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04 August 2021 300518567

# Security Advisory for PHOENIX CONTACT products utilizing **WIBU SYSTEMS CodeMeter components**

#### **Advisory Title**

Denial of Service vulnerabilities in WIBU SYSTEMS CodeMeter

#### **Advisory ID**

CVE-2021-20093 CVE-2021-20094 VDE-2021-036

#### **Vulnerability Description**

CVE-2021-20093: CodeMeter Runtime Network Server: Heap Leak and Denial of Service The vulnerability affects the TCP/IP communication of CodeMeter License Server. Sending manipulated packets can cause CodeMeter License Server to crash or read data from heap memory (CWE-126).

CVE-2021-20094: CodeMeter Runtime CmWAN Server: Denial of Service (DoS) The vulnerability affects communication with the CodeMeter CmWAN server. Sending special HTTP(S) requests to the CmWAN server can cause the CodeMeter License Server to crash. The CmWAN server is disabled by default (CWE-126).



#### **Affected products**

Article no	Article	Affected versions
	Activation Wizard	1.4 and earlier
1046008	PC Worx Engineer	2021.06 and earlier
1165889	PLCNEXT ENGINEER EDU LIC	2021.06 and earlier
	(License codes)	
2702889	FL Network Manager	5.0 and earlier
1153509,1153513,	E-Mobility Charging Suite license codes	1.7.3 and earlier
1086929,1153516,	for EV Charging Suite Setup	
1086891,1153508,		
1153520,1086921,		
1086889,1086920		
1083065	IOL-CONF	1.7.0 and earlier

#### **Impact**

An attacker may use the above-described vulnerabilities to perform a Denial of Service attack. Phoenix Contact devices using CodeMeter embedded are not affected by these vulnerabilities.

## **Classification of Vulnerability**

CVE-2021-20093: Base Score: 9.1

Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:H

For details, please refer to WIBU Security Advisory WIBU-210423-01

CVE-2021-20094: Base Score: 7.5

Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

For details, please refer to WIBU Security Advisory WIBU-210423-02

#### **Temporary Fix / Mitigation**

- 1. Use general security best practices to protect systems from local and network attacks like described in the application node <u>AH EN INDUSTRIAL SECURITY</u>.
- Run CodeMeter as client only and use localhost as binding for the CodeMeter communication. With binding to localhost an attack is no longer possible via remote network connection. The network server is disabled by default. If it is not possible to disable the network server, using a host-based firewall to restrict access to the CmLAN port can reduce the risk.
- 3. The CmWAN server is disabled by default. Please check if CmWAN is enabled and disable the feature if it is not needed.
- 4. Run the CmWAN server only behind a reverse proxy with user authentication to prevent attacks from unauthenticated users. The risk of an unauthenticated attacker can be further reduced by using a host-based firewall that only allows the reverse proxy to access the

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CmWAN port.

### **Remediation**

PHOENIX CONTACT strongly recommends affected Users to upgrade to Codemeter V7.21a, which fixes these vulnerabilities. Wibu-Systems has already published this update for CodeMeter on their homepage. Since this current version of CodeMeter V7.21a has not yet been incorporated into Phoenix Contact products, we strongly recommend to download and install the current CodeMeter version directly from the <a href="Wibu-Systems homepage">Wibu-Systems homepage</a>.

#### **Acknowledgement**

This vulnerability was discovered and reported to WIBU Systems by Tenable. We kindly appreciate the coordinated disclosure of this vulnerability by the finder.

PHOENIX CONTACT thanks CERT@VDE for the coordination and support with this publication.