

Malicious Code Execution Vulnerability in Setting and Operation Application for Lighting Control System MILCO.S

Release date: November 18, 2025
Last update date: November 27, 2025
Mitsubishi Electric Corporation

Overview

Malicious code execution vulnerability via DLL hijacking exists in setting and operation application for lighting control system MILCO.S. A local attacker may be able to execute malicious code by having installer to load a malicious DLL. (CVE-2025-10089)

Please note that this vulnerability only affects when the installer is run, not after installation.

If you download directly from our company website and install the affected product, there is no risk of malicious code being introduced. However, please be careful of websites spoofing of our website.

CVSS¹

CVE-2025-10089 CVSS:v3.1/AV:L/AC:H/PR:N/UI:R/S:C/C:H/I:H/A:H Base Score:7.7

Affected products

The affected products and versions are as follows.

Product name	Version
MILCO.S Setting Application	All versions For information on how to check whether your application is a fixed one, please refer to the note below this table.
MILCO.S Setting Application (IR)	
MILCO.S Easy Setting Application (IR)	
MILCO.S Easy Switch Application (IR)	

* Please follow the steps below to check whether your application is a fixed one:

1. In File Explorer, open the installation folder for the setting and operation application (C:/Program Files(x86)/MILIE/MILCO.S).
2. Open the properties for the file "MILCO.S Lighting Control.exe".
3. On the "Digital Signatures" tab, if the signer name "Mitsubishi Electric Lighting" appears, the application has been fixed (refer to Figure 1).

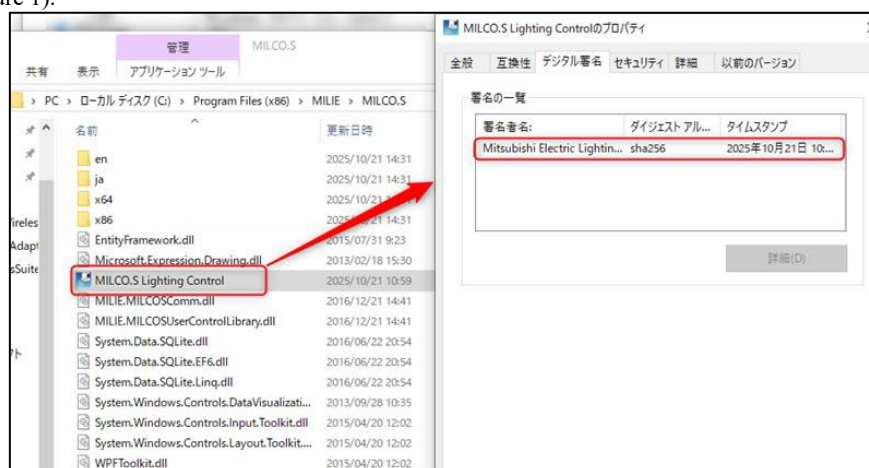


Figure 1. Signer information for a fixed application

Description

Malicious code execution vulnerability via DLL hijacking due to Uncontrolled Search Path Element (CWE-427²) exists in setting and operation application for lighting control system MILCO.S.

Impact

A local attacker may be able to execute malicious code by having installer to load a malicious DLL.

Countermeasures

Please download and install the fixed application from the following site.

https://www.mitsubishielectric.co.jp/ldg/ja/lighting/guide/support/download/detail_01.html (In Japanese)

Mitigations / Workarounds

For customers who are unable to update the affected product immediately, Mitsubishi Electric recommends that customers take the following mitigation measures to minimize the risk of exploiting this vulnerability:

- Restrict physical access to the computer on which the product is to be installed.
- Install an antivirus software in the computer using the affected product.

¹ <https://www.first.org/cvss/v3.1/specification-document>

² <https://cwe.mitre.org/data/definitions/427.html>

- Do not open untrusted files or click untrusted links.
- Do not run the installer obtained from sources other than our company website. When downloading from our website, please be careful of websites spoofing of our website.
- Before running the installer, make sure that no DLL exists in the folder containing the installer executable file for the product as described in 1 and 2 below.

1. Setting and Operation Application

Please make sure that there are no files other than the installer EXE in the folder where you extracted the downloaded files, then proceed with the installation (refer to Figure 2).

名前	更新日時	種類	サイズ
MILCO_IR_Adapter_installer_32bit	2025/08/18 16:33	ファイル フォルダー	
MILCO_IR_Adapter_installer_64bit	2025/08/18 16:33	ファイル フォルダー	
MILCO.S_Wireless_setup_ver1.14.exe	2025/08/18 16:33	アプリケーション	7,409 KB

Figure 2. Folder Structure of the Extracted Setting and Operation Application

2. IR Adapter Driver

There are both 64-bit and 32-bit versions of the IR adapter driver; the folder and file names differ depending on which version you are using.

•For the 64-bit version:

Please make sure that no files other than the four files shown in the Figure 3 exist in the MILCO_IR_Adapter_installer_64bit subfolder under the folder where the downloaded file was extracted, and then proceed with the installation. (refer to Figure 3)

名前	更新日時	種類	サイズ
dpinst.xml	2025/08/18 16:33	Microsoft Edge H...	1 KB
dpinst_64bit.exe	2025/08/18 16:33	アプリケーション	1,016 KB
MILCO_IR_Adapter.inf	2025/08/18 16:33	セットアップ情報	2 KB
milco_ir_adapter_amd64.cat	2025/08/18 16:33	セキュリティ カタログ	10 KB

Figure 3,Folder Structure of the IR adapter driver

•For the 32-bit version:

Please check the MILCO_IR_Adapter_installer_32bit subfolder under the folder where the downloaded file was extracted . Replace “64” with “32” in the file names shown in Figure 3, and make sure that no files other than the four files shown in the figure exist, and then proceed with the installation.

Acknowledgement

Mitsubishi Electric would like to thank Kazuma Matsumoto of GMO Cybersecurity by Ierae, Inc. who reported this vulnerability.

Contact information

Lighting Technical Support Center - Customer Support Unit

Mitsubishi Electric Lighting Corporation

TEL: +81-120-348-027

Reception Hours: JST, Monday - Friday 09:00 - 12:00 and 13:00 - 17:00

(Closed on Japanese public holidays and company holidays)

Update history

November 27,2025

CVSS have been revised.