



Secure Engine Firmware Release Notes

For xG26 Products

Secure Engine (SE) firmware is installed with the product. The firmware is upgradable through Gecko Bootloader and Simplicity Studio. Features and security updates available in the latest release are described in this document.

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Using This Release

Secure Engine (SE) firmware is factory installed with the product.

SE firmware upgrade images are installed with Gecko SDK Suite in Simplicity Studio. This release contains the following.

- Upgrade image for Gecko Bootloader (.seu file)
- Upgrade application (.hex file)

Upgrade images are signed and encrypted.

Use of the upgrade image with Gecko Bootloader is described in *UG266: Silicon Labs Gecko Bootloader User's Guide, Section on Secure Engine Upgrade*.

To upgrade your device using the Upgrade application, program the .hex file to Flash using Simplicity Commander and then reset the device or use the upgrade feature in Simplicity Studio.

The Secure Engine Manager component in the Gecko SDK Suite provides an API to get the current SE version from the device. The API reference guide is available on <https://docs.silabs.com/gecko-platform/latest/service/api/group-sl-se-manager>

1.1 Compatible Products

The firmware is compatible with the following Series-2 products:

- EFR32xG26 SoCs

1.2 Support

Development Kit customers are eligible for training and technical support. You can use the Silicon Laboratories web site <https://www.silabs.com/products/development-tools/software> to obtain information about software products and services, and to sign up for product support.

You can contact Silicon Laboratories support at www.silabs.com/support

Features and Security Updates

v2.2.6

- Fixed a bug where TAMPERSTCAUSE did not get cleared properly in certain scenarios.
- Fixed a bug where trying to export a public key using a small custom ECC curve would cause the SE to trigger a reset.

v2.2.4

- Initial release for EFR32xG26 products.

Known Issues

- The PSA Initial Attestation Token available over mailbox implements the deprecated `PSA_IOT_PROFILE_1` profile.
- The lifecycle claim in the PSA Initial Attestation Token is not correctly implemented with respect to the PSA Root of Trust (the SE), resulting in needlessly strict requirements to achieve the SECURED lifecycle state.

Legal

4.1 Disclaimer

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4.3.1 t_cose

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4.3.2 QCBOR

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