Yokogawa Security Advisory Report

YSAR-20-0002

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YSAR-20-0002: Vulnerability in WideField3

Overview:
A vulnerability has been found in FA-M3 Programming Tool WideField3 (hereinafter referred to as "WideFiled3"). Review the report and confirm which products are affected to implement security measures for the overall systems. Please consider applying the countermeasures as needed.

Affected Products:
• WideFieled3 R1.01 - R4.03

Vulnerability:
The following vulnerability have been found in WideField3.

• Buffer Copy without Checking Size of Input ('Classic Buffer Overflow') CWE-120
CVE-2020-16232
CVSS v3 Base score: 2.8
CVSS:3.0/AV:L/AC:L/PR:L/UI:R/S:U/C:N/I:N/A:L
This vulnerability could allow an attacker to cause a buffer overflow by loading malicious projects and terminate the application abnormally.

Countermeasures:
Please confirm the countermeasure below.

Products	Affected Revisions	Countermeasures
WideField3	R1.01 - R4.03	Please consider the revision up to the latest revision (R4.04). This vulnerability has been fixed in R4.04.

Supports:
For questions related to this report, please contact the below.
https://www.yokogawa.com/solutions/products-platforms/control-system/programmable-logic-controllers-plc-pac/
> Contact Us

ACKNOWLEDGMENTS:
Yokogawa sincerely thanks the following party.
Parity Dynamics

Reference:
Common Vulnerability Scoring System (CVSS)
https://www.first.org/cvss/
CVSS is a common language for scoring IT vulnerabilities independent from any vendors. It provides an open framework for communicating the characteristics and impacts of IT vulnerabilities, scaling it in numeric scores.

The CVSS scores described in this report are provided “AS IS.” Yokogawa has no guarantee over the scores, and the severity caused by the vulnerabilities have to be judged by the users considering the security measures equipped with the overall systems.

Revision History:

Sep 25, 2020: 1st Edition

* Contents of this report are subject to change without notice.