



CVE-2021-3970

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

Summary

CVE	CVE-2021-3970
State	PUBLIC
Assigner	psirt@lenovo.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-04-22 21:15:00 UTC
Updated	2022-05-06 20:47:00 UTC
Description	A potential vulnerability in LenovoVariable SMI Handler due to insufficient validation in some Lenovo Notebook models BIO

Risk And Classification

Problem Types: CWE-20

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Lenovo	Ideapad 3-14ada05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14ada05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14ada6	-	All	All	All
Operating System	Lenovo	Ideapad 3-14ada6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14alc6	-	All	All	All
Operating System	Lenovo	Ideapad 3-14alc6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14are05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14are05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14igl05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14igl05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14iil05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14iil05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14iml05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14iml05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14itl05	-	All	All	All
Operating System	Lenovo	Ideapad 3-14itl05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-14itl6	-	All	All	All

Operating System	Lenovo	Ideapad 3-14itl6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15ada05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15ada05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15ada6	-	All	All	All
Operating System	Lenovo	Ideapad 3-15ada6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15alc6	-	All	All	All
Operating System	Lenovo	Ideapad 3-15alc6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15are05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15are05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15igl05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15igl05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15iil05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15iil05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15iml05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15iml05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15itl05	-	All	All	All
Operating System	Lenovo	Ideapad 3-15itl05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-15itl6	-	All	All	All
Operating System	Lenovo	Ideapad 3-15itl6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17ada05	-	All	All	All
Operating System	Lenovo	Ideapad 3-17ada05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17ada6	-	All	All	All
Operating System	Lenovo	Ideapad 3-17ada6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17alc6	-	All	All	All
Operating System	Lenovo	Ideapad 3-17alc6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17are05	-	All	All	All
Operating System	Lenovo	Ideapad 3-17are05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17iil05	-	All	All	All
Operating System	Lenovo	Ideapad 3-17iil05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17iml05	-	All	All	All
Operating System	Lenovo	Ideapad 3-17iml05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 3-17itl6	-	All	All	All
Operating System	Lenovo	Ideapad 3-17itl6 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad 5-15are05	-	All	All	All
Operating System	Lenovo	Ideapad 5-15are05 Firmware	All	All	All	All

Hardware	Lenovo	Ideapad 5-15iil05	-	All	All	All
Operating System	Lenovo	Ideapad 5-15iil05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad Creator 5-15imh05	-	All	All	All
Operating System	Lenovo	Ideapad Creator 5-15imh05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad Gaming 3-15arh05	-	All	All	All
Operating System	Lenovo	Ideapad Gaming 3-15arh05 Firmware	All	All	All	All
Hardware	Lenovo	Ideapad Gaming 3-15imh05	-	All	All	All
Operating System	Lenovo	Ideapad Gaming 3-15imh05 Firmware	All	All	All	All
Hardware	Lenovo	L3-15itl6	-	All	All	All
Operating System	Lenovo	L3-15itl6 Firmware	All	All	All	All
Hardware	Lenovo	L340-15irh	-	All	All	All
Operating System	Lenovo	L340-15irh Firmware	All	All	All	All
Hardware	Lenovo	L340-15iwl	-	All	All	All
Operating System	Lenovo	L340-15iwl Firmware	All	All	All	All
Hardware	Lenovo	L340-15iwl Touch	-	All	All	All
Operating System	Lenovo	L340-15iwl Touch Firmware	All	All	All	All
Hardware	Lenovo	L340-17irh	-	All	All	All
Operating System	Lenovo	L340-17irh Firmware	All	All	All	All
Hardware	Lenovo	L340-17iwl	-	All	All	All
Operating System	Lenovo	L340-17iwl Firmware	All	All	All	All
Hardware	Lenovo	L3 15iml05	-	All	All	All
Operating System	Lenovo	L3 15iml05 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-15ach6	-	All	All	All
Hardware	Lenovo	Legion 5-15ach6a	-	All	All	All
Operating System	Lenovo	Legion 5-15ach6a Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-15ach6h	-	All	All	All
Operating System	Lenovo	Legion 5-15ach6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5-15ach6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-15imh6	-	All	All	All
Operating System	Lenovo	Legion 5-15imh6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-15ith6	-	All	All	All
Hardware	Lenovo	Legion 5-15ith6h	-	All	All	All
Operating System	Lenovo	Legion 5-15ith6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5-15ith6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-17ach6	-	All	All	All

Hardware	Lenovo	Legion 5-1 /ach6h	-	All	All	All
Operating System	Lenovo	Legion 5-17ach6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5-17ach6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5-17ith6	-	All	All	All
Hardware	Lenovo	Legion 5-17ith6h	-	All	All	All
Operating System	Lenovo	Legion 5-17ith6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5-17ith6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5 Pro-16ach6	-	All	All	All
Hardware	Lenovo	Legion 5 Pro-16ach6h	-	All	All	All
Operating System	Lenovo	Legion 5 Pro-16ach6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5 Pro-16ach6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 5 Pro-16ith6	-	All	All	All
Hardware	Lenovo	Legion 5 Pro-16ith6h	-	All	All	All
Operating System	Lenovo	Legion 5 Pro-16ith6h Firmware	All	All	All	All
Operating System	Lenovo	Legion 5 Pro-16ith6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 7-16achg6	-	All	All	All
Operating System	Lenovo	Legion 7-16achg6 Firmware	All	All	All	All
Hardware	Lenovo	Legion 7-16ithg6	-	All	All	All
Operating System	Lenovo	Legion 7-16ithg6 Firmware	All	All	All	All
Hardware	Lenovo	Legion S7-15ach6	-	All	All	All
Operating System	Lenovo	Legion S7-15ach6 Firmware	All	All	All	All
Hardware	Lenovo	Legion Y540-15irh	-	All	All	All
Hardware	Lenovo	Legion Y540-15irh-pg0	-	All	All	All
Operating System	Lenovo	Legion Y540-15irh-pg0 Firmware	All	All	All	All
Operating System	Lenovo	Legion Y540-15irh Firmware	All	All	All	All
Hardware	Lenovo	Legion Y540-17irh	-	All	All	All
Hardware	Lenovo	Legion Y540-17irh-pg0	-	All	All	All
Operating System	Lenovo	Legion Y540-17irh-pg0 Firmware	All	All	All	All
Operating System	Lenovo	Legion Y540-17irh Firmware	All	All	All	All
Hardware	Lenovo	Legion Y545	-	All	All	All
Hardware	Lenovo	Legion Y545-pg0	-	All	All	All
Operating System	Lenovo	Legion Y545-pg0 Firmware	All	All	All	All
Operating System	Lenovo	Legion Y545 Firmware	All	All	All	All
Hardware	Lenovo	Legion Y7000-2019	-	All	All	All
Hardware	Lenovo	Legion Y7000-2019-pg0	-	All	All	All
Operating System	Lenovo	Legion Y7000-2019-pg0 Firmware	All	All	All	All

Operating System	Lenovo	Legion Y7000-2019 Firmware	All	All	All	All
Hardware	Lenovo	S145-14api	-	All	All	All
Operating System	Lenovo	S145-14api Firmware	All	All	All	All
Hardware	Lenovo	S145-14ast	-	All	All	All
Operating System	Lenovo	S145-14ast Firmware	All	All	All	All
Hardware	Lenovo	S145-14igm	-	All	All	All
Operating System	Lenovo	S145-14igm Firmware	All	All	All	All
Hardware	Lenovo	S145-14iil	-	All	All	All
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Hardware	Lenovo	S145-15api	-	All	All	All
Operating System	Lenovo	S145-15api Firmware	All	All	All	All
Hardware	Lenovo	S145-15ast	-	All	All	All
Operating System	Lenovo	S145-15ast Firmware	All	All	All	All
Hardware	Lenovo	S145-15igm	-	All	All	All
Operating System	Lenovo	S145-15igm Firmware	All	All	All	All
Hardware	Lenovo	S145-15iil	-	All	All	All
Operating System	Lenovo	S145-15iil Firmware	All	All	All	All
Hardware	Lenovo	S14 G2 Itl	-	All	All	All
Operating System	Lenovo	S14 G2 Itl Firmware	All	All	All	All
Hardware	Lenovo	S540-13api	-	All	All	All
Operating System	Lenovo	S540-13api Firmware	All	All	All	All
Hardware	Lenovo	S540-13iml	-	All	All	All
Operating System	Lenovo	S540-13iml Firmware	-	All	All	All
Hardware	Lenovo	Slim 7 Pro-14ihu5	-	All	All	All
Operating System	Lenovo	Slim 7 Pro-14ihu5 Firmware	-	All	All	All
Hardware	Lenovo	Slim 9-14itl05	-	All	All	All
Operating System	Lenovo	Slim 9-14itl05 Firmware	-	All	All	All
Hardware	Lenovo	V14-ada	-	All	All	All
Operating System	Lenovo	V14-ada Firmware	All	All	All	All
Hardware	Lenovo	V14-are	-	All	All	All
Operating System	Lenovo	V14-are Firmware	All	All	All	All
Hardware	Lenovo	V14-igl	-	All	All	All
Operating System	Lenovo	V14-igl Firmware	All	All	All	All
Hardware	Lenovo	V14-iil	-	All	All	All
Operating System	Lenovo	V14-iil Firmware	All	All	All	All

Hardware	Lenovo	V140-15iwl	-	All	All	All
Operating System	Lenovo	V140-15iwl Firmware	All	All	All	All
Hardware	Lenovo	V14 G1-impl	-	All	All	All
Operating System	Lenovo	V14 G1-impl Firmware	All	All	All	All
Hardware	Lenovo	V14 G2-acl	-	All	All	All
Operating System	Lenovo	V14 G2-acl Firmware	All	All	All	All
Hardware	Lenovo	V14 G2-itl	-	All	All	All
Operating System	Lenovo	V14 G2-itl Firmware	All	All	All	All
Hardware	Lenovo	V15-ada	-	All	All	All
Operating System	Lenovo	V15-ada Firmware	All	All	All	All
Hardware	Lenovo	V15-igl	-	All	All	All
Operating System	Lenovo	V15-igl Firmware	All	All	All	All
Hardware	Lenovo	V15-iil	-	All	All	All
Operating System	Lenovo	V15-iil Firmware	All	All	All	All
Hardware	Lenovo	V15 G1-impl	-	All	All	All
Operating System	Lenovo	V15 G1-impl Firmware	All	All	All	All
Hardware	Lenovo	V15 G2-alc	-	All	All	All
Operating System	Lenovo	V15 G2-alc Firmware	All	All	All	All
Hardware	Lenovo	V15 G2-itl	-	All	All	All
Operating System	Lenovo	V15 G2-itl Firmware	All	All	All	All
Hardware	Lenovo	V17-iil	-	All	All	All
Operating System	Lenovo	V17-iil Firmware	All	All	All	All
Hardware	Lenovo	V17 G2-itl	-	All	All	All
Operating System	Lenovo	V17 G2-itl Firmware	All	All	All	All
Hardware	Lenovo	V340-17iwl	-	All	All	All
Operating System	Lenovo	V340-17iwl Firmware	All	All	All	All
Hardware	Lenovo	Yoga 7-14acn6	-	All	All	All
Operating System	Lenovo	Yoga 7-14acn6 Firmware	All	All	All	All
Hardware	Lenovo	Yoga C740-14iml	-	All	All	All
Operating System	Lenovo	Yoga C740-14iml Firmware	All	All	All	All
Hardware	Lenovo	Yoga C740-15iml	-	All	All	All
Operating System	Lenovo	Yoga C740-15iml Firmware	All	All	All	All
Hardware	Lenovo	Yoga C940-14iil	-	All	All	All
Operating System	Lenovo	Yoga C940-14iil Firmware	-	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ach5	-	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ach5 D	-	All	All	All

Hardware	Lenovo	Yoga Slim 7 Pro-14ach5 D	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ach5 D Firmware	All	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ach5 Firmware	All	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ach5 O	-	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ach5 Od	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ach5 Od Firmware	All	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ach5 O Firmware	All	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14arh5	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14arh5 Firmware	All	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ihu5	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ihu5 Firmware	-	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14ihu5 O	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14ihu5 O Firmware	-	All	All	All
Hardware	Lenovo	Yoga Slim 7 Pro-14itl5	-	All	All	All
Operating System	Lenovo	Yoga Slim 7 Pro-14itl5 Firmware	-	All	All	All
Hardware	Lenovo	Yoga Slim 9-14itl05	-	All	All	All
Operating System	Lenovo	Yoga Slim 9-14itl05 Firmware	-	All	All	All

References

Reference	Source	Link	Tags
Lenovo Notebook BIOS Vulnerabilities - Lenovo Support US	MISC	support.lenovo.com	
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis

Vendor Comments And Credit

Discovery Credit

LEGACY: Lenovo thanks Martin Smolár from ESET for reporting this issue.

There are currently no legacy QID mappings associated with this CVE.

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