



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

Intel® TXE FW 2.0.0.2077 Hotfix Release for Windows* 7, 8.1 & 10 64-Bit & Linux

Customer Communication

WW31, July 2015



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Intel® Trusted Execution Engine (Intel® TXE) 2.0.0.2077 HF release - General Overview

- Intel® Trusted Execution Engine (Intel® TXE) 2.0.0.2077 Firmware HF version for Windows* 7, 8.1 & 10 and Linux.

This release is posted to Intel® VIP

✓ Kit # **108722**

- Intel TXE 2.0 FW size is 1.375MB.

- Supported Operating System:

- Windows* 7 64-bit
- Windows* 8.1 32/64-bit
- Windows* 10 32/64-bit
- Linux

TXEI Driver Certification:

TXEI Driver 2.0.0.1067 in this HF release was certified and digitally signed by the Microsoft* company.

TXEInfo Error Fix

Problem Description:

Following efficiency measures taken in TXE FW of PC version 2.0.0.2073 for Win10 PC release, some redundant FPF table entries were removed and TXEInfo tool was not updated with their removal.

Implication:

Due to this issue, the PC version of TXEInfo tool returned the following error:

"Error 460: failed getting FPF "OEM_UNIQUE_DEVICE_ID" entry from FPF Support Table"

Solution:

TXEInfo tool was corrected in the PV version of this kit and all System Tool were updated to version 2.0.0.2077.

Customers are requested to adopt System Tools version 2.0.0.2077 as published in this PV kit for all manufacturing purposes.

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 2.0.0.2073 (PV Version) to '3'.

As a result downgrades from Intel® TXE FW Version 2.0.0.2073 to earlier Intel® TXE FW versions will not be possible.

Full Intel® TXE FW updates from earlier releases to version 2.0.0.2073 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.

Intel® IPT EPID provisioning affected by MSFT security advisory for **Windows* 7**

Description:

Microsoft released a security advisory about loading external libraries in **Windows*7** OS. – "The issue is caused by applications passing an insufficiently qualified path when loading an external library".

Link to the article: <http://technet.microsoft.com/en-us/security/advisory/2269637>

This issue affects Intel® IPT EPID provisioning and therefore OEM are required to install the appropriate patch provided by Microsoft*:

<http://support.microsoft.com/kb/2533623?wa=wsignin1.0>

Intel® TXE FW Kit 2.0.0.2077 - Contents

Software:

- TXE FW Version 2.0.0.2077
- TXEI driver - version 2.0.0.1067
- MUP.xml - version 2.4.3
- TXEI.cat
- TXEI.inf

System Tools:

- Flash Image Tool - version 2.0.0.2077
- Flash Programming Tool - version 2.0.0.2077
- TXEInfo - version 2.0.0.2077
- TXEManuf - version 2.0.0.2077
- FWUpdate – version 2.0.0.2077
- 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 2.0.0.2077 PV Release Notes
- VSCCommn_bin Content
- HF Release Customer Communication

