



CVE-2022-38773

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

Summary

CVE	CVE-2022-38773
State	PUBLIC
Assigner	productcert@siemens.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-01-10 12:15:00 UTC
Updated	2023-01-13 20:33:00 UTC
Description	Affected devices do not contain an Immutable Root of Trust in Hardware. With this the integrity of the code executed on the

Risk And Classification

Problem Types: NVD-CWE-Other

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Siemens	Simatic Drive Controller Cpu 1504d Tf	-	All	All	All
Operating System	Siemens	Simatic Drive Controller Cpu 1504d Tf Firmware	-	All	All	All
Hardware	Siemens	Simatic Drive Controller Cpu 1507d Tf	-	All	All	All
Operating System	Siemens	Simatic Drive Controller Cpu 1507d Tf Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1510sp-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1510sp-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1510sp F-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1510sp F-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1511-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1511-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1511c-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1511c-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1511f-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1511f-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1511t-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1511t-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1511tf-1 Pn	-	All	All	All

Operating System	Siemens	Simatic S7-1500 Cpu 1511tf-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1512c-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1512c-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1512sp-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1512sp-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1512sp F-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1512sp F-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1513-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1513-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1513f-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1513f-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1513pro-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1513pro-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1513pro F-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1513pro F-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1513r-1 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1513r-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1515-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1515-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1515f-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1515f-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1515r-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1515r-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1515t-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1515t-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1515tf-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1515tf-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1516-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1516f-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516f-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1516pro-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516pro-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1516pro F-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516pro F-2 Pn Firmware	-	All	All	All

Hardware	Siemens	Simatic S7-1500 Cpu 1516t-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516t-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1516tf-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1516tf-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1517-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1517-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1517f-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1517f-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1517h-3 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1517h-3 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1517t-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1517t-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1517tf-3 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1517tf-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518-4f Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518-4f Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518-4 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518-4 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518-4 Pn/dp Mfp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518-4 Pn/dp Mfp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518f-4 Pn/dp Mfp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518f-4 Pn/dp Mfp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518hf-4 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518hf-4 Pn Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518t-4 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518t-4 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518tf-4 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518tf-4 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu S7-1518-4 Pn/dp Odk	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu S7-1518-4 Pn/dp Odk Firmware	-	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu S7-1518f-4 Pn/dp Odk	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu S7-1518f-4 Pn/dp Odk Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1510sp-1 Pn	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1510sp-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1510sp-1 Pn Rail	-	All	All	All

Operating System	Siemens	Siplus Et 200sp Cpu 1510sp-1 Pn Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1510sp F-1 Pn	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1510sp F-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1510sp F-1 Pn Rail	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1510sp F-1 Pn Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1512sp-1 Pn	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1512sp-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1512sp-1 Pn Rail	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1512sp-1 Pn Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1512sp F-1 Pn	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1512sp F-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus Et 200sp Cpu 1512sp F-1 Pn Rail	-	All	All	All
Operating System	Siemens	Siplus Et 200sp Cpu 1512sp F-1 Pn Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1511-1 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1511-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1511-1 Pn T1 Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1511-1 Pn T1 Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1511-1 Pn Tx Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1511-1 Pn Tx Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1511f-1 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1511f-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1513-1 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1513-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1513f-1 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1513f-1 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn T2 Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1515f-2 Pn T2 Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1515r-2 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1515r-2 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1515r-2 Pn Tx Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1515r-2 Pn Tx Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp	-	All	All	All

Operating System	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp Tx Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1516-3 Pn/dp Tx Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1516f-3 Pn/dp	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1516f-3 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1516f-3 Pn/dp Rail	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1516f-3 Pn/dp Rail Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1517h-3 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1517h-3 Pn Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1518-4 Pn/dp	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1518-4 Pn/dp Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1518-4 Pn/dp Mfp	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1518-4 Pn/dp Mfp Firmware	-	All	All	All
Hardware	Siemens	Siplus S7-1500 Cpu 1518f-4 Pn/dp	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1518f-4 Pn/dp Firmware	-	All	All	All

References

Reference	Source	Link	Tags
cert-portal.siemens.com/productcert/pdf/ssa-482757.pdf	MISC	cert-portal.siemens.com	
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[591307](#) Siemens S7-1500 CPU devices Missing Immutable Root of Trust in Hardware Vulnerability (ICSA-23-012-08, SSA-482757)

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