

2020-09-04

Version 1.1

Security Advisory WIBU-200521-06

Vulnerability Title

Improper Signature Verification of Update Files in CodeMeter Runtime.

Vulnerability description

There is an issue in the license-file signature checking mechanism, which allows attackers to build arbitrary license files, including forging a valid license file as if it were a valid license file of an existing vendor. Only CmActLicense Update Files with CmActLicense Firm Codes are affected.

- CVE: CVE-2020-14515
- CVSS v3.1 base score: 7.4
- CVSS v3.1 vector string: [AV:L/AC:H/PR:N/UI:R/S:C/C:N/I:H/A:H](#)
- Vulnerability type: CWE-347

Vulnerability details

Due to improper signature verification on processing Update Files (.WibuCmRaU) containing a CmActLicense Firm Code an attacker can modify existing license files and even build one themselves.

This affects CmActLicense Firm Codes (Firm Code 5,xxx,xxx).

Not affected are CmDongle Firm Codes (Firm Code 1xx,xxx) and Universal Firm Codes (Firm Code 6,xxx,xxx).

Affected products

Product name	Affected versions	Fixed versions
CodeMeter Runtime	All versions prior to 6.90	CodeMeter Runtime 6.90 or newer.

Mitigation for affected versions

In the case the CodeMeter Runtime cannot be updated to version 6.90, no specific workarounds are available.

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

Acknowledgments

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