PACT*ware* Consortium e.V.

Cyber Security Notification
PACT*ware*-Vulnerability may allow any program execution

PACT*ware* Document Reference Number
PWC-VD-2021-01

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2021-01-11

Overview
The software product PACT*ware* is a manufacturer and fieldbus-independent operating software for all field devices and protocols.
PACT*ware* Consortium e. V. is aware of a vulnerability in the PACT*ware* Software product.

Affected products
PACT*ware* 5.0 versions: PACT*ware* 5.0.5.31 and lower.

Vulnerabilities Details

CVE Identifier
CVE-2020-12525 (CVE: Common Vulnerabilities and Exposures)

Severity
Identifier: CVE-2020-12525
Base Score and Vector: 7.3 (AV:L/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H/E:P/RL:T/RC:C)

Vulnerability Type
Deserialization of untrusted data (CWE-502)

Summary
Critical vulnerability is been discovered in the utilized **'fdtCONTAINER component'** by M&M Software GmbH used by PACT*ware*.

While deserializing PACT*ware* 5 project files (loading PACT*ware* 5 files) the referenced vulnerability may take effect.

Impact

Remote attackers may exploit the vulnerability to execute any program and tap information.

For more information see advisory by M&M Software GmbH document *'SAV-0001': Deserialization of untrusted data in fdtCONTAINER component and fdtCONTAINER application.* -> [Product Security Incident Response | M&M Software GmbH (mm-software.com)](https://www.mm-software.com)

Solution

Solution will be provided with PACT*ware* 6 in Q2 2021 which has integrated the proposed solution by M&M based on *fdtCONTAINER component* version >= 3.6.20304.x

In the meantime, it is sufficient to follow the common handling of files from unknown or untrusted source.

Mitigation:
1. Exchange project data only via secure exchange services.
2. Use appropriate means to protect storage from unauthorized manipulation.
3. Do not open project data from unknown source.

Update to PACT*ware* Version 6, when available.

Afterwards we still recommend handling files from unknown or untrusted source with care.

Reported by

M&M Software GmbH

Support

For support and service, please contact info@pactware.com or the responsible PACT*ware* member of your distribution.