

SSA-264815: Type Confusion Vulnerability in OpenSSL X.400 Address Processing in SIMATIC Products

Publication Date: 2023-08-08
 Last Update: 2023-12-12
 Current Version: V1.2
 CVSS v3.1 Base Score: 7.4

SUMMARY

Several SIMATIC products are affected by a type confusion vulnerability relating to OpenSSL X.400 address processing (CVE-2023-0286), as disclosed on 2023-02-07 at <https://www.openssl.org/news/secadv/20230207.txt>.

Siemens has released updates for several affected products and recommends to update to the latest versions. Siemens is preparing further updates and recommends specific countermeasures for products where updates are not, or not yet available.

AFFECTED PRODUCTS AND SOLUTION

Affected Product and Versions	Remediation
SIMATIC Drive Controller CPU 1504D TF (6ES7615-4DF10-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109773914/ See further recommendations from section Workarounds and Mitigations
SIMATIC Drive Controller CPU 1504D TF (6ES7615-4DF10-0AB0): All versions >= V3.0.1 < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109773914/ See further recommendations from section Workarounds and Mitigations
SIMATIC Drive Controller CPU 1507D TF (6ES7615-7DF10-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109773914/ See further recommendations from section Workarounds and Mitigations
SIMATIC Drive Controller CPU 1507D TF (6ES7615-7DF10-0AB0): All versions >= V3.0.1 < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109773914/ See further recommendations from section Workarounds and Mitigations
SIMATIC ET 200SP Open Controller CPU 1515SP PC2 (incl. SIPLUS variants): All versions < V21.9.7	Update to V21.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109759122/ See further recommendations from section Workarounds and Mitigations

SIMATIC ET 200SP Open Controller CPU 1515SP PC2 (incl. SIPLUS variants): All versions >= V30.0.0	Currently no fix is available See recommendations from section Workarounds and Mitigations
SIMATIC IPC DiagBase: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC IPC DiagMonitor: All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1200 CPU family (incl. SIPLUS variants): All versions	Currently no fix is available See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP F-1 PN (6ES7510-1SJ00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP F-1 PN (6ES7510-1SJ01-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP F-1 PN (6ES7510-1SK03-0AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP-1 PN (6ES7510-1DJ00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP-1 PN (6ES7510-1DJ01-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1510SP-1 PN (6ES7510-1DK03-0AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1511-1 PN (6ES7511-1AK00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations

<p>SIMATIC S7-1500 CPU 1511-1 PN (6ES7511-1AK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511-1 PN (6ES7511-1AK02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511-1 PN (6ES7511-1AL03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511C-1 PN (6ES7511-1CK00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511C-1 PN (6ES7511-1CK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511F-1 PN (6ES7511-1FK00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511F-1 PN (6ES7511-1FK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511F-1 PN (6ES7511-1FK02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511F-1 PN (6ES7511-1FL03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1511T-1 PN (6ES7511-1TK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511T-1 PN (6ES7511-1TL03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511TF-1 PN (6ES7511-1UK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1511TF-1 PN (6ES7511-1UL03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1512C-1 PN (6ES7512-1CK00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1512C-1 PN (6ES7512-1CK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1512SP F-1 PN (6ES7512-1SK00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1512SP F-1 PN (6ES7512-1SK01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1512SP F-1 PN (6ES7512-1SM03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

SIMATIC S7-1500 CPU 1512SP-1 PN (6ES7512-1DK00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1512SP-1 PN (6ES7512-1DK01-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1512SP-1 PN (6ES7512-1DM03-0AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513-1 PN (6ES7513-1AL00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513-1 PN (6ES7513-1AL01-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513-1 PN (6ES7513-1AL02-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513-1 PN (6ES7513-1AM03-0AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513F-1 PN (6ES7513-1FL00-0AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIMATIC S7-1500 CPU 1513F-1 PN (6ES7513-1FL01-0AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

<p>SIMATIC S7-1500 CPU 1513F-1 PN (6ES7513-1FL02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1513F-1 PN (6ES7513-1FM03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1513R-1 PN (6ES7513-1RL00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1513R-1 PN (6ES7513-1RM03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1514SP F-2 PN (6ES7514-2SN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1514SP-2 PN (6ES7514-2DN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1514SPT F-2 PN (6ES7514-2WN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1514SPT-2 PN (6ES7514-2VN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515-2 PN (6ES7515-2AM00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1515-2 PN (6ES7515-2AM01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515-2 PN (6ES7515-2AM02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515-2 PN (6ES7515-2AN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515F-2 PN (6ES7515-2FM00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515F-2 PN (6ES7515-2FM01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515F-2 PN (6ES7515-2FM02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515F-2 PN (6ES7515-2FN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515R-2 PN (6ES7515-2RM00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515R-2 PN (6ES7515-2RN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1515T-2 PN (6ES7515-2TM01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515T-2 PN (6ES7515-2TN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515TF-2 PN (6ES7515-2UM01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1515TF-2 PN (6ES7515-2UN03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516-3 PN/DP (6ES7516-3AN00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516-3 PN/DP (6ES7516-3AN01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516-3 PN/DP (6ES7516-3AN02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516-3 PN/DP (6ES7516-3AP03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516F-3 PN/DP (6ES7516-3FN00-0AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1516F-3 PN/DP (6ES7516-3FN01-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516F-3 PN/DP (6ES7516-3FN02-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516F-3 PN/DP (6ES7516-3FP03-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516T-3 PN/DP (6ES7516-3TN00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1516TF-3 PN/DP (6ES7516-3UN00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1517-3 PN/DP (6ES7517-3AP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1517F-3 PN/DP (6ES7517-3FP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1517H-3 PN (6ES7517-3HP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1517T-3 PN/DP (6ES7517-3TP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1517TF-3 PN/DP (6ES7517-3UP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518-4 PN/DP (6ES7518-4AP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518-4 PN/DP MFP (6ES7518-4AX00-1AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518F-4 PN/DP (6ES7518-4FP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP (6ES7518-4FX00-1AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518HF-4 PN (6ES7518-4JP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU 1518T-4 PN/DP (6ES7518-4TP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-1500 CPU 1518TF-4 PN/DP (6ES7518-4UP00-0AB0): All versions < V3.0.3</p>	<p>Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU S7-1518-4 PN/DP ODK (6ES7518-4AP00-3AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 CPU S7-1518F-4 PN/DP ODK (6ES7518-4FP00-3AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 ET 200pro: CPU 1513PRO F-2 PN (6ES7513-2GL00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 ET 200pro: CPU 1513PRO-2 PN (6ES7513-2PL00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 ET 200pro: CPU 1516PRO F-2 PN (6ES7516-2GN00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 ET 200pro: CPU 1516PRO-2 PN (6ES7516-2PN00-0AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 Software Controller V2: All versions < V21.9.7</p>	<p>Update to V21.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478528/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIMATIC S7-1500 Software Controller V3: All versions</p>	<p>Currently no fix is available See recommendations from section Workarounds and Mitigations</p>

<p>SIMATIC S7-PLCSIM Advanced: All versions < V6.0</p>	<p>Update to V6.0 or later version https://support.industry.siemens.com/cs/ww/en/view/109821388 See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP F-1 PN (6AG1510-1SJ01-2AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP F-1 PN RAIL (6AG2510-1SJ01-1AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP-1 PN (6AG1510-1DJ01-2AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP-1 PN (6AG1510-1DJ01-7AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP-1 PN RAIL (6AG2510-1DJ01-1AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1510SP-1 PN RAIL (6AG2510-1DJ01-4AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1512SP F-1 PN (6AG1512-1SK00-2AB0): All versions</p>	<p>Currently no fix is planned See recommendations from section Workarounds and Mitigations</p>
<p>SIPLUS ET 200SP CPU 1512SP F-1 PN (6AG1512-1SK01-2AB0): All versions < V2.9.7</p>	<p>Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations</p>

SIPLUS ET 200SP CPU 1512SP F-1 PN (6AG1512-1SK01-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP F-1 PN RAIL (6AG2512-1SK01-1AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP F-1 PN RAIL (6AG2512-1SK01-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP-1 PN (6AG1512-1DK01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP-1 PN (6AG1512-1DK01-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP-1 PN RAIL (6AG2512-1DK01-1AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS ET 200SP CPU 1512SP-1 PN RAIL (6AG2512-1DK01-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN (6AG1511-1AK00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN (6AG1511-1AK01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

SIPLUS S7-1500 CPU 1511-1 PN (6AG1511-1AK01-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN (6AG1511-1AK02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN (6AG1511-1AK02-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN T1 RAIL (6AG2511-1AK01-1AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN T1 RAIL (6AG2511-1AK02-1AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN TX RAIL (6AG2511-1AK01-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511-1 PN TX RAIL (6AG2511-1AK02-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511F-1 PN (6AG1511-1FK00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1511F-1 PN (6AG1511-1FK01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

SIPLUS S7-1500 CPU 1511F-1 PN (6AG1511-1FK02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513-1 PN (6AG1513-1AL00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513-1 PN (6AG1513-1AL01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513-1 PN (6AG1513-1AL01-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513-1 PN (6AG1513-1AL02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513-1 PN (6AG1513-1AL02-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513F-1 PN (6AG1513-1FL00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513F-1 PN (6AG1513-1FL01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1513F-1 PN (6AG1513-1FL02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

SIPLUS S7-1500 CPU 1515F-2 PN (6AG1515-2FM01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1515F-2 PN (6AG1515-2FM02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1515F-2 PN RAIL (6AG2515-2FM02-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1515F-2 PN T2 RAIL (6AG2515-2FM01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1515R-2 PN (6AG1515-2RM00-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1515R-2 PN TX RAIL (6AG2515-2RM00-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN00-7AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN01-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP (6AG1516-3AN02-7AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP RAIL (6AG2516-3AN02-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516-3 PN/DP TX RAIL (6AG2516-3AN01-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516F-3 PN/DP (6AG1516-3FN00-2AB0): All versions	Currently no fix is planned See recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516F-3 PN/DP (6AG1516-3FN01-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516F-3 PN/DP (6AG1516-3FN02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1516F-3 PN/DP RAIL (6AG2516-3FN02-2AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

SIPLUS S7-1500 CPU 1516F-3 PN/DP RAIL (6AG2516-3FN02-4AB0): All versions < V2.9.7	Update to V2.9.7 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1517H-3 PN (6AG1517-3HP00-4AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1518-4 PN/DP (6AG1518-4AP00-4AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1518-4 PN/DP MFP (6AG1518-4AX00-4AC0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1518F-4 PN/DP (6AG1518-4FP00-4AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations
SIPLUS S7-1500 CPU 1518HF-4 PN (6AG1518-4JP00-4AB0): All versions < V3.0.3	Update to V3.0.3 or later version https://support.industry.siemens.com/cs/ww/en/view/109478459/ See further recommendations from section Workarounds and Mitigations

WORKAROUNDS AND MITIGATIONS

Siemens has identified the following specific workarounds and mitigations that customers can apply to reduce the risk:

- Disable CRL (certification revocation list) checking, if possible

Product-specific remediations or mitigations can be found in the section [Affected Products and Solution](#). Please follow the [General Security Recommendations](#).

GENERAL SECURITY RECOMMENDATIONS

As a general security measure, Siemens strongly recommends to protect network access to devices with appropriate mechanisms. In order to operate the devices in a protected IT environment, Siemens recommends to configure the environment according to Siemens' operational guidelines for Industrial Security (Download: <https://www.siemens.com/cert/operational-guidelines-industrial-security>), and to follow the recommendations in the product manuals. Additional information on Industrial Security by Siemens can be found at: <https://www.siemens.com/industrialsecurity>

PRODUCT DESCRIPTION

SIMATIC Drive Controllers have been designed for the automation of production machines, combining the functionality of a SIMATIC S7-1500 CPU and a SINAMICS S120 drive control.

SIMATIC ET 200SP Open Controller is a PC-based version of the SIMATIC S7-1500 Controller including optional visualization in combination with central I/Os in a compact device.

SIMATIC IPC DiagBase diagnostics software allows to recognize early on any potential faults on SIMATIC IPCs and helps to avoid or reduce system downtimes.

SIMATIC IPC DiagMonitor monitors, reports, visualizes and logs the system states of the SIMATIC IPCs. It communicates with other systems and reacts when events occur.

SIMATIC S7-1200 CPU products have been designed for discrete and continuous control in industrial environments such as manufacturing, food and beverages, and chemical industries worldwide.

SIMATIC S7-1500 CPU products have been designed for discrete and continuous control in industrial environments such as manufacturing, food and beverages, and chemical industries worldwide.

SIMATIC S7-1500 ODK CPUs provide functionality of standard S7-1500 CPUs but additionally provide the possibility to run C/C++ Code within the CPU-Runtime for execution of own functions / algorithms implemented in C/C++. They have been designed for discrete and continuous control in industrial environments such as manufacturing, food and beverages, and chemical industries worldwide.

SIMATIC S7-1500 Software Controller is a SIMATIC software controller for PC-based automation solutions.

SIMATIC S7-PLCSIM Advanced simulates S7-1200, S7-1500 and a few other PLC derivatives. Includes full network access to simulate the PLCs, even in virtualized environments.

VULNERABILITY CLASSIFICATION

The vulnerability classification has been performed by using the CVSS scoring system in version 3.1 (CVSS v3.1) (<https://www.first.org/cvss/>). The CVSS environmental score is specific to the customer's environment and will impact the overall CVSS score. The environmental score should therefore be individually defined by the customer to accomplish final scoring.

An additional classification has been performed using the CWE classification, a community-developed list of common software security weaknesses. This serves as a common language and as a baseline for weakness identification, mitigation, and prevention efforts. A detailed list of CWE classes can be found at: <https://cwe.mitre.org/>.

Vulnerability CVE-2023-0286

There is a type confusion vulnerability relating to X.400 address processing inside an X.509 GeneralName. X.400 addresses were parsed as an ASN1_STRING but the public structure definition for GENERAL_NAME incorrectly specified the type of the x400Address field as ASN1_TYPE. This field is subsequently interpreted by the OpenSSL function GENERAL_NAME_cmp as an ASN1_TYPE rather than an ASN1_STRING. When CRL checking is enabled (i.e. the application sets the X509_V_FLAG_CRL_CHECK flag), this vulnerability may allow an attacker to pass arbitrary pointers to a memcmp call, enabling them to read memory contents or enact a denial of service. In most cases, the attack requires the attacker to provide both the certificate chain and CRL, neither of which need to have a valid signature. If the attacker only controls one of these inputs, the other input must already contain an X.400 address as a CRL distribution point, which is uncommon. As such, this vulnerability is most likely to only affect applications which have implemented their own functionality for retrieving CRLs over a network.

CVSS v3.1 Base Score 7.4
CVSS Vector [CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:H/E:U/RL:O/RC:C](#)
CWE CWE-20: Improper Input Validation

ADDITIONAL INFORMATION

Refer to the OpenSSL advisory (<https://www.openssl.org/news/secadv/20230207.txt>) for further details regarding the vulnerability CVE-2023-0286.

For further inquiries on security vulnerabilities in Siemens products and solutions, please contact the Siemens ProductCERT:

<https://www.siemens.com/cert/advisories>

HISTORY DATA

V1.0 (2023-08-08): Publication Date
V1.1 (2023-09-12): Clarified SIMATIC ET 200SP Open Controller versions and added fix for SIMATIC ET 200SP Open Controller CPU 1515SP PC2 (incl. SIPLUS variants); Clarified SIMATIC S7-1500 Software Controller versions and added fix for SIMATIC S7-1500 Software Controller V2
V1.2 (2023-12-12): Clarified that no fix is planned for SIMATIC IPC DiagBase and SIMATIC IPC DiagMonitor; Added fix for SIMATIC S7-PLCSIM Advanced

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