



## STM32MPU distribution for Android



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The **STM32MPU distribution for Android™** runs on Arm®Cortex®-A processors. It is a subset of the STM32MPU Embedded Software distribution for Android.

It includes the following collection of software components:

- The **OpenSTLinux BSP** that offers services for the application frameworks in the same context:
  - The **boot chain** based on TF-A and U-Boot.
  - The **OP-TEE** secure OS running on the Cortex-A core in Secure mode.
  - The **Linux® kernel** running on the Arm® Cortex®-A core in Non-secure mode.
- **Application frameworks** that rely on the services provided by the **OpenSTLinux BSP** to provide specific functionalities (such as code libraries, APIs and tool sets) to ease the development of software applications:
  - **OP-TEE** application frameworks running in the secure OS user space (eg TEE Internal core API for the development of Trusted Applications (TA)).
  - **Android** application frameworks running in Linux OS user space (see AOSP<sup>[1]</sup> for more details).



The **OpenSTLinux BSP for Android** has some specificities:

- The Linux kernel source is based on the Common Kernel available in AOSP<sup>[2]</sup>.
- The Linux kernel configuration is based on the reference configuration available in AOSP<sup>[3]</sup>.

**Android** application frameworks are based on the AOSP platform manifest<sup>[4]</sup>. By default, one of the Google tags<sup>[5]</sup> is used as a reference.

The **Google services** (ex: Cast, Drive, Maps...) are neither embedded nor validated within this **STM32MPU distribution for Android™**.



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## 1 How to get the software for this distribution?

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The **STM32MPU distribution for Android™** is available through the three Packages (Starter, Developer, and Distribution) of the STM32MPU Embedded Software distribution for Android.



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## 2 References

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- <https://source.android.com/>
- <https://android.googlesource.com/kernel/common/>
- <https://android.googlesource.com/kernel/configs/>
- <https://android.googlesource.com/platform/manifest/>
- <https://source.android.com/setup/start/build-numbers#source-code-tags-and-builds>

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Cortex®

Board support package

Operating System

Linux® is a registered trademark of Linus Torvalds.

Open Portable Trusted Execution Environment

Trusted Execution Environment

Application programming interface

Trusted Application

Android Open Source Project