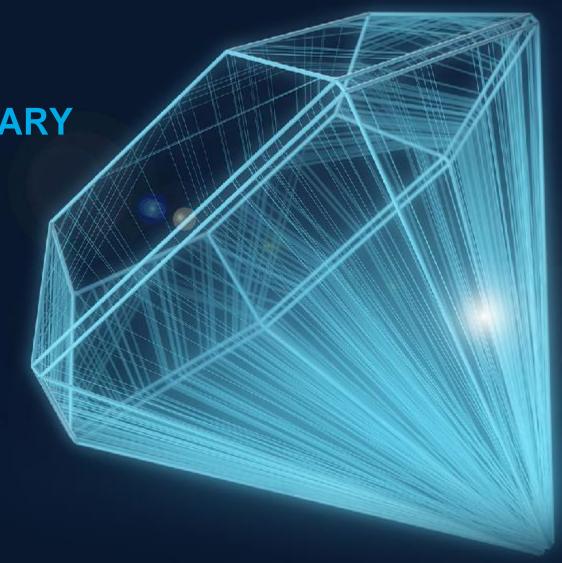
SECURITY INFORMATION SUMMARY

The latest security information on dynabook PC products.

- THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.
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- OTHER NAMES AND BRANDS MAY BE CLAIMED AS THE PROPERTY OF OTHERS

Last modified: June 22, 2021





DATE*	VENDOR ID	VULNERABILTY DESCRIPTION	
June 22, 2021	Intel-SA-00545	Intel® Rapid Storage Technology Advisory	
	Intel-SA-00520	Intel® Wireless Bluetooth® and Killer™ Bluetooth® Advisory	
	Intel-SA-00506	Intel Unite® Client for Windows Advisory	
May 18, 2021	Intel-SA-00473	Intel® PROSet/Wireless WiFi, Intel vPro® CSME WiFi and Killer™ WiFi Advisory	
	Intel-SA-00455	Intel® SGX Platform Advisory	
Mar 29, 2021	Intel-SA-00448	Intel® PROSet/Wireless WiFi and Killer™ Driver Advisory	
	Intel-SA-00438	Intel® Graphics Drivers Advisory	
	Intel-SA-00404	Intel® AMT and Intel® ISM Advisory	
	Intel-SA-00389	2020.2 IPU - Intel® RAPL Interface Advisory	
	Intel-SA-00381	2020.2 IPU - Intel® Processor Advisory	
Dec 21, 2020	Intel-SA-00422	Intel® Thunderbolt™ DCH Drivers for Windows Advisory	
	Intel-SA-00421	Intel® HID Event Filter Advisory	
	Intel-SA-00418	Intel Unite® Cloud Service Client Advisory	
	Intel-SA-00409	Intel® High Definition Audio Advisory	
	Intel-SA-00403	Intel® Wireless Bluetooth® Advisory	
	Intel-SA-00402	Intel® PROSet/Wireless WiFi Software Advisory	
	Intel-SA-00391	2020.2 IPU - Intel® CSME, SPS, TXE and AMT Advisory	
	Intel-SA-00350	Intel Unite® Client Advisory	

Security Information Summary Contents [2020 / 2021]

DATE*	VENDOR ID	VULNERABILTY DESCRIPTION	
Sep 16, 2020	Intel-SA-00337	Intel® Wireless Bluetooth® Advisory	
	Intel-SA-00355	Intel® PROSet/Wireless WiFi Software Advisory	
Aug 05, 2020	Intel-SA-00366	Intel® Innovation Engine Advisory	
Jul 21, 2020	Intel-SA-00322	2020.1 IPU - BIOS Advisory2020.1 IPU - BIOS Advisory	
	Intel-SA-00320	Special Register Buffer Data Sampling Advisory	
	Intel-SA-00295	2020.1 IPU – Intel® CSME, SPS, TXE, AMT, ISM and DAL Advisory	
Apr 15, 2020	Intel-SA-00338	Intel® PROSet/Wireless WiFi Software Advisory	
Mar 30, 2020	Intel-SA-00330	Intel® Snoop Assisted L1D Sampling Advisory	
Mar 26, 2020	Intel-SA-00315	Intel® Processor Graphics Advisory	
	Intel-SA-00326	Intel® Optane™ DC Persistent Memory Module Management Software Advisory	
Mar 02, 2020	Intel-SA-00329	Intel® Processor Data Leakage Advisory	
	Intel-SA-00314	Intel® Processor Graphics Advisory	

^{*} Item add date in dynabook Europe security information summary



DATE*	VENDOR ID	VULNERABILTY DESCRIPTION
May 14, 2019	Intel-SA-00233	Micro architectural Data Sampling Advisory
	Intel-SA-00213	Intel® CSME, Intel® SPS, Intel® TXE, Intel® DAL, and Intel® AMT 2019.1 QSR Advisory
Mar 03, 2019	Intel-SA-00191	Intel Firmware 2018.4 QSR Advisory
	Intel-SA-00189	Intel® Graphics Driver for Windows* 2018.4 QSR Advisory
	Intel-SA-00185	Intel® CSME, Server Platform Services, Trusted Execution Engine and Intel® Active Management Technology 2018.4 QSR Advisory
Jan 08, 2019	Intel-SA-00182	Intel® PROSet/Wireless WiFi Software Advisory
Sep 11, 2018	Intel-SA-00142	Intel® Platform Trust Technology (PTT) Update Advisory
	Intel-SA-00141	Intel® Active Management Technology 9.x/10.x/11.x/12.x Security Review Cumulative Update Advisory
	Intel-SA-00125	Intel CSME Assets Advisory
Aug 14, 2018	Intel-SA-00161	Q3 2018 Speculative Execution Side Channel Update
July 09, 2018	Intel-SA-00118 Intel-SA-00112	Intel® AMT 9.x/10.x/11.x Security Review Cumulative Update & Intel® ME 11.x issue
Jan 03, 2018	Intel-SA-00088	Intel® Processor firmware vulnerability
May 21, 2018	Intel-SA-00115	Speculative Execution and Indirect Branch Prediction Side Channel Analysis Method
Apr 03, 2018	Intel-SA-00087	Unsafe Opcodes exposed in Intel SPI based products
Jan 31, 2018	Intel-SA-00089	Intel® Graphics Drivers for Windows Code can fail to adequately validate a pointer input
Dec 12, 2017 Oct 10, 2017	Intel-SA-00095	Intel® Content Protection HECI Service has a Type Confusion vulnerability which potentially can lead to a privilege escalation
		Potential vulnerability in Infineon® TPM (Trusted Platform Module) used in Dynabook Inc. notebook products
Nov 20, 2017	Intel-SA-00082	Intel AMT® Upgradable to Vulnerable Firmware, Intel Security Vulnerabilities Regarding Intel® Management Engine (ME), Intel® Server
Oct 16, 2017	Intel-SA-00101	One or more Intel Products affected by the Wi-Fi Protected Access II (WPA2) protocol vulnerability
May 01, 2017	Intel-SA-00075	Vulnerability in Intel® Active Management Technology (AMT), Intel® Standard Manageability (ISM), and Intel® Small Business Technology versions firmware versions 6.x, 7.x, 8.x 9.x, 10.x, 11.0, 11.5, and 11.6
Jan 12, 2018		Intel® AMT password security issue (F-Secure)

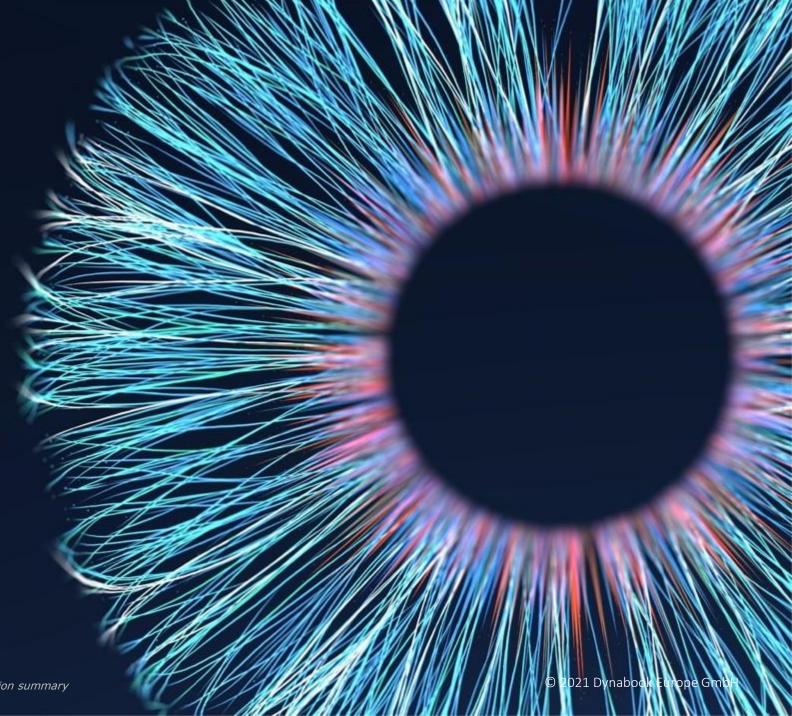
Security Information Summary Contents [2017 / 2018 / 2019]

DATE*	VENDOR ID	VULNERABILTY DESCRIPTION	
Dec 18, 2019	Intel-SA-00324	Intel® RST Advisory	
	Intel-SA-00317	Unexpected Page Fault in Virtualized Environment Advisory	
	Intel-SA-00289	Intel® Processors Voltage Settings Modification Advisory	
	Intel-SA-00270	2019.2 IPU – TSX Asynchronous Abort Advisory	
	Intel-SA-00260	Intel® Processor Graphics 2019.2 IPU Advisory	
	Intel SA-00253	Intel® Ethernet I218 Adapter Driver for Windows Advisory	
	Intel-SA-00241	Intel® CSME, Intel® SPS, Intel® TXE, Intel® AMT, Intel® PTT and Intel® DAL Advisory	
	Intel-SA-00220	Intel® SGX and Intel® TXT Advisory	

^{*} Item add date in dynabook Europe security information summary

2021

DYNABOOK SECURITY VULNERABILITY INFORMATION RELEASES WITHIN 2021*



VULNERABILTY SUMMARY

 A potential security vulnerability in the Intel® Rapid Storage Technology software may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.

Vulnerability Details:

CVEID: CVE-2021-0104

Description: Uncontrolled search path element in the installer for the Intel(R) Rapid Storage Technology software, before versions 17.9.0.34, 18.0.0.640 and 18.1.0.24, may allow an authenticated user to potentially enable escalation of privilege via local access.

Affected Products:

Intel® Rapid Storage Technology software before versions 17.9.1.1009.5, 18.0.3.1148.4 and 18.1.0.1028.2 with installer versions before 17.9.0.34, 18.0.0.640 and 18.1.0.24 respectively.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00545.html

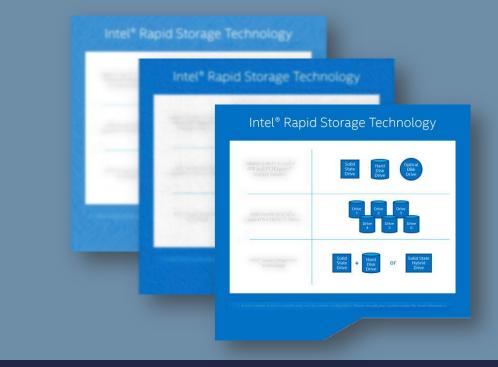
STATUS

RESOLVED

RESOLUTION

■ Intel recommends updating the Intel® Rapid Storage Technology software to versions 17.9.1.1009.5, 18.0.3.1148.4 and 18.1.0.1028.2 with installer versions before 17.9.0.34, 18.0.0.640 and 18.1.0.24 or higher.

Updates are available for download at this location: <u>Downloads for Intel® Rapid Storage</u> Technology (Intel® RST)



Intel® Rapid Storage Technology Advisory

[Intel-SA-00545]

VULNERABILTY SUMMARY

 Potential security vulnerabilities in Intel® Wireless Bluetooth® products and Killer™ Bluetooth® products may allow information disclosure. Intel is releasing firmware updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2020-26555 (Non-Intel issued)

Intel Description (official wording not yet available): Improper access control in some Intel(R) Wireless Bluetooth(R) products in multiple operating systems and Killer(TM) Bluetooth(R) products in Windows 10 may allow an unauthenticated user to potentially enable information disclosure via adjacent access.

CVEID: CVE-2020-26558 (Non-Intel issued)

Intel Description (official wording not yet available): Improper authentication in some Intel(R) Wireless Bluetooth(R) products in multiple operating systems and Killer(TM) Bluetooth(R) products in Windows 10 may allow an unauthenticated user to potentially enable information disclosure via adjacent access.

Affected Products:

- Intel® Wireless Bluetooth® products:
 Intel® Wi-Fi AX210,AX201,AX200 / Intel® Wireless-AC9560,-AC9462,-AC9461,-AC9260 / Intel® Dual Band Wireless-AC 8265,-AC 8260,-AC 3168,-AC 3165 / Intel® Wireless 7265 (Rev D) Family
- Killer™ Bluetooth® products: Killer™ Wi-Fi 6E AX1675 / Killer™ Wi-Fi 6 AX1650 / Killer™ Wireless-AC 1550

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00520.html

STATUS

RESOLVED

RESOLUTION

 Intel recommends updating affected Intel® Wireless Bluetooth® and Killer™ Bluetooth® products to version 22.50 or later.

For Windows* 10, updates are available for download at this location: https://www.intel.com/content/www/us/en/support.html



Intel® Wireless Bluetooth® and Killer™ Bluetooth® Advisory

[Intel-SA-00520]

VULNERABILTY SUMMARY

 Potential security vulnerabilities in the Intel Unite® Client for Windows may allow escalation of privilege. Intel is releasing software updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2021-0112 CVEID: CVE-2021-0098 CVEID: CVE-2021-0108 CVEID: CVE-2021-0102

Affected Products:

Intel Unite® Client for Windows before version 4.2.25031.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00506.html

STATUS

RESOLVED

RESOLUTION

• Intel recommends updating the Intel Unite® Client for Windows to version 4.2.25031 or later.

Updates are available for download at this location: https://downloadcenter.intel.com/product/89294/Intel-Unite-app



Intel Unite® Client for Windows Advisory

[Intel-SA-00506]

VULNERABILTY SUMMARY

 Potential security vulnerabilities in some Intel® PROSet/Wireless WiFi and Intel vPro® Converged Security and Management Engine (CSME) WiFi and Killer™ WiFi may allow denial of service. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2020-24586 | CVE-2020-24587 | CVEID: CVE-2020-24588 (all Non-Intel issued)

Affected Products:

- Intel® PROSet/Wireless WiFi products:
 Intel® Wi-Fi AX210,AX201,AX200 / Intel® Wireless-AC9560,-AC9462,-AC9461,-AC9260 / Intel® Dual Band Wireless-AC 8265,-AC 8260,-AC 3168,-AC 3165 / Intel® Wireless 7265 (Rev D) Family
- Intel vPRO® CSME WiFi products: Intel® Wi-Fi 6 AX201,AX200 / Intel® Dual Band-/Wireless-AC9560,-AC9260 / -AC8265,-AC8260
- Killer™ WiFi products: Killer™ Wi-Fi 6E AX1675 / Killer™ Wi-Fi 6 AX1650 / Killer™ Wireless-AC 1550
- Intel® PROSet/Wireless products: Intel® Wi-Fi 6 AX201 | AX200 | AC 9560 | AC 9462 | AC 9461
- Killer™ products: Killer™ Wi-Fi 6 AX1650 | AC 1550

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00473.html

STATUS

RESOLVED

RESOLUTION

 Intel recommends updating Intel® PROSet/Wireless WiFi to version 22.30 or later. Updates are available for download at this location: https://downloadcenter.intel.com/download/30208

The 22.30.0 package installs the Windows 10 Wi-Fi drivers for the following Intel® Wireless Adapters:

- 22.30.0.11 for AX210/AX201/AX200/9560/9260/9462/9461 (Only available in 64-bit version)
- 20.70.21.2for 8265/8260 (Only available in 64-bit version)
- 19.51.33.1 for 7265(Rev. D)/3165/3168
- Intel recommends that users of Intel® vPRO® CSME WiFi products update to the latest version provided by the system manufacturer that addresses these issues.



Intel® PROSet/Wireless WiFi and Killer™ Driver Advisory

[Intel-SA-00473]

VULNERABILTY SUMMARY

 A potential security vulnerability in the Intel® Software Guard Extensions (SGX) may allow information disclosure. Intel released firmware updates to mitigate this potential

Vulnerability Details:

CVEID: CVE-2020-24491

Description: Debug message containing addresses of memory transactions in some Intel(R) 10th Generation Core Processors supporting SGX may allow a privileged user to potentially enable information disclosure via local access.

Affected Products:

10th Generation Intel® Core™ Processors supporting SGX.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00455.html

STATUS

IN PROGRESS

RESOLUTION

 Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Intel recommends that users of affected Intel® Processors update to the latest firmware version provided by dynabook Inc. that addresses this issue. Please visit and check http://emea.dynabook.com/support/drivers/laptops/ for available packages.



Intel® SGX Platform Advisory

[Intel-SA-00455]

VULNERABILTY SUMMARY

A potential security vulnerability in some Intel® PROSet/Wireless WiFi and Killer™ drivers for Windows 10* may allow information disclosure or denial of service. Intel is releasing software updates to mitigate this potential vulnerability.

Vulnerability Details:

CVEID: CVE-2020-24458

Description: Incomplete cleanup in some Intel(R) PROSet/Wireless WiFi and Killer (TM) drivers before version 22.0 may allow a privileged user to potentially enable information disclosure and denial of service via adjacent access.

Affected Products:

Intel® PROSet/Wireless products: Intel® Wi-Fi 6 AX201 | AX200 | AC 9560 | AC 9462 | AC 9461 Killer™ products: Killer™ Wi-Fi 6 AX1650 | AC 1550

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00448.html

STATUS

RESOLVED

RESOLUTION

• Intel recommends updating the affected Intel® PROSet/Wireless and Killer™ driver (Netwtw10.sys) to version 22.00 or later. Updates for Intel® PROSet/Wireless drivers with Windows 10 are available for download at this location: https://www.intel.com/content/www/us/en/support.html.

Customers can also download the latest available software from the Intel Customer Support site here.



Intel® PROSet/Wireless WiFi and Killer™ Driver Advisory

[Intel-SA-00448]

VULNERABILTY SUMMARY

 Potential security vulnerabilities in some Intel® Graphics Drivers may allow escalation of privilege, denial of service and/or information disclosure. Intel is releasing software updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2020-0544	CVEID: CVE-2020-0521	CVEID: CVE-2020-12362
CVEID: CVE-2020-12361	CVEID: CVE-2020-24450	CVEID: CVE-2020-24462
CVEID: CVE-2020-8678	CVEID: CVE-2020-0518	CVEID: CVE-2020-12367
CVEID: CVE-2020-12368	CVEID: CVE-2020-12369	CVEID: CVE-2020-12385
CVEID: CVE-2020-12365	CVEID: CVE-2020-12366	CVEID: CVE-2020-24448
CVEID: CVE-2020-12386	CVEID: CVE-2020-12384	CVEID: CVE-2020-12363
CVEID: CVE-2020-12364	CVEID: CVE-2020-12370	CVEID: CVE-2020-12371
CVEID: CVE-2020-12372	CVEID: CVE-2020-12373	•

Affected Products:

Intel® Graphics Drivers for 3rd, 4th, 5th, 6th, 7th, 8th, 9th and 10th Generation Intel® Processors for Windows* 7, 8.1 and 10 before versions 15.33.51.5146, 15.36.39.5145, 15.40.46.5144, 15.45.32.5164, 26.20.100.8141, 27.20.100.8587 and Intel® Graphics Drivers for Linux before Linux kernel version 5.5.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00438.html

STATUS

RESOLVED

RESOLUTION

 Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Please visit http://emea.dynabook.com/support/drivers/laptops/ for download the latest Intel® Graphics Driver published by Dynabook Inc or check Microsoft® Windows Update function to obtain available packages.



Intel® Graphics Drivers Advisory

[Intel-SA-00438]

VULNERABILTY SUMMARY

 Potential security vulnerability in Intel® Active Management Technology (AMT), and Intel® Standard Manageability (ISM) may allow escalation of privilege. Intel is releasing firmware updates to mitigate this potential vulnerability.

Vulnerability Details:

CVEID: CVE-2020-8758

Description: Improper buffer restrictions in network subsystem in provisioned Intel(R) AMT and Intel(R) ISM versions before 11.8.79, 11.12.79, 11.22.79, 12.0.68 and 14.0.39 may allow an unauthenticated user to potentially enable escalation of privilege via network access. On unprovisioned systems, an authenticated user may potentially enable escalation of privilege via local access.

Affected Products:

Intel® AMT and Intel® ISM versions before 11.8.79, 11.12.79, 11.22.79, 12.0.68 and 14.0.39.

The following CVE assigned by Intel, corresponds to a CVE disclosed on 12/18/2020 as part of ICSA-20-353-01: Disclosed in INTEL-SA-00404 / Disclosed in ICSA-20-353-01 -CVE-2020-8758 / CVE-2020-25066

Note: Firmware versions of Intel® ME 3.x thru 10.x, Intel® TXE 1.x thru 2.x, and Intel® Server Platform Services 1.x thru 2.X are no longer supported versions. There is no new general release planned for these versions.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00404.html

STATUS

RESOLVED

RESOLUTION

 Intel recommends that users of Intel® AMT and Intel® ISM update to the latest version provided by dynabook Inc. that addresses these issues.

Please visit and check http://emea.dynabook.com/support/drivers/laptops/ for available packages.



Intel® AMT and Intel® ISM Advisory

[Intel-SA-00404]

VULNERABILTY SUMMARY

 Potential security vulnerabilities in the Intel® Running Average Power Limit (RAPL) Interface may allow information disclosure. Intel is releasing microcode and Linux driver updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2020-8694

Description: Insufficient access control in the Linux kernel driver for some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

CVEID: CVE-2020-8695

Description: Observable discrepancy in the RAPL interface for some Intel(R) Processors may allow a privileged user to potentially enable information disclosure via local access.

Affected Products:

For a complete list of affected products, please see below link to Intel® security center advisory.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00389.html

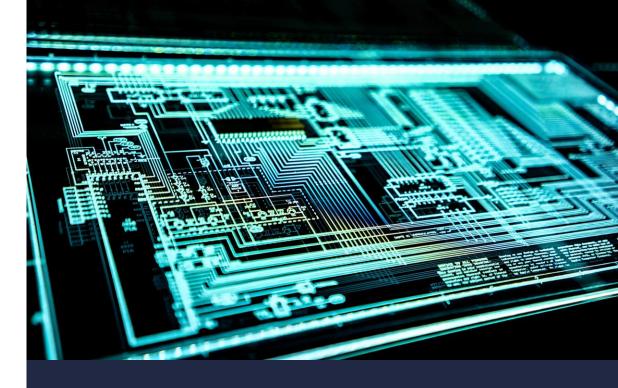
STATUS

IN PROGRESS

RESOLUTION

 Intel recommends that users of affected Intel® Processors update to the latest firmware version provided by dynabook Inc. that addresses this issue. Please visit and check http://emea.dynabook.com/support/drivers/laptops/ for available packages.

Intel recommends that users of affected Intel® Processors install the updates provided by their software vendors. In Linux, for the change to be effective it will require a reboot. If a reboot is not possible, Intel recommends changing the permissions of the affected sysfs attributes so that only privileged users can access them.



2020.2 IPU - Intel® RAPL Interface Advisory

[Intel-SA-00389]

VULNERABILTY SUMMARY

Potential security vulnerabilities in some Intel® Processors may allow information disclosure.
 Intel is releasing firmware updates to mitigate these potential vulnerabilities.

Vulnerability Details:

CVEID: CVE-2020-8698

Description: Improper isolation of shared resources in some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

CVEID: CVE-2020-8696

Description: Improper removal of sensitive information before storage or transfer in some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

Affected Products:

A list of impacted products can be found here.

Intel® security center advisory:

https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00381.html

STATUS

RESOLVED

RESOLUTION

 Intel recommends that users of affected Intel® Processors update to the latest version firmware provided by the dynabook Inc. that addresses these issues. Please visit and check http://emea.dynabook.com/support/drivers/laptops/ for available BIOS updates.

Intel has released microcode updates for the affected Intel® Processors that are currently supported on the public github repository. Please see details below on access to the microcode: GitHub*: Public Github: https://github.com/intel/Intel-Linux-Processor-Microcode-Data-Files

To address this issue, an SGX TCB recovery will be required in Q4 2020. Refer to Intel® SGX Attestation Technical Details for more information on the SGX TCB recovery process.



2020.2 IPU - Intel® Processor Advisory

[Intel-SA-00381]



2020

DYNABOOK SECURITY VULNERABILITY INFORMATION RELEASES WITHIN 2020*



INTRODUCTION

Intel® Thunderbolt™ DCH Drivers for Windows Advisory

VULNERABILTY SUMMARY

INTEL-SA-00422

- Potential security vulnerabilities in some Intel® Thunderbolt™ DCH drivers for Windows* may allow escalation of privilege or information disclosure. Intel is releasing updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-12325 / CVEID: CVE-2020-12324 / CVEID: CVE-2020-12328 / CVEID: CVE-2020-12327 / CVEID: CVE-2020-12326

• Affected Products:

Intel® Thunderbolt™ 3 and 4 DCH drivers for Windows* before version 72.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00422.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update. Intel recommends that users of Intel® Thunderbolt™ 3 and 4 DCH drivers for Windows* update to the latest version provided by dynabook that addresses these issues.

To download the latest Intel® Thunderbolt Software, which include the Intel® Thunderbolt ™ driver published by dynabook, please visit http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel® HID Event Filter Advisory

VULNERABILTY SUMMARY

INTEL-SA-00421

- A potential security vulnerability in the Intel® Human Interface Device (HID) Event Filter Driver may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

Improper permissions in the installer for the Intel(R) HID Event Filter Driver before version, all versions, may allow an authenticated user to potentially enable escalation of privilege via local access.

CVEID: **CVE-2020-12332**

Affected Products:

Intel® HID Event Filter Driver before version 2.2.1.372.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00421.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update.

To download the latest Intel® HID Event Filter driver published by Dynabook Inc., please visit http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel Unite® Cloud Service Client Advisory

VULNERABILTY SUMMARY

INTEL-SA-00418

- Improper access controls in Intel Unite(R) Cloud Service client before version 4.2.12212 may allow an authenticated user to potentially enable escalation of privilege via local access.
- Vulnerability Details:

CVEID: CVE-2020-12331

Affected Products:

Intel Unite® Cloud Service client before version 4.2.12212.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00418.html

STATUS

RESOLVED

RESOLUTION

Intel recommends updating the Intel Unite® App to version 4.2.12212 or later.

Updates are available for download at this location: https://downloadcenter.intel.com/product/89294/Intel-Unite-app

INTRODUCTION

Intel® High Definition Audio Advisory

VULNERABILTY SUMMARY

INTEL-SA-00409

- A potential security vulnerability in some Intel® High Definition Audio drivers may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

Improper permissions in some Intel(R) High Definition Audio drivers before version 9.21.00.4561 may allow an authenticated user to potentially enable escalation of privilege via local access.

CVEID: CVE-2020-12307

Affected Products:

Intel® High Definition Audio drivers before version 9.21.00.4561.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00409.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update. Intel® commends that users of Intel® Thunderbolt $^{\text{TM}}$ 3 and 4 DCH drivers for Windows* update to the latest version provided by dynabook that addresses these issues.

To download the latest Intel® Thunderbolt Software, which include the Intel® Thunderbolt ™ driver published by dynabook, please visit http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel® Wireless Bluetooth® Advisory

VULNERABILTY SUMMARY

INTEL-SA-00403

- Potential security vulnerabilities in some Intel® Wireless Bluetooth® products may allow escalation of privilege or denial of service. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-12321

<u>Description</u>: Improper buffer restriction in some Intel(R) Wireless Bluetooth(R) products before version 21.110 may allow an unauthenticated user to potentially enable escalation of privilege via adjacent access.

CVEID: **CVE-2020-12322**

<u>Description</u>: Improper input validation in some Intel(R) Wireless Bluetooth(R) products before version 21.110 may allow an unauthenticated user to potentially enable denial of service via adjacent access.

Affected Products:

Intel® Wireless Bluetooth® products: Intel® Wi-Fi 6 AX201, AX200 / AC 9560, AC 9462, AC 9461, AC 9260, AC 8265, AC 8260, AC 3168, 7265 (Rev D) Family, AC 3165

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00403.html

STATUS

RESOLVED

RESOLUTION

Intel recommends updating affected Intel® Wireless Bluetooth® products to version 21.110 or later. For Windows* 10, updates are available for download at this location: https://www.intel.com/content/www/us/en/support.html

Customers can also download the latest available firmware from the Intel Customer Support site here.

INTRODUCTION

Intel® PROSet/Wireless WiFi Software Advisory

VULNERABILTY SUMMARY

INTEL-SA-00402

- Potential security vulnerabilities in some Intel® PROSet/Wireless WiFi products may allow escalation of privilege or denial of service. Intel is releasing software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-12313 / CVEID: CVE-2020-12314 / CVEID: CVE-2020-12318 / CVEID: CVE-2020-12317 / CVEID: CVE-2020-12319 / CVEID: CVE-2017-13080

Affected Products:

Intel® Wireless Bluetooth® products:
Intel® Wi-Fi 6 AX201, AX200 / AC 9560, AC 9462, AC 9461, AC 9260, AC 8265, AC 8260, AC 3168, 7265 (Rev D) Family, AC 3165

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00402.html

STATUS

RESOLVED

RESOLUTION

Intel recommends updating affected Intel® Wireless Bluetooth® products to version 21.110 or later. For Windows* 10, updates are available for download at this location: https://www.intel.com/content/www/us/en/support.html

Customers can also download the latest available firmware from the Intel Customer Support site here.

INTRODUCTION

2020.2 IPU - Intel® CSME, SPS, TXE and AMT Advisory

VULNERABILTY SUMMARY

INTEL-SA-00391

- Potential security vulnerabilities in Intel® Converged Security and Manageability Engine (CSME), Server Platform Services (SPS), Intel® Trusted Execution Engine (TXE), Intel® Dynamic Application Loader (DAL), Intel® Active Management Technology (AMT), Intel® Standard Manageability (ISM) and Intel® Dynamic Application Loader (Intel® DAL) may allow escalation of privilege, denial of service or information disclosure. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-8752 / CVE-2020-8753 / CVE-2020-12297 / CVE-2020-12304 / CVE-2020-8745 / CVE-2020-8744 / CVE-2020-8705 / CVE-2020-8750 / CVE-2020-12303 / CVE-2020-12354 / CVE-2020-8757 / CVE-2020-8756 / CVE-2020-8760 / CVE-2020-12355 / CVE-2020-8751 / CVE-2020-8754 / CVE-2020-8761 / CVE-2020-8747 / CVE-2020-8755 / CVE-2020-12356 / CVE-2020-8746 / CVE-2020-8749

Affected Products:

Intel® CSME and Intel® AMT versions before 11.8.80, 11.12.80, 11.22.80, 12.0.70, 13.0.40, 13.30.10, 14.0.45 and 14.5.25. Intel® TXE versions before 3.1.80 and 4.0.30.

Note: Firmware versions of Intel® ME 3.x thru 10.x, Intel® TXE 1.x thru 2.x are no longer supported versions. There is no new general release planned for these versions.

Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00391.html

STATUS

IN PROGRESS

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update.

Intel recommends that users of Intel® CSME, Intel® TXE and Intel® AMT update to the latest version provided by dynabook Inc. that addresses these issues. Please visit and check http://emea.dynabook.com/support/drivers/laptops/ for available packages.

INTRODUCTION

Intel Unite® Client Advisory

VULNERABILTY SUMMARY

INTEL-SA-00350

- A potential security vulnerability in the Intel® Unite Client for Windows* may allow information disclosure. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

CVEID: CVE-2020-0575

<u>Description:</u> Improper buffer restrictions in the Intel(R) Unite Client for Windows* before version 4.2.13064 may allow an authenticated user to potentially enable information disclosure via local access.

Affected Products:

Intel® Unite Client for Windows* before version 4.2.13064.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00350.html

STATUS

RESOLVED

RESOLUTION

Intel recommends updating Intel® Unite Client for Windows* to version 4.2.13064 or later.

Updates are available for download at this location:

https://downloadcenter.intel.com/product/89294/Intel-Unite-app

INTRODUCTION

Intel® Wireless Bluetooth® Advisory

VULNERABILTY SUMMARY

INTEL-SA-00337

- Potential security vulnerabilities in some Intel® Wireless Bluetooth® products may allow denial of service, information disclosure or escalation of privilege. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-0554 / CVEID: CVE-2020-0555 / CVEID: CVE-2020-0553 / CVEID: CVE-2019-14620

Affected Products:

Intel® Wireless Bluetooth® products:

Intel® Wi-Fi 6 AX201, Intel® Wi-Fi 6 AX200, Intel® Wireless-AC 9560, Intel® Wireless-AC 9462, Intel® Wireless-AC 9461, Intel® Wireless-AC 9260, Intel® Dual Band Wireless-AC 9265, Intel® Dual Band Wireless-AC 3168, Intel® Wireless 7265 (Rev D) Family, Intel® Dual Band Wireless-AC 3165

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00337.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update. To download the latest Intel® Wireless Bluetooth® driver (Version 21.90.0.4 / TCH0765100A) published by Dynabook Inc., please visit http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel® PROSet/Wireless WiFi Software Advisory

VULNERABILTY SUMMARY

INTEL-SA-00355

- A potential security vulnerability in some Intel® PROSet/Wireless WiFi products may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

CVEID: CVE-2020-0559

• Affected Products:

Intel® Wireless Bluetooth® products:

Intel® Wi-Fi 6 AX201, Intel® Wi-Fi 6 AX200, Intel® Wireless-AC 9560, Intel® Wireless-AC 9462, Intel® Wireless-AC 9461, Intel® Wireless-AC 9260, Intel® Dual Band Wireless-AC 8265, Intel® Dual Band Wireless-AC 3168, Intel® Wireless 7265 (Rev D) Family, Intel® Dual Band Wireless-AC 3165

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00355.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update. To download the latest Intel® Wireless LAN driver (Version 21.90.3.2 / TCH0771800A) published by Dynabook Inc., please visit http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel® Innovation Engine Advisory

VULNERABILTY SUMMARY

INTEL-SA-00366

- A potential security vulnerability in the Intel® Innovation Engine Build and Signing Tool may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

CVEID: CVE-2020-8675

Description: Insufficient control flow management in firmware build and signing tool for Intel® Innovation Engine before version 1.0.859 may allow an unauthenticated user to potentially enable escalation of privilege via physical access.

Affected Products:

Intel® Innovation Engine Build and Signing Tool before version 1.0.859.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00366.html

STATUS

UNDER REVIEW

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update.

As soon as Dynabook Inc. finalized examination of this vulnerability, we will share more information.

INTRODUCTION

2020.1 IPU - BIOS Advisory2020.1 IPU - BIOS Advisory

VULNERABILTY SUMMARY

INTEL-SA-00322

- Potential security vulnerabilities in BIOS firmware for some Intel® Processors may allow escalation of privilege and/or denial of service. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-0528

Improper buffer restrictions in BIOS firmware for 7th, 8th, 9th and 10th Generation Intel(R) Core(TM) Processor families may allow an authenticated user to potentially enable escalation of privilege and/or denial of service via local access.

CVEID: CVE-2020-0529

Description: Improper initialization in BIOS firmware for 8th, 9th and 10th Generation Intel(R) Core(TM) Processor families may allow an unauthenticated user to potentially enable escalation of privilege via local access.

- Affected Products:
 - ·7th / 8th / 9th / 10th Generation Intel® Core™ processors
- Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00322.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update.

As soon as the related **BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability is available, visit http://emea.dynabook.com/support/drivers/laptops/ for download.

INTRODUCTION

Special Register Buffer Data Sampling Advisory

VULNERABILTY SUMMARY

INTEL-SA-00320

- A potential security vulnerability in some Intel® Processors may allow information disclosure. Intel® is releasing firmware updates to mitigate this potential vulnerability.
- Vulnerability Details:

CVEID: CVE-2020-0543

Description: Incomplete cleanup from specific special register read operations in some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

■ Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00320.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel® on updates with new versions available per guidance from Intel's Security Issue Update.

Related **BIOS packages** published by Dynabook Inc. containing updated Intel® Firmware (Microcode update) to mitigate this potential vulnerability are partially available. To download and install the package visit http://emea.dynabook.com/support/drivers/laptops/ for download.

INTRODUCTION

2020.1 IPU - Intel® CSME, SPS, TXE, AMT, ISM and DAL Advisory

VULNERABILTY SUMMARY

INTEL-SA-00295

- Potential security vulnerabilities in Intel® Converged Security and Manageability Engine (CSME), Intel® Server Platform Services (SPS), Intel® Trusted Execution Engine (TXE), Intel® Active Management Technology (AMT), Intel® Standard Manageability (ISM) and Intel® Dynamic Application Loader (DAL) may allow escalation of privilege, denial of service or information disclosure. Intel® is releasing firmware and software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: For a complete list of CVE ID's and related descriptions, please refer to https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00295.html

Affected Products:

Intel® CSME Versions 11.0 through 11.8.76, 11.10 through 11.12.76, 11.20 through 11.22.76, 12.0 through 12.0.63, 13.0 through 13.0.31, 14.0 through 14.0.32, 14.5.11. Intel® CSME and Intel® AMT before versions 11.8.77, 11.12.77, 11.22.77, 12.0.64, 13.0.32, 14.0.33, 14.5.12.

• Intel® security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00295.html

STATUS

RESOLVED

RESOLUTION

Intel® Skylake, Kabylake, Kabylake-R platforms — Intel® ME FW package available (link to our download page below)

Intel® Comet Lake platforms — Intel® ME FW package available (distribution through Microsoft Windows Update)

Intel® Whiskey Lake platforms — Intel® ME FW package available (distribution through Microsoft Windows Update)

Please visit http://emea.dynabook.com/support/drivers/laptops/ to download the related package published by Dynabook Inc. After downloading the package, click execute and follow instructions on screen.

INTRODUCTION

Intel® PROSet/Wireless WiFi Software Advisory

VULNERABILTY SUMMARY

INTEL-SA-00338

- Potential security vulnerabilities in some Intel® PROSet/Wireless WiFi products may allow escalation of privilege or denial of service. Intel is releasing software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-0557

Insecure inherited permissions in Intel(R) PROSet/Wireless WiFi products on Windows 10 may allow an authenticated user to potentially enable escalation of privilege via local access.

CVEID: CVE-2020-0558

Improper buffer restrictions in kernel mode driver for Intel(R) PROSet/Wireless WiFi products on Windows 10 may allow an unprivileged user to potentially enable denial of service via adjacent access.

• Affected Products:

Intel® PROSet/Wireless WiFi software for the following products before version 21.70 Intel® Wi-Fi AX201 / AX200 / AC 9560 / AC 9462 / AC 9461 / AC 9260 / AC 8265 / AC 8260 / AC 3168 / 7265 (Rev D) Family / AC 3165

• Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00338.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Latest available software can be obtained from Intel (https://www.intel.com/content/www/us/en/support/articles/000005634/network-and-i-o/wireless-networking.html).

To download the latest software published by Dynabook Inc., please visit http://emea.dynabook.com/support/drivers/laptops/ for download or check Microsoft® Windows Update function to obtain related packages.

INTRODUCTION

Intel® Snoop Assisted L1D Sampling Advisory

VULNERABILTY SUMMARY

INTEL-SA-00330

- A potential security vulnerability in some Intel® Processors may allow information disclosure.
- Vulnerability Details:

CVEID: **CVE-2020-0550**

Improper data forwarding in some data cache for some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

• Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00330.html

STATUS

PLEASE CHECK INFORMATION IN RESOLUTION SECTION

RESOLUTION

This potential vulnerability is mitigated by using Virtual Machine Manager with the L1TF mitigations applied. For more information see L1TF. Intel is not recommending any new or additional mitigations for Operating Systems.

Additional technical details about this vulnerability can be found at:

https://software.intel.com/security-software-guidance/insights/deep-dive-snoop-assisted-l1-data-sampling

INTRODUCTION

Intel® Processor Graphics Advisory

VULNERABILTY SUMMARY

INTEL-SA-00315

- Potential security vulnerabilities in Intel® Graphics Drivers may allow escalation of privilege, denial of service and/or information disclosure. Intel is releasing software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:
 - CVEID: CVE-2020-0504
 - CVEID: CVE-2020-0516
 - CVEID: CVE-2020-0519
 - CVEID: CVE-2020-0520
 - CVEID: CVE-2020-0505
 - CVEID: CVE-2020-0501

- CVEID: CVE-2020-0565
- CVEID: CVE-2020-0514
- CVEID: CVE-2020-0515
- CVEID: CVE-2020-0508
- CVEID: CVE-2020-0511
- CVEID: CVE-2020-0503

- CVEID: CVE-2020-0567
- CVEID: CVE-2020-0502
- CVEID: CVE-2020-0507
- CVEID: CVE-2020-0517
- CVEID: CVE-2020-0506

Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00315.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

As soon as the related Intel® Processor Graphics Driver published by Dynabook Inc. is available, please visit http://emea.dynabook.com/support/drivers/laptops/ for download or check Microsoft® Windows Update function to obtain related packages.

INTRODUCTION

Intel® Optane™ DC Persistent Memory Module Management Software Advisory

VULNERABILTY SUMMARY

INTEL-SA-00326

- A potential security vulnerability in Intel® Optane™ DC Persistent Memory Module Management Software may allow escalation of privilege and denial of service. Intel is releasing software updates to mitigate this potential vulnerability.
- Vulnerability Details:

CVEID: **CVE-2020-0546**

Description: Unquoted service path in Intel(R) Optane(TM) DC Persistent Memory Module Management Software before version 1.0.0.3461 may allow an authenticated user to potentially enable escalation of privilege and denial of service via local access.

Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00326.html

STATUS

RESOLVED

RESOLUTION

Intel recommends updating Intel® Optane™ DC Persistent Memory Module Management Software to 1.0.0.3461 or later.

Updates are available for download at this location: https://downloadcenter.intel.com/download/29380/DCPM-Software-for-Intel-Optane-DC-Persistent-Memory-for-Windows-Server-2019

INTRODUCTION

Intel® Processors Load Value Injection Advisory

VULNERABILTY SUMMARY

INTEL-SA-00334

- Potential security vulnerabilities in some Intel® Processors may allow information disclosure. Intel and others are releasing software updates to mitigate these potential vulnerabilities.
- Vulnerability Details:

CVEID: CVE-2020-0551

Description: Load value injection in some Intel(R) Processors utilizing speculative execution may allow an authenticated user to potentially enable information disclosure via a side channel with local access.

■ Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00334.html

STATUS

PLEASE CHECK INFORMATION IN RESOLUTION SECTION

RESOLUTION

Intel is not currently aware of any load value injection-specific universal or non universal gadget for Operating System from Application, VMM from VM, between guests in Virtualized environments, between different application and inside an application and is not releasing additional mitigations for these environments. As a best practice, Intel recommends that users update to the latest Operating System and VMM provided by your system vendors. For application developers or system administrators that wish to consider additional mitigations tailored to their specific threat models, additional information is available here, which contains additional technical details about this issue and mitigations.

For further details, please check above Intel security advisory note.

INTRODUCTION

Intel® Processor Data Leakage Advisory

VULNERABILTY SUMMARY

INTEL-SA-00329

- Potential security vulnerabilities in some Intel® Processors may allow information disclosure. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- CVE-2020-0548
 - <u>Description:</u> Cleanup errors in some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.
- CVE-2020-0549
 - <u>Description:</u> Cleanup errors in some data cache evictions for some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00329.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Related **BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability, are available for download via http://emea.dynabook.com/support/drivers/laptops/.

INTRODUCTION

Intel® Processor Graphics Advisory

VULNERABILITY SUMMARY

INTEL-SA-00314

- A potential security vulnerability in Intel® Processor Graphics may allow information disclosure. Insufficient control flow in certain data structures for some Intel(R) Processors with Intel(R) Processor Graphics may allow an unauthenticated user to potentially enable information disclosure via local access. Intel recommends updating Intel® Processor Graphics Driver for Windows* (Windows OS Driver version):
 - Version: 26.20.100.7209 or higher / 15.45.x.5077 or higher / 15.40.x.5107 or higher / 15.36.x.5117 or higher / 15.33.x.5100 or higher
 - Platforms based on Ivy Bridge, Bay Trail and Haswell do not have full mitigations at this time for the Windows OS. Updating the drivers for these platforms per recommendation on Intel security center advisory will substantively reduce the potential attack surface. Intel is working on full mitigations for these platforms and dynabook will make them available once they are validated.
- CVE-2019-14615
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00314.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To download and install the related **Intel® Processor Graphics Driver** published by Dynabook Inc., please visit http://emea.dynabook.com/support/drivers/laptops/ for download.



2019

DYNABOOK SECURITY VULNERABILITY INFORMATION RELEASES WITHIN 2019*



INTRODUCTION

Intel® RST Advisory

VULNERABILITY SUMMARY

INTEL-SA-00324

- A potential security vulnerability in the Intel® Rapid Storage Technology (RST) may allow escalation of privilege. Improper permissions in the executable for Intel(R) RST before version 17.7.0.1006 may allow an authenticated user to potentially enable escalation of privilege via local access.
- CVE-2019-14568
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00324.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To download the Intel RST driver v17.7.0.1006 or later published by Dynabook Inc., visit http://emea.dynabook.com/support/drivers/laptops/

OVERVIEW BIOS RELEASE SCHEDULE		LEASE SCHEDULE	Intel-SA-00220		Intel-SA-00260		Intel-SA-00270		Intel-SA-00317	
Comet Lake	Portégé Tecra	A30-G A40-G X30L-G	Target Date BIOS Version	FCS*	Target Date BIOS Version	FCS* -	Target Date BIOS Version	FCS* -	Target Date BIOS Version	Available v2.00
Whiskey Lake	Portégé Tecra	X30-F X40-F X50-F	Target Date BIOS Version	Available v2.40	Target Date BIOS Version	FCS*	Target Date BIOS Version	Available v2.40	Target Date BIOS Version	Available v2.70
Kabylake-R	Portégé	X30T-E WT30-E	Target Date BIOS Version	Available v2.40	Target Date BIOS Version	Available v2.40	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Available v2.50
	Satellite Pro Tecra	A50-E R50-E Z50-E	Target Date BIOS Version	Available v2.60	Target Date BIOS Version	Available v2.60	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Available v2.60
	Satellite Pro Tecra	A50-EC R50-EC	Target Date BIOS Version	Available v2.10	Target Date BIOS Version	Available v2.10	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Availabl v2.10
	Portégé Tecra	Х30-Е Х40-Е	Target Date BIOS Version	Available v2.30	Target Date BIOS Version	Available v2.30	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Availabl v2.30
	Portégé	Z30-E	Target Date BIOS Version	Available v1.80	Target Date BIOS Version	Available v1.80	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Availab v1.80
	Portégé Tecra	R30-E A40-E	Target Date BIOS Version	2020/2/E v1.40	Target Date BIOS Version	2020/2/E v1.40	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	2020/2, v1.40
	Portégé	X20W-E	Target Date BIOS Version	Available v2.20	Target Date BIOS Version	Available v2.20	Target Date BIOS Version	N/A N/A	Target Date BIOS Version	Availab
Kabylake	Portégé	X20W-D	Target Date	Available	Target Date	Available	Target Date	N/A	Target Date	Availab
	Portégé Tecra	X30-D X40-D	BIOS Version Target Date	v3.60 2020/2/E	BIOS Version Target Date	v3.60 2020/2/E	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	2020/2
	Satellite Pro Portégé Tecra	A30-D A40-D A50-D R50-D Z50-D	BIOS Version Target Date	v3.80 Available	BIOS Version Target Date	v3.80 Available	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	v3.80 Availab
Skylake	Portégé Tecra	Z30-C Z40-C	BIOS Version Target Date	v5.20 2020/2/E	BIOS Version Target Date	v5.20 2020/2/E	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	v5.20 2020/2,
	Portégé	Z20T-C	BIOS Version Target Date	v7.00 2020/2/E	BIOS Version Target Date	v7.00 2020/2/E	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	v7.00 2020/2
	Satellite Pro Portégé Tecra	A30-C A40-C A50-C R50-C Z50-C	BIOS Version Target Date	v6.40 2020/2/E	BIOS Version Target Date	v6.40 2020/2/E	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	v6.40 2020/2,
			BIOS Version Target Date	v8.50 2020/2/E	BIOS Version Target Date	v8.50 2020/2/E	BIOS Version Target Date	N/A N/A	BIOS Version Target Date	v8.50 2020/2
	dynaEdge	DE-100	BIOS Version	v3.10	BIOS Version	v3.10	BIOS Version	N/A	BIOS Version	v3.10

INTRODUCTION

Unexpected Page Fault in Virtualized Environment Advisory

VULNERABILITY SUMMARY

INTEL-SA-00317

- A potential security vulnerability in multiple Intel® processors may allow escalation of privilege, denial of service, and/or information disclosure. Intel is releasing firmware updates to mitigate this potential vulnerability.
- CVE-2019-14607
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00317.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Please check overview page for BIOS release information and schedule

To **download BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability, visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

Intel® CSME Advisory

VULNERABILITY SUMMARY

INTEL-SA-00307

- A potential security vulnerability in CSME subsystem may allow escalation of privilege, denial of service, and information disclosure. Intel is releasing firmware updates to mitigate this potential vulnerability. Intel recommends updating to Intel® CSME versions 12.0.49, 13.0.21, and 14.0.11 or later.
- CVE-2019-14598
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00307.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

As soon as the related **Intel CSME FW package** published by Dynabook Inc. is available, please visit http://emea.dynabook.com/support/drivers/laptops/ to download the related package. After downloading the package, click execute and follow instructions on screen.

Intel® Processors Voltage Settings Modification Advisory

VULNERABILITY SUMMARY

INTEL-SA-00289

- A potential security vulnerability in some Intel® Processors may allow escalation of privilege and/or information disclosure. Intel has released firmware updates to system manufacturers to mitigate this potential vulnerability. Description: Improper conditions check in voltage settings for some Intel(R) Processors may allow an authenticated user to potentially enable escalation of privilege and/or information disclosure via local access.
- CVE-2019-11157
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00289.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To **download the BIOS versions** published by Dynabook Inc. containing the related Intel Firmware (Microcode update), visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

2019.2 IPU – TSX Asynchronous Abort Advisory

VULNERABILITY SUMMARY

INTEL-SA-00270

- A potential security vulnerability in TSX Asynchronous Abort (TAA) for some Intel® Processors may allow information disclosure. TSX Asynchronous
 Abort condition on some CPUs utilizing speculative execution may allow an authenticated user to potentially enable information disclosure via a side
 channel with local access.
- CVE-2019-11135
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00270.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Please check overview page for BIOS release information and schedule

To **download BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability, visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

2019.2 IPU - Intel® Processor Graphics Update Advisory

VULNERABILITY SUMMARY

INTEL-SA-00260

- A potential security vulnerability in Intel® Processor Graphics may allow denial of service. Intel is releasing software and firmware updates to mitigate this potential vulnerability.
- CVE-2019-0154
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00260.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Please check overview page for BIOS release information and schedule

To **download BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability, visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

Intel® Ethernet I218 Adapter Driver for Windows

VULNERABILITY SUMMARY

INTEL-SA-00253

- A potential security vulnerability in Intel® Ethernet I218 Adapter driver for Windows* 10 may allow information disclosure. Insufficient memory protection for Intel(R) Ethernet I218 Adapter driver for Windows* 10 before version 24.1 may allow an authenticated user to potentially enable information disclosure via local access.
- CVE-2019-11096
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00253.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To download the Intel LAN driver package published by Dynabook Inc., visit http://emea.dynabook.com/support/drivers/laptops/

Intel® CSME, Intel® SPS, Intel® TXE, Intel® AMT, Intel® PTT and Intel® DAL Advisory

VULNERABILITY SUMMARY

INTEL-SA-00241

- Potential security vulnerabilities in Intel® Converged Security and Manageability Engine (CSME), Intel® Server Platform Services (SPS), Intel® Trusted Execution Engine (TXE), Intel® Active Management Technology (AMT), Intel® Platform Trust Technology (PTT) and Intel® Dynamic Application Loader (DAL) may allow escalation of privilege, denial of service or information disclosure. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.
- For overview of CVE's, please check below Intel advisory web page
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00241.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To download the firmware package TCH0670700B (supporting Skylake / Kabylake / Kabylake-R platforms) published by Dynabook Inc. containing the related Intel Firmware (Microcode update), visit http://emea.dynabook.com/support/drivers/laptops/
* Whiskey Lake based platform package available soon

INTRODUCTION

Intel Firmware 2018.4 QSR Advisory

VULNERABILITY SUMMARY

INTEL-SA-00233

- A potential security vulnerability in CPUs may allow information disclosure. Intel is releasing Microcode Updates (MCU) updates to mitigate this
 potential vulnerability.
- CVE-2018-12126 | CVE-2018-12127 | CVE-2018-12130 | CVE-2019-11091
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00233.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To **download the BIOS versions** published by Dynabook Inc. containing the related Intel Firmware (Microcode update), visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

Intel® SGX and Intel® TXT Advisory

VULNERABILITY SUMMARY

INTEL-SA-00220

- Potential security vulnerabilities in Intel® Software Guard Extensions (SGX) and Intel® Trusted Execution Technology (TXT) may allow escalation of privilege. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- CVE-2019-0123 | CVE-2019-0124
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00220.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

Please check overview page for BIOS release information and schedule

To **download BIOS packages** published by Dynabook Inc. containing updated Intel Firmware (Microcode update) to mitigate this potential vulnerability, visit http://emea.dynabook.com/support/drivers/laptops/

Intel® CSME, Intel® SPS, Intel® TXE, Intel® DAL, and Intel® AMT 2019.1 QSR Advisory

VULNERABILITY SUMMARY

INTEL-SA-00213

- Multiple potential security vulnerabilities in Intel® Converged Security & Management Engine (Intel® CSME), Intel® Server Platform Services (Intel® SPS), Intel® Trusted Execution Engine Interface (Intel® TXE), Intel® Dynamic Application Loader (Intel® DAL), and Intel® Active Management Technology (Intel® AMT) may allow escalation of privilege, information disclosure, and/or denial of service. Intel is releasing Intel® CSME, Intel® SPS, Intel® TXE, and Intel® AMT updates to mitigate these potential vulnerabilities.
- CVE-2019-0089 | CVE-2019-0090 | CVE-2019-0086 | CVE-2019-0091 | CVE-2019-0092 | CVE-2019-0093 | CVE-2019-0094 | CVE-2019-0096 | CVE-2019-0097 | CVE-2019-0098 | CVE-2019-0099 | CVE-2019-0153 | CVE-2019-0170
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00213.html

STATUS

RESOLVED

RESOLUTION

Intel recommends users to update firmware for Intel® CSME before versions 11.8.65 (Skylake, Kabylake, Kabylake-R) and 12.0.35 (Whiskey Lake). Please download the latest mitigated firmware packages via http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version.

INTRODUCTION

Intel Firmware 2018.4 QSR Advisory

VULNERABILITY SUMMARY

INTEL-SA-00191

- Multiple potential security vulnerabilities in Intel firmware may allow for escalation of privilege, information disclosure or denial of service. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- CVE-2018-12201 | CVE-2018-12202 | CVE-2018-12203 | CVE-2018-12204 | CVE-2018-12205
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00191.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update.

To **download the BIOS versions** published by Dynabook Inc. containing the related Intel Firmware (Microcode update), visit http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

Intel® Graphics Driver for Windows* 2018.4 QSR Advisory

VULNERABILITY SUMMARY

INTEL-SA-00189

- Multiple potential security vulnerabilities in Intel® Graphics Driver for Windows* may allow escalation of privileges, denial of service or information disclosure. Intel is releasing Intel® Graphics Driver for Windows* updates to mitigate these potential vulnerabilities.
- CVE-2018-12209 | CVE-2018-12210 | CVE-2018-12211 | CVE-2018-12212 | CVE-2018-12213 | CVE-2018-12214
 CVE-2018-12215 | CVE-2018-12216 | CVE-2018-12217 | CVE-2018-12218 | CVE-2018-12219 | CVE-2018-12220
 CVE-2018-12221 | CVE-2018-12222 | CVE-2018-12223 | CVE-2018-12224 | CVE-2018-18089 | CVE-2018-18090
 CVE-2018-18091
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00189.html

STATUS

RESOLVED

RESOLUTION

Intel recommends to update Intel® Graphics Driver for Windows.

Dynabook Inc. released a platform based driver list. Please see **next slide** for details.

DYNABOOK INC. RELEASE SCHEDULE

Dynabook Inc. release information for Intel® Graphics Driver release for Windows* 2018.4 QSR Advisory (INTEL-SA-00189)

PLATFORM *	WINDOWS VERSION	DRIVER VERSION FOR SECURITY UPDATE	RELEASE STATUS	T-PACKAGE	VERSION NOTE
 Kaby Lake / Kaby Lake-R 	> Win10 RS4, RS5	> 24.20.100.6346	⇒ Released	TCH0533300A	> 24.20.100.6346(100.6346)
(Net New / DCH - UWP)	> Win10 RS3	> 24.20.100.6287	→ Released	TCH0546900A	> 24.20.100.6287(100.6287)
 Kaby Lake / Kaby Lake-R 	> Win10 RS2, RS3, RS4	> 24.20.100.6286	→ Released	TCH0525800A	> 24.20.100.6286(100.6286)
(Legacy)	> Win10 RS1	> 23.20.16.4849	→ Released	TCH0431900A	> 23.20.16.4849(15.60.1.4849)
	> Win10 RS2, RS3, RS4, RS5	> 24.20.100.6286	⊃ Released	TCH0525800A	> 24.20.100.6286(100.6286)
 Skylake 	> Win10 RS1	> 23.20.16.4849	⊃ Released	TCH0431900A	> 23.20.16.4849(15.60.1.4849)
	> Win7, 8.1	> 21.20.16.5068	≈ 2019 / TBD		
	> Win10	> 20.19.15.5070	→ Released	TCH0612200A	> 20.19.15.5070(v15.40.43.64.5070)
 Broadwell 	> Win7, 8.1 64bit	> 20.19.15.5063	→ Released	TCH0549800A	> 20.19.15.5063(15.40.42.64.5063)
	> Win7 32bit	> 20.19.15.5063	⊃ Released	TCH0549900A	> 20.19.15.5063(15.40.42.5063)
 Braswell 	> Win10	> 20.19.15.5070	≈ 2019 / TBD		
 Haswell 	> Win10	> 20.19.15.5070	○ Released	TCH0612200A	> 20.19.15.5070(v15.40.43.64.5070)
- Haswell	> Win7, 8.1	> 10.18.14.5067	≈ 2019 / TBD		
- Chaum Tuail	> Win10	> 20.19.15.5070	≈ 2019/TBD		
Cherry Trail	> Win8.1	> 20.19.15.5063	⇒ Released	TCH0468600B	> 20.19.15.5063(15.40.42.64.5063)
Bay Trail	> Win7, 8.1, 10	> 10.18.10.5069	≈ 2019 / TBD		
Skylake (DTPC)	> Win7, 8.1, 10	> 21.20.16.5068	≈ 2019 / TBD		
- Hagwell (DTDC)	> Win10	> 20.19.15.5070	≈ 2019 / TBD		
 Haswell (DTPC) 	> Win7, 8.1	> 10.18.14.5067	≈ 2019 / TBD		

^{*} How to Find the Code Name for Intel® Processors

DOWNLOAD DRIVERS

Visit http://emea.dynabook.com/support/drivers/laptops/ to view and download latest drivers for your system.

Intel® CSME, Server Platform Services, Trusted Execution Engine and Intel® Active Management Technology 2018.4 QSR Advisory

VULNERABILITY SUMMARY

INTEL-SA-00185

- Multiple potential security vulnerabilities in Intel® CSME, Server Platform Services, Trusted Execution Engine and Intel® Active Management Technology may allow users to potentially escalate privileges, disclose information or cause a denial of service. Intel is releasing Intel® CSME, Server Platform Services, Trusted Execution Engine and Intel® Active Management Technology updates to mitigate these potential vulnerabilities.
- CVE-2018-12188 | CVE-2018-12189 | CVE-2018-12190 | CVE-2018-12191 | CVE-2018-12192 | CVE-2018-12199 | CVE-2018-12198 | CVE-2018-12208 | CVE-2018-12200 | CVE-2018-12187 | CVE-2018-12196 | CVE-2018-12185
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00185.html

STATUS

RESOLVED

RESOLUTION

Intel recommends users to install updated firmware which mitigates this issue. Please download the latest mitigated firmware packages via http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version:

- 1. Intel ME FW Update Tool Version: V1.1.6.2 (TCH0577600C)
- 2. Intel AMT Software: TCH0549100A / TCH0548500A / TCH0519800D

INTRODUCTION

A potential security vulnerability in Intel® PROSet/Wireless WiFi Software may allow escalation of privilege. Intel is releasing software updates to mitigate this potential vulnerability.

VULNERABILITY SUMMARY

INTEL-SA-00182

- Improper directory permissions in the ZeroConfig service in Intel(R) PROSet/Wireless WiFi Software before version 20.90.0.7 may allow an authorized user to potentially enable escalation of privilege via local access.
- CVE-2018-12177
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00182.html

STATUS

RESOLVED

RESOLUTION

Please install Intel Wireless LAN driver 20.90 for Intel PROSet/Wireless vulnerability (TCH0436100G) or later.

To download the Intel® PROSet / WiFi Software published by Dynabook Inc., visit http://emea.dynabook.com/support/drivers/laptops/





Intel® Converged Security Management Engine (Intel® CSME) Q2'2018 Security Release.

VULNERABILITY SUMMARY

INTEL-SA-00125

Security Advisory intended for CVE-2018-3655

INTEL-SA-00141

Security Advisory intended for CVE-2018-3657, CVE-2018-3658, CVE-2018-3616, CVE-2018-3657

INTEL-SA-00142

Security Advisory intended for CVE-2018-3659

STATUS

RESOLVED

RESOLUTION

Intel recommends users to install updated firmware which mitigates this issue. Please download the latest mitigated firmware packages via http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version:

- Intel AMT Software: V11.8.55.3510 (TCH0494500C)
- 2. Intel ME FW Update Tool Version: V1.1.5.1 or later (TCH0513900B)

Note: Ensure to apply AMT Software TCH0494500C prior to Intel ME FW update TCH0513900B



Security researchers have identified a speculative execution side-channel method called L1 Terminal Fault (L1TF).

VULNERABILITY SUMMARY

INTEL-SA-00131

Security Advisory intended for CVE-2018-3643

A vulnerability in Power Management Controller firmware in systems using specific Intel® Converged Security and Management Engine (CSME) prior to versions 11.8.55, 11.11.55, 11.21.55, 12.0.5 or Intel® Server Platform Services firmware versions prior to 4.x.05 allows an attacker with administrative privileges to uncover certain platform secrets via local access.

STATUS

RESOLVED

RESOLUTION

Intel recommends users to install updated firmware which mitigates this issue. Please download the latest mitigated firmware packages via http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version:

- 1. Intel AMT Software: V11.8.55.3510 (TCH0494500C)
- 2. Intel ME FW Update Tool Version: **V1.1.5.1** or later (**TCH0513900B**)

Note: Ensure to apply AMT Software TCH0494500C prior to Intel ME FW update TCH0513900B



Power Management Controller (PMC) Security Vulnerability in Systems using specific Intel® Converged Security and Management Engine (CSME) or Intel® Server Platform Services firmware versions.

VULNERABILITY SUMMARY

INTEL-SA-00161

- Security researchers have identified a speculative execution side-channel method called L1 Terminal Fault (L1TF). This method impacts select microprocessor products supporting Intel® Software Guard Extensions (Intel® SGX). Further investigation by Intel has identified two related applications of L1TF with the potential to impact additional microprocessors, operating systems, system management mode, and virtualization software. If used for malicious purposes, this class of vulnerability has the potential to improperly infer data values from multiple types of computing devices.
- CVE-2018- 3615 | CVE-2018- | CVE-2018- 3646
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00161.html

STATUS

RESOLVED

RESOLUTION

Intel has worked with operating system vendors, equipment manufacturers, and other ecosystem partners to develop platform firmware and software updates that can help protect systems from these methods. This includes the release of updated Intel microprocessor microcode to our customers and partners. This microcode was previously released as part of Intel-SA-00115.

Note: For BIOS releases containing related microcode update, please check Intel-SA-00115 status

Intel Q1'18 Intel® Active Management Technology 9.x/10.x/11.x Security Review Cumulative Update (Intel-SA-00112) & Intel® Management Engine 11.x issue (Intel-SA-00118)

VULNERABILITY SUMMARY

INTEL-SA-00112

- The issues affect Intel® Active Management Technology 3.x/4.x/5.x/6.x/7.x/8.x/9.x/10.x/11.x used in corporate PCs (Intel® vPro, Intel® AMT), IOT devices, workstations and servers. These firmware versions may be found on certain products.
- CVE-2018- 3628 | CVE-2018- 3629 | CVE-2018- 3632
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00112.html

INTEL-SA-00112

- CVE-2018-3627: The issues affects Intel® ME 11.x used in consumer/corporate PCs (Intel® vPro or not, Intel® AMT or not), IOT devices and workstation. The affected firmware version may be found on certain products.
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00112.html

STATUS

RESOLVED

RESOLUTION

Intel recommends users to install updated firmware which mitigates this issue.

Please download the latest mitigated Intel Management Engine firmware version (Dynabook Inc. package TCH0486400A / V1.1.4.0 or later) from http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version.



Side channel methods techniques may allow an attacker to gain information through observing the system, such as measuring micro architectural properties. Side channel methods: branch target injection, bounds check bypass, and speculative store bypass.

VULNERABILITY SUMMARY

INTEL-SA-00188 and Intel-SA-00115

- Security researchers disclosed several software analysis methods that, when used for malicious purposes, have the potential to improperly gather sensitive data from many types of computing devices with many different vendors processors and operating systems. Vulnerabilities have nicknamed as "Spectre" and "Meltdown".
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00088.html
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00115.html
- Microsoft Security Update Guide: https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/ADV180002

SPECTRE	CVE-2017-5753 – Bounds check bypass	Variant 1	Require OS update
	CVE-2017-5715 – Branch target injection	Variant 2	Require OS update and BIOS Update
	CVE-2019-1125 - Speculative Access Memory	Variant 1	Require OS update
MELTDOW N	CVE-2017-5754 – Rogue data cache load		Require OS update
	CVE-2018-3640 – Rogue System Register Read		Require BIOS update
	CVE-2018-3639 – Speculative Store Bypass		Require BIOS update

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. continues to work with Intel on updates with new versions available per guidance from Intel's Security Issue Update. To obtain related BIOS versions from Dynabook Inc., visit http://emea.dynabook.comgeneric/recently-reported-vulnerabilities-microprocessors/

INTRODUCTION

Configuration of SPI Flash in platforms based on multiple Intel CPUs allows a local attacker to alter the behavior of the SPI Flash, potentially leading to a Denial of Service. This issue has been root-caused, and the mitigation has been validated and is available.

VULNERABILITY SUMMARY

INTEL-SA-000087

- Configuration of SPI Flash in platforms based on multiple, Intel platforms allows a local attacker to alter the behavior of the SPI Flash, potentially leading to a Denial of Service. Intel identified this issue internally. Issue is root-caused, and the mitigation is known and available. To Intel's knowledge, the issue has not been seen externally.
- CVE-2017-5703 Intel CPU SPI Flash Denial of Service
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00087.html

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. includes this fix in the similar BIOS versions, which is released for "Spectre" and "Meltdown" vulnerability.

To obtain the related **BIOS versions** published by Dynabook Inc., visit http://emea.dynabook.com/generic/recently-reported-vulnerabilities-microprocessors/ or download via http://emea.dynabook.com/support/drivers/laptops/

INTRODUCTION

Pointer dereference in subsystem in Intel(R) Graphics Driver allows unprivileged user to elevate privileges via local access. Type Confusion in Content Protection HECI Service in Intel® Graphics Driver allows unprivileged user to elevate privileges via local access.

VULNERABILITY SUMMARY

INTEL-SA-00089

- The Intel® Graphics Drivers for Windows Code can fail to adequately validate a pointer input. This may lead to modification of kernel memory and a potential for an escalation of privilege. Reference **CVE-2017-5727**.
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00089.html

INTEL-SA-00095

- The Intel® Content Protection HECI Service has a Type Confusion vulnerability which potentially can lead to a privilege escalation. The HECI service software is distributed as part of the Intel Graphics Driver, and is used by the graphics driver to provide premium content playback services.
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00095.html

STATUS

RESOLVED

RESOLUTION

• Intel highly recommends to remove potentially vulnerable driver versions and upgrade to the latest mitigated driver compatible with the system. Please download the latest mitigated driver version from http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version.

NOTE: If appropriate, we recommend to apply Intel® Graphics Drivers announced for Windows* 2018.4 QSR Advisory (Intel-SA-00189)

INTRODUCTION

TPM is used for data encryption, creating a Public Key which is used alongside a Private Key. If the Public Key is accessed, there is a risk that the Private Key could potentially be identified.

VULNERABILITY SUMMARY

- If a Public Key generated by TPM and its paired Private Key are identified, a third party could impersonate a legitimate user and therefore decrypt data encrypted with a paired Public key and Private Key.
- Dynabook Inc. systems running Infineon TPM v1.20 and v2.0 are potentially affected.

Additional information available from Infineon: https://www.infineon.com/cms/en/product/promopages/tpm-update/?redirId=59160
Additional information available from Microsoft: https://go.microsoft.com/fwlink/?linkid=852572

STATUS

RESOLVED

RESOLUTION

Dynabook Inc. recommend to **immediately update the TPM firmware** if your system is potentially affected.

For details please access http://emea.dynabook.com/generic/potential-vulnerability-in-Infineon-TPM/

Intel AMT® Upgradable to Vulnerable Firmware, Intel Security Vulnerabilities Regarding Intel® Management Engine (ME), Intel® Server Platform Services (SPS), and Intel® Trusted Execution Engine (TXE) (Intel-SA-00082 and Intel-SA-00086)

INTRODUCTION

Intel AMT® Upgradable to Vulnerable Firmware (Intel-SA-00082)
Intel Q3'17 ME 6.x/7.x/8.x/9.x/10.x/11.x, SPS 4.0, and TXE 3.0 Security Review Cumulative Update (Intel-SA-00086)

VULNERABILITY SUMMARY

Intel-SA-00082

- Intel® Active Management Technology, Intel® Standard Manageability, and Intel® Small Business Technology firmware versions 11.0.25.3001 and 11.0.26.3000 anti-rollback will not prevent upgrading to firmware version 11.6.x.1xxx which is vulnerable to CVE-2017-5689 and can be performed by a local user with administrative privileges.
- Intel security center advisory: : https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00082.html

Intel-SA-00086

• In response to issues identified by external researchers, Intel has performed an in-depth comprehensive security review of its Intel® Management Engine (ME), Intel® Trusted Execution Engine (TXE), and Intel® Server Platform Services (SPS) with the objective of enhancing firmware resilience.

As a result, Intel has identified several security vulnerabilities that could potentially place impacted platforms at risk. Systems using ME Firmware versions 6.x/7.x/8.x/9.x/10.x//11.0/11.5/11.6/11.7/11.10/11.20, SPS Firmware version 4.0, and TXE version 3.0 are impacted.

Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00086.html

STATUS

RESOLVED

RESOLUTION

Intel recommends users to install updated firmware which mitigates this issue.

The updated firmware can be obtained from https://support.dynabook.com/support/viewContentDetail?contentId=4015909



Researchers Mathy Vanhoef and Frank Piessens, from the University of Leuven, identified a series of vulnerabilities that affect the Wi-Fi Protected Access (WPA) and Wi-Fi Protected Access II (WPA2) standards.

VULNERABILITY SUMMARY

Intel-SA-00101

- These vulnerabilities are protocol-level vulnerabilities that affect a number of industry implementations of the standard in wireless infrastructure devices and wireless clients: https://papers.mathyvanhoef.com/ccs2017.pdf
 An attacker within range of an affected wireless access point (AP) and client may leverage these vulnerabilities to conduct attacks using susceptible data confidentiality protocols.
- CVEs relevant to Intel® Products and Technologies are:
 CVE-2017-13077, CVE-2017-13078, CVE-2017-13080, CVE-2017-13081
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00101.html

STATUS

RESOLVED

RESOLUTION

Intel highly recommends that customers adopt the updates that include the mitigations for the relevant CVE IDs referenced above.

Please download the latest mitigated driver version from http://emea.dynabook.com/support/drivers/laptops/ and upgrade to this version.

INTRODUCTION

Vulnerability in Intel® AMT, Intel® ISM, and Intel® Small Business Technology firmware versions 6.x, 7.x, 8.x 9.x, 10.x, 11.0, 11.5, and 11.6 that can allow an unprivileged attacker to gain control of the manageability features provided by these products.

VULNERABILITY SUMMARY

Intel-SA-00075

- There are two ways this vulnerability may be accessed:
 - An unprivileged network attacker could gain system privileges to provisioned Intel manageability SKUs: Intel® Active Management Technology (AMT) and Intel® Standard Manageability (ISM).
 - An unprivileged local attacker could provision manageability features gaining unprivileged network or local system privileges on Intel manageability SKUs: Intel® Active Management Technology (AMT), Intel® Standard Manageability (ISM), and Intel® Small Business Technology (SBT).
- The issue has been observed in Intel manageability firmware versions 6.x, 7.x, 8.x 9.x, 10.x, 11.0, 11.5, and 11.6 for Intel® Active Management Technology, Intel® Small Business Technology, and Intel® Standard Manageability. Versions before 6 or after 11.6 are not impacted. Intel highly recommends to update firmware. Firmware versions that resolve the issue have a four digit build number that starts with a "3" (X.X.XX.3XXX) Ex: 8.1.71.3608.
- Intel security center advisory: https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00075.html

STATUS

RESOLVED

RESOLUTION

Firmware update for Dynabook Inc. products is available on http://emea.dynabook.comgeneric/Intel_AMT_vulnerability/

INTRODUCTION

The issue allows a local intruder to backdoor a system in a matter of seconds, even if the BIOS password, TPM Pin, Bitlocker and login credentials are in place.

VULNERABILITY SUMMARY

By selecting Intel's Management Engine BIOS Extension (MEBx), intruders can log in using the default password "admin" if it has not been changed by the user.

STATUS

RESOLVED

RESOLUTION

• Changing default "admin" password for Intel AMT will resolve the issue.

For more information please refer to Security Best Practices of Intel® Active Management Technology Q&A

