SECURITY LICENSING PERFECTION IN PROTECTION



2021-06-10 Version 1.3

Security Advisory WIBU-210423-02

Vulnerability Title

CodeMeter Runtime CmWAN Server: Denial of Service (DoS)

Vulnerability description

An attacker could send a specially crafted packet to the CodeMeter Runtime CmWAN server to cause a Denial of Service.

CVE: CVE-2021-20094CVSS v3.1 base score: 7.5

• CVSS v3.1 vector string: <u>AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H</u>

Vulnerability type: CWE-126

Vulnerability details

An attacker could send a specially crafted HTTP(S) request to the CodeMeter Runtime CmWAN server that causes CodeMeter Runtime Server (i.e., CodeMeter.exe) to crash.

The recommended/standard setup is to run a CodeMeter Runtime CmWAN server only behind a reverse proxy with TLS and user authentication. If this is the case and the attacker is not on the same network as the CmWAN server, the attack is only possible for authenticated users.

If the attacker is on the same network as the CmWAN server, an unauthenticated user can perform the attack. This is only the case if the attacker can access the CmWAN port directly (default port 22351)

Affected products

Product name	Affected versions	Fixed versions
CodeMeter Runtime	All versions	7.21a

Mitigation for affected versions

- The CmWAN server is disabled by default. Please check if CmWAN is enabled and disable the feature if it is not needed.
- 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 CmWAN port.

General security best practices can help to protect systems from local and network attacks.

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Acknowledgments

We thank Tenable, Inc. for reporting this vulnerability following coordinated disclosure.

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Document History

Version	Date	Description
1.0	2021-04-29	TLP:RED draft
1.1	2021-05-06	Integrated review feedback
1.2	2021-06-09	TLP:AMBER with restriction
1.3	2021-06-10	Final public version