NXP provides **MCUXpresso Secure Provisioning (SEC)** and Secure Provisioning SDK (SPSDK) for trial run and mass production use. Both SEC tool and SPSDK support secure programming and device provisioning on NXP's microcontrollers at the production stage.

**MCUXpresso Secure Provisioning (SEC) tool** is a GUI-based tool which leverages low-level functionality of the open-source SPSDK with its binary executables released as part of the SEC tool. The SEC tool graphical interface makes production flow simpler for general needs of a production process.

Secure Provisioning SDK (SPSDK) is an open-source development kit with its source code released on Github and PyPI. It contains a set of API modules for custom production tool development which requires more advanced secure provisioning flow. SPSDK enables connection and communication with NXP’s microcontrollers for the following purposes:
- Generation of Secure Binary (SB) bootable images
- Security features configuration (CMPA, CFPA, Trustzone, secure bootloader, debug authentication, etc.)
- Generation and management of cryptographic keys and certificates
- Trust provisioning and secure programming through MCU Bootloader
- Debug authentication through J-Link, PEmicro and PyOCD debug probes
Secure Provisioning SDK Block Diagram

View additional information for Secure Provisioning SDK (SPSDK).

Note: The information on this document is subject to change without notice.