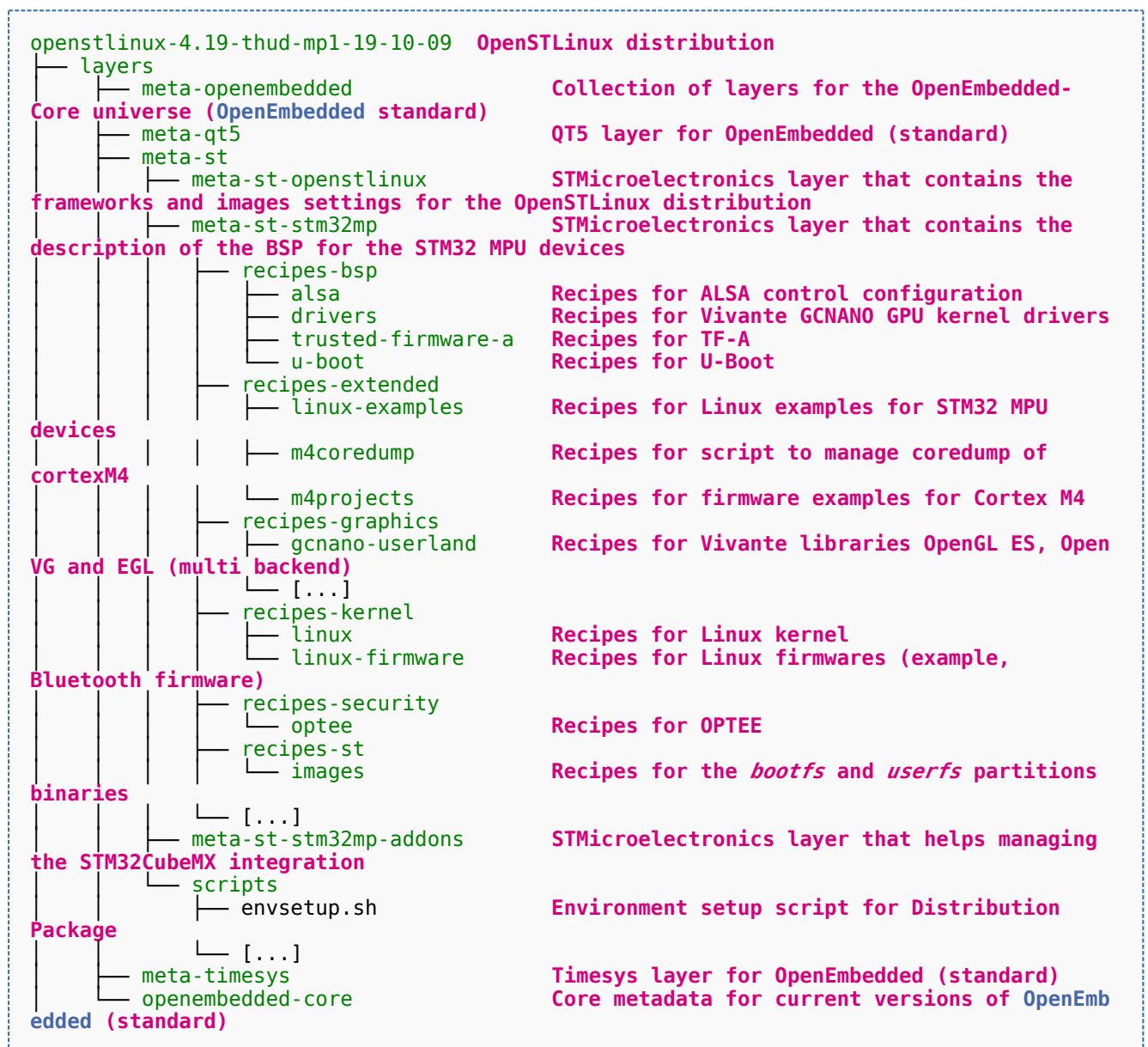
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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
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>\$ cd <working directory path>/Distribution-Package</pre>• Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ cd openstlinux-4.19-thud-mp1-19-10-09</pre>• 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)



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<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`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

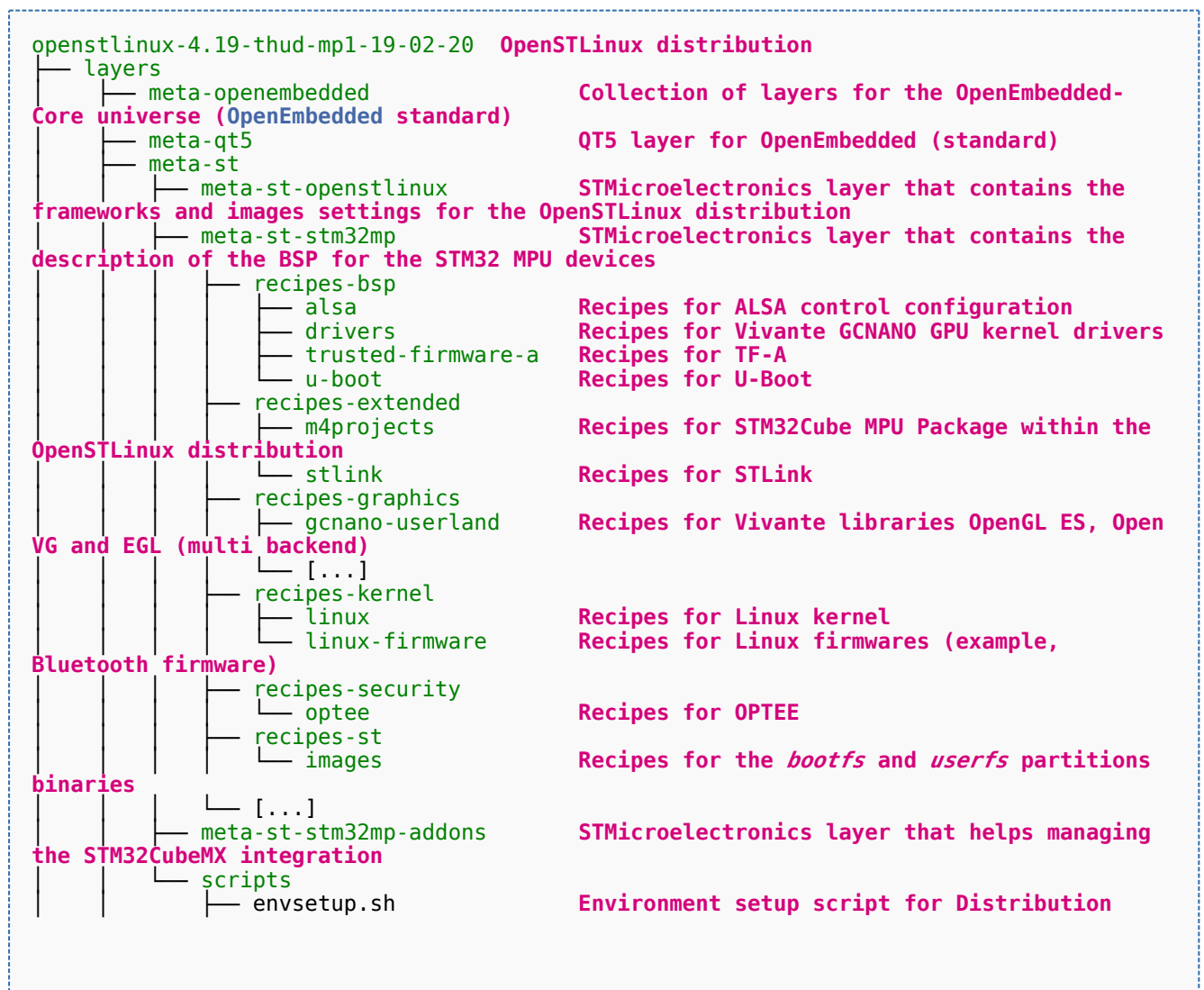
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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.
- Install the STM32MP1 OpenSTLinux distribution

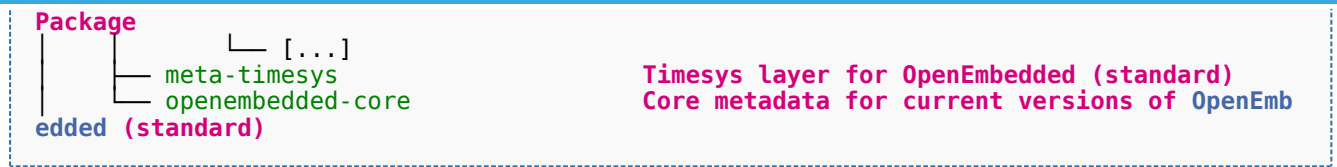
	STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
Installation	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory: <pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none">• Create the OpenSTLinux distribution installation sub-directory: <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 (<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>\$ 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>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<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> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div>
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-mp1-19-02-20`:





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/openvg/> 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: 02.04.2020 - 09:50 / Revision: 02.04.2020 - 09:49

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](#)

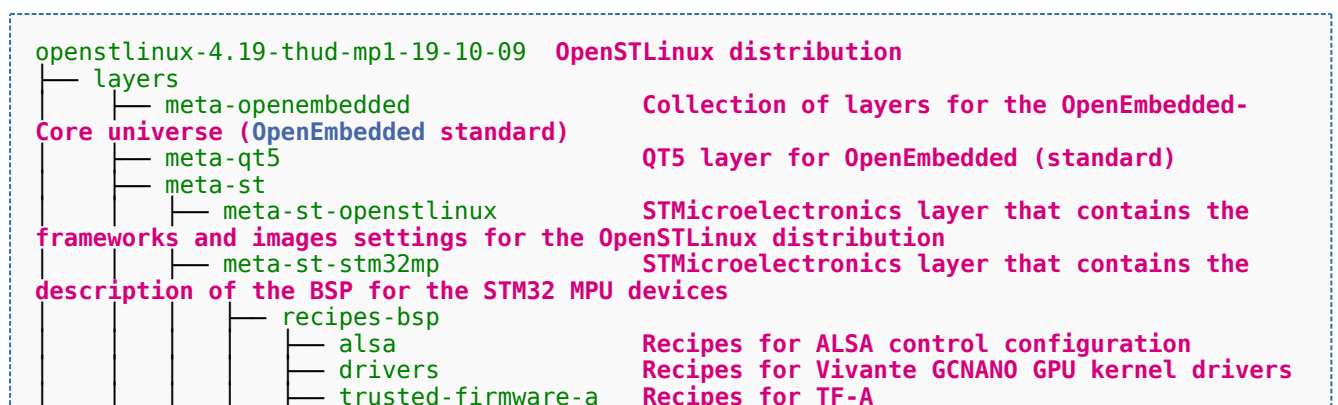
1 STM32MP15-Ecosystem-v1.1.0 release

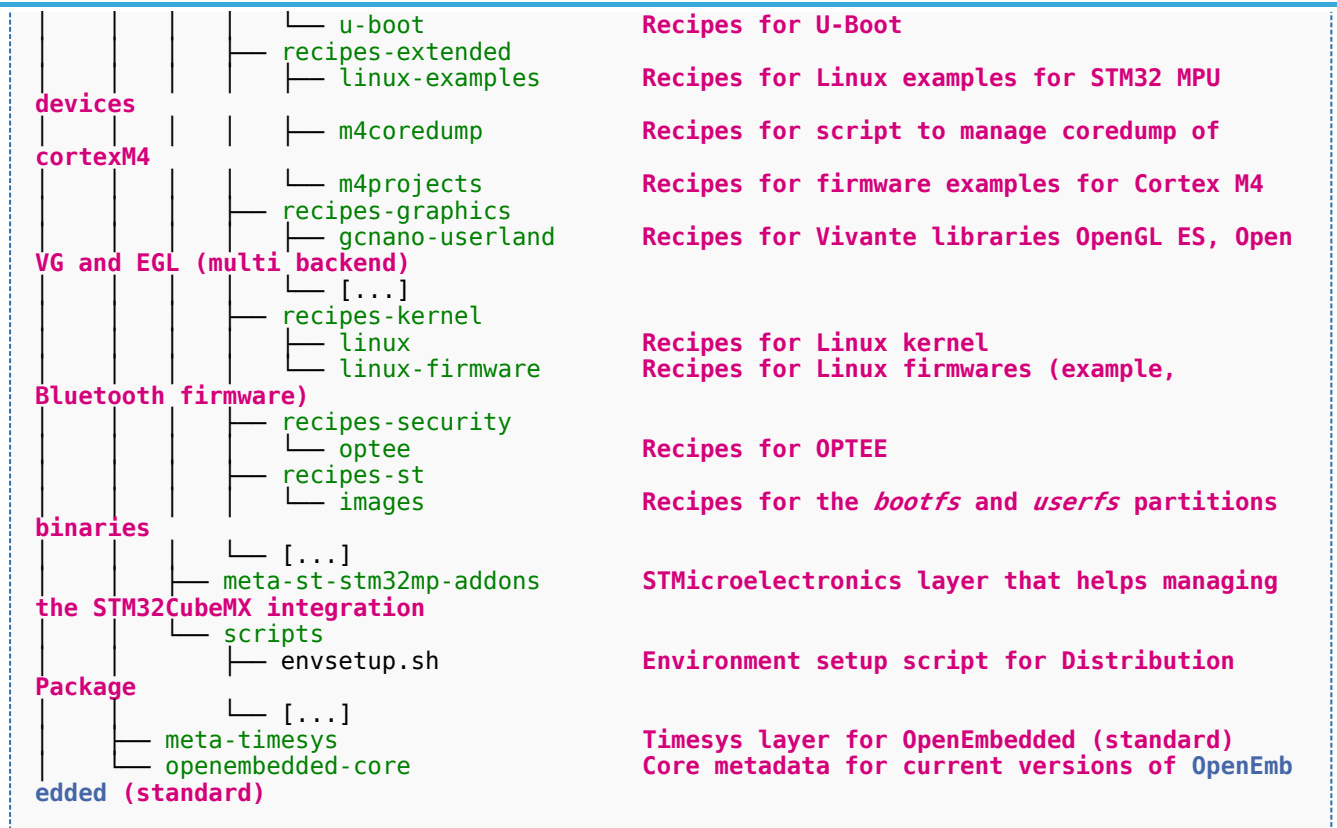
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
Installation	<ul style="list-style-type: none"> Go to the host PC directory where to install the Distribution Package (<Distribution Package installation directory>). Example, if following the proposition to organize the working directory: <pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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:





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.
- Install the STM32MP1 OpenSTLinux distribution

STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 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:



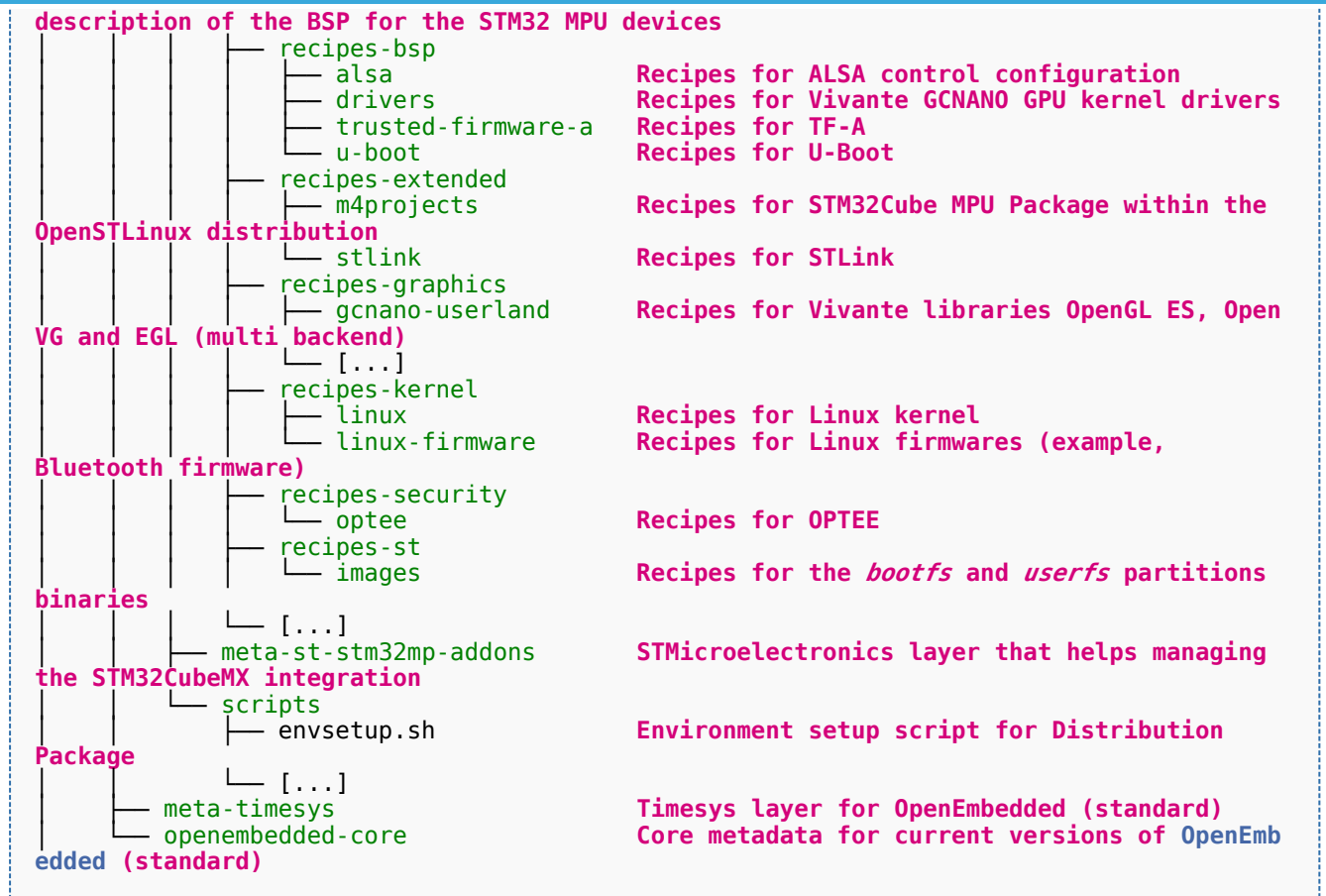
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-02-20 \$ 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>
	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`:

```

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

```



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/opencv/> 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: 23.01.2020 - 13:52 / Revision: 23.01.2020 - 13:46



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
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>\$ cd <working directory path>/Distribution-Package</pre>• Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ cd openstlinux-4.19-thud-mp1-19-10-09</pre>• 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)



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<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`:



2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

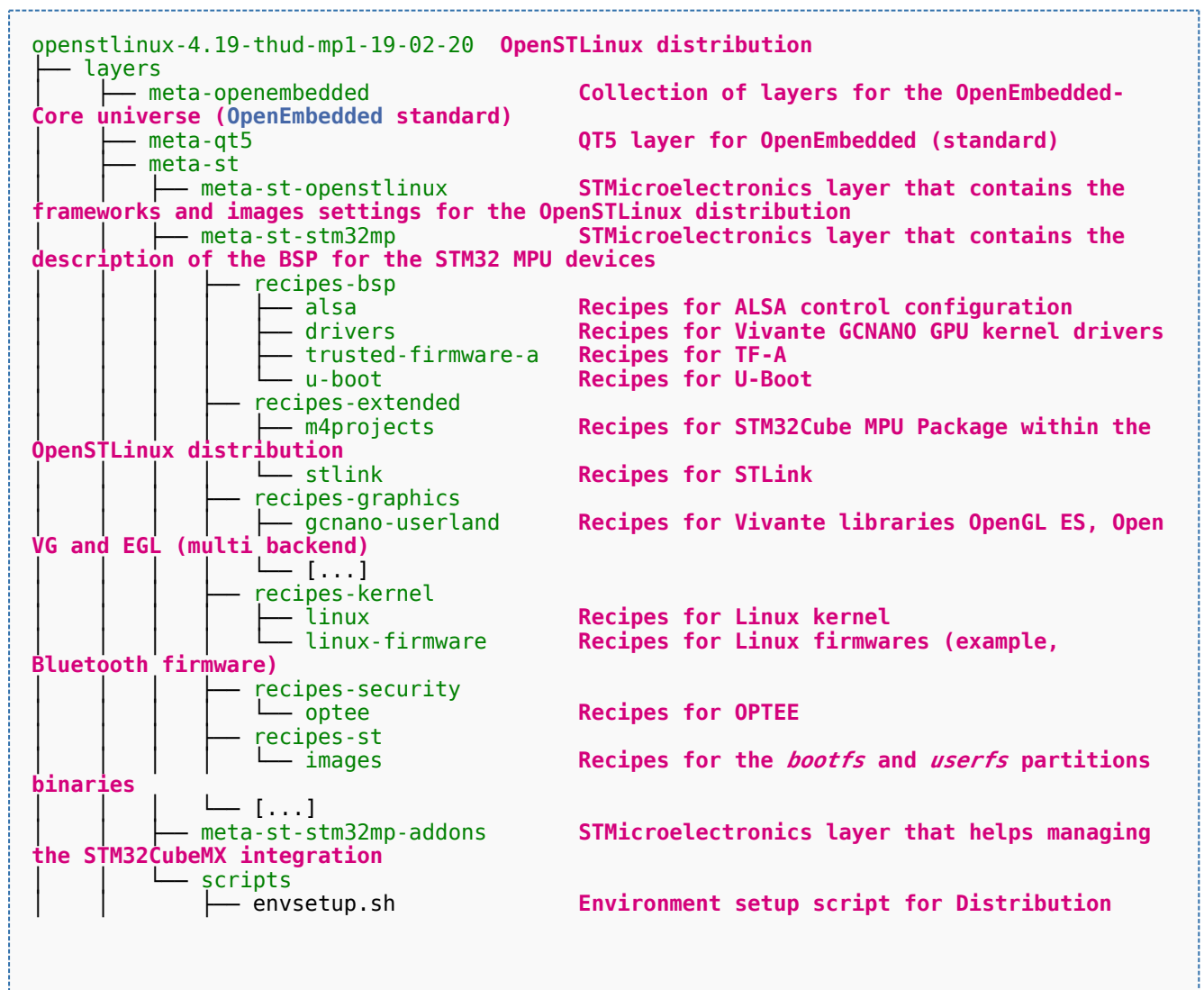
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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.
- Install the STM32MP1 OpenSTLinux distribution

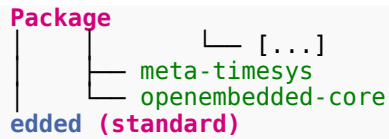
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:
	<pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> • Create the OpenSTLinux distribution installation sub-directory:
	<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 (<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>\$ 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>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<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> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div>
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-mp1-19-02-20`:





Timesys layer for OpenEmbedded (standard)
Core metadata for current versions of OpenEmb

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/openvg/> 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](#)

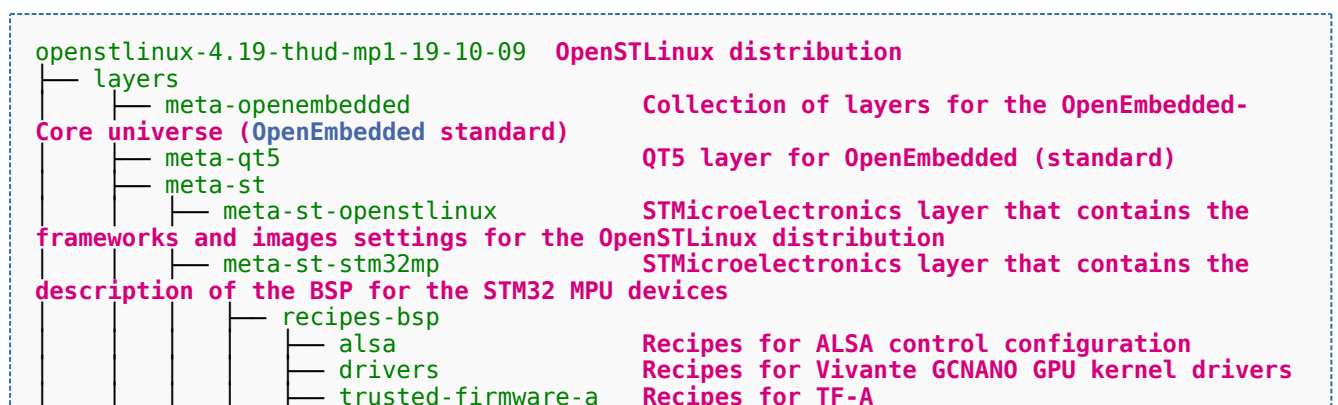
1 STM32MP15-Ecosystem-v1.1.0 release

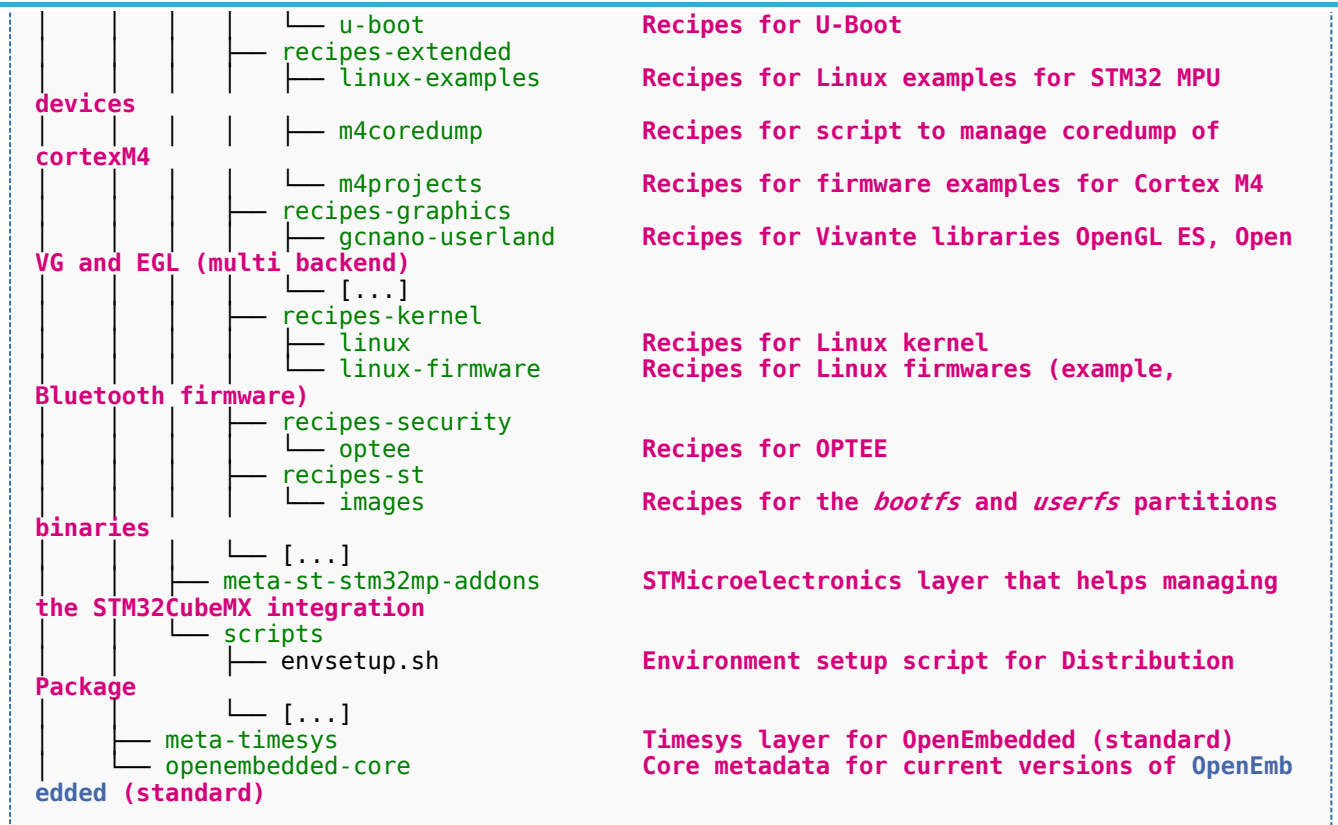
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is 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	
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>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ 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`:





2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

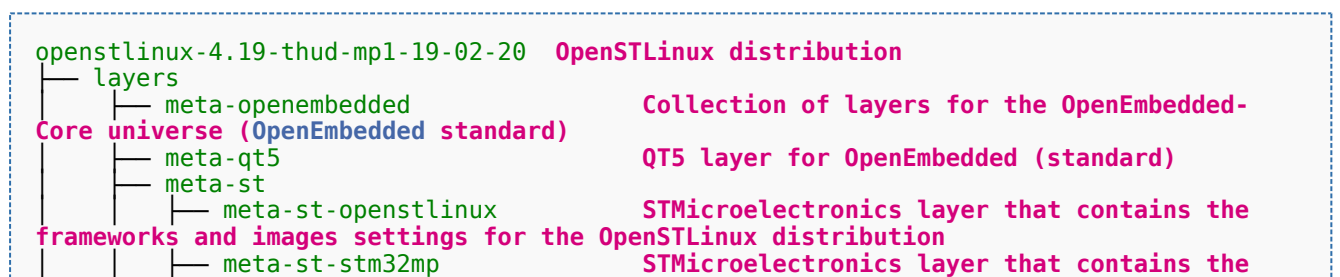
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision (**openstlinux-4.19-thud-mp1-19-02-20**).
- The installation relies on the *repo* command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not 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.
- Install the STM32MP1 OpenSTLinux distribution

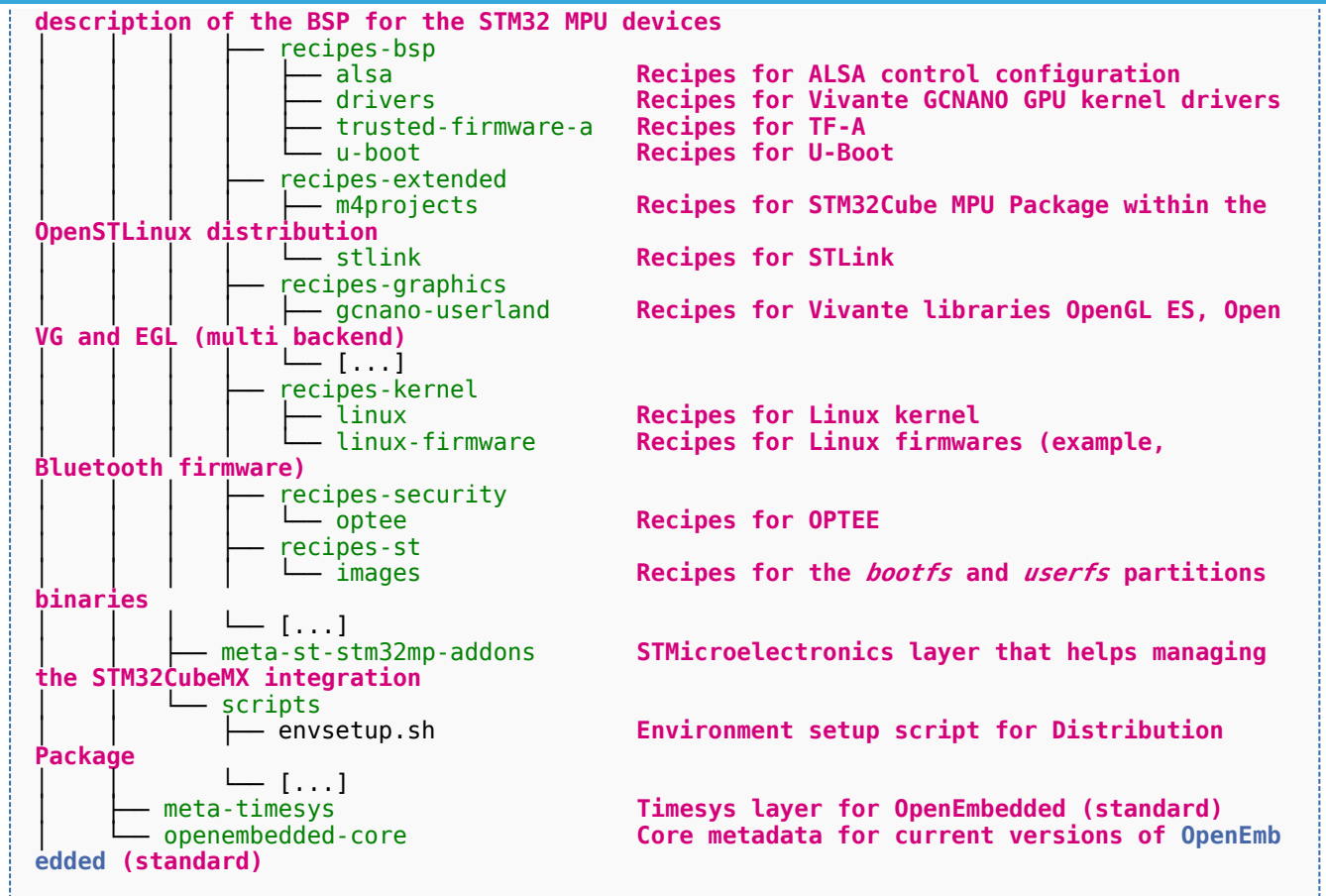
STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release
<ul style="list-style-type: none"> • Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<pre>\$ cd <working directory path>/Distribution-Package</pre> <ul style="list-style-type: none"> Create the OpenSTLinux distribution installation sub-directory: <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>
	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/opencv/> 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)