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VDE-CERT

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TRUMPF products prone to multiple WIBU CodeMeter vulnerabilities (VDE-2024-001)

CVE Identifier

CVE-2023-38545
CVE-2023-24540

Severity

[CVE-2023-38545: up to 9.8 \(CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H\)](#)
[CVE-2023-24540: 9.8 \(CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H\)](#)

Affected Vendors

TRUMPF Werkzeugmaschinen
TRUMPF Laser- und Systemtechnik

Affected Products

- TecZoneBend V18.02.R8 ≤ V23.11
- TruTopsBoost V06.00.23.00 ≤ V16.0.24
- TruTopsFab (inkl. TruTops Monitor) V15.00.23.00 ≤ V22.8.25
- Oseon V1.0.0 ≤ V3.0.24
- TruTopsPrint V00.06.00 ≤ V7.7.5
- TruTopsPrintMultilaserAssistant ≤ V2.1.1
- TruTopsCalculate V14.00 ≤ V23.00.00
- TruTops V08.00 ≤ V12.01.00.00
- TubeDesign V08.00 ≤ V14.11.199
- ProgrammingTube V1.0.1 ≤ V4.11.0
- TruTopsWeld V7.0.198.241 ≤ V9.0.28148.1

Managing Board:
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- TruTops Cell SW48 V01.00 ≤ V02.32.12
- TruTops Cell Classic ≤ V09.09.02
- TruTops Mark 3D V01.00 ≤ V06.2
- MonitoringAnalyzer V1.0 ≤ V1.3.8
- Tops Unfold V05.03.00.00
- TruTopsFab_Storage_SmallStore V14.06.20 ≤ V20.04.20.00
- TrumpfLicenseExpert V1.5.2 ≤ V2.0.0

Vulnerability Type

OUT-OF-BOUNDS-WRITE (CWE-787), IMPROPER NEUTRALIZATION OF SPECIAL ELEMENTS IN OUTPUT USED BY A DOWNSTREAM COMPONENT ('INJECTION') (CWE-74)

Summary

The TRUMPF CAD/CAM software tools mentioned above use the vulnerable CodeMeter Runtime (up to version 7.60d) application from WIBU-SYSTEMS AG to manage licenses within the component TRUMPF License Expert. This CodeMeter application contains new vulnerabilities, which may enable an attacker to gain full access to the server or workstation on which the TRUMPF License Expert has been installed on. A new version of the TRUMPF License Expert which fixes these vulnerabilities is available.

Impact

CVE-2023-24540: According to WIBU, there are no attack vectors for this vulnerability known, so it is said to be not exploitable at present.

Solution

Mitigation:

- CVE-2023-38545 only appears when used together with a SOCKS-5 Proxy. Not using the affected products via a SOCKS-5 proxy mitigates the vulnerability.

Remediation:

- Get the latest version of the TRUMPF License Expert software (\geq V2.1.0) [here](#) and install it on all affected servers and workstations.

Reported by

WIBU-SYSTEMS AG