

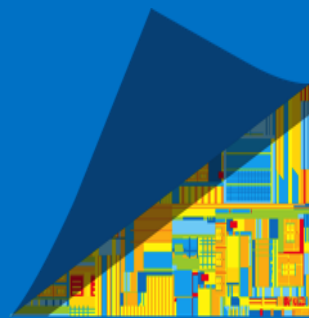


Braswell - Intel® Trusted Execution Engine (Intel® TXE) 2.0 Firmware

Intel® TXE FW 2.0.2.2092 Hotfix 2 Release for Windows* 7, 8.1 & 10 64/32-Bit & Linux

Customer Communication

WW43, Oct 2015



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Intel® Trusted Execution Engine (Intel® TXE)

2.0.2.2092 HF release - General Overview

- Intel® Trusted Execution Engine (Intel® TXE) 2.0.2.2092 Firmware HF2.
- **New Intel® TXEI Driver 2.0.0.1094** - Certified and digitally signed by the Microsoft* company.
- This release is posted to Intel® VIP – Kit #111311
- Intel® TXE 2.0 FW size is 1.375MB.
- Supported Operating System:
 - Windows* 7, 8.1,10 32/64-bit
 - Linux

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Important Notes

The Intel® TXEI Driver was updated in this release following a critical fix in the driver software.

Intel strongly recommends that all customers adopt the below components as published in this kit:

- Intel® TXE FW version 2.0.2.2092
- Intel® TXEI Driver version 2.0.0.1094

Customers who previously targeted the Intel® TXEI driver for Windows* 10 Update will be required to re-target the driver with the new MSFT Submission ID (SID):

Program	Driver Version	Hardware IDs	Device name	Submission IDs	Operating Systems
Braswell	2.0.0.1094	PCI\VEN_8086&DEV_2298	Intel® TXEI NonRTD3 32-bit	1768789	Windows 7, 8.1, 10 x32
			Intel® TXEI NonRTD3 64-bit	1768790	Windows 7, 8.1, 10 x64

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Important Notes – cont'd

For details regarding modifications in this release, please refer to the following customer communications on CDI:

- Doc #561499:
“Intel® Trusted Execution Engine HW DRM Playback Failure”
- Doc #560933:
“Intel® TXE Impact on Platforms Designed without Coin-Cell Batteries”
- The VCN (Version Control Number) value has increased in Intel® TXE FW version 2.0.1.2084 (PV Version) to ‘4’. As a result downgrades from Intel® TXE FW Version 2.0.1.2084 to earlier Intel® TXE FW versions will not be possible. Full Intel® TXE FW updates from earlier releases to version 2.0.1.2084 are supported.

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Important Notes – cont'd

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

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 2.0.2.2092 - Contents

Software:

- TXE FW Version 2.0.2.2092
- TXEI driver - version 2.0.0.1094
- MUP.xml - version 2.4.3
- TXEI.cat
- TXEI.inf

System Tools:

- Flash Image Tool - version 2.0.2.2092
- Flash Programming Tool - version 2.0.2.2092
- TXEInfo - version 2.0.2.2092
- TXEManuf - version 2.0.2.2092
- FWUpdate – version 2.0.2.2092
- 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 1.2
- FpFConfigurationFile
- Intel(R) TXE FW 2.0.2.2092 Release Notes
- VSCCommn_bin Content
- HF2 Release Customer Communication

