



# CVE-2020-8323

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

## Summary

<b>CVE</b>	CVE-2020-8323
<b>State</b>	PUBLIC
<b>Assigner</b>	psirt@lenovo.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2020-06-09 20:15:00 UTC
<b>Updated</b>	2020-06-22 13:11:00 UTC
<b>Description</b>	A potential vulnerability in the SMI callback function used in the Legacy SD driver in some Lenovo ThinkPad, ThinkStation,

## Risk And Classification

**Problem Types:** NVD-CWE-noinfo

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Lenovo</a>	14iwl	-	All	All	All
Hardware	<a href="#">Lenovo</a>	14iwl	-	All	All	All
Operating System	<a href="#">Lenovo</a>	14iwl Firmware	-	All	All	All
Operating System	<a href="#">Lenovo</a>	14iwl Firmware	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-14ast	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-14ast	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-14ast Firmware	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-14ast Firmware	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-15ast	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-15ast	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-15ast Firmware	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-15ast Firmware	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-17ast	-	All	All	All
Hardware	<a href="#">Lenovo</a>	330-17ast	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-17ast Firmware	-	All	All	All
Operating System	<a href="#">Lenovo</a>	330-17ast Firmware	-	All	All	All
Hardware	<a href="#">Lenovo</a>	340c-15api	-	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">340c-15api</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">340c-15api Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">340c-15api Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">340c-15ast</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">340c-15ast</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">340c-15ast Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">340c-15ast Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">6 Pro-13-iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">6 Pro-13-iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">6 Pro-13-iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">6 Pro-13-iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">6 Pro-14-iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">6 Pro-14-iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">6 Pro-14-iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">6 Pro-14-iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">720s-15ikb</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">720s-15ikb</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">720s-15ikb Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">720s-15ikb Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">720s Touch-15ikb</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">720s Touch-15ikb</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">720s Touch-15ikb Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">720s Touch-15ikb Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">730s-13iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">730s-13iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">730s-13iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">730s-13iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">C640-impl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">C640-impl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">C640-impl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">C640-impl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">E42-80</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">E42-80</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">E42-80 Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">E42-80 Firmware</a>	-	All	All	All

Hardware	Lenovo	E52-80	-	All	All	All
Hardware	Lenovo	E52-80	-	All	All	All
Operating System	Lenovo	E52-80 Firmware	-	All	All	All
Operating System	Lenovo	E52-80 Firmware	-	All	All	All
Hardware	Lenovo	E53-80	-	All	All	All
Hardware	Lenovo	E53-80	-	All	All	All
Operating System	Lenovo	E53-80 Firmware	-	All	All	All
Operating System	Lenovo	E53-80 Firmware	-	All	All	All
Hardware	Lenovo	K22-80	-	All	All	All
Hardware	Lenovo	K22-80	-	All	All	All
Operating System	Lenovo	K22-80 Firmware	-	All	All	All
Operating System	Lenovo	K22-80 Firmware	-	All	All	All
Hardware	Lenovo	K3	-	All	All	All
Hardware	Lenovo	K3	-	All	All	All
Hardware	Lenovo	K32-80 Kbl	-	All	All	All
Hardware	Lenovo	K32-80 Kbl	-	All	All	All
Operating System	Lenovo	K32-80 Kbl Firmware	-	All	All	All
Operating System	Lenovo	K32-80 Kbl Firmware	-	All	All	All
Hardware	Lenovo	K32-80 Skl	-	All	All	All
Hardware	Lenovo	K32-80 Skl	-	All	All	All
Operating System	Lenovo	K32-80 Skl Firmware	-	All	All	All
Operating System	Lenovo	K32-80 Skl Firmware	-	All	All	All
Operating System	Lenovo	K3 Firmware	-	All	All	All
Operating System	Lenovo	K3 Firmware	-	All	All	All
Hardware	Lenovo	K4-iwl	-	All	All	All
Hardware	Lenovo	K4-iwl	-	All	All	All
Operating System	Lenovo	K4-iwl Firmware	-	All	All	All
Operating System	Lenovo	K4-iwl Firmware	-	All	All	All
Hardware	Lenovo	Miix 720-12ikb	-	All	All	All
Hardware	Lenovo	Miix 720-12ikb	-	All	All	All
Operating System	Lenovo	Miix 720-12ikb Firmware	-	All	All	All
Operating System	Lenovo	Miix 720-12ikb Firmware	-	All	All	All
Hardware	Lenovo	S145-14api	-	All	All	All
Hardware	Lenovo	S145-14api	-	All	All	All
Operating System	Lenovo	S145-14api Firmware	-	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">S145-14api Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-14ast</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-14ast</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-14ast Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-14ast Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-15api</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-15api</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-15api Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-15api Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-15ast</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S145-15ast</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-15ast Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S145-15ast Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S540-13api</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S540-13api</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S540-13api Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S540-13api Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S750-iil</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S750-iil</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S750-iil Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S750-iil Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S940-14iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">S940-14iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S940-14iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">S940-14iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkbook 13s-iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkbook 13s-iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkbook 13s-iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkbook 13s-iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkbook 14s-iwl</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkbook 14s-iwl</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkbook 14s-iwl Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkbook 14s-iwl Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad 11e</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad 11e</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad 11e Firmware</a>	All	All	All	All

Operating System	Lenovo	Thinkpad 11e Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad 11e Yoga Gen 6	-	All	All	All
Hardware	Lenovo	Thinkpad 11e Yoga Gen 6	-	All	All	All
Operating System	Lenovo	Thinkpad 11e Yoga Gen 6 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad 11e Yoga Gen 6 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad 13	-	All	All	All
Hardware	Lenovo	Thinkpad 13	-	All	All	All
Hardware	Lenovo	Thinkpad 13 2nd Gen	-	All	All	All
Hardware	Lenovo	Thinkpad 13 2nd Gen	-	All	All	All
Operating System	Lenovo	Thinkpad 13 2nd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad 13 2nd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad 13 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad 13 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A275	-	All	All	All
Hardware	Lenovo	Thinkpad A275	-	All	All	All
Operating System	Lenovo	Thinkpad A275 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A275 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A285	-	All	All	All
Hardware	Lenovo	Thinkpad A285	-	All	All	All
Operating System	Lenovo	Thinkpad A285 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A285 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A475	-	All	All	All
Hardware	Lenovo	Thinkpad A475	-	All	All	All
Operating System	Lenovo	Thinkpad A475 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A475 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A485	-	All	All	All
Hardware	Lenovo	Thinkpad A485	-	All	All	All
Operating System	Lenovo	Thinkpad A485 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A485 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad E14	-	All	All	All
Hardware	Lenovo	Thinkpad E14	-	All	All	All
Operating System	Lenovo	Thinkpad E14 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad E14 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad E15	-	All	All	All
Hardware	Lenovo	Thinkpad E15	-	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E15 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E15 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E455</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E455</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E455 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E455 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E460</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E460</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E460 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E460 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E465</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E465</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E465 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E465 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E470</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E470</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E470 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E470 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E475</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E475</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E475 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E475 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s Firmware</a>	All	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E555</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E555</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E555 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E555 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560p</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560p</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560p Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560p Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E560 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E565</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E565</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E565 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E565 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E570</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E570</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E570 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E570 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E575</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E575</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E575 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E575 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E590</a>	-	All	All	All

Hardware	Lenovo	Thinkpad E590	-	All	All	All
Operating System	Lenovo	Thinkpad E590 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad E590 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad Helix	-	All	All	All
Hardware	Lenovo	Thinkpad Helix	-	All	All	All
Operating System	Lenovo	Thinkpad Helix Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad Helix Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L13	-	All	All	All
Hardware	Lenovo	Thinkpad L13	-	All	All	All
Operating System	Lenovo	Thinkpad L13 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L13 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L1415	-	All	All	All
Hardware	Lenovo	Thinkpad L1415	-	All	All	All
Operating System	Lenovo	Thinkpad L1415 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L1415 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L380	-	All	All	All
Hardware	Lenovo	Thinkpad L380	-	All	All	All
Operating System	Lenovo	Thinkpad L380 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L380 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L380 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad L380 Yoga	-	All	All	All
Operating System	Lenovo	Thinkpad L380 Yoga Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L380 Yoga Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L390 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad L390 Yoga	-	All	All	All
Operating System	Lenovo	Thinkpad L390 Yoga Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L390 Yoga Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L460	-	All	All	All
Hardware	Lenovo	Thinkpad L460	-	All	All	All
Operating System	Lenovo	Thinkpad L460 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L460 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad L470	-	All	All	All
Hardware	Lenovo	Thinkpad L470	-	All	All	All
Operating System	Lenovo	Thinkpad L470 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad L470 Firmware	All	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L490</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L560</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L560</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L560 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L560 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L570</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L570</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L570 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L570 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L590</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L590</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L590 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L590 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50s</a>	-	All	All	All

Hardware	Lenovo	Thinkpad P50s	-	All	All	All
Operating System	Lenovo	Thinkpad P50s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P50s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P50 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P50 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad P51	-	All	All	All
Hardware	Lenovo	Thinkpad P51	-	All	All	All
Hardware	Lenovo	Thinkpad P51s	-	All	All	All
Hardware	Lenovo	Thinkpad P51s	-	All	All	All
Operating System	Lenovo	Thinkpad P51s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P51s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P51 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P51 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad P52	-	All	All	All
Hardware	Lenovo	Thinkpad P52	-	All	All	All
Hardware	Lenovo	Thinkpad P52s	-	All	All	All
Hardware	Lenovo	Thinkpad P52s	-	All	All	All
Operating System	Lenovo	Thinkpad P52s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P52s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P52 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P52 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad P53	-	All	All	All
Hardware	Lenovo	Thinkpad P53	-	All	All	All
Hardware	Lenovo	Thinkpad P53s	-	All	All	All
Hardware	Lenovo	Thinkpad P53s	-	All	All	All
Operating System	Lenovo	Thinkpad P53s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P53s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P53 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P53 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad P70	-	All	All	All
Hardware	Lenovo	Thinkpad P70	-	All	All	All
Operating System	Lenovo	Thinkpad P70 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad P70 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad P71	-	All	All	All
Hardware	Lenovo	Thinkpad P71	-	All	All	All
Operating System	Lenovo	Thinkpad P71 Firmware	All	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R14</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R14</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R14 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R14 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga Vpro</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga Vpro</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 Yoga Vpro Firmware</a>	All	All	All	All

Operating System	Lenovo	Thinkpad S1 Yoga Vpro Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S2 Yoga 3rd Gen	-	All	All	All
Hardware	Lenovo	Thinkpad S2 Yoga 3rd Gen	-	All	All	All
Operating System	Lenovo	Thinkpad S2 Yoga 3rd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S2 Yoga 3rd Gen Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S2 Yoga 4th Gen	-	All	All	All
Hardware	Lenovo	Thinkpad S2 Yoga 4th Gen	-	All	All	All
Operating System	Lenovo	Thinkpad S2 Yoga 4th Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S2 Yoga 4th Gen Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S3	-	All	All	All
Hardware	Lenovo	Thinkpad S3	-	All	All	All
Hardware	Lenovo	Thinkpad S3 3rd Gen	-	All	All	All
Hardware	Lenovo	Thinkpad S3 3rd Gen	-	All	All	All
Operating System	Lenovo	Thinkpad S3 3rd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S3 3rd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S3 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S3 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S3 Gen 2	-	All	All	All
Hardware	Lenovo	Thinkpad S3 Gen 2	-	All	All	All
Operating System	Lenovo	Thinkpad S3 Gen 2 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S3 Gen 2 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S5	-	All	All	All
Hardware	Lenovo	Thinkpad S5	-	All	All	All
Hardware	Lenovo	Thinkpad S540	-	All	All	All
Hardware	Lenovo	Thinkpad S540	-	All	All	All
Operating System	Lenovo	Thinkpad S540 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S540 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S5 2nd Gen	-	All	All	All
Hardware	Lenovo	Thinkpad S5 2nd Gen	-	All	All	All
Operating System	Lenovo	Thinkpad S5 2nd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S5 2nd Gen Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S5 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S5 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad S5 Yoga 15	-	All	All	All
Hardware	Lenovo	Thinkpad S5 Yoga 15	-	All	All	All
Operating System	Lenovo	Thinkpad S5 Yoga 15 Firmware	All	All	All	All

Operating System	Lenovo	Thinkpad S5 Yoga 15 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad S5 Yoga 15 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T25	-	All	All	All
Hardware	Lenovo	Thinkpad T25	-	All	All	All
Operating System	Lenovo	Thinkpad T25 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T25 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T440	-	All	All	All
Hardware	Lenovo	Thinkpad T440	-	All	All	All
Hardware	Lenovo	Thinkpad T440p	-	All	All	All
Hardware	Lenovo	Thinkpad T440p	-	All	All	All
Operating System	Lenovo	Thinkpad T440p Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T440p Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T440s	-	All	All	All
Hardware	Lenovo	Thinkpad T440s	-	All	All	All
Operating System	Lenovo	Thinkpad T440s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T440s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T440 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T440 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T460	-	All	All	All
Hardware	Lenovo	Thinkpad T460	-	All	All	All
Hardware	Lenovo	Thinkpad T460p	-	All	All	All
Hardware	Lenovo	Thinkpad T460p	-	All	All	All
Operating System	Lenovo	Thinkpad T460p Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T460p Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T460s	-	All	All	All
Hardware	Lenovo	Thinkpad T460s	-	All	All	All
Operating System	Lenovo	Thinkpad T460s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T460s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T460 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T460 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T470	-	All	All	All
Hardware	Lenovo	Thinkpad T470	-	All	All	All
Hardware	Lenovo	Thinkpad T470p	-	All	All	All
Hardware	Lenovo	Thinkpad T470p	-	All	All	All
Operating System	Lenovo	Thinkpad T470p Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T470p Firmware	All	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T495 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T540</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T540</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T540p</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T540p</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T540p Firmware</a>	All	All	All	All

Operating System	Lenovo	Thinkpad T540p Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T540 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T540 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T550	-	All	All	All
Hardware	Lenovo	Thinkpad T550	-	All	All	All
Operating System	Lenovo	Thinkpad T550 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T550 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T560	-	All	All	All
Hardware	Lenovo	Thinkpad T560	-	All	All	All
Operating System	Lenovo	Thinkpad T560 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T560 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T570	-	All	All	All
Hardware	Lenovo	Thinkpad T570	-	All	All	All
Operating System	Lenovo	Thinkpad T570 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T570 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T580	-	All	All	All
Hardware	Lenovo	Thinkpad T580	-	All	All	All
Operating System	Lenovo	Thinkpad T580 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T580 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad T590	-	All	All	All
Hardware	Lenovo	Thinkpad T590	-	All	All	All
Operating System	Lenovo	Thinkpad T590 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad T590 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad W540	-	All	All	All
Hardware	Lenovo	Thinkpad W540	-	All	All	All
Operating System	Lenovo	Thinkpad W540 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad W540 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad W541	-	All	All	All
Hardware	Lenovo	Thinkpad W541	-	All	All	All
Operating System	Lenovo	Thinkpad W541 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad W541 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad W550s	-	All	All	All
Hardware	Lenovo	Thinkpad W550s	-	All	All	All
Operating System	Lenovo	Thinkpad W550s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad W550s Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X140e	-	All	All	All

Category	Manufacturer	Model	Version	Release Date	End of Support	End of Life
Hardware	Lenovo	Thinkpad X140e	-	All	All	All
Operating System	Lenovo	Thinkpad X140e Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X140e Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20ax	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20ax	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20ax Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20ax Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20bx	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20bx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20bx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20bx Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Yoga Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Yoga Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X240	-	All	All	All
Hardware	Lenovo	Thinkpad X240	-	All	All	All
Hardware	Lenovo	Thinkpad X240s	-	All	All	All
Hardware	Lenovo	Thinkpad X240s	-	All	All	All
Operating System	Lenovo	Thinkpad X240s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X240s Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X240 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X240 Firmware	All	All	All	All

Hardware	Lenovo	Thinkpad X250	-	All	All	All
Hardware	Lenovo	Thinkpad X250	-	All	All	All
Operating System	Lenovo	Thinkpad X250 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X250 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X260	-	All	All	All
Hardware	Lenovo	Thinkpad X260	-	All	All	All
Operating System	Lenovo	Thinkpad X260 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X260 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X270	-	All	All	All
Hardware	Lenovo	Thinkpad X270	-	All	All	All
Operating System	Lenovo	Thinkpad X270 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X270 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X280	-	All	All	All
Hardware	Lenovo	Thinkpad X280	-	All	All	All
Operating System	Lenovo	Thinkpad X280 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X280 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X380 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad X380 Yoga	-	All	All	All
Operating System	Lenovo	Thinkpad X380 Yoga Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X380 Yoga Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X390	-	All	All	All
Hardware	Lenovo	Thinkpad X390	-	All	All	All
Operating System	Lenovo	Thinkpad X390 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X390 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X390 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad X390 Yoga	-	All	All	All
Operating System	Lenovo	Thinkpad X390 Yoga Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X390 Yoga Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X395	-	All	All	All
Hardware	Lenovo	Thinkpad X395	-	All	All	All
Operating System	Lenovo	Thinkpad X395 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X395 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad Yoga 11e 3rd Gen	-	All	All	All
Hardware	Lenovo	Thinkpad Yoga 11e 3rd Gen	-	All	All	All
Operating System	Lenovo	Thinkpad Yoga 11e 3rd Gen Firmware	All	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 3rd Gen Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 4th Gen</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 4th Gen</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 4th Gen Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 4th Gen Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 5th Gen</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 5th Gen</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 5th Gen Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 5th Gen Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 20dx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 20dx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 20dx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 11e 20dx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 370</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 370</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 370 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 370 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-14ast</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-14ast</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-14ast Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-14ast Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-14ikb</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-14ikb</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-14ikb Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-14ikb Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-15ast</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V110-15ast</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-15ast Firmware</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V110-15ast Firmware</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V130-15igm</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">V130-15igm</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">V130-15igm Firmware</a>	-	All	All	All

Operating System	Lenovo	V130-15igm Firmware	-	All	All	All
Hardware	Lenovo	V130-15ikb	-	All	All	All
Hardware	Lenovo	V130-15ikb	-	All	All	All
Operating System	Lenovo	V130-15ikb Firmware	-	All	All	All
Operating System	Lenovo	V130-15ikb Firmware	-	All	All	All
Hardware	Lenovo	V310-15igm	-	All	All	All
Hardware	Lenovo	V310-15igm	-	All	All	All
Operating System	Lenovo	V310-15igm Firmware	-	All	All	All
Operating System	Lenovo	V310-15igm Firmware	-	All	All	All
Hardware	Lenovo	V330-15igm	-	All	All	All
Hardware	Lenovo	V330-15igm	-	All	All	All
Operating System	Lenovo	V330-15igm Firmware	-	All	All	All
Operating System	Lenovo	V330-15igm Firmware	-	All	All	All
Hardware	Lenovo	V330-15ikb	-	All	All	All
Hardware	Lenovo	V330-15ikb	-	All	All	All
Operating System	Lenovo	V330-15ikb Firmware	-	All	All	All
Operating System	Lenovo	V330-15ikb Firmware	-	All	All	All
Hardware	Lenovo	V330-15isk	-	All	All	All
Hardware	Lenovo	V330-15isk	-	All	All	All
Operating System	Lenovo	V330-15isk Firmware	-	All	All	All
Operating System	Lenovo	V330-15isk Firmware	-	All	All	All
Hardware	Lenovo	V340-iil	-	All	All	All
Hardware	Lenovo	V340-iil	-	All	All	All
Operating System	Lenovo	V340-iil Firmware	-	All	All	All
Operating System	Lenovo	V340-iil Firmware	-	All	All	All
Hardware	Lenovo	V340-impl	-	All	All	All
Hardware	Lenovo	V340-impl	-	All	All	All
Operating System	Lenovo	V340-impl Firmware	-	All	All	All
Operating System	Lenovo	V340-impl Firmware	-	All	All	All
Hardware	Lenovo	V540s-13	-	All	All	All
Hardware	Lenovo	V540s-13	-	All	All	All
Operating System	Lenovo	V540s-13 Firmware	-	All	All	All
Operating System	Lenovo	V540s-13 Firmware	-	All	All	All
Hardware	Lenovo	V720-12	-	All	All	All
Hardware	Lenovo	V720-12	-	All	All	All

Operating System	Lenovo	V720-12 Firmware	-	All	All	All
Operating System	Lenovo	V720-12 Firmware	-	All	All	All
Hardware	Lenovo	V730-13ikb	-	All	All	All
Hardware	Lenovo	V730-13ikb	-	All	All	All
Operating System	Lenovo	V730-13ikb Firmware	-	All	All	All
Operating System	Lenovo	V730-13ikb Firmware	-	All	All	All
Hardware	Lenovo	V730-13isk	-	All	All	All
Hardware	Lenovo	V730-13isk	-	All	All	All
Operating System	Lenovo	V730-13isk Firmware	-	All	All	All
Operating System	Lenovo	V730-13isk Firmware	-	All	All	All
Hardware	Lenovo	V730-15ikb	-	All	All	All
Hardware	Lenovo	V730-15ikb	-	All	All	All
Operating System	Lenovo	V730-15ikb Firmware	-	All	All	All
Operating System	Lenovo	V730-15ikb Firmware	-	All	All	All
Hardware	Lenovo	Wei5-15ikb	-	All	All	All
Hardware	Lenovo	Wei5-15ikb	-	All	All	All
Operating System	Lenovo	Wei5-15ikb Firmware	-	All	All	All
Operating System	Lenovo	Wei5-15ikb Firmware	-	All	All	All
Hardware	Lenovo	Xiaoxin 14-ast Qc 2019	-	All	All	All
Hardware	Lenovo	Xiaoxin 14-ast Qc 2019	-	All	All	All
Operating System	Lenovo	Xiaoxin 14-ast Qc 2019 Firmware	-	All	All	All
Operating System	Lenovo	Xiaoxin 14-ast Qc 2019 Firmware	-	All	All	All
Hardware	Lenovo	Xx-14api Qc 2019	-	All	All	All
Hardware	Lenovo	Xx-14api Qc 2019	-	All	All	All
Operating System	Lenovo	Xx-14api Qc 2019 Firmware	-	All	All	All
Operating System	Lenovo	Xx-14api Qc 2019 Firmware	-	All	All	All
Hardware	Lenovo	Yoga S730-13iwl	-	All	All	All
Hardware	Lenovo	Yoga S730-13iwl	-	All	All	All
Operating System	Lenovo	Yoga S730-13iwl Firmware	-	All	All	All
Operating System	Lenovo	Yoga S730-13iwl Firmware	-	All	All	All
Hardware	Lenovo	Yoga S940-14iwl	-	All	All	All
Hardware	Lenovo	Yoga S940-14iwl	-	All	All	All
Operating System	Lenovo	Yoga S940-14iwl Firmware	-	All	All	All
Operating System	Lenovo	Yoga S940-14iwl Firmware	-	All	All	All

Reference	Source	Link	Tags
Multi-vendor BIOS Security Vulnerabilities (June 2020) - US	MISC	<a href="https://support.lenovo.com">support.lenovo.com</a>	Vendor Advisory
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>	canonical, analysis

## Vendor Comments And Credit

### Discovery Credit

**LEGACY:** Lenovo thanks yngwei (@yngweijw), driedfish (@d3af1sh), and MengHao, Li of IIE VARAS

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

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