

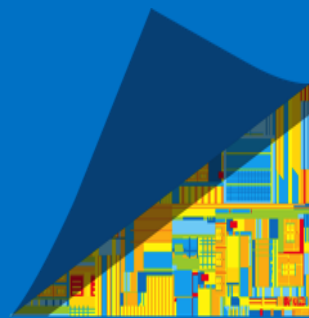


Intel® Trusted Execution Engine (Intel® TXE) 1.1 FW

Intel® TXE FW 1.1.0.1089 Production Version Point Release
for Windows* and UEFI based Android*

Customer Communication

WW05, January 2014



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Intel® Trusted Execution Engine 1.1.0.1089 Firmware Point Release - General Notes

- Intel® TXE 1.1.0.1089 Firmware Production Version Point Release is posted to Intel® VIP
 - ✓ Kit # 100840
- Intel TXE 1.1 FW size is compressed to 1.375MB
- OS Support:
 - ✓ Android* Jelly Bean 32bit
 - ✓ Windows* 8 32bit & 64bit
 - ✓ Windows 8.1 32bit & 64bit
 - ✓ Windows 7 64bit
- Customers requested to begin using the Intel TXE 1.1 FW point release in manufacturing as soon as possible
 - ✓ No Intel TXE FW update support for update from Intel TXE 1.0 FW (3MB/1.25MB) to Intel TXE FW 1.1 (1.375MB)
 - ✓ Intel will keep limited maintenance path for Intel TXE 1.0 FW **critical issues only** for projects launched with Intel TXE 1.0 FW
 - ✓ Intel expects customers to transition to Intel TXE 1.1 FW in conjunction with CO stepping

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Important Notes

- 1) Intel® Platform Protection Technology with Platform Trust (Intel® PTT) is not POR for future Intel® Pentium® processor or Intel® Celeron® processor N- & J- Series based platform (formerly Bay Trail-M/D platform)

Since this configuration is not supported, customers are required to make sure Intel PTT is disabled in BIOS following the FRC and Intel TXE BWG instructions preventing end customer access to Intel PTT options through BIOS control.

2) Using EFI System Tools in UEFI Shell.

- Due to Microsoft's 'Mandatory UEFI Shells and related applications' requirement (System.Fundamentals.Firmware.UEFI SecureBoot) when running Intel or customer manufacturing utilities in UEFI shell, the customer is required to disable UEFI Secure boot via BIOS setup menu or UEFI variable. If OEM/ODM wants to run specific EFI tool that needs to run with UEFI secure boot, OEM/ODM will sign that EFI tool with their OEM key

Important Notes

3) Intel TXE PV Firmware is signed by Intel

- PV POR configuration is signed Intel TXE FW and Production Silicon
- Signed Intel TXE FW and Pre Production Silicon is supported for development needs only

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

4) For Windows 7 OS only:

Intel® Trusted Execution Engine Interface (Intel® TXEI) Driver uses KMDF (WDF) 1.1.1, which is built-in on Windows 8 and Windows 8.1. However, Windows 7 doesn't have it. Please install Kernel-Mode Driver Framework (KMDF) version 1.1. Otherwise, yellow bang appears on Intel TXEI device upon installation. Please follow instructions in this link: [KB2685811](#)

Important Notes

- 5) Sample Signer tool reference code kit available in Test Software - Link: [1000653](#)

Disclaimer: SAMPLE SIGNER REFERENCE CODE DOES NOT OFFER ADEQUATE SECURITY. CUSTOMER NEEDS TO ADD SIGNIFICANT FUNCTIONALITY AND MODIFY THIS SOFTWARE TO PROTECT CUSTOMER PRIVATE KEY. INTEL ASSUMES NO LIABILITY FOR LOST OR STOLEN PRIVATE KEY DATA AND/OR SYSTEMS OR ANY OTHER DAMAGES RESULTING THEREOF

- 6) Field Programmable Fuses are write-once, non-volatile memory. **When FPFs are committed, the changes are permanent and irreversible.** Please refer to Manufacturing Recommendations for full instructions how to fuse and test FPFs

Windows Manufacturing Collaterals

Document	Title	Location / Doc #
Manufacturing Recommendations	Bay Trail M/D Platform Manufacturing Recommendation for Intel® Trusted Execution Engine (Intel® TXE) 1.0 SKU Firmware for HR'13 Windows based platform	CDI/IBL: 526064
MAS	Manufacturing Test with Intel® Trusted Execution Engine (Intel® TXE) Firmware on Bay Trail - D/M Windows* OS Platforms	CDI/IBL: 537301

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Android* Manufacturing Collaterals

Document	Title	Location / Doc #
Widevine* Keybox Provisioning Training	Bay trail M/D Platform, Intel® Trusted Execution Engine (Intel® TXE) Firmware - Android* Based UEFI BIOS Manufacturing for SR'14 - Widevine* Keybox Provisioning	CDI / IBL: 538536
Manufacturing Recommendations	Bay Trail M/D Platform, Manufacturing Recommendation for Intel® Trusted Execution Engine (Intel® TXE) 1.1 SKU Firmware for SR'14 UEFI Android Platform	CDI/IBL: 541110
MAS	Manufacturing Test with Intel® Trusted Execution Engine (Intel® TXE) on Bay Trail M/D Platforms using Android* OS	CDI/IBL: 541876

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Bay Trail-M/D Intel® TXE Compliance Kit

What is the Intel Platform Compliance Kit?

A single kit with multiple tools for Bay Trail-M/D Compliance testing:

- OEMs are requested to test/verify/confirm various Intel® TXE FW compliance tests with these tools
- Tools for debugging (Intel® System Scope Tool)

Each major milestone release will include:

- Intel® Platform Enablement Test Suite (Intel® PETS), Intel® Automated Power Switch (Intel® APS), Intel® System Scope Tool (Intel® SST), and other tools to be included
- User Guides, Compliance Test Results, Release notes and latest Compliance Guide

The Bay Trail-M/D Intel TXE PV Compliance Kit release is available in Test Software - Link : [1000809](#)

- Please Note: There is an update to the Intel TXE Compliance Guide Rev2.4 Doc id: 522481

Intel® Trusted Execution Engine SKUs

Intel® TXE SKU	Intel TXE 1.0 Full SKU	Intel TXE 1.0 Thin SKU	Intel TXE 1.1 PR
Size	3MB	1.25MB	1.375MB
OS Support	Windows only	Windows only	Windows & Android
Last kit version	1.0.4.1089	1.0.4.1089	1.1.0.1089
Feature List			
Widevine*	No	No	Yes
Miracast (source)	No	No	Yes
Protected Audio Video Path (PAVP)	Yes	No	Yes
Field Programmable Fuse (FPF)	Yes	Yes	Yes
Intel® TXE Verified Boot	No	No	Yes
Intel® Platform Protection Technology with Platform Trust (Intel® PTT)	No	No	No
Intel® Insider™	No	No	No
Intel® Identity Protection Technology (Intel® IPT)	No	No	No
Intel® Anti-Theft Technology (Intel® AT)	No	No	No
Near Field Communication (NFC)	No	No	No

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Q&A

Q1: Will Intel TXE 1.1 operate with B2 and B3 Bay Trail-M/D stepping?

A1: Yes, Intel TXE 1.1 is supported on all Bay Trail-M/D steppings.

Q2: Only Jelly Bean 32bit Android is shown to work with Intel TXE 1.1? What about KitKat?

A2: Upon official release of KitKat 64bit, Intel will verify Intel TXE 1.1 on upcoming versions of Android and notify customers.

Q3: How long will critical issues support only of Intel TXE 1.0 be available?

A3: Intel recommends customers transition to Intel TXE 1.1 as soon as possible with the features and benefits Intel TXE 1.1 provides. Intel will decrease focus on Intel TXE 1.0 support after C0 production. Intel TXE 1.0 critical issues only support will be at the discretion of Intel after C0 production.

