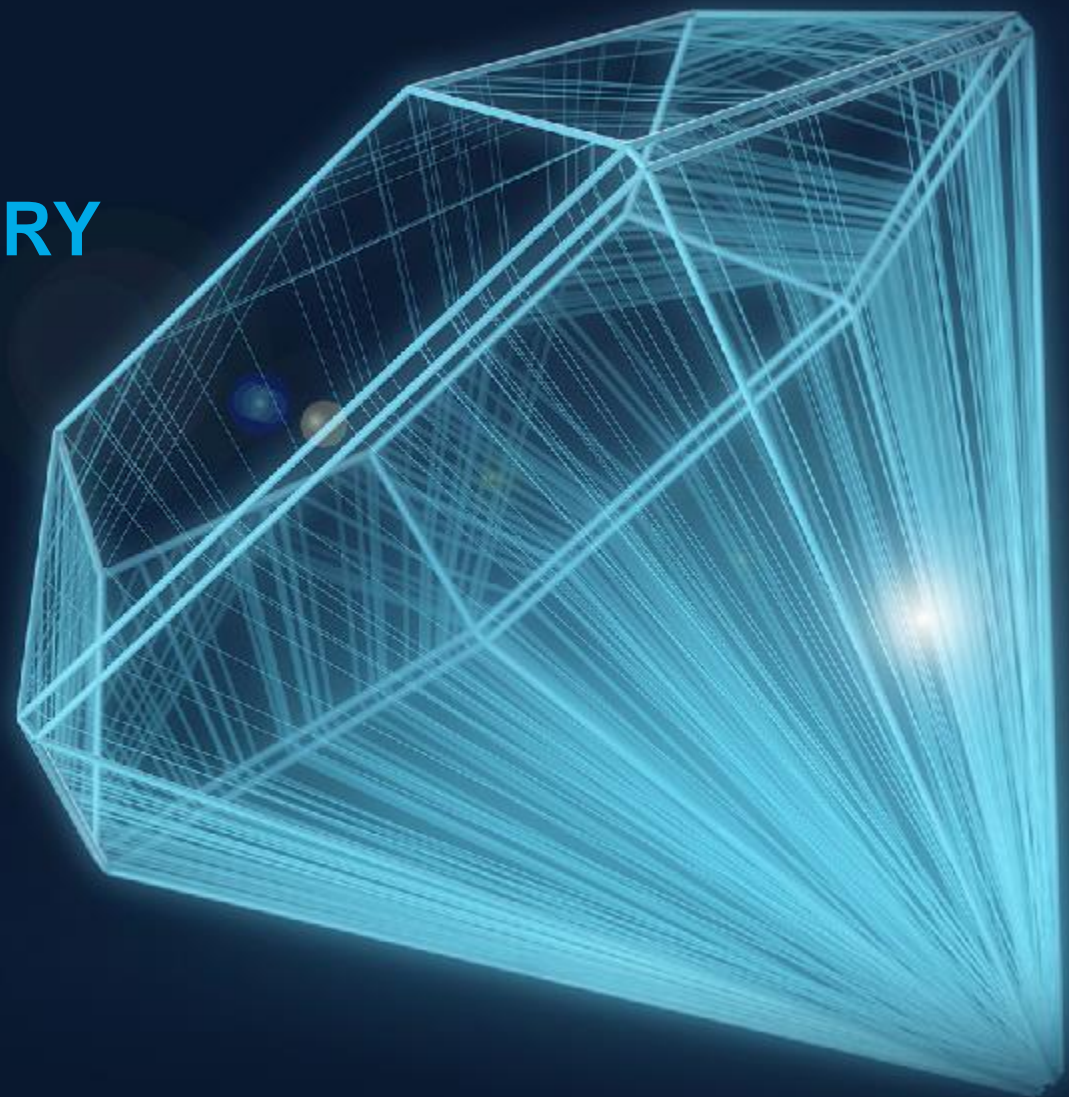


SECURITY INFORMATION SUMMARY

The latest security information on dynamabook 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: November 16, 2021



DATE*	VENDOR ID	VULNERABILITY DESCRIPTION
16-Nov-21	Intel-SA-00562	BIOS Reference Code Advisory
	Intel-SA-00528	Intel® Processor Advisory
03-Nov-21	Intel-SA-00508	Intel® Graphics Drivers Advisory
02-Aug-21	Intel-SA-00473	Intel® PROSet/Wireless WiFi , Intel vPro® CSME WiFi and Killer™ WiFi Advisory Advisory
01-Jul-21	Intel-SA-00472	Intel® ProSet/Wireless WiFi Driver Advisory
	Intel-SA-00401	Intel® Thunderbolt™ Controllor Advisory
	Intel-SA-00442	2021.1 IPU - Intel® VT-d Advisory
	Intel-SA-00459	2021.1 IPU – Intel® CSME, SPS and LMS Advisory
	Intel-SA-00463	2021.1 IPU – BIOS Advisory
	Intel-SA-00464	2021.1 IPU – Intel® Processor Advisory
22-Jun-21	Intel-SA-00545	Intel® Rapid Storage Technology Advisory
	Intel-SA-00520	Intel® Wireless Bluetooth® and Killer™ Bluetooth® Advisory
18-May-21	Intel-SA-00473	Intel® PROSet/Wireless WiFi , Intel vPro® CSME WiFi and Killer™ WiFi Advisory
	Intel-SA-00455	Intel® SGX Platform Advisory
29-Mar-21	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

DATE*	VENDOR ID	VULNERABILITY DESCRIPTION
21-Dec-20	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
16-Sep-20	Intel-SA-00337	Intel® Wireless Bluetooth® Advisory
	Intel-SA-00355	Intel® PROSet/Wireless WiFi Software Advisory
05-Aug-20	Intel-SA-00366	Intel® Innovation Engine Advisory
21-Jul-20	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
15-Apr-20	Intel-SA-00338	Intel® PROSet/Wireless WiFi Software Advisory
30-Mar-20	Intel-SA-00330	Intel® Snoop Assisted L1D Sampling Advisory
26-Mar-20	Intel-SA-00315	Intel® Processor Graphics Advisory
	Intel-SA-00326	Intel® Optane™ DC Persistent Memory Module Management Software Advisory
02-Mar-20	Intel-SA-00329	Intel® Processor Data Leakage Advisory
	Intel-SA-00314	Intel® Processor Graphics Advisory

* Date on which item has been added in dynabook Europe security information summary

DATE*	VENDOR ID	VULNERABILITY 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® AMT 9.x/10.x/11.x Security Review Cumulative Update & Intel® ME 11.x issue
	Intel-SA-00112	
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	Intel-SA-00095	Intel® Content Protection HECI Service has a Type Confusion vulnerability which potentially can lead to a privilege escalation
Oct 10, 2017		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)

* Date on which item has been added in dynabook Europe security information summary

DATE*	VENDOR ID	VULNERABILITY 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

2021

**DYNABOOK SECURITY
VULNERABILITY INFORMATION
RELEASES WITHIN 2021***

VULNERABILITY SUMMARY

- Potential security vulnerabilities in the BIOS reference code for some Intel® Processors may allow escalation of privilege. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- **Vulnerability Details:**
 - CVEID: **CVE-2021-0157**
Description: Insufficient control flow management in the BIOS firmware for some Intel(R) Processors may allow a privileged user to potentially enable escalation of privilege via local access.
 - CVEID: **CVE-2021-0158**
Description: Improper input validation in the BIOS firmware for some Intel(R) Processors may allow a privileged user to potentially enable escalation of privilege via local access.
- **Affected Products:**
Intel® Xeon® Processor E / E3 v6 Family, Intel® Xeon® Processor W Family
3rd Generation Intel® Xeon® Scalable Processors
11th / 10th / 7th Generation Intel® Core™ Processors
Intel® Core™ X-series Processors, Intel® Celeron® Processor N Series
Intel® Pentium® Silver Processor Series
- **Intel® security center advisory:**
<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00562.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 version provided by Dynabook Inc. that addresses these issues.

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

BIOS Reference Code Advisory

[**Intel-SA-00562**]

VULNERABILITY SUMMARY

- A potential security vulnerability in some Intel® Processors may allow escalation of privilege. Intel is releasing firmware updates to mitigate this potential vulnerability.
- **Vulnerability Details:**
 - **CVEID:**
 - **CVE-2021-0146**
 - **Description:**
 - Hardware allows activation of test or debug logic at runtime for some Intel(R) processors which may allow an unauthenticated user to potentially enable escalation of privilege via physical access.
- **Affected Products:**
Intel® Pentium® Processor J Series, N Series, Intel® Celeron® Processor J Series, N Series, Intel® Atom® Processor A Series, Intel® Atom® Processor E3900 Series, Intel® Pentium® Processor N Series, Intel® Celeron® Processor N Series, Intel® Atom® Processor E3900 Series, Intel® Pentium® Processor Silver Series/ J&N Series, Intel® Pentium® Processor Silver Series/ J&N Series - Refresh, Intel® Atom® Processor C3000
- **Intel® security center advisory:**
<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00528.html>

STATUS

- **IN PROGRESS**

RESOLUTION

- Dynamabook 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 version provided by Dynamabook Inc. that addresses these issues.

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



Intel® Processor Advisory

[**Intel-SA-00528**]

VULNERABILITY SUMMARY

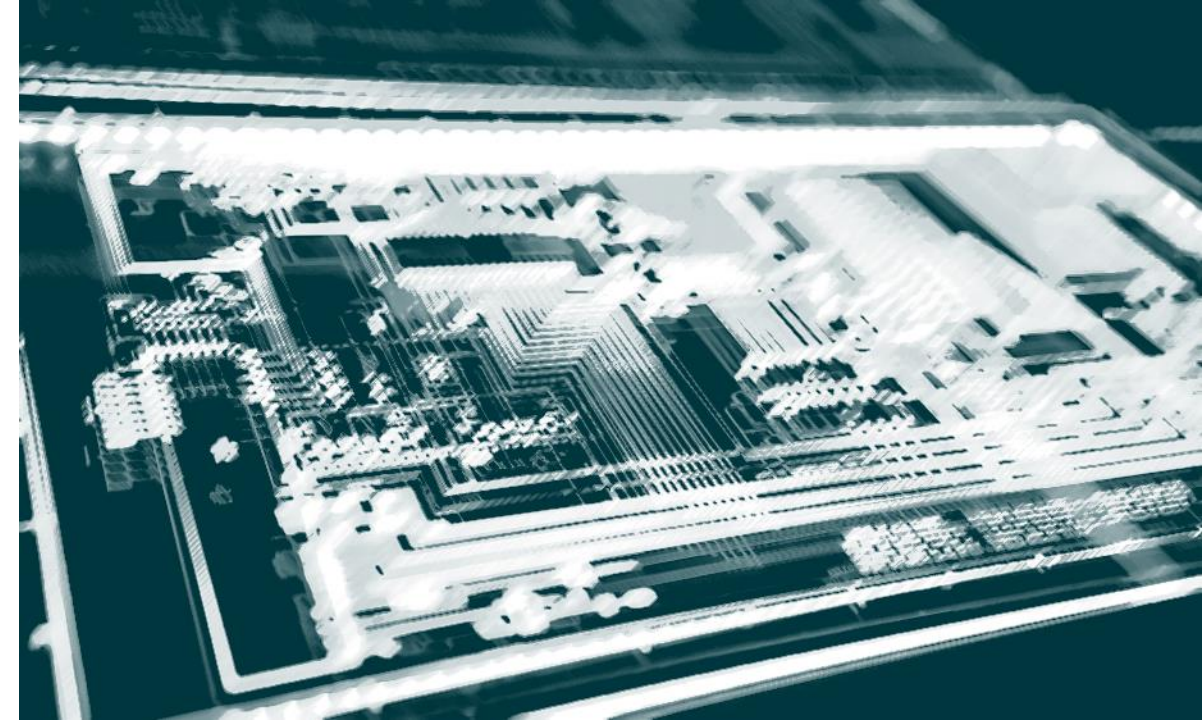
- Potential security vulnerabilities in some Intel® Graphics Drivers may allow escalation of privilege. Intel is releasing software updates to mitigate these potential vulnerabilities.
- **Vulnerability Details:**
 - **CVEID: CVE-2021-0061**
Description: Improper initialization in some Intel(R) Graphics Driver before version 27.20.100.9030 may allow an authenticated user to potentially enable escalation of privilege via local access.
 - **CVEID: CVE-2021-0012**
Description: Use after free in some Intel(R) Graphics Driver before version 27.20.100.8336, 15.45.33.5164, and 15.40.47.5166 may allow an authenticated user to potentially enable denial of service via local access.
 - **CVEID: CVE-2021-0062**
Description: Improper input validation in some Intel(R) Graphics Drivers before version 27.20.100.8935 may allow an authenticated user to potentially enable escalation of privilege via local access.
- **Affected Products:**
 - Intel® Graphics Win10 Legacy Drivers before v27.20.100.9171 / DCH Drivers before v27.20.100.9030
 - Intel® Graphics Driver for Windows before v15.45.33.5164 / before v15.40.47.5166
- **Intel® security center advisory:**
 - <https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00508.html>

STATUS

- IN PROGRESS

RESOLUTION

- Intel recommends that users of Intel® Graphics Windows 10 non-dch Driver update to the latest version provided by Dynamabook Inc. that addresses these issues. Please visit and check <http://emea.dynabook.com/support/drivers/laptops/> for available drivers.
- Intel recommends updating the Intel® Graphics Windows 10 DCH Drivers update to version 27.20.100.9030 or later. Updates are available for download at this location: <https://downloadcenter.intel.com/download/30066/Intel-Graphics-Windows-10-DCH-Drivers>
- Intel recommends updating the Intel® Graphics Driver for Windows update to version 15.45.33.5164 or later. Updates are available for download at this location: <https://downloadcenter.intel.com/download/29972/Intel-Graphics-Driver-for-Windows-15-45-?product=80939>
- Intel recommends updating the Intel® Graphics Driver for Windows update to version 15.40.47.5166 or later. Updates are available for download at this location: <https://downloadcenter.intel.com/download/29971/Intel-Graphics-Driver-for-Windows-15-40-?product=80939>



Intel® Graphics
Drivers Advisory

[Intel-SA-00508]

VULNERABILITY 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 (Non-Intel issued)
CVEID: CVE-2020-24587 (Non-Intel issued)
CVEID: CVE-2020-24588 (Non-Intel issued)
- **Affected Products:**
Intel® PROSet/Wireless WiFi products: Intel® Wi-Fi 6E AX210, Intel® Wi-Fi 6 AX201/AX200, Intel® Wireless-AC 9560/9462/9461/9260, Intel® Dual Band Wireless-AC 8265/8260/3168/3165, Intel® Wireless 7265 (Rev D) Family
Intel vPRO® CSME WiFi products: Intel® Wi-Fi 6 AX201/AX200, Intel® Wireless-AC 9560/9260, Intel® Dual Band Wireless-AC 8265/8260
Killer™ WiFi 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-00473.html>

STATUS

- **IN PROGRESS**

RESOLUTION

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

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>

Intel recommends that users of Intel® vPRO® CSME WiFi products update to the latest version provided by dynamabook Inc. that addresses these issues. Please visit and check

<http://emea.dynabook.com/support/drivers/laptops/> for available packages.



Intel® ProSet/Wireless
WiFi Driver Advisory

[**Intel-SA-00473**]

VULNERABILITY 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 (Non-Intel issued)
CVEID: CVE-2020-24587 (Non-Intel issued)
CVEID: CVE-2020-24588 (Non-Intel issued)

- **Affected Products:**

Intel® PROSet/Wireless WiFi products: Intel® Wi-Fi 6E AX210, Intel® Wi-Fi 6 AX201/AX200, Intel® Wireless-AC 9560/9462/9461/9260, Intel® Dual Band Wireless-AC 8265/8260/3168/3165, Intel® Wireless 7265 (Rev D) Family

Intel vPRO® CSME WiFi products: Intel® Wi-Fi 6 AX201/AX200, Intel® Wireless-AC 9560/9260, Intel® Dual Band Wireless-AC 8265/8260

Killer™ WiFi 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-00473.html>

STATUS

- **IN PROGRESS**

RESOLUTION

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

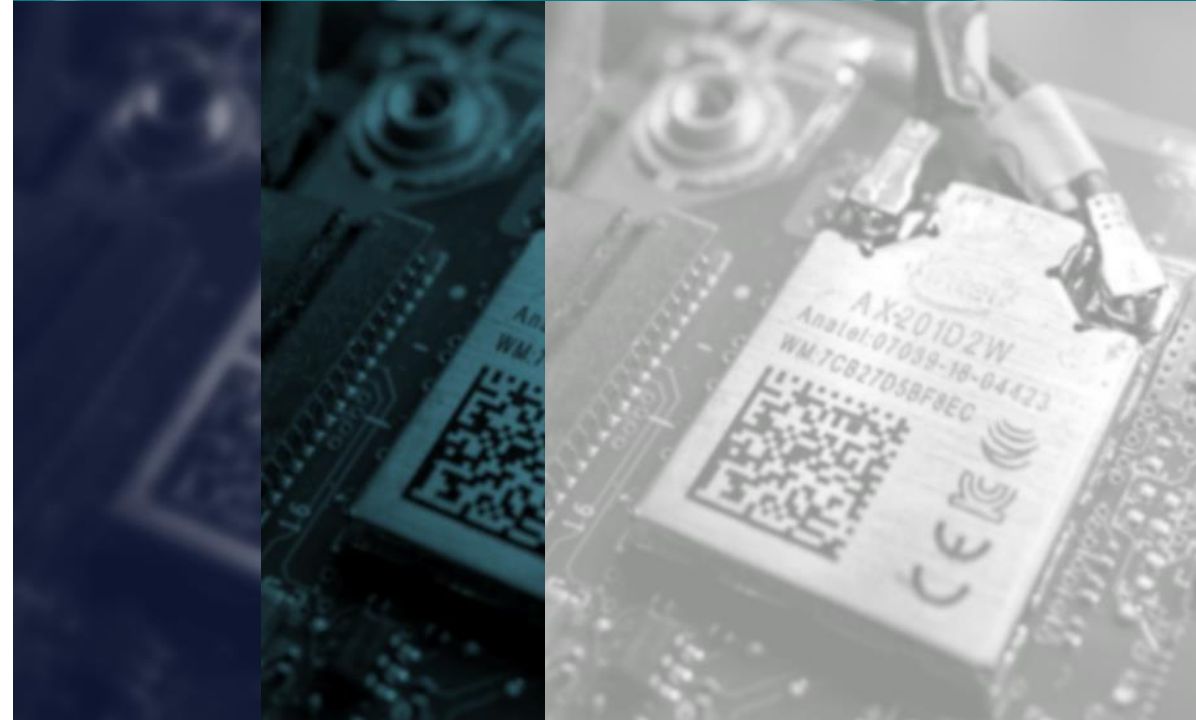
Intel recommends updating Intel® PROSet/Wireless WiFi to version 22.30 or later

Updates are available for download at this location:

<https://downloadcenter.intel.com/download/30208>

Intel recommends that users of Intel® vPRO® CSME WiFi products update to the latest version provided by dynamabook Inc. that addresses these issues. Please visit and check

<http://emea.dynabook.com/support/drivers/laptops/> for available packages.



Intel® ProSet/Wireless
WiFi Driver Advisory

[**Intel-SA-00473**]

VULNERABILITY SUMMARY

- A potential security vulnerability in some Intel® ProSet/Wireless WiFi drivers may allow information disclosure and denial of service. Intel is releasing a software update to mitigate this potential vulnerability.

- **Vulnerability Details:**

CVEID: CVE-2021-0105

Description: Insecure inherited permissions in some Intel(R) ProSet/Wireless WiFi drivers may allow an authenticated user to potentially enable information disclosure and denial of service via adjacent access.

- **Affected Products:**

- Intel® Wi-Fi 6 AX201
- Intel® Wi-Fi 6 AX200
- Intel® Wireless-AC 9560
- Intel® Wireless-AC 9462
- Intel® Wireless-AC 9461

- **Intel® security center advisory:**

<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00472.html>

STATUS

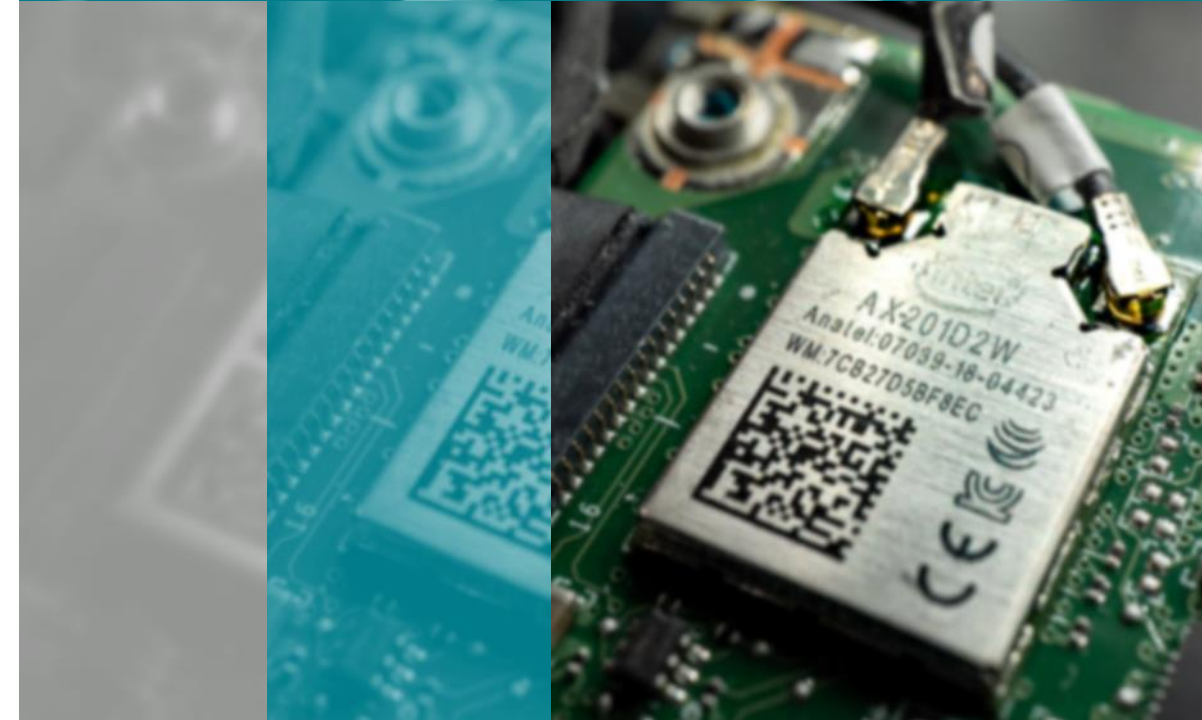
- RESOLVED

RESOLUTION

- Intel recommends updating the Intel® ProSet/Wireless WiFi drivers to version 22.0 or later.

Updates are available for download at this location:

<https://downloadcenter.intel.com/download/30208>



Intel® ProSet/Wireless
WiFi Driver Advisory

[**Intel-SA-00472**]

VULNERABILITY SUMMARY

- Potential security vulnerabilities in some Intel® Thunderbolt™ controllers may allow denial of service. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- **Vulnerability Details:**
 - CVEID: CVE-2020-12293
 - CVEID: CVE-2020-12294
 - CVEID: CVE-2020-12295
 - CVEID: CVE-2020-12296
 - CVEID: CVE-2020-12291
 - CVEID: CVE-2020-12292
 - CVEID: CVE-2020-12290
 - CVEID: CVE-2020-12288
 - CVEID: CVE-2020-12289
- **Affected Products:**

Thunderbolt™ 3, 4 Retimer and USB Retimer

For Version details, please see Intel Security Advisory notice.
- **Intel® security center advisory:**

<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00401.html>

STATUS

- **IN PROGRESS**

RESOLUTION

- Intel recommends that users of Intel® Thunderbolt™ controllers update to the latest version provided by Dynamabook Inc. that addresses these issues, as soon as they are available.

Intel will not be releasing mitigation for CVEID: CVE-2020-12289 and CVE-2020-12288 for Intel® Thunderbolt™ 3 controllers JHL7540, JHL7340, JHL7440, DSL6340, DSL6540, JHL6240, JHL6540 and JHL6340. To recover from these issues a device power cycle is needed.

Intel has issued Product Discontinuation notices for the Intel® DSL5520 & DSL5320 Thunderbolt™ 2 Controllers and Intel® DSL6340 & DSL6540 Thunderbolt™ 3 Controllers and Intel recommends that users discontinue use at their earliest convenience.



Intel® Thunderbolt™
Controller Advisory

[**Intel-SA-00401**]

VULNERABILITY SUMMARY

- A potential security vulnerability in some Intel® Virtualization Technology for Directed I/O (VT-d) products may allow escalation of privilege. Intel is releasing firmware updates to mitigate this potential vulnerability.
- **Vulnerability Details:**
CVEID: CVE-2020-24489
Description: Incomplete cleanup in some Intel(R) VT-d products may allow an authenticated user to potentially enable escalation of privilege via local access.
- **Affected Products:**
10th and 11th Generation Intel® Core™ Processors
Intel® Pentium® Processor J Series, N Series
Intel® Celeron® Processor J Series, N Series
Intel® Atom® Processor A Series, E3900 Series
Intel® Pentium® Processor Silver Series/ J&N Series
Intel® Pentium® Processor Silver Series/ J&N – Refresh
Intel® Core™ Processors with Intel® Hybrid Technology
- **Intel® security center advisory:**
<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00442.html>

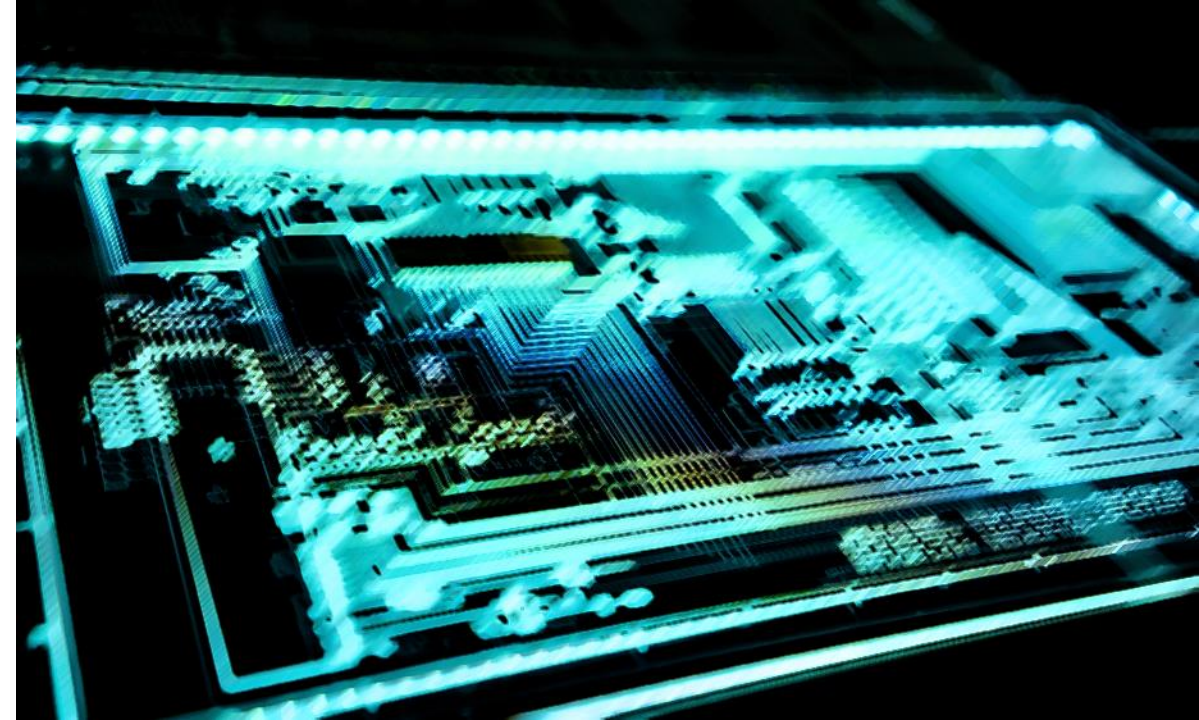
STATUS

- **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® VT-d 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.



2021.1 IPU - Intel® VT-d Advisory

[Intel-SA-00442]

VULNERABILITY SUMMARY

- Potential security vulnerabilities in the Intel® Converged Security and Manageability Engine (CSME), Server Platform Services (SPS), and Intel® Local Manageability Service (Intel® LMS) may allow escalation of privilege or information disclosure. Intel is releasing firmware and software updates to mitigate these potential vulnerabilities.

- **Vulnerability Details:**

CVEID: CVE-2020-24509

CVEID: CVE-2020-8704

CVEID: CVE-2020-24507

CVEID: CVE-2020-24516

CVEID: CVE-2020-8703

CVEID: CVE-2020-24506

- **Affected Products:**

For a complete list of affected products, please see Intel Security Advisory page.

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:**

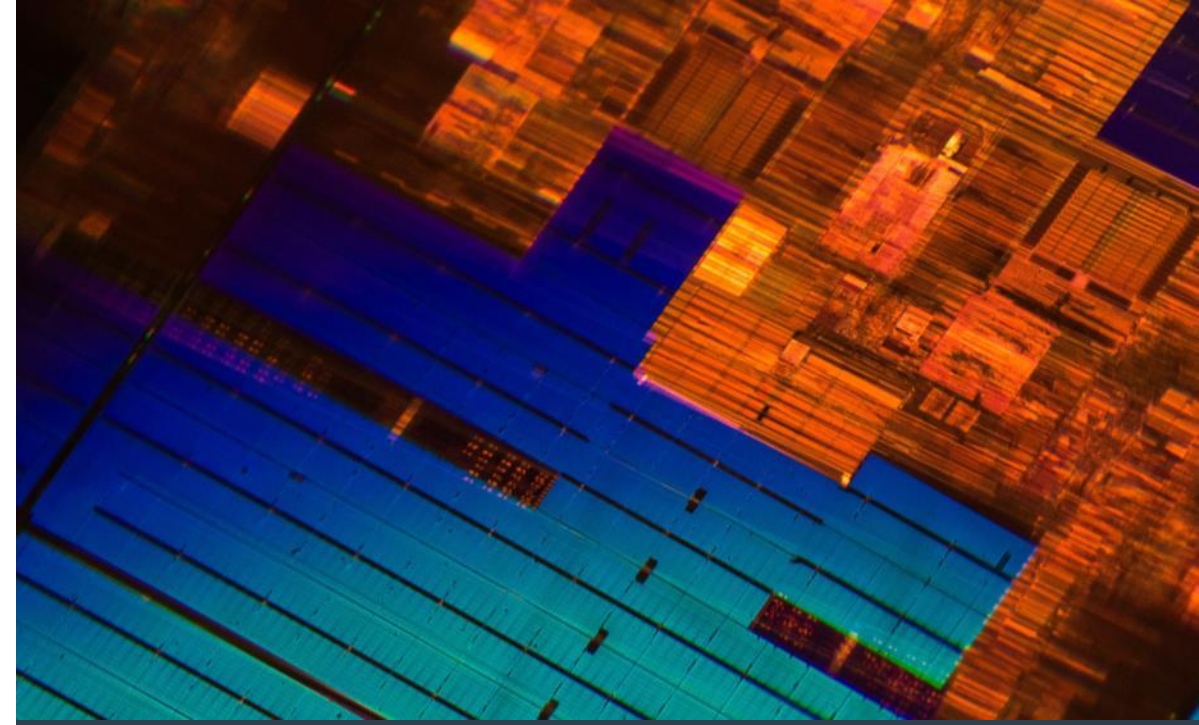
<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00459.html>

STATUS

- **IN PROGRESS**

RESOLUTION

- Intel recommends that users of Intel® CSME, SPS and Intel® LMS update to the latest version firmware provided by the dynamabook Inc. that addresses these issues. Please visit and check <http://emea.dynamabook.com/support/drivers/laptops/> for available updates.



2021.1 IPU – Intel® CSME, SPS and
LMS Advisory

[**Intel-SA-00459**]

VULNERABILITY SUMMARY

- Potential security vulnerabilities in the BIOS firmware for some Intel® Processors may allow escalation of privilege or denial of service. Intel is releasing firmware updates to mitigate these potential vulnerabilities.
- **Vulnerability Details:**
 - CVEID: CVE-2020-12357
 - CVEID: CVE-2020-8670
 - CVEID: CVE-2020-8700
 - CVEID: CVE-2020-12359
 - CVEID: CVE-2020-12358
 - CVEID: CVE-2021-0095
 - CVEID: CVE-2020-12360
 - CVEID: CVE-2020-24486
- **Affected Products:**

For a complete list of affected products, please see Intel Security Advisory page.
- **Intel® security center advisory:**

<https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00463.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 the affected products 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 updates.



2021.1 IPU – BIOS Advisory

[**Intel-SA-00463**]

VULNERABILITY 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-2020-24511
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-2020-24512
Description: Observable timing discrepancy 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-00464.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 version firmware provided by dynabook Inc. that addresses this issue. Please visit and check <http://emea.dynabook.com/support/drivers/laptops/> for available 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>.



2021.1 IPU – Intel® Processor Advisory

[**Intel-SA-00464**]

VULNERABILITY 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>

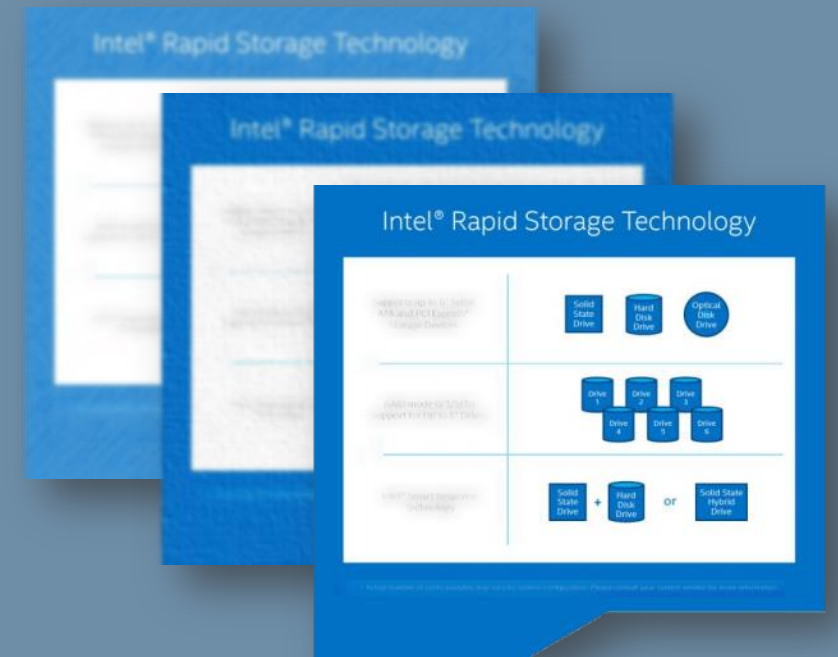
STATUS

- 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: [Downloads for Intel® Rapid Storage Technology \(Intel® RST\)](#)



Intel® Rapid Storage
Technology Advisory

[Intel-SA-00545]

VULNERABILITY 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]

VULNERABILITY 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**]

VULNERABILITY 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**]

VULNERABILITY 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**]

VULNERABILITY 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]

VULNERABILITY 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 ICESA-20-353-01: Disclosed in INTEL-SA-00404 / Disclosed in ICESA-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 dynamabook Inc. that addresses these issues.

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



Intel® AMT and Intel® ISM Advisory

[Intel-SA-00404]

VULNERABILITY 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>

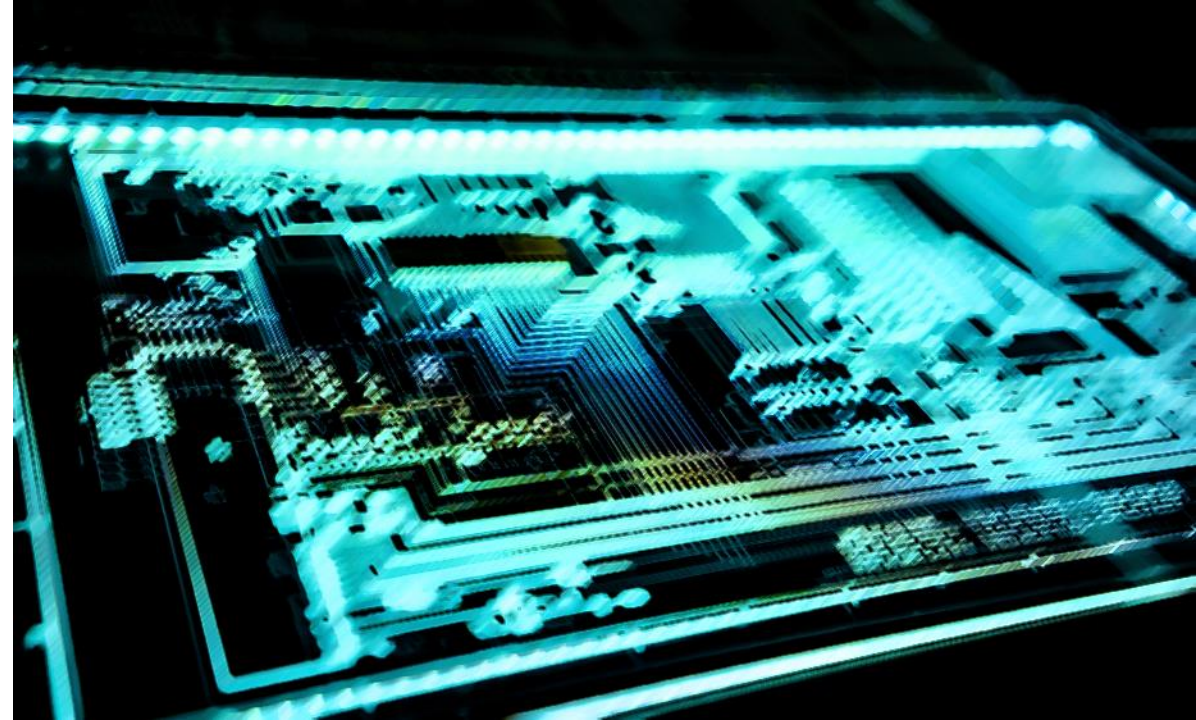
STATUS

- **IN PROGRESS**

RESOLUTION

- Intel recommends that users of affected Intel® Processors update to the latest firmware version provided by dynamabook 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**]

VULNERABILITY 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

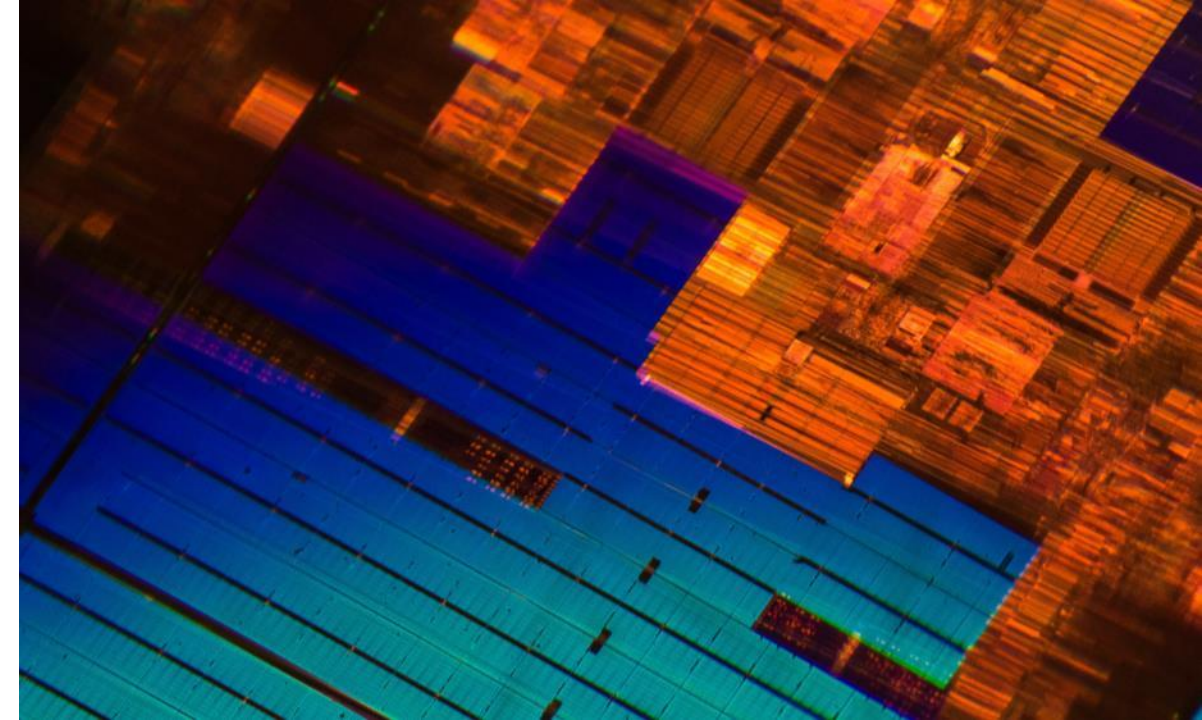
- **RESOLVED**

RESOLUTION

- Intel recommends that users of affected Intel® Processors update to the latest version firmware provided by the dynamabook 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

VULNERABILITY 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 dynamabook that addresses these issues.

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

INTRODUCTION

Intel® HID Event Filter Advisory

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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

Dynamabook 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 dynamabook that addresses these issues.

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

INTRODUCTION

Intel® Wireless Bluetooth® Advisory

VULNERABILITY 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**

- Description: 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**

- Description: 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

VULNERABILITY 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

VULNERABILITY 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 dynamabook Inc. that addresses these issues.

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

INTRODUCTION

Intel Unite® Client Advisory

VULNERABILITY 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**
 - Description: 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

VULNERABILITY 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 8265, Intel® Dual Band Wireless-AC 8260, 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

VULNERABILITY 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 8260, 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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:

<ul style="list-style-type: none"> ▪ CVEID: CVE-2020-0504 ▪ CVEID: CVE-2020-0516 ▪ CVEID: CVE-2020-0519 ▪ CVEID: CVE-2020-0520 ▪ CVEID: CVE-2020-0505 ▪ CVEID: CVE-2020-0501 	<ul style="list-style-type: none"> ▪ CVEID: CVE-2020-0565 ▪ CVEID: CVE-2020-0514 ▪ CVEID: CVE-2020-0515 ▪ CVEID: CVE-2020-0508 ▪ CVEID: CVE-2020-0511 ▪ CVEID: CVE-2020-0503 	<ul style="list-style-type: none"> ▪ CVEID: CVE-2020-0567 ▪ CVEID: CVE-2020-0502 ▪ CVEID: CVE-2020-0507 ▪ CVEID: CVE-2020-0517 ▪ CVEID: CVE-2020-0506
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- 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

VULNERABILITY 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

VULNERABILITY 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

VULNERABILITY 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](#)
 - Description: Cleanup errors in some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.
- [CVE-2020-0549](#)
 - Description: 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 dynamabook 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***



* *Vulnerability Information added 2019 in dynabook Europe security information summary*

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

* FCS = First Customer Shipment (BIOS include fix already)

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.

INTRODUCTION

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/>

INTRODUCTION

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/>

INTRODUCTION

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.dynamabook.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 (Net New / DCH - UWP)	> Win10 RS4, RS5	> 24.20.100.6346	🔄 Released	TCH0533300A	> 24.20.100.6346(100.6346)
	> Win10 RS3	> 24.20.100.6287	🔄 Released	TCH0546900A	> 24.20.100.6287(100.6287)
▪ Kaby Lake / Kaby Lake-R (Legacy)	> Win10 RS2, RS3, RS4	> 24.20.100.6286	🔄 Released	TCH0525800A	> 24.20.100.6286(100.6286)
	> Win10 RS1	> 23.20.16.4849	🔄 Released	TCH0431900A	> 23.20.16.4849(15.60.1.4849)
▪ Skylake	> Win10 RS2, RS3, RS4, RS5	> 24.20.100.6286	🔄 Released	TCH0525800A	> 24.20.100.6286(100.6286)
	> 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		
▪ Broadwell	> Win10	> 20.19.15.5070	🔄 Released	TCH0612200A	> 20.19.15.5070(v15.40.43.64.5070)
	> 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)
	> Win7, 8.1	> 10.18.14.5067	≈ 2019 / TBD		
▪ Cherry Trail	> Win10	> 20.19.15.5070	≈ 2019 / TBD		
	> 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		
▪ Haswell (DTPC)	> Win10	> 20.19.15.5070	≈ 2019 / TBD		
	> 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.

INTRODUCTION

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 Dynamabook Inc., visit <http://emea.dynamabook.com/support/drivers/laptops/>

2017 / 2018

**DYNABOOK SECURITY VULNERABILITY
INFORMATION RELEASES WITHIN 2017 / 2018***

INTRODUCTION

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:

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**

INTRODUCTION

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**

INTRODUCTION

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

INTRODUCTION

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 (Dynamabook Inc. package TCH0486400A / V1.1.4.0 or later)** from <http://emea.dynamabook.com/support/drivers/laptops/> and upgrade to this version.

INTRODUCTION

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
MELTDOWN	CVE-2017-5754 – Rogue data cache load	Variant 3	Require OS update
	CVE-2018-3640 – Rogue System Register Read	Variant 3a	Require BIOS update
	CVE-2018-3639 – Speculative Store Bypass	Variant 4	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-00087

- 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/>

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>

INTRODUCTION

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 Dynamabook Inc. products is available on http://emea.dynamabook.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](#)

