



Intel[®] Platform Enablement Test Suite (Intel[®] PETS) For Lakefield platforms

Release Notes for v9.1330.3.0 – Official Release

March 2020

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Revision History

Version Number	Description	Release Date
9.1330.0.0	Official Release	April 2019
9.1330.1.0	Official Release	June 2019
9.1330.2.0	Official Release	November 2019
9.1330.3.0	Official Release	March 2020



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1 Introduction

1.1 Scope of Document

This document provides details of the downloaded version of Intel® Platform Enablement Test Suite (Intel® PETS) and the accompanying tool, Intel® Automated Workflow Suite (Intel® AWS) for supported Intel® CSME FW based platforms.

1.2 Acronyms

Term	Description
BIOS	Basic Input Output System
FW	Firmware
SW	Software
HECI	Host Embedded Controller Interface. Same as Intel® MEI
Intel® AMT	Intel® Active Management Technology
Intel® APS	Intel® Automated Power Switch
Intel® AWS	Intel® Automated Workflow Suite
Intel® CIRA	Intel® Client Initiated Remote Access
Intel® DAL	Intel® Dynamic Application Loader
Intel® ICC	Intel® Integrated Clock Controller
Intel® IPT	Intel® Identity Protection Technology
Intel® ISH	Intel® Integrated Sensor Hub
Intel® ME	Intel® Management Engine
Intel® MEI	Intel® Management Engine Interface (interface between the Management Engine and the Host system)
Intel® TXE	Intel® Trusted Execution Engine
Intel® TXEI	Intel® Trusted Execution Interface (interface between the Trusted Execution Engine and the Host system)
Intel® PETS	Intel® Platform Enablement Test Suite
Intel® PTT	Intel® Platform Trust Technology
Intel® SGX	Intel® Software Guard Extensions
Intel® TPM	Intel® Trusted Platform Module
Intel® TXT	Intel® Trusted Execution Technology
LAN	Local Area Network
OS	Operating System
PCH	Platform Control Hub
SPI	Serial Peripheral Interface



SUT	System Under Test
USB	Universal Serial Bus
WLAN	Wireless Local Area Network



2 Supported Configurations

The Intel® Platform Enablement Test Suite supports and is touch-tested on all operating systems that are POR for Intel® CSE FW. Intel® PETS supports the following configurations:

FW Version

Lakefield Intel® CSE 13.30	LKF	LKF	Windows* 10 Windows* 10X	ME13.30	Intel® PETS 9.1330.3.0
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2.1 Important Notes

- Please make sure to uninstall the previous Intel® PETS build 9.1330.2.0 before installing Intel® PETS build 9.1330.3.0
- Intel® PETS testing was done on UFS based Lakefield RVP1/B2 stepping, using Intel® APS as power provider.
- SPI based Lakefield platform is not supported by this build.
- IFWI version used for testing is 13.30.0.1068
- Windows*10X image used for testing is 10.19529 OWR build
- Intel® System Scope Tool version is 3.4.1004 is supported for Windows* 10x
- Intel® System Scope Tool version 3.2.1014 is supported for Windows* 10
- **Please be aware, Intel® TTK that's described in this release and in the attached Intel® PETS User Guide is for internal use only.**
- This Intel® PETS software release supports Lakefield platforms with two types of OSs, which are Windows* 10 and Windows* 10X. Refer to the updated User Guide for the installation requirements and procedure
- For Windows*10:
 - Console Installed need .Net framework 4.7.2
 - Agent installed need both .Net framework 4.7.2 and .Net core 3.0
- Intel® APS 3.31.7 is supported in this release.
- Intel® PETS is no longer checking for Intel® PETS local agent installation status, part of bring to base test block
- Intel® ISH:
 - Modify Intel® ISH package. Implement new solution for reading data from sensors without using sensor Viewer
 - Intel® ISH package is not tested on Windows*10 OS
 - Intel® ISS_TST_05, Intel® ISS_TST_06, Intel® ISS_TST_50, Intel® ISS_TST_60 expected to fail on Windows*10, since some sensors don't exist.
- Intel® ICC
 - Updated Intel® ICC test names according to the upcoming compliance guide.
 - Intel® ICC test package implementation in Intel® PETS depends on the Intel® CCT tool
 - the SDK support that appears in the Compliance Guide is under progress to be included in Intel® PETS next releases.
- Dekel PHY Chapter:
 - This chapter is blocked for now. Refer to issue [#1306217531](#) for more information.
- Network connection is supported via Wireless Only connection.
- DC tests are not fully tested (charging issue).



- Intel® SPI_07 test is not tested (The machine doesn't boot to OS when the FDO jumper is asserted). Still under investigation.
- Serial Peripheral Interface (SPI) Configuration and Platform Controller Hub (PCH) SoftStrap Configuration are irrelevant for Windows*10X, since it is only supported on SPI based platforms.
- Updated VSCC entries to version 5.0.1
- Platform Flash Tool doesn't support device type "UFS_HPB" thus these packages Universal flash storage (UFS) Download and Execute (DnX) are expected to fail when using this UFS
- Lakefield Intel® APS OEM Customization Guide will soon be available on CCL with the doc ID [611265](#).

2.2 Documentation

This release is aligned with the following documents:

- Intel® PETS User Guide revision **9.1330.3.0**
- Lakefield Compliance Guide revision **0.95**



3 *Implemented RCRs in This Release*

RCR Number	Title	Description
N/A	N/A	N/A



4 Fixed Issues in This Release

Issue Number	Title	Details
16010730735	Invalid HECI message type format	Description: Is coming with PETS Tool on RVP1 LKF_SPI/UFS Impact: BIOS_01 Failure Affected Platform: Lakefield. Affected Component: Intel® BIOS
16010730660	Exit code doesn't match	Description: Exit code from GetMonitorStatus is 1 and expected exit code is 0 with PETS Tool on RVP1 LKF_SPI/UFS Impact: PTT_009 Failure Affected Platform: Lakefield. Affected Component: Intel® PTT
16010730850	GetMEInfoValue and System UUID value is coming as Null	Description: with PETS Tool on RVP1 LKF_SPI/UFS Impact: Compliance_Dekel package Failure Affected Platform: Lakefield. Affected Component: Intel® Dekel PHY



5 Open / Known Issues – to Date

Issue Number	Title	Details
2207139407	Intel® Power Management: Last Boot Reason after hibernating indicates machine moves to Shutdown instead of hibernate.	Description: Last boot reason after hibernating shows that last boot was from shutdown Impact: Failure in Power tests related to hibernate. Affected Platform: Lakefield. Affected Component: Intel® Power Management Affected OS: Windows10x
1307425971	PTT® tests failure	Description: Nalwin and powershell issues causing PTT tests to fail. Impact: Failure in PTT tests. Affected Platform: SPI based Lakefield Affected Component: PTT® Affected OS: Windows 10
1307425403	Nalwin issues causing multiple packages to fail	Description: Nalwin issue causing multiple packages to fail Impact: Failure in BIOS, SPI, PSS and PTT packages. Affected Platform: SPI based Lakefield. Affected Component: BIOS, SPI, PSS and PTT packages. Affected OS: Windows 10
1307425250	Failure in getting FWSTS registers information	Description: PETS fails to get FWSTS information, causing BootGuard test to fail. Impact: Failure in BtG tests Affected Platform: SPI based Lakefield. Affected Component: Intel® Boot Guard Affected OS: Windows 10
1307430678	Failure in "BringToBase" caused by disconnection to Local Agent	Description: PETS logs show that Local Agent is down. Impact: B2b and pollingS0 are expected to fail Affected Platform: Lakefield. Affected Component: Intel PETS® framework Affected OS: Windows 10 and Windows10x
1306134978	Boot Guard chapter isn't suitable to LKF boot Guard configurations	Description: Compliance Guide isn't the latest version Impact: Failure in BtG tests Affected Platform: Lakefield. Affected Component: Intel® Boot Guard Affected OS: Windows 10 and Windows10x
1306702917	Intel® PETS platform gets stuck when running Intel® ME_PM_7 test	Description: Intel® PETS platform gets stuck in step 28, when running Intel® ME_PM_7 test. Impact: Intel® PETS platform gets stuck with an error and performs a warm reset Affected Platform: Lakefield. Affected Component: Intel® Power Management Affected OS: Windows 10 and Windows10x



Issue Number	Title	Details
1306371000/ 1306177740	Intel® JHI is missing from Windows*10X	Description: Intel® JHI is missing from Windows *10X. Impact: Intel® JHI is missing, and trying to inject it can cause an error code "JHI service is unavailable " Affected Platform: Lakefield. Affected Component: Intel® DAL Affected OS: Windows*10X
1306217531	Intel® PCIe device is not recognized when connected to Intel® Lakefield platform machine.	Description: the PCIe device appears as if it wasn't connected to the platform. Impact: Intel® PCIe device is note recognized. Affected Platform: Lakefield. Affected Component: Intel® Authenticate. Affected OS: Windows 10 and Windows10x



6 Fixed Issues in previous Releases

Issue Number	Title	Details
1305542268	'Get Clock' API is not supported for Lakefield platforms.	Description: Invoking 'CCT.exe -gc -clock bclk -get-type current' command is not supported; a failure is returned. Impact: Intel® ICC tool fails with the following error being displayed: Error 3: Internal Error, Unexpected error occurred. Affected Platform: Lakefield. Affected Component: Intel® ICC.
1606690024	Modern Connected Standby (S0ix) is not enabled	Description: when using power button to turn off display, system fails to enter standby. Impact: PnP KPI is blocked. Affected Platform: Lakefield. Affected Component: Intel® Power Management.