

16 July 2020
300481631/pbsa56

Security Advisory for PLCNEXT ENGINEER

Advisory Title

Improper path sanitation on import of project files in PLCnext Engineer.

Advisory ID

CVE-2020-12499
VDE-2020-025

Vulnerability Description

The build settings of a PLCnext Engineer project (.pcwex) can be manipulated in a way that can result in the execution of remote code.

The attacker needs to get access to a PLCnext Engineer project to be able to manipulate files inside. Additionally, the files of the remote code need to be transferred to a location which can be accessed by the PC that runs PLCnext Engineer. When PLCnext Engineer runs a build process of the manipulated project the remote code can be executed.

Affected products

Article no	Article	Affected versions	Download
1046008	PLCnext Engineer	2020.3.1 and earlier	download

Impact

Availability, integrity, or confidentiality of an engineering workstation might be compromised by attacks using these vulnerabilities.

Classification of Vulnerability

Base Score: 8.2

Vector: CVSS:3.0/AV:L/AC:L/PR:L/UI:R/S:C/C:H/I:H/A:H

Temporary Fix / Mitigation

We strongly recommend customers to exchange project files only using secure file exchange services. Project files should not be exchanged via unencrypted email. Users should avoid importing project files from unknown source and exchange or store project files together with a checksum to ensure their integrity.

Remediation

Phoenix Contact strongly recommends updating to the latest version PLCnext Engineer 2020.6 or higher, which fixes this vulnerability.

Acknowledgement

This vulnerability was discovered and reported by Amir Preminger of Claroty.

We kindly appreciate the coordinated disclosure of this vulnerability by the finder.