



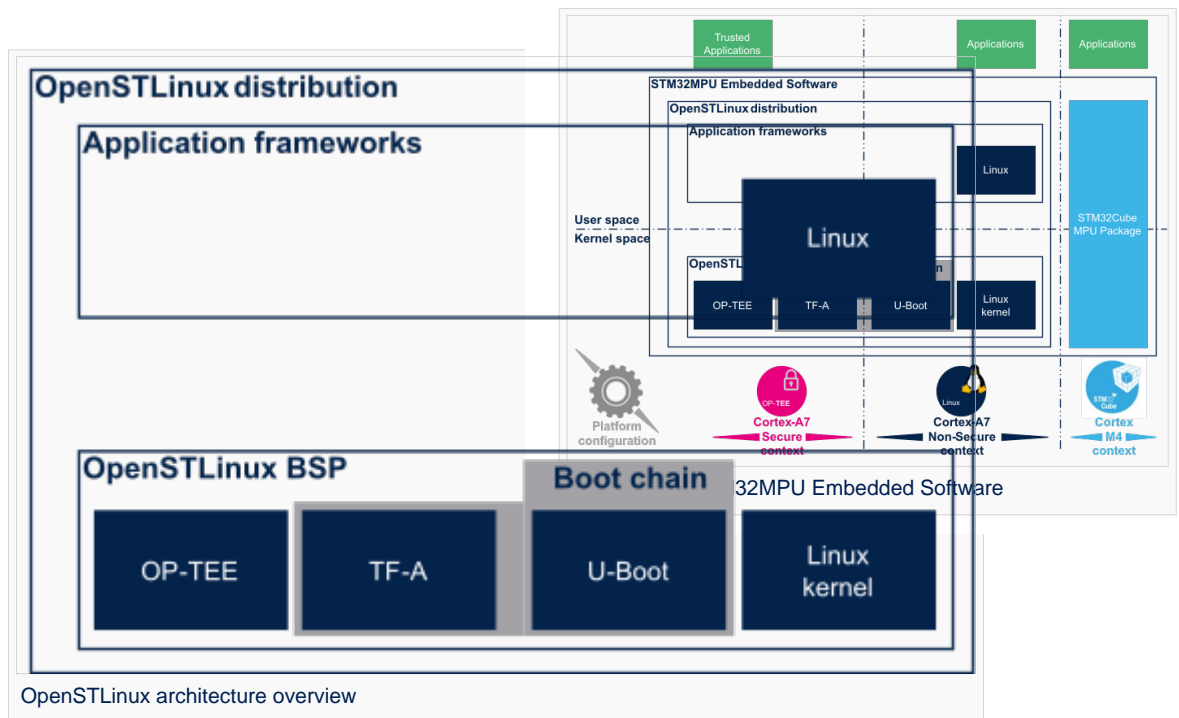
OpenSTLinux architecture overview



The **OpenSTLinux distribution** encompasses the following components:

- The **OpenSTLinux BSP** that offers services, to the application frameworks in the same context, from:
 - The **boot chain** based on **TF-A** and **U-Boot**
 - The **OP-TEE secure OS** running on the Cortex-A in secure mode
 - The **Linux® kernel** running on the Arm®Cortex®-A in non-secure mode
- The **Application frameworks** that rely on the services provided by the OpenSTLinux BSP, to provide particular functionalities (code libraries, APIs, tool sets...) to facilitate the development of software applications:
 - The **Linux application frameworks** (aka Linux middlewares) running on the user space of the Linux OS: e.g. libusb C library for a generic access to USB devices, ALSA user-space bundle for audio functionalities, GStreamer multimedia framework...
 - The **U-Boot application frameworks** (not shown in the diagram), as part of the boot chain: e.g. configuration scripts
- On **OP-TEE** side, the **Trusted Applications (TA)** relies on the OP-TEE core for secrets operations (not visible from the Linux and STM32Cube MPU Package)

The figure below is clickable so that the user can directly jump to one of the sub-levels listed above.



Board support package

Trusted Firmware for Arm® Cortex®-A

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

Open Portable Trusted Execution Environment

Operating System

Cortex®



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also known as

Advanced Linux sound architecture

Trusted Application

Microprocessor Unit