



# Intel® Platform Enablement Test Suite (Intel® PETS)

For supported Intel® CSME & Intel® TXE platforms  
Release Notes for v10.7.0.0 – Official Release

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*May 2020*

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## Revision History

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Version#	Description	Release Date
10.7.0.0	Official Release	May 2020
10.6.1.0	Official Release	April 2020
10.5.2.0	Official Release	March 2020
10.5.0.0	Official Release	March 2020
10.4.2.0	Official Release	January 2020
10.3.0.0	Official Release	December 2019
10.2.0.0	Official Release	November 2019
10.1.0.0	Official Release	September 2019
10.0.0.0	Official Release	August 2019
9.19.0.0	Official Release	July 2019
9.18.0.0	Official Release	May 2019
9.17.0.0	Official Release	April 2019
9.16.0.0	Official Release	March 2019
9.15.0.0	Official Release	January 2019
9.14.0.0	Official Release	December 2018
9.13.0.0	Official Release	November 2018
9.12.0.0	Official Release	October 2018
9.11.0.0	Official Release	September 2018
9.10.0.0	Official Release	June 2018
9.9.0.0	Official Release	May 2018
9.8.0.0	Official Release	April 2018
9.7.0.0	Official Release	March 2018
9.6.0.0	Official Release	February 2018
9.5.1.0	Hot Fix Release	January 2018
9.5.0.0	Official Release	December 2017
9.4.8.0	Hot Fix Release	November 2017
9.4.0.0	Official Release	October 2017
9.3.0.0	Official Release	September 2017



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10.7.0.0	Official Release	May 2020
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10.5.2.0	Official Release	March 2020
10.5.0.0	Official Release	March 2020
10.4.2.0	Official Release	January 2020
9.2.8.0	Hot Fix Release	September 2017



Version#	Description	Release Date
9.2.1.0	Hot Fix Release	August 2017
9.2.0.0	Official Release	August 2017
9.1.0.0	Official Release	July 2017
9.0.0.0	Official Release	June 2017
8.22.0	Official Release	June 2017
8.21.0	Official Release	May 2017
8.20.3.0	Hot Fix Release	April 2017
8.20.1.0	Hot Fix Release	April 2017
8.20.0	Official Release	April 2017
8.19.2.0	Hot Fix Release	March 2017
8.19.1.0	Hot Fix Release	March 2017
8.19.0	Official Release	February 2017
8.18.0	Official Release	January 2017
8.17.0	Official Release	December 2016
8.16.0	Official Release	November 2016
8.15.2	Hot Fix Release	October 2016
8.15.0	Official Release	October 2016
8.14.0	Official Release	September 2016
8.13.0	Official Release	September 2016
8.12.0	Official Release	August 2016
8.11.0	Official Release	July 2016
8.10.0	Official Release	July 2016



# Contents

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<b>1</b>	<b>Introduction .....</b>	<b>7</b>
1.1	Scope of Document .....	7
1.2	Acronyms .....	7
<b>2</b>	<b>Supported Configurations.....</b>	<b>9</b>
2.1	Important Notes .....	11
2.1.1	Changes in Intel® CSME Packages .....	11
2.1.2	Changes in Intel® TXE Packages.....	12
2.2	Documentation.....	12
2.2.1	Intel® CSME Related Documentations .....	12
2.2.2	Intel® TXE Related Documentations.....	12
<b>3</b>	<b>Intel® PETS Updates for Intel® CSME Platforms .....</b>	<b>13</b>
3.1	Intel® PETS 10.7.0.0 Updates .....	13
3.2	Earlier Updates.....	13
<b>4</b>	<b>Intel® PETS Updates for Intel® TXE Platforms.....</b>	<b>18</b>
4.1	Intel® PETS 10.7.0.0 .....	18
4.2	Earlier Updates.....	18
<b>5</b>	<b>Implemented RCRs in This Release .....</b>	<b>19</b>
<b>6</b>	<b>Fixed Issues in This Release .....</b>	<b>20</b>
<b>7</b>	<b>Open / Known Issues – to Date.....</b>	<b>21</b>
<b>8</b>	<b>Fixed Issues in previous Revisions .....</b>	<b>22</b>
8.1	Revision 10.6.1.0 .....	22
8.2	Revision 10.5.2.0 .....	22
8.3	Revision 10.5.0.0 .....	22
8.4	Revision 10.4.2.0 .....	23
8.5	Revision 10.3.0.0 .....	24
8.6	Revision 10.2.0.0 .....	24
8.7	Revision 10.1.0.0 .....	25
8.8	Revision 10.0.0.0 .....	25
8.9	Revision 9.19.0 .....	26
8.10	Revision 9.18.0.0 .....	27
8.11	Revision 9.17.0.0 .....	27
8.12	Revision 9.16.0.0 .....	27
8.13	Revision 9.15.0.0 .....	28
8.14	Revision 9.14.0.0 .....	28
8.15	Revision 9.13.0.0 .....	29
8.16	Revision 9.12.0.0 .....	29
8.17	Revision 9.11.0.0 .....	29



# 1 Introduction

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## 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 and Intel® TXE FW based platforms.

## 1.2 Acronyms

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



<b>SPI</b>	Serial Peripheral Interface
<b>SUT</b>	System Under Test
<b>USB</b>	Universal Serial Bus
<b>WLAN</b>	Wireless Local Area Network
<b>PP</b>	Power Policy





## 2 Supported Configurations

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

Platform FW Version	PCH	CPU	OS Support	Platform version in PETS SUT Creation wizard	Intel® PETS Support
Elkhart Lake (EHL)	MCC	EHL	Windows*10	CSE15.40 Elkhart Lake	Intel® PETS 10.7.0.0
Jasper Lake (JSL)	ICL	EHL	Windows*10	CSME13.50 Jasper Lake	Intel® PETS 10.7.0.0
Tiger Lake (TGL)	TGL-LP	TGL-U	Windows*10	Intel® CSME 15.0 Tiger Lake	Intel® PETS 10.7.0.0
Comet Lake (CML-V)	CML-V	CML-S	Windows*10	CSME14.5 Comet Lake	Intel® PETS 10.7.0.0
Comet Lake (CML)	CML-LP CML-H	CML-U/S/H	Windows* 10	Intel® CSME 14 Comet Lake	Intel® PETS 10.7.0.0
WHISKEY LAKE (WHL)	WHL-LP	WHL U	Windows* 10	Intel® CSME12 Whiskey Lake	Intel® PETS 10.7.0.0
Ice Lake (ICL)	ICL-LP	ICL U	Windows* 10	Intel® CSME13 Ice Lake	Intel® PETS 10.7.0.0
Cannon Lake (CNL)	CNL-LP	CNL-U/Y	Windows* 10	Intel® CSME 12 Cannon Lake	Intel® PETS 10.7.0.0



Platform FW Version	PCH	CPU	OS Support	Platform version in PETS SUT Creation wizard	Intel® PETS Support
Coffee Lake (CFL)	CNL-H CNL-LP	CFL-U/ S/ H	Windows* 10	Intel® CSME 12 Coffee Lake	Intel® PETS 10.7.0.0
Mehlow WS Intel® CSME 12.0	CNL-H	CFL-S	Windows* 10	Intel® CSME 12 Coffee Lake	Intel® PETS 10.7.0.0
Kaby Lake-Refresh (KBL)	SPT-LP	KBL-Y/ U	Windows* 10	Intel® CSME 11.8 Kaby lake	Intel® PETS 10.0.0.0
Skylake (SKL)	SKL-LP SKL-H	SKL Y/ U/ S/ H KBL-H	Windows* 7 (64 bit) Windows* 8.1 (64 bit) Windows* 10 (64 bit)	Intel® CSME 11.8 Skylake	Intel® PETS 10.0.0.0
Amber Lake (AML)	KBL-LP	AML-Y	Window*10	Intel® CSME 11.8 Kaby lake	Intel® PETS 10.0.0.0
Kaby Lake (KBL)	KBL-LP KBL-H	KBL-Y/ U/ S/ H	Windows* 10	CSME 11.8 Kaby lake	Intel® PETS 10.0.0.0
Purely WS	LBG	SKX-SP	Windows*10	Intel® CSME 11.8 Skylake	Intel® PETS 10.0.0.0
Basin Falls WS (BSF)	KBL-H	SKX-W SKL-X KBL-X Intel® Xeon® processor E5	Windows* 10	CSME 11.11 Basin Falls	Intel® PETS 10.0.0.0

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

Platform FW Version	PCH	CPU	OS Support	Platform version in PETS SUT Creation wizard	Intel® PETS Support
Gemini Lake (GLK)	N/A	GLK A1	Windows* 10	Intel® TXE 4.0 Gemini Lake	Intel® PETS 10.7.0.0
Apollo Lake (APL)	N/A	Intel® Celeron/ Pentium Processors	Windows* 10 Windows*7 (64 bit)	Intel® TXE 3.0 Skylake	Intel® PETS 10.7.0.0



## 2.1 Important Notes

- Users must uninstall previous PETS versions before updating to PETS 10.7.0.0
- Added Elkhart Lake platform
- DC Testing was not done on Elkhart Lake platform
- DeepSx States are not supported on Elkhart Lake platform
- Added new package: Compliance\_Power\_Network\_Wake\_Integrated\_Discrete.xml
- Added manufacture mode check in global rest test in Elkhart Lake platform
- This release testing is done on LAN connection only
- This release supports Intel® APS version is 3.31.7.10
- This release supports Intel® System Scope Tool version 3.4.1007
- Updated VNC viewer to version 6.20.113
- Updated Intel® VSCC Entries to version 5.0.4.0
- Intel® AMT TBT Dock not tested on TGL Platform
- DeepSx States are not tested on JSL platform
- Secure Intel® PETS Agent service with x509 certificate.
- Intel® PETS now uses .NET framework 4.8
- Intel® SGX packages for all platforms are no longer supported in Intel® PETS. However, the tests are still available in the Compliance Guide and can be run manually.
- Intel® Authenticate package was removed from PETS for TGL and CML platforms, since Intel® Authenticate is EOL.
- for TGL corporate mobile
  - Testing was done on mobile U type stepping A2
  - TGL-Y platform was not tested
- The following tests were not tested under TGL corporate:
  - Tests with DC
  - WLAN Connection
  - TBT\_dock package
  - AMT\_054/055 and AMT\_059
  - AMT\_080 – AMT\_086 (Secure Erase)
  - Common Services (not fully tested)
- The system under test (SUT) should have Visual C++ Redistributable 2015 Packages (x86 & x64) installed.
- Support Intel® TTK version is 1.5.3 (Intel® PETS 10.2.0.0 was only tested using Intel® APS as power provider)
- Intel® ISSU tool version 3.1.0.4301.
- Some test steps will not begin with test step “1”. This is caused by newly developed features which are in progress and will be implemented in future Intel® PETS releases. It is important to note that the test flow itself is not impacted.
- Validation of this release was done with pre-production systems.
- It is highly recommended to run the Setup Environment test package first.
- USB to LAN adapters are not supported in Intel® PETS.

### 2.1.1 Changes in Intel® CSME Packages

- The names of Intel® CSME packages have been updated to align with the names of supported platforms.
- For legal & security reasons, customers will need to download a 3rd party VNC viewer and an ISO image from the internet. That will be required only with corporate SKU platforms testing, for Intel® AMT package usage which includes Intel® SOL (i.e. AMT\_34 to AMT\_35) and KVM tests (i.e. AMT\_40 - AMT\_56) :
  - To allow the download, customers will need to have internet connectivity.

- This will be a one-time download i.e. no need to re-download the files for each use. PETS' users will be notified to download a newer version of the 3rd party VNC viewer and/or the ISO image when available. In this case, after the user have downloaded the newer versions, they will be replace the existing files in PETS directory.
- Refer to Intel® PETS User Guide “section 1.1.4 Prerequisites Manager” for more details.
- Please Note that if any of the files are missing, running the test package will fail resulting an error to be displayed in the report details.
- This release supports up to Windows\* 10 19H1 (RS6) OS on TGL, CML, ICL, CNL, WHL and CFL platforms. Both on the management console (MC) and on the system under test (SUT).
- Windows\* 7 management console should have at least Service Pack 1 (SP1).
- Intel® PETS now supports the new Microsoft APPX driver package for the FW. Besides supporting the legacy Intel® MEI driver.
- Intel® PETS currently doesn't support platforms that have Thunderbolt™ Technology (TBT) enabled.
  - Workaround: Thunderbolt™ Technology (TBT) needs to be disabled prior to running Intel® PETS.

## 2.1.2 Changes in Intel® TXE Packages

- N/A.

## 2.2 Documentation

### 2.2.1 Intel® CSME Related Documentations

- This release is aligned with the following documents:
  - Intel® PETS User Guide revision **10.7.0.0**
  - Intel® APS SW Installation User Guide revision **3.31.7**
  - Elkhart Lake Platform Intel® Converged Security Engine 15.40 APS Guide
  - Cannon Lake /Coffee Lake/Whiskey Lake Compliance Guide revision **1.7** for Corporate and Consumer SKUs.
  - Ice Lake Compliance Guide revision **0.8** for Consumer SKUs.
  - Elkhart Lake Compliance Guide revision **0.6** for Consumer SKUs.
  - Comet Lake Compliance Guide revision **1.1** for Consumer SKUs.
  - Comet Lake Compliance Guide revision **1.1** for Corporate SKUs.
  - Tiger Laker Compliance Guide revision **0.8** for Consumer SKU.
  - Tiger Laker Compliance Guide revision **0.8** for Corporate SKU.
  - Jasper Lake Compliance Guide revision **0.7** for Consumer SKU.

### 2.2.2 Intel® TXE Related Documentations

- This release is aligned with the following documents:
  - Gemini Lake Compliance Guide revision **1.2**.
  - Apollo Lake Compliance Guide revision **1.3**.



## 3 Intel® PETS Updates for Intel® CSME Platforms

### 3.1 Intel® PETS 10.7.0.0 Updates

- Refer to the table below for updates in the FW compliance testing packages in Intel® PETS 10.7.0.0 release:

Test Package	Notes
Intel® AMT	<ul style="list-style-type: none"> <li>Added new test AMT_111 to Compliance_TBT_Dock_LAN for Tiger Lake platform</li> <li>Expected failure for AMT_001 on Tiger Lake platform accompanied with a bios issue, still under investigation</li> </ul>
Intel® PTT	<ul style="list-style-type: none"> <li>BitLocker is not supported on windows 10 home editions; thus, the PTT tests should not be executed on such windows editions</li> </ul>
Intel® TDS	<ul style="list-style-type: none"> <li>TDS Feature only works on 64bit machines</li> <li>Added back TDS Compliance package to Comet Lake platform, <b>not tested yet</b></li> </ul>
Intel® DAL	<ul style="list-style-type: none"> <li>Expected failure for DAL package on Tiger Lake-production since the production DAL applet is not ready.</li> </ul>
Intel® ICC	<ul style="list-style-type: none"> <li>Intel ICC® TST_02 is <b>not tested</b> on Elkhart Lake platform yet</li> </ul>
Intel® SPI	<ul style="list-style-type: none"> <li>Intel® SPI_07 is <b>not tested</b> on Elkhart Lake platform yet</li> </ul>
Intel® DnX	<ul style="list-style-type: none"> <li>Intel® DnX packages are <b>not tested</b> on Elkhart Lake platform yet</li> </ul>

### 3.2 Earlier Updates

- Refer to the table below for updates on the FW compliance testing packages in previous releases:

Test Package	Notes
Intel® AMT	<ul style="list-style-type: none"> <li>Removed the used ISO image from Intel® PETS.</li> <li>Added the check for KVM supported/un-supported into GetInterfaces step for Intel® AMT_070 test and Intel® AMT_013 test</li> <li>Added TBT Dock tests (AMT_1-9) for corporate TGL under new package "Compliance_TBT_Dock_LAN.xml" that supports both Integrate LAN and Discrete LAN- <b>not tested</b></li> </ul>

Test Package	Notes			
	<ul style="list-style-type: none"><li>Changed name of AMT_095 in TGL platform, to “Wired Remote Power Control Transition Check with S3 state”, showing only when S3 on SUT enabled –<b>added not tested</b></li><li>Added new tests in TGL platform: AMT_097/98, AMT_110 to test modern standby with Discrete and TBT dock –<b>not tested</b></li></ul> <p><u>The following note apply to Tiger Lake platform</u></p> <ul style="list-style-type: none"><li>Intel® AMT_055: Remove Disconnect / Reconnect LAN cable steps<ul style="list-style-type: none"><li>➤ ME power gating should be supported when AMT provisioned and LAN connected.</li></ul></li></ul> <p><u>The following AMT TBT dock tests were removed from Tiger Lake and Comet Lake and Comet lake-V platforms</u></p> <ul style="list-style-type: none"><li>Intel® AMT_100 AMT_109 tests</li></ul>			
Intel® Authenticate	<ul style="list-style-type: none"><li>Prior to running IntelAuthenticate_04 test please make sure to remove any existing visual C++ redistributable from the SUT OS. Otherwise, the test will fail, refer to issue #2206299960 for more details.</li></ul>			
Intel® CSME BIOS	<ul style="list-style-type: none"><li><u>The following notes apply to Comet Lake and Tiger Lake platforms</u><ul style="list-style-type: none"><li>➤ Removed “FPT –closemnf” test steps<ul style="list-style-type: none"><li>▪ Intel® FPT tool will not be removed now from Intel® PETS since it may be needed in other packages.</li></ul></li><li>➤ BIOS_008: Added steps to change the default MEBX password at the end of the test.</li><li>➤ BIOS_006/BIOS_008: replaced the PollingS0 TB with BringToBaseState TB after ‘ClearCMOS’ to move the SUT to S0 for Comet Lake Platforms.</li></ul></li><li>Enhanced PETS prompt messages in Bios_08.</li><li>Removed step 13 “PollingMeOnByNetwork” from Bios_06.</li><li>Added the prerequisite Power_S3 to skip suspend subtest in Instant Go Mode in BIOS_06</li><li>For CML and TGL platforms, “Intel® fpt -closemnf” command will now run as part of PETS</li><li>BIOS_001-008</li><li>For Mehlow: <b>BIOS_05</b> test is expected to fail due to a FW issue. For more information, please refer to known issue #<a href="#">1305336554</a>.</li></ul>			
Intel® ICC	<ul style="list-style-type: none"><li>Intel® ICC_TST_03: Removed the test from corporate platforms.</li><li>Added new ICC test implementation using the ICC SDK instead of the CCT tool for CML, CML-V, TGL and ICL platforms</li><li><b>For Intel® CSME 11.8 KBL Platforms:</b> Updated LCPLL_SSC0_BCLK register value to be 0x000F051C instead of 0x000F051D.</li><li>CNL/CFL platforms support standard, adaptive, overlocking, and overlocking extended profiles.</li><li>Test <b>ICC_TST_06</b> on Mehlow WS is expected to fail since overlocking extended profile is not supported for CNP servers.</li><li>Only one of the profiles below is expected to pass on Intel® CSME 11.8 platforms:</li></ul> <table><tr><td>User Profile</td><td>LP Platform</td><td>H Platform</td></tr></table>	User Profile	LP Platform	H Platform
User Profile	LP Platform	H Platform		



Test Package	Notes												
	<table><tr><td>Standard</td><td>ICC_TST_02</td><td>ICC_TST_02</td></tr><tr><td>Adaptive</td><td>ICC_TST_03</td><td>ICC_TST_03</td></tr><tr><td>Overclocking</td><td>N/A</td><td>ICC_TST_04</td></tr><tr><td>Overclocking Plus</td><td>N/A</td><td>ICC_TST_05</td></tr></table>	Standard	ICC_TST_02	ICC_TST_02	Adaptive	ICC_TST_03	ICC_TST_03	Overclocking	N/A	ICC_TST_04	Overclocking Plus	N/A	ICC_TST_05
Standard	ICC_TST_02	ICC_TST_02											
Adaptive	ICC_TST_03	ICC_TST_03											
Overclocking	N/A	ICC_TST_04											
Overclocking Plus	N/A	ICC_TST_05											
Intel® ISH	<ul style="list-style-type: none"><li>Remove Sensor Viewer tool from intel® PETS by adding a new implementation for reading data from sensors without using Sensor Viewer for all platforms</li><li>A conflict exists between Intel® ISH package and the Compliance Guide for Ice Lake project:<ul style="list-style-type: none"><li>Intel® ISH package will be aligned with the compliance guide in the next release.</li></ul></li></ul> <p>Intel® ISS_TST_5,6: Enhancement was made on sensors, where sensors can read data when at least one sensor exists</p> <p>Note: the step will fail if no sensors exists</p> <ul style="list-style-type: none"><li>The following tests are expected to fail when using NorthStar sensor hub:<ul style="list-style-type: none"><li><b>ISS_TST_01.</b></li><li><b>ISS_TST_14.</b></li></ul></li></ul>												
Intel® PSS	<p>Two Intel ® PSS packages were added to TGL platforms:</p> <ul style="list-style-type: none"><li>Compliance_PSS_A0.xml package should be used on A0 stepping.</li><li>Compliance_PSS.xml package should be used for higher stepping.</li><li>Disabled PSS_003 support strap for “USB PCIe Combo Port 1-4” check and “SATA/PCIe* Combo Port 1-2” Check</li><li>Removed PSS_005 Test from consumer package in TGL platform.</li><li>PSS_008: fixed null reference exception occurred only when TPM is supported.</li><li><b><u>The following change is not aligned with SKL CG.</u></b> Please be aware of this change as there will <u>NOT</u> be an update to SKL compliance guide:</li><li>The expected values for Intel Integrated WLAN Enable/Disable are corrected according to the latest version of the SPI programming guide, where: 0= Enabled (default), 1= Disabled</li></ul>												
Intel® PTT	<ul style="list-style-type: none"><li>Intel® PTT_009 Changes:<ul style="list-style-type: none"><li>Cold reset power flow has been covered for TGL ONLY and not applied for all the other previous platforms.</li></ul></li><li>increased WaitForScreenOff delay to be 120 sec for all platforms</li><li>PTT_006 : added a step to destroy VSC in device manager</li><li>The following Intel PTT tests check the encryption process to reach 3% instead of 10%, the compliance guides will be updated in future Intel® PETS releases, this percentage change came after fixing the bug <a href="#">#1306064931</a> .<ul style="list-style-type: none"><li>In order to reduce the time needed to perform these tests; more performance enhancements are under investigations :<ul style="list-style-type: none"><li>PTT_004.</li><li>PTT_005.</li><li>PTT_009.</li></ul></li></ul></li><li><b><u>The following change is not aligned with SKL CG.</u></b> Please be aware of this change as there will <u>NOT</u> be an update to SKL compliance guide.</li><li>For CML platform only, the following tests are now supported in Intel® PETS</li></ul>												

Test Package	Notes
	<ul style="list-style-type: none"> <li>PTT_008</li> </ul>
SPI Flash	<ul style="list-style-type: none"> <li>Tests <b>SPI_007</b> and <b>SPI_008</b> are not fully tested on RVP3 and RVP7 (HW issue).</li> </ul>
PCH soft straps	<ul style="list-style-type: none"> <li>Fixed PSS_003 failure at checking SATA / PCIe* Combo Port 2 Strap configuration for all KBL desktop platform</li> </ul>
Common Services	<p><u>The following note apply to Cannon Lake , Comet Lake and Tiger Lake platforms:</u></p> <ul style="list-style-type: none"> <li>Intel® CS_020: Get Firmware Update OEM ID and pass it as an argument to the FW Update command</li> <li>Intel® CS_003 and CS_007: Fix Disable Intel® WLAN</li> <li>CS_TST 009-010: added messages to ask user to apply and cancel HW RF-Kill manually <ul style="list-style-type: none"> <li>➤ Make the HW RF kill step manual even with APS power provider</li> <li>➤ control it with a new automation configuration parameter, "UseAPSHardwareRF-Kill".</li> </ul> </li> <li>CS TST 021: replace the steps that changes user consent language with messages</li> </ul> <p><u>The following note apply to Comet Lake and Tiger Lake platforms</u></p> <ul style="list-style-type: none"> <li>CS TST 005 and CS TST 006 : have new implementations.</li> </ul> <p>The following note apply to Comet Lake , Cannon Lake and Tiger lake Platforms</p> <ul style="list-style-type: none"> <li>Intel® CS_005 test: <ul style="list-style-type: none"> <li>➤ Added the DeleteAllAMTWirelessProfiles step to delete all the existing profiles before re-create them later .</li> <li>➤ Increased the timeout needed after disabling WLAN driver to 6 min.</li> <li>➤ Added GetWLANDriverName step to get the SUT WLAN driver name automatically</li> </ul> </li> </ul> <p>Added UpdateMEIP step to make sure from the new IP of the 1st Access Point when re-connect to it</p> <p>The following notes apply to Comet Lake</p> <ul style="list-style-type: none"> <li>CS_TST_020 was added under both consumer and corporate (archive)</li> <li>The following tests are now supported in Intel® PETS <ul style="list-style-type: none"> <li>➤ CS_001-010, CS0_20-022</li> </ul> </li> <li>However, tests CS_005 and CS_022 are not fully tested yet and are still under development. Customers are not recommended to run these tests as they are expected to fail.</li> <li>Added new CS001_002 tests to ME12</li> <li>Testers who want to run these tests CS030-037 without Intel® APS must follow the steps in the compliance guide. implementing this part in PETS future release</li> </ul>
Power stress	<p><u>The following notes apply to Comet Lake and Tiger Lake platforms</u></p> <p>Power Stress: SPI log check will run at the first and last iterations of the tests only. If the check failed on the first iteration, the test execution will be aborted.</p>





Test Package	Notes
	<ul style="list-style-type: none"><li>Removed the steps related to getting the SPI flash log for DOS tests and the tests where the final state is not S0<ul style="list-style-type: none"><li>PM_ST_1,2, 18 and 20</li><li>PM_ST_31,32 Consumer platforms,</li><li>PM_ST_2, 3, 7, 16 ,17 for Corporate platforms</li></ul></li></ul> <p><u>The following note apply to Tiger Lake, Comet Lake and Comet Lake -V platforms:</u></p> <ul style="list-style-type: none"><li>Mark "GetMeinfoValue" as not mandatory.<ul style="list-style-type: none"><li>When the step fails, it will show a warning and the test will continue.</li></ul></li><li>Add 3 min delay after unprovisioning the machine. The delay is integrated inside the "Unprovisioning" TB</li></ul>

## 4 Intel® PETS Updates for Intel® TXE Platforms

### 4.1 Intel® PETS 10.7.0.0

- Refer to the table below for updates on the FW compliance testing packages in Intel® PETS 10.7.0.0

Test Package	Notes
N/A	

### 4.2 Earlier Updates

- Refer to the table below for updates on the FW compliance testing packages in previous releases:

Test Package	Notes
SPI Flash	<ul style="list-style-type: none"> <li>Test SPI_007 is not validated due to HW issue on CRBs.</li> </ul>



## 5 Implemented RCRs in This Release

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Issue #	Title	Description
N/A	N/A	N/A



## 6 Fixed Issues in This Release

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Issue #	Title	Details
22010437468	Redundant files appearing under Local Agent directory	<b>Description:</b> irrelevant files appearing in the local agent directory <b>Impact:</b> this bug affects the PETS framework <b>Affected Platform:</b> Elkhart Lake <b>Affected Component:</b> Intel PETS® Framework



## 7 Open / Known Issues – to Date

Issue #	Title	Details
1307497147	Check FWSTS TB failure verifying the values following CG 0.6	<b>Description:</b> Check FWSTS TB failure due to wrong values in CG <b>Impact:</b> Failure in PM tests <b>Affected Platform:</b> Elkhart Lake <b>Affected Component:</b> Intel PETS® Power Management
1307505127	ME_PM_4.2 Test is added while it cannot be found in the CG rev.0.6	<b>Description:</b> CG not aligned with PETS tests <b>Impact:</b> Missing Test in CG <b>Affected Platform:</b> Elkhart Lake <b>Affected Component:</b> Intel PETS® Power Management
1307518126	PETS fails retrieve all Fields required in the SUT information under SUT wizard and BringToBase TB fails in getting provisioning state	<b>Description:</b> When Secure boot is enabled in Bios, PETS fails retrieve all Fields required in the SUT information under SUT wizard and BringToBase TB fails in getting provisioning state <b>Impact:</b> this bug affects the PETS framework <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> Intel PETS® Framework
16010705050	AMT_001 test expected to fail for TGL, due to BIOS issue (Still under investigation)	<b>Description:</b> Compliance AMT_001 failure <b>Workaround:</b> N/A. <b>Impact:</b> Failed test <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> PETS AMT
1307024277	Removing Intel® ICC_tst_03 from Comet Lake Corporate packages	<b>Description:</b> Removing Intel® ICC_TST_03 since the "OverClockingExtended" ICC Profile is not supported <b>Workaround:</b> N/A. <b>Impact:</b> Intel® ICC_TST_03 <b>Affected Platform:</b> Comet Lake <b>Affected Component:</b> Intel® ICC
1306018395	Intel® authenticate_01 PETS Test fails.	<b>Description:</b> Intel® authenticate_01 PETS Test fails. <b>Workaround:</b> N/A. <b>Impact:</b> 'PTD disabled' error is being displayed. <b>Affected Platform:</b> Kaby lake. <b>Affected Component:</b> Intel® Authenticate.
1305336554	The SubSystem ID of Intel® SOL (KT) device appears to be zero.	<b>Description:</b> The Subsystem ID (SID) of KT devices must be programmed by BIOS to be non-zero and read-only. <b>Workaround:</b> N/A <b>Impact:</b> Failure of test BIOS_05. <b>Affected Platform:</b> Mehlow WS <b>Affected Component:</b> This issue not an Intel® PETS issue but is tracked in Intel® PETS release notes as it affects BIOS compliance tests.

## 8 Fixed Issues in previous Revisions

### 8.1 Revision 10.6.1.0

Issue #	Title	Details
1307344515	TDS Tests in PETS not aligned with CML Rev 1.0 CG	<b>Description:</b> PETS not aligned with CG. <b>Workaround:</b> N/A. <b>Impact:</b> Missing tests <b>Affected Platform:</b> Comet Lake <b>Affected Component:</b> PETS CG.
1307443700	AMT_042/44 Tests fail at Open KVN session while using VNC Viewer	<b>Description:</b> TGL, AMT_042 /AMT_044 Tests fail at "Open KVM Session Using VNC Viewer" TB when using VNC viewer 6.20.113 <b>Workaround:</b> N/A. <b>Impact:</b> Failure at AMT_042 and AMT_044 Tests. <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> Intel® AMT
1507889263	PSS_003 Tests fails due to old CG Revision 0.7 in TGL	<b>Description:</b> PSS_003 fails due to old Compliance Guide version. <b>Workaround:</b> N/A. <b>Impact:</b> Failure at PSS_003 test. <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> Intel® PSS

### 8.2 Revision 10.5.2.0

Issue #	Title	Details
22010289985	PETS Test PSS_001 failure in CML	<b>Description:</b> No support for Intel WLAN because LAN signal configuration is set to "Enable as GPD11" <b>Workaround:</b> N/A. <b>Impact:</b> PSS_001 step fails <b>Affected Platform:</b> Comet Lake <b>Affected Component:</b> AMT® package

### 8.3 Revision 10.5.0.0

Issue #	Title	Details
1307059542	"SetMPHYSettings" step failed in Intel® ICC_TST_4	<b>Description:</b> "SetMPHYSettings" step failed in Intel® ICC_TST_4 since this setting is not supported with Intel® CCT tool <b>Workaround:</b> N/A. <b>Impact:</b> "SetMPHYSettings" step fails <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> PETS Intel® ICC
1306930820	"ICCGetMPHYVersion" command caused Intel® ICC SDK to crash	<b>Description:</b> "ICCGetMPHYVersion" command caused Intel® ICC SDK to crash <b>Workaround:</b> N/A.



Issue #	Title	Details
		<b>Impact:</b> Intel® ICC SDK crashed <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> PETS Intel® ICC
1507752552	BIOS_8 PETS prompt is not clear	<b>Description:</b> User messages not clear when running Intel® BIOS_8 <b>Workaround:</b> N/A. <b>Impact:</b> Unclear message <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> PETS BIOS
14010948240	Compliance testing_ PSS_004	<b>Description:</b> Compliance testing_ PSS_004 failure <b>Workaround:</b> N/A. <b>Impact:</b> PSS_004 test failing <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> TGL CSME
16010705050	AMT_001 failed at "Validate Hardware asset information against SMBIOS tables structures"	<b>Description:</b> Compliance AMT_001 failure <b>Workaround:</b> N/A. <b>Impact:</b> Failed test <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> PETS AMT
1307306192	BIOS_01test fails on "Error: Invalid HECI message type format"	<b>Description:</b> BIOS_01 test failure <b>Workaround:</b> N/A. <b>Impact:</b> BIOS_01 test failing <b>Affected Platform:</b> Tiger Lake <b>Affected Component:</b> PETS BIOS

## 8.4 Revision 10.4.2.0

Issue #	Title	Details
1 307042197	Intel® authenticate_04 PETS Test is expected to fail	<b>Description:</b> Intel® authenticate_04 PETS Test is expected to fail according to CMD output <b>Workaround:</b> N/A. <b>Impact:</b> Intel® authenticate_04 PETS Test <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> Intel® authenticate
2209978991	Intel® PM 46.6 test failed on verify ME	<b>Description:</b> when verify ME is in PG Intel® PM 46.6 test failed <b>Workaround:</b> N/A. <b>Impact:</b> Intel® PM 46.6 test fails <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> Intel® PM

## 8.5 Revision 10.3.0.0

Issue #	Title	Details
1306794857	Intel® CS_021 test fails when changing the windows default language	<b>Description:</b> Intel® CS_021 Test fails when changing Windows default language to French <b>Workaround:</b> N/A. <b>Impact:</b> Intel® CS_021 test fails <b>Affected Platform:</b> Comet Lake <b>Affected Component:</b> Common services
1306969637	Replacing 4 test steps in BIOS_08 test by one user question	<b>Description:</b> Replacing 4 test steps by one user question "asking the user to enter the MEBX and verify that the password has been reset to the default (The one the closemnf happened with)." <b>Workaround:</b> N/A. <b>Impact:</b> BIOS_08 test flow <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> This issue not an Intel® PETS issue but is tracked in Intel® PETS release notes as it affects BIOS compliance tests.
1307011410	Test CS_005 fails due to an invalid parameter	<b>Description:</b> Invalid test parameter caused the failure of test CS_005 <b>Workaround:</b> N/A. <b>Impact:</b> CS_005 test will fail on step "Get the WLAN driver Name" <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> Common Services
2209886320	Intel® PSS_008 PETS "To verify TPM on SPI configured " test failed	<b>Description:</b> Intel® PSS_008 PETS test failed "To verify TPM on SPI configured " at step 19 <b>Workaround:</b> N/A. <b>Impact:</b> Intel® PSS_008 PETS test failed <b>Affected Platform:</b> Coffee Lake <b>Affected Component:</b> Intel® Platform Controller Hub

## 8.6 Revision 10.2.0.0

Issue #	Title	Details
1306969337	Enhancing the user message in BIOS_06 test	<b>Description:</b> Enhancing the user message by removing the part of the message that asks the user to change the Intel® MEBx password <b>Workaround:</b> N/A. <b>Impact:</b> BIOS_06 test flow fails <b>Affected Platform:</b> Comet Lake and Tiger Lake <b>Affected Component:</b> BIOS compliance test





## 8.7 Revision 10.1.0.0

Issue #	Title	Details
1306726780	Sleep tests still appear even when in the SUT is in S0 state .	<b>Description:</b> when checking the "S0 Low Power idle state" check box in the feature selection tab of a SUT , and enabling the features in BIOS , sleep tests still appear <b>Workaround:</b> N/A. <b>Impact:</b> AMT_092/095/101/104 tests fail <b>Affected Platform:</b> CML corporate <b>Affected Component:</b> Intel® AMT
1306729295	intel® CSME IP fails to update when the machine is in Sx State	<b>Description:</b> when disconnecting the SUT from the ethernet and connect it to the dock the SUT should be kept in in Sx state causing intel® CSME IP update to fail <b>Workaround:</b> N/A. <b>Impact:</b> AMT_101 to AMT _ 104 tests fail <b>Affected Platform:</b> CML Corporate <b>Affected Component:</b> Intel® AMT

## 8.8 Revision 10.0.0.0

Issue #	Title	Details
1306608182	Test CS_022 fails after replacing WLAN card for CML corporate Wireless SUT.	<b>Description:</b> test CS_020 fails over "PollingMeOnByNetwork" after replacing WLAN card, since the IP used by the SUT is not updated successfully. <b>Workaround:</b> N/A. <b>Impact:</b> Failure <b>Affected Platform:</b> CML corporate Wireless SUT. <b>Affected Component:</b> Common Services
1306626081	Error while downloading Prerequisites Manager	<b>Description:</b> Accessing "OriginalDownloadInformation.xml" path returns error in Prerequisites Manager. <b>Workaround:</b> N/A. <b>Impact:</b> Error <b>Affected Platform:</b> CNL corporate Platform. <b>Affected Component:</b> Intel® SW PETS
1306657126	Polling S0 step gets stuck when OS doesn't boot.	<b>Description:</b> Polling S0 step "wait until the machine transitions to S0" gets stuck instead of stopping, when OS doesn't boot <b>Workaround:</b> N/A. <b>Impact:</b> Polling S0 step gets stuck <b>Affected Platform:</b> CML-H Platform <b>Affected Component:</b> Power Management.
1306603438	Intel® PETS local agent fails to install on clean OS	<b>Description:</b> Incorrect installation order in Intel® PETS local agent causing the installation on clean OS to fail. <b>Workaround:</b> N/A. <b>Impact:</b> Failure. <b>Affected Platform:</b> All. <b>Affected Component:</b> Intel® SW PETS

## 8.9 Revision 9.19.0

Issue #	Title	Details
1306509326	Test ME_PM_46 fails over Polling S0 for CNL Consumer SUT	<b>Description:</b> Error executing test Step "PollingS0" in Test ME_PM_46 of the Compliance_Power_RST package due to an invalid parameter <b>Workaround:</b> N/A. <b>Impact:</b> Failure <b>Affected Platform:</b> Cannon Lake Consumer SUT. <b>Affected Component:</b> Power Management
1306493053	Setting PP1 fails when the platform is in post provisioning state	<b>Description:</b> CS030-037 tests fail on Set PP1 using a wireless only SUT when the platform is in post-provisioning state <b>Workaround:</b> N/A. <b>Impact:</b> Failure <b>Affected Platform:</b> WHL-U Platform. <b>Affected Component:</b> Common Services
1607328273	Failure of the following tests: bios_01 and AMT_32 TO AMT_59	<b>Description:</b> Timeout error causes bios_01 and AMT_32-59 to fail. <b>Workaround:</b> N/A. <b>Impact:</b> Recovery by G3 only. <b>Affected Platform:</b> CFL-S and GLK . <b>Affected Component:</b> BIOS and Intel® AMT
1306523075	Error while downloading "BootableISOImage"	<b>Description:</b> The remote server returned (404) while downloading "BootableISOImage" <b>Workaround:</b> N/A. <b>Impact:</b> Error. <b>Affected Platform:</b> CNL . <b>Affected Component:</b> Common Services
1306516899	Hidden package test (ME_Power_Gating_newt_work_Wake ) under KBL 11.8 project	<b>Description:</b> The WLAN net network option isn't found in the feature selection tab for KBL 11.8 project causing the tests to be hidden . <b>Workaround:</b> N/A. <b>Impact:</b> Wrong prerequisites <b>Affected Platform:</b> KBL . <b>Affected Component:</b> Common Services
1807908674	Test fails to set LP3 in pre-provisioning state	<b>Description:</b> when using a wireless only SUT, tests CS030-037 fail over "PP_LinkPolicyEnabled_in_S0SX" when the platform is in pre-provisioning state <b>Workaround:</b> N/A. <b>Impact:</b> Failure because step must be skipped in pre-provisioning state <b>Affected Platform:</b> CNL . <b>Affected Component:</b> Common Services
1306575553	Error executing "Power.VerifyMeSystemState" while system is in pre-provisioning state-	<b>Description:</b> Error executing "Power.VerifyMeSystemState" after Shutdown while system is in pre-provisioning state-CS_032&033 <b>Workaround:</b> N/A. <b>Impact:</b> Error executing test step "Power VerifyMe System State" <b>Affected Platform:</b> CNL . <b>Affected Component:</b> Common Services



## 8.10 Revision 9.18.0.0

Issue #	Title	Details
2207134491	The "failure only" filter in the Report Viewer does not display failed tests.	<b>Description:</b> when opening the report viewer, then viewing the logs of any failed test cases, applying the "failure only" filter fails to display the failed tests. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Whiskey lake. <b>Affected Component:</b> Intel® PETS SW.
1305942114	KVM_tests : OpenVNCViewer' step is causing PETS to completely crash	<b>Description:</b> Intel® PETS Crashes when trying to open KVM session using VNC Viewer. <b>Workaround:</b> Management Console should have The Visual C++ Redistributable Packages(x86 & x64) installed. <b>Impact:</b> Intel® PETS crashes. <b>Affected Platform:</b> N/A. <b>Affected Component:</b> Intel® PETS Management Consol.

## 8.11 Revision 9.17.0.0

Issue #	Title	Details
2207093545	Step 24 of Intel® PSS_003 test "Flexible I/O Testafter" fails.	<b>Description:</b> the 24 <sup>th</sup> step in PSS_003 test shows a failure. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Sky Lake. <b>Affected Component:</b> Intel® Platform Controller Hub.
1409121326	When performing Intel® ME FW test, all Intel® SPI, and Intel® PSS tests fail.	<b>Description:</b> all Intel® SPI, and Intel® PSS tests fail. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Purley WS. <b>Affected Component:</b> Intel® PETS SW.

## 8.12 Revision 9.16.0.0

Issue #	Title	Details
1305799269	Saving the changes in the package will cause the "feature selection" option to malfunction.	<b>Description:</b> Changes applied to feature selection are useless when saving those changes to the package itself. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Cannon Lake / Whiskey Lake. <b>Affected Component:</b> Intel® PETS SW.
2206299960	Intel® Authenticate_04 test step "Install the new MFA engine while running IntelAuthenticateWW_04" fails.	<b>Description:</b> N/A. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Coffee Lake Platforms. <b>Affected Component:</b> Intel® Authenticate.

## 8.13 Revision 9.15.0.0

Issue #	Title	Details
1305945871	Performing a repair process for Intel® PETS installation will cause most of the tests to fail.	<b>Description:</b> repairing Intel® PETS installation will cause issues; this is due to ConfigME.dll, and ConfigTXE.dll dynamic libraries being under Intel® PETS root directory. <b>Workaround:</b> N/A. <b>Impact:</b> most of Intel® PETS tests will fail. <b>Affected Platform:</b> Cannon Lake / Whiskey Lake. <b>Affected Component:</b> Intel® PETS SW.
2206387711	Intel® ISS_007/_008 tests fail to read data from ambient light sensor.	<b>Description:</b> Intel® ISS_007/_008 tests fail to read data from ambient light sensor, log file shows that the ambient light sensor does not exist. <b>Workaround:</b> N/A. <b>Impact:</b> N/A. <b>Affected Platform:</b> Coffee Lake. <b>Affected Component:</b> Intel® ISH.
1305917667	SUT does not wake up when clicking on the VNC viewer window.	<b>Description:</b> when performing Intel® PETS AMT_56 test, SUT gets stuck on s3 state, and the VNC application is unable to wake the SUT up. <b>Workaround:</b> N/A. <b>Impact:</b> SUT is stuck on S3 state. <b>Affected Platform:</b> Cannon Lake / Whiskey Lake. <b>Affected Component:</b> Intel® PETS AMT.
1506844496	Using HDD; Intel® AMT_044/045 tests are unable to receive the users' consent message, and the KVM screen is stuck on black after resuming from s3 state.	<b>Description:</b> Intel® AMT_044/045 tests fail to see users' consent, SUT is stuck on black screen. <b>Workaround:</b> disable the headless support. <b>Impact:</b> N/A. <b>Affected Platform:</b> Coffee Lake. <b>Affected Component:</b> Intel® AMT.

## 8.14 Revision 9.14.0.0

Issue #	Title	Details
2206283380	Intel® PTT_006 fails on step 24.	<b>Description:</b> N/A. <b>Impact:</b> Intel® PTT_006 fails on step 24. <b>Affected Platform:</b> Cannon Lake / Whiskey Lake. <b>Affected Component:</b> Intel® PTT.
1306064931	Intel® PTT_009 test infinitely performs the tests' step #44 "waiting for encryption to start".	<b>Description:</b> Intel® PTT_009 test step #44 keeps waiting for the encryption process to start when it's already completed; this test step should handle this case, but it doesn't. <b>Workaround:</b> N/A. <b>Impact:</b> Intel® PTT_009 test step #44 keeps running forever. <b>Affected Platform:</b> Cannon Lake / Whiskey Lake / Ice Lake. <b>Affected Component:</b> Intel® PTT.
1306030915	Intel® authenticate_01 fails on pre-check.	<b>Description:</b> Intel® authenticate_01 fails on pre-check. <b>Workaround:</b> N/A. <b>Impact:</b> Intel® DAL version is displayed as "unknown". <b>Affected Platform:</b> Cannon Lake / Whiskey Lake. <b>Affected Component:</b> Intel® Authenticate.



## 8.15 Revision 9.13.0.0

Issue #	Title	Details
1306008075	Updated display messages for IntelAuthenticate_04/_06 tests packages.	<b>Description:</b> the following notes were removed from IntelAuthenticate_04/ IntelAuthenticate_06 tests packages: <ul style="list-style-type: none"> <li>- Since PETS now requires .Net version 4.6 for all tests, no need for the 4.5 .Net version check.</li> <li>- Since the following automated tests' steps are uninstalling the IA engine, no need to manually uninstall it.</li> </ul> <b>Affected Platform:</b> Cannon Lake/ Whiskey Lake. <b>Affected Component:</b> Intel® Authenticate.
2205575122	Intel® PETS will show failed test result when run step "CheckIMSS".	<b>Description:</b> Intel® PETS Setup Environment test 4 fails at step "CheckIMSS". <b>Affected Platform:</b> Whiskey Lake. <b>Affected Component:</b> Setup Environment.
1306001961	BIOS_05 failure at "TBPCISIDSVI".	<b>Description:</b> Intel® PETS Bios Test "BIOS_05" fails at step "TBPCISIDSVI". <b>Affected Platform:</b> Cannon Lake/ Whiskey Lake. <b>Affected Component:</b> Intel® PETS BIOS/Intel® Compliance_SpiFlashConfiguration.
1506921617	'MultipleProcessorSocketTest' failed when running Intel® PETS PSS_006 test on dual CPU configs.	<b>Description:</b> Intel® PETS PSS_006 test fails at step #12 "MultipleProcessorSocketTest". <b>Affected Platform:</b> Purley Workstation. <b>Affected Component:</b> Intel® PETS PSS.

## 8.16 Revision 9.12.0.0

Issue #	Title	Details
1305905436	Running Multiple Packages: when you make changes to any package, the system doesn't prompt for confirmation before proceeding.	<b>Description:</b> making any change (select/deselect) to packages after running multiple packages, those changes will be ignored by the system. <b>Affected Platform:</b> All. <b>Affected Component:</b> Intel® PETS Packages

## 8.17 Revision 9.11.0.0

Issue #	Title	Details
1305895733	Removing "sleep" subtests from AMT-KVM tests.	<b>Description:</b> black screen always appears when the SUT is transits from the S3 to S0 state. <b>Affected Component:</b> Compliance Guide.
1305718635	IntelAuthenticate_01 fails with "unsupported OS version" warning.	<b>Description:</b> IntelAuthenticate_01 test fails when pre-checking the OS version, showing "Unsupported OS: Windows 10 RS4) version. Manual testing shows a warning with a "prerequisites test passed" message. <b>Affected Component:</b> Intel® Authenticate.
1305718974	The need to update the compare values (BKC) in	<b>Description:</b> the compare values are old. <b>Affected Component:</b> setup Environment Test Package.



Issue #	Title	Details
	"SetupEnvironment" tests package.	