



OpenSTLinux architecture overview

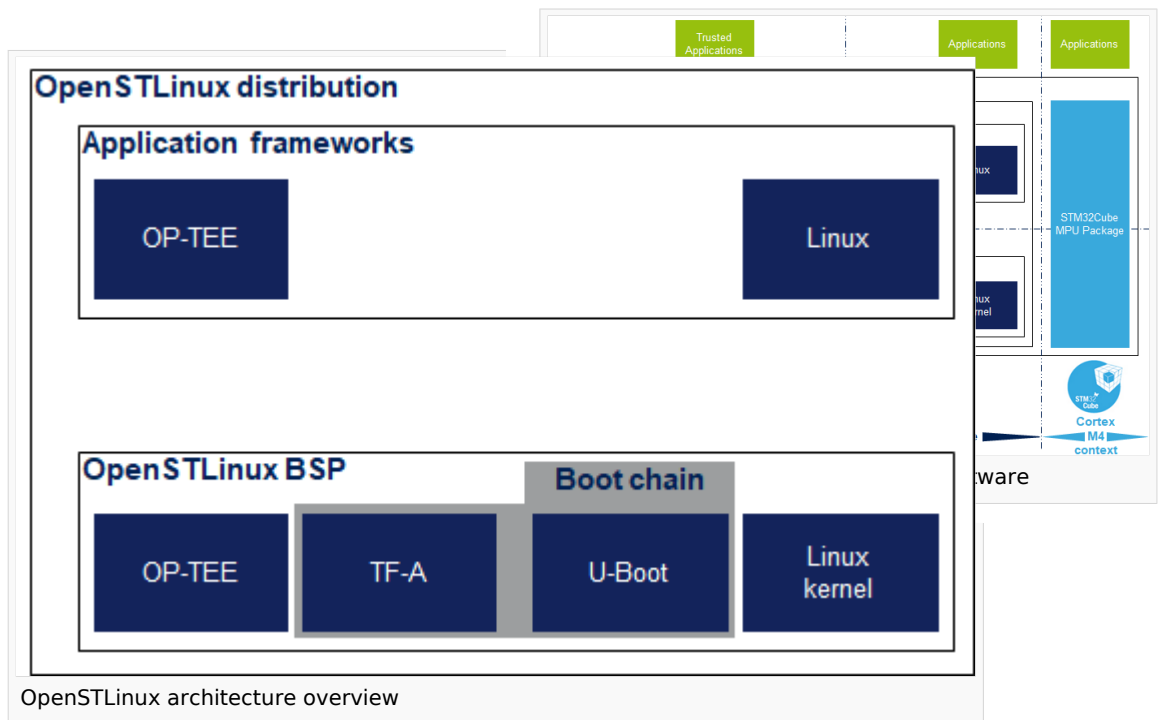
OpenSTLinux architecture overview

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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 **OP-TEE application frameworks** running on the user space of the secure OS: e.g. TEE Internal core API for the development of Trusted Applications (TA)
 - The **U-Boot application frameworks**: e.g. configuration scripts

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](#))



OpenSTLinux architecture overview

Open Portable Trusted Execution Environment

Operating System

also known as

Advanced Linux sound architecture

Trusted Execution Environment

Application programming interface

Trusted Application