

## **SSA-923361: MODEL File Parsing Vulnerability in Tecnomatix Plant Simulation before V2302.0011**

Publication Date: 2024-05-14  
Last Update: 2024-05-14  
Current Version: V1.0  
CVSS v3.1 Base Score: 7.8  
CVSS v4.0 Base Score: 7.3

### **SUMMARY**

Tecnomatix Plant Simulation contains an out of bounds write vulnerability that could be triggered when the application reads MODEL files. If a user is tricked to open a malicious file using the affected application, this could lead to a crash, and potentially also to arbitrary code execution on the target host system.

Siemens has released a new version for Tecnomatix Plant Simulation V2302 and recommends to update to the latest version.

### **AFFECTED PRODUCTS AND SOLUTION**

<b>Affected Product and Versions</b>	<b>Remediation</b>
Tecnomatix Plant Simulation V2302: All versions < V2302.0011 affected by <a href="#">all CVEs</a>	Update to V2302.0011 or later version <a href="https://support.sw.siemens.com/">https://support.sw.siemens.com/</a> See further recommendations from section <a href="#">Workarounds and Mitigations</a>

### **WORKAROUNDS AND MITIGATIONS**

Siemens has identified the following specific workarounds and mitigations that customers can apply to reduce the risk:

- Do not open untrusted MODEL files from unknown sources

Product-specific remediations or mitigations can be found in the section [Affected Products and Solution](#). Please follow the [General Security Recommendations](#).

### **GENERAL SECURITY RECOMMENDATIONS**

As a general security measure, Siemens strongly recommends to protect network access to devices with appropriate mechanisms. In order to operate the devices in a protected IT environment, Siemens recommends to configure the environment according to Siemens' operational guidelines for Industrial Security (Download: <https://www.siemens.com/cert/operational-guidelines-industrial-security>), and to follow the recommendations in the product manuals. Additional information on Industrial Security by Siemens can be found at: <https://www.siemens.com/industrialsecurity>

## **PRODUCT DESCRIPTION**

Tecnomatix Plant Simulation allows you to model, simulate, explore and optimize logistics systems and their processes. These models enable analysis of material flow, resource utilization and logistics for all levels of manufacturing planning from global production facilities to local plants and specific lines, well in advance of production execution.

## **VULNERABILITY DESCRIPTION**

This chapter describes all vulnerabilities (CVE-IDs) addressed in this security advisory. Wherever applicable, it also documents the product-specific impact of the individual vulnerabilities.

### **Vulnerability CVE-2024-32639**

The affected application contains an out of bounds write past the end of an allocated buffer while parsing a specially crafted MODEL file. This could allow an attacker to execute code in the context of the current process. (ZDI-CAN-22974)

CVSS v3.1 Base Score	7.8
CVSS Vector	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
CVSS v4.0 Base Score	7.3
CVSS Vector	CVSS:4.0/AV:L/AC:H/AT:N/PR:N/UI:P/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N
CWE	CWE-787: Out-of-bounds Write

## **ACKNOWLEDGMENTS**

Siemens thanks the following party for its efforts:

- Trend Micro Zero Day Initiative for coordinated disclosure

## **ADDITIONAL INFORMATION**

For further inquiries on security vulnerabilities in Siemens products and solutions, please contact the Siemens ProductCERT:

<https://www.siemens.com/cert/advisories>

## **HISTORY DATA**

V1.0 (2024-05-14): Publication Date

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