

# Denial-of-Service (DoS) Vulnerability and Arbitrary Command Execution Vulnerability due to OpenSSL Vulnerabilities in Multiple FA Products

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Mitsubishi Electric Corporation

## ■ Overview

Denial-of-service(DoS) vulnerability and arbitrary command execution vulnerability due to OpenSSL vulnerabilities exist in multiple Mitsubishi Electric FA Products. An attacker could cause denial-of-service (DoS) condition or execute arbitrary malicious commands by sending a specially crafted packet. (CVE-2022-0778, CVE-2022-1292)

## ■ CVSS

CVE-2022-0778 CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score:7.5  
CVE-2022-1292 CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H Base Score:9.8

## ■ Affected products

Affected products and versions are below.

Product	Affected software version
GT SoftGOT2000	1.275M

[How to check the version in use]

1. Run GT SoftGOT2000.
2. From the Help menu, select [About GT SoftGOT2000...].
3. Check the version on "About GT SoftGOT2000" window (see Figure 1).

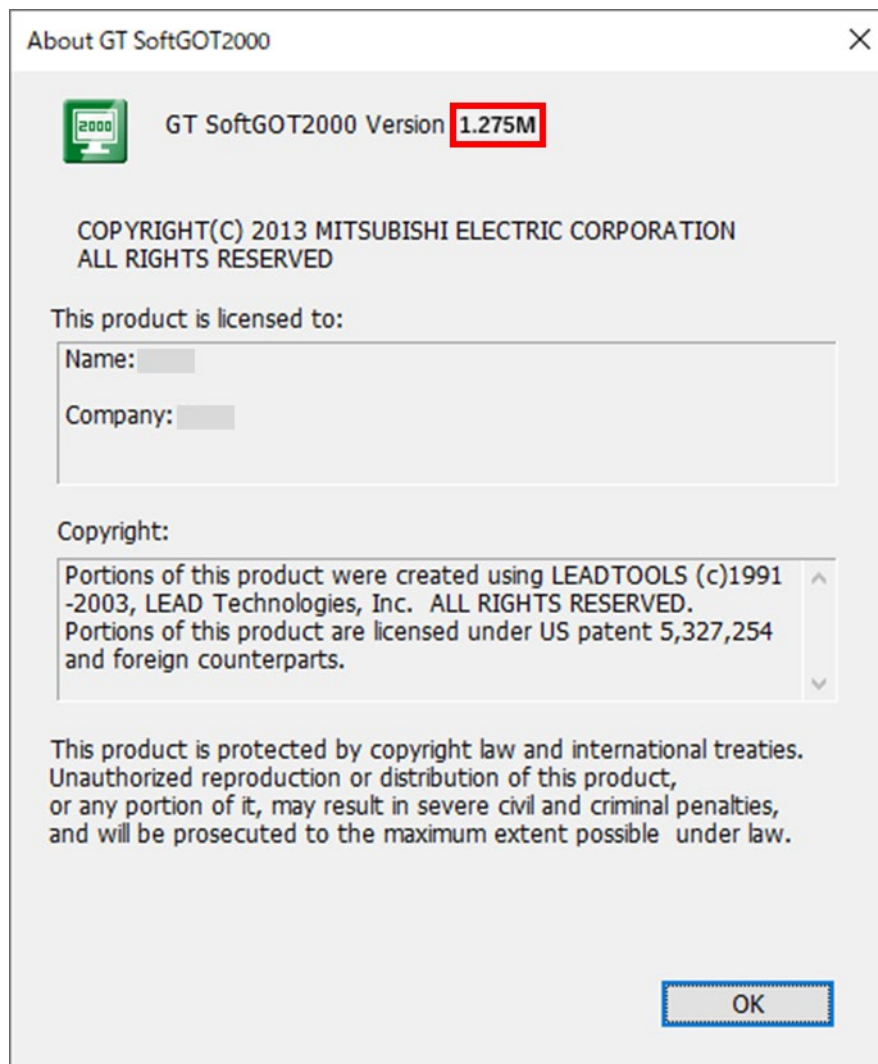


Figure 1 GT SoftGOT2000 version information view

## ■Description

Denial-of-service(DoS) vulnerability (CVE-2022-0778) and arbitrary command execution vulnerability (CVE-2022-1292) exist in multiple Mitsubishi Electric FA Products due to the following vulnerabilities in OpenSSL.

- CVE-2022-0778: Loop with Unreachable Exit Condition ('Infinite Loop') (CWE-835)
- CVE-2022-1292: Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection') (CWE-78)

## ■Impact

The vulnerabilities could allow an attacker to cause a denial-of-service (DoS) condition or execute arbitrary malicious commands by sending specially crafted packets.

## ■Countermeasures

Please update to the fixed versions by following the steps below.

### [Fixed versions]

Product	Fixed software version
GT SoftGOT2000	1.280S or later

### [Update steps]

1. Please contact your local Mitsubishi Electric representative to obtain the fixed version of GT SoftGOT2000 and install it on a personal computer. For detailed installation procedures, please refer to "GT SoftGOT2000 Version1 Operation Manual (SH-081201ENG)".
2. Refer to the <How to check the version in use> to check that the software has been updated to the fixed versions.

## ■Mitigations

Mitsubishi Electric recommends that customers take the following mitigations to minimize the risk of exploiting these vulnerabilities:

- When Internet access is required, use a virtual private network (VPN) or other means to prevent unauthorized access.
- Use the products within a LAN and block access from untrusted networks and hosts.
- Update the OPC UA server to the latest version.
- Install antivirus software on your computer with the products installed.
- Restrict physical access to your computer with the products installed and network equipment on the same network.

## ■Contact information

Please contact your local Mitsubishi Electric representative.

< Inquiries | MITSUBISHI ELECTRIC FA >

<https://www.mitsubishielectric.com/fa/support/index.html>