## **SECURITY** LICENSING PERFECTION IN PROTECTION



2020-09-04 Version 1.1

## Security Advisory WIBU-200521-04

#### **Vulnerability Title**

CodeMeter Runtime API: Inadequate Encryption Strength and Authentication

#### **Vulnerability description**

Protocol encryption can be broken and the server accepts external connections, which may allow an attacker to remotely communicate with the CodeMeter API.

CVE: CVE-2020-14517 CVSS v3.1 base score: 9.4

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

Vulnerability type: CWE-326

#### **Vulnerability details**

This is related to the communication with the CodeMeter service if the CodeMeter API is used. The CodeMeter Runtime API Protocol does not support authentication and the encryption can be broken. This allows an attacker to execute any CodeMeter API remotely, if the CodeMeter Runtime is running as server. There is no possibility to securely store a secret on the client side to improve the encryption of the public CodeMeter API.

### **Affected products**

Product name	Affected versions	Fixed versions
CodeMeter Runtime	All versions	See mitigations

#### **Mitigation for affected versions**

- Use CodeMeter Runtime 7.10a. This will remove the remote attack vector.
- For versions prior to 7.10a 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.
- If CodeMeter Runtime is required to run as network server use the CodeMeter License Access Permissions feature to restrict the usage of CodeMeter API.

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

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We thank Sharon Brizinov and Tal Keren of Claroty for reporting this vulnerability following coordinated disclosure.

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#### **Document History**

Version	Date	Description
1.0	2020-08-14	Draft version
1.1	2020-09-04	Final version