Multiple Vulnerabilities in Edgecross Basic Software for Windows

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Last update date: December 8, 2023
Edgecross Consortium

■Overview

Vulnerabilities related to service denial (DoS) and information leakage have been discovered in versions 1.00 and later of Edgecross Basic Software for Windows. Attackers can exploit these vulnerabilities by exporting manipulated configuration files or sending manipulated packets, leading to service disruption (DoS) or information leakage.

The affected versions of Edgecross Basic Software for Windows, which are susceptible to these vulnerabilities, are listed below. Please implement the measures described in the mitigation steps for the respective product.

■CVSS

CVE-2023-0286	CVSS v3.1 AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:H Base Score:7.4
CVE-2022-4304	CVSS v3.1 AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N Base Score:5.9
CVE-2018-25032	CVSS v3.1 AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score:7.5

■Affected products

The affected products are as follows:

・CVE-2023-0286

Products	Type	Version
Edgecross Basic Software for Windows	ECP-BS1-W	1.10～1.28
Edgecross Basic Software for Developers	ECP-BS1-W-D	1.10～1.28

・CVE-2022-4304

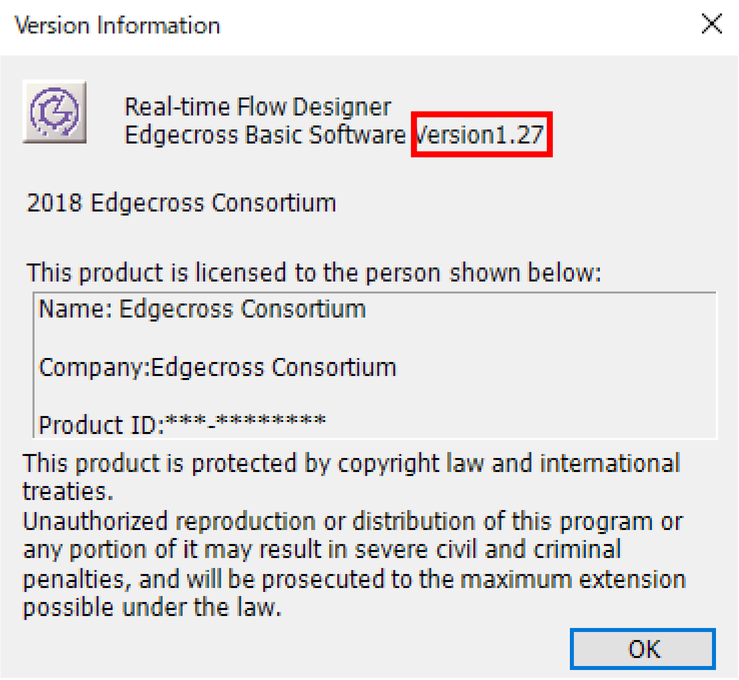
Products	Type	Version
Edgecross Basic Software for Windows	ECP-BS1-W	1.00～1.28
Edgecross Basic Software for Developers	ECP-BS1-W-D	1.00～1.28

・CVE-2018-25032

Products	Type	Version
Edgecross Basic Software for Windows	ECP-BS1-W	1.20～1.28
Edgecross Basic Software for Developers	ECP-BS1-W-D	1.20～1.28

Here's how to comfirm the version number you're using:

1. Launch the Real-time Flow Designer of Edgecross Basic Software for Windows by selecting "Version Information" from the "Help" menu.
2. The version number of the running Edgecross Basic Software for Windows can be found in the following section of the displayed window. (Refer to Figure 1)



Version Information

Real-time Flow Designer
Edgecross Basic Software Version1.27

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This product is licensed to the person shown below:

Name: Edgecross Consortium

Company:Edgecross Consortium

Product ID:***-*********

This product is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program or any portion of it may result in severe civil and criminal penalties, and will be prosecuted to the maximum extension possible under the law.

Figure 1: Edgecross Basic Software for Windows Version Information Screen (Real-time Flow Designer)

■Description

Due to the following issues, there is a possibility of the affected product experiencing service disruption (DoS) or information leakage.

- CVE-2023-0286: Access of Resource Using Incompatible Type ('Type Confusion') (CWE-843)
- CVE-2022-4304: Observable Timing Discrepancy (CWE-208)
- CVE-2018-25032: Out-of-bounds Write (CWE-787)

■Impact

An attacker can cause the product to go out of service (DoS) or leak information.

■Countermeasures

Please contact the support desk below by email and download and update Edgecross basic software version 1.29 or later.

<Recipient email address> cc-support@edgecross.org
<Subject> "Edgecross basic software 1.29 version upgrade request"

- Please write your company name, name, and user ID in the body of the message.
- If you do not know your user ID, please indicate so.

※Prior user registration is required to download.
For inquiries about user registration, please contact the following email address.
email:user.registration@edgecross.org

■Mitigations

For customers who are unable to update their products immediately, we recommend that you take the following mitigations to minimize the risk of these vulnerabilities being exploited:

- When connecting the product to the Internet, use a virtual private network to prevent unauthorized access.
- Please use the product within a LAN and block communication with untrusted networks and hosts using a firewall.
- Restrict physical access to computers and network devices used with the product.
- When importing configuration files into the management shell, use trusted configuration files.

■Contact information

Please contact the receptionist below for any questions.
email:PSIRT@edgecross.or