



CVE-2023-28831

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

Summary

CVE	CVE-2023-28831
State	PUBLIC
Assigner	productcert@siemens.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-09-12 10:15:00 UTC
Updated	2023-12-12 12:15:00 UTC
Description	The OPC UA implementations (ANSI C and C++) in affected products contain an integer overflow vulnerability that could ca

Risk And Classification

Problem Types: CWE-190

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Siemens	Simatic Cloud Connect 7 Cc712	-	All	All	All
Operating System	Siemens	Simatic Cloud Connect 7 Cc712 Firmware	All	All	All	All
Hardware	Siemens	Simatic Cloud Connect 7 Cc716	-	All	All	All
Operating System	Siemens	Simatic Cloud Connect 7 Cc716 Firmware	All	All	All	All
Hardware	Siemens	Simatic Drive Controller Cpu 1504d Tf	-	All	All	All
Operating System	Siemens	Simatic Drive Controller Cpu 1504d Tf Firmware	All	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	All
Hardware	Siemens	Simatic Et 200sp Open Controller Cpu	-	All	All	All
Operating System	Siemens	Simatic Et 200sp Open Controller Cpu Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-1200 Cpu	-	All	All	All
Operating System	Siemens	Simatic S7-1200 Cpu Firmware	All	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	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	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	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	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	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	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	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	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	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	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	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	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	All
Hardware	Siemens	Simatic S7-1500 Cpu 1514sp-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1514sp-2 Pn Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1514spt-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1514spt-2 Pn Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1514spt F-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1514spt F-2 Pn Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-1500 Cpu 1514sp F-2 Pn	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1514sp F-2 Pn Firmware	All	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	All
Hardware	Siemens	Simatic S7-1500 Cpu 1518f-4 Pn/dp	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Cpu 1518f-4 Pn/dp Firmware	All	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	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	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	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	All

Operating System	Siemens	Simatic S7-1500 Cpu 1518t-4 Pn/dp Firmware	All	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	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	All
Hardware	Siemens	Simatic S7-1500 Et 200pro	-	All	All	All
Operating System	Siemens	Simatic S7-1500 Et 200pro Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-1500 Software Controller	v2	All	All	All
Hardware	Siemens	Simatic S7-1500 Software Controller	v3	All	All	All
Operating System	Siemens	Simatic S7-1500 Software Controller Firmware	All	All	All	All
Hardware	Siemens	Simatic S7-plcsim Advanced	-	All	All	All
Operating System	Siemens	Simatic S7-plcsim Advanced Firmware	All	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	All
Hardware	Siemens	Siplus S7-1500 Cpu 1518hf-4 Pn	-	All	All	All
Operating System	Siemens	Siplus S7-1500 Cpu 1518hf-4 Pn Firmware	All	All	All	All

REFERENCES

Reference	Source	Link	Tags
cert-portal.siemens.com/productcert/pdf/ssa-711309.pdf	MISC	cert-portal.siemens.com	
cert-portal.siemens.com/productcert/pdf/ssa-118850.pdf		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.

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

© [CVE.report](https://cve.report) 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](https://mitre.org) and the authoritative source of CVE content is [MITRE's CVE web site](https://mitre.org/cve). This site includes MITRE data granted under the following [license](https://mitre.org/licenses).

CVE.report and Source URL Uptime Status status.cve.report