



Braswell - Intel® Trusted Execution Engine (Intel® TXE) 2.0 Firmware

Intel® TXE FW 2.0.0.2060 PV Release for Windows* 7, 8.1 64-Bit & Linux

Customer Communication

WW17, April 2015



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Intel® Trusted Execution Engine (Intel® TXE) 2.0.0.2060 PV release - General Overview

- Intel® Trusted Execution Engine (Intel® TXE) 2.0.0.2060 Firmware PV version for Windows* 8.1 64-Bit and Linux.

This release is posted to Intel® VIP

✓ Kit # 106800

- Intel TXE 2.0 FW size is 1.375MB.
- Supported Operating System:
 - Windows* 7 64-bit
 - Windows* 8.1 64-bit
 - Linux

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Important Notes

This release contains two versions of the Intel® TXE PV Firmware:

- Production version which is signed by Intel, will run on QS Silicon.
- Pre-production version which is unsigned.

PV firmware is intended for full system integration testing, with all POR features, all platform configurations supported, and all POR operating systems.

Important Notes – cont'd

The VCN (Version Control Number) value has increased in Intel® TXE FW version 2.0.0.2060 (PV Version) to '2'.

As a result downgrades from Intel® TXE FW Version 2.0.0.2060 to earlier Intel® TXE FW versions will not be possible.

Full Intel® TXE FW updates from earlier releases to version 2.0.0.2060 are supported.

Important Notes – cont'd

PV POR configuration is either one of the following:

- Signed Intel TXE FW and Production Silicon.
- Unsigned Intel TXE FW and Pre-Production Silicon.

Notes:

- In this kit, Unsigned Pre-Production Intel TXE FW is provided for Development and Testing needs with Pre Production Silicon.
- For Manufacturing and Mass Production purposes Signed Intel TXE FW and Production Silicon are the only valid combination.

Combination of Unsigned Intel TXE Firmware and Production Silicon is not supported and will result in unexpected behavior.

Field Programmable Fuses - Manufacturing Flow

- Field Programmable Fuses are write-once, non-volatile memory.
- Once FPFs are committed, the changes are permanent and irreversible.
- FPF values should be committed at EOM using the command: `FPT – WRITEGLOBAL` before closing manufacturing.
- `FPT – CLOSEMNF` command will fail if `FPT – WRITEGLOBAL` was not committed.

Fixes in version 2.0.0.2060

Intel strongly recommends adopting Intel® TXE FW version 2.0.0.2060 for all production purposes of Windows* 7 & Windows* 8.1 platforms due to the below fixes:

ID	Title
217696	NFC device exposed as Intel® TXEI unknown child device with Yellow Bang.
5327697	Intel® PTT is in failure Mode upon FW update.
5328168	Intel® TXEI 2.0 Installer's License Agreement in Intel® TXE Firmware PV kit (v2.0.0.2056) is pre-production type and not production type.

Please refer to Release Notes for details.

Intel® IPT & Intel® DAL Not Installing on Windows* 7

Description:

Intel® IPT and Intel® Dynamic Application Loader (DAL) are not installed by the TXESetup.exe installer on Windows* 7.

This is related to missing KMDF 1.11 on Windows* 7. When this framework is not present, Intel TXE installer fails to detect platform capabilities and requires a restart prior to installing the Intel DAL/IPT components.

Workaround:

- (1) Run the Intel TXE installer through Command Prompt with "-nodalchk" (mandatory for customers shipping with Windows* 7).
- (2) After installation reboot the platform.

Intel® TXE FW Kit 2.0.0.2060 - Contents

Software:

- TXEI driver - version 2.0.0.1036
- MUP.xml - version 2.4.3
- TXEI.cat
- TXEI.inf

System Tools:

- Flash Image Tool - version 2.0.0.2060
- Flash Programming Tool - version 2.0.0.2060
- TXEInfo - version 2.0.0.2060
- TXEManuf - version 2.0.0.2060
- FWUpdate – version 2.0.0.2060
- Flash Manifest Generation Tool 2.0.0.1059
- Sample Signer – version 2.0.0.1059

Documents:

- Braswell Intel® TXE FW Bring Up guide – rev1.3
- System Tools User Guide – rev 1.0
- FpFConfigurationFile
- Intel(R) TXE FW 2.0.0.2060 PV Release Notes
- VSCCommn_bin Content
- PV Release Customer Communication

