



The latest security information on Intel® products.

2022.1 IPU - Intel® Processor Advisory

Intel ID:	INTEL-SA-00617
Advisory Category:	Firmware
Impact of vulnerability:	Information Disclosure
Severity rating:	MEDIUM
Original release:	05/10/2022
Last revised:	06/13/2022

Summary:

Report a Vulnerability Product Support

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-2022-21151

Description: Processor optimization removal or modification of security-critical code for some Intel(R) Processors may allow an authenticated user to potentially enable information disclosure via local access.

CVSS Base Score: 5.3 Medium

CVSS Vector: CVSS:3.1/AV:L/AC:H/PR:H/UI:N/S:C/C:H/I:N/A:N

Affected Products:

Product Collection	Vertical Segment	CPU ID	Platform ID
10th Generation Intel® Core™ Processor Family	Mobile	706E5	80
Intel® Pentium® Processor Silver Series	Desktop		
Intel® Celeron® Processor J Series	Mobile	706A1	01
Intel® Celeron® Processor N Series"			
8th Generation Intel® Core™ Processor Family	Desktop	906EB	02
8th Generation Intel® Core™ Processors	Mobile	806EC	94
10th Generation Intel® Core™ Processor Family	Desktop	A0653	22
	Mobile	A0655	02
		AO661	80
		806EC	94
6th Generation Intel® Core™ Processor Family	Desktop	506E3	36
	Mobile	406E3	C0
7th Generation Intel® Core™ Processor Family	Desktop	906E9	2A
	Mobile	806E9	C0
9th Generation Intel® Core Processor Family	Desktop	A0671	02
3rd Generation Intel® Xeon® Scalable Processors	Server	606AX	0x87

Recommendations:

Intel recommends that users of affected Intel® Processors update to the latest version firmware provided by the system manufacturer that addresses these issues.

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>

This CVE requires a Microcode Security Version Number (SVN) update. To address this issue, an SGX TCB recovery is planned for Q2 2022. Customers will require the microcode update to get successful attestation responses. For customers using the Intel Attestation Service (IAS), the IAS Development Environment (DEV) will enforce the microcode and software updates beginning June 21, 2022 and the IAS Production Environment (LIV) will enforce the updates beginning July 19, 2022.

For customers that are not using IAS, but instead are constructing their own attestation infrastructure using the Intel® SGX Provisioning Policy (PCK Set Supp), updated Endorsements/Reference Values (i.e., PCK Certificates and verification collateral) will be available June 28, 2022. These customers decide when to enforce the microcode and software update, as part of their Appraisal Policies.

Refer to Intel® SGX Attestation Technical Details

for more information on the SGX TCB recovery process.

Further TCB Recovery Guidance

for developers is available.

Acknowledgements:

This issue was found internally by Intel employees. Intel would like to thank Alysa Milburn, Jason Brandt, Avishai Redelman, Nir Lavi for reporting this issue.

Intel, and nearly the entire technology industry, follows a disclosure practice called Coordinated Disclosure, under which a cybersecurity vulnerability is generally publicly disclosed only after mitigations are available.

Revision History

Revision	Date	Description
1.0	05/10/2022	Initial Release
1.1	06/13/2022	Updated Recommendations

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- Detailed description of the vulnerability
- Information on known exploits

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