



# WHITEPAPER ON ICONICS SUITE (V10) SECURITY VULNERABILITIES – APRIL 7, 2026



**MITSUBISHI ELECTRIC  
ICONICS DIGITAL SOLUTIONS, INC.**

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# 1 Overview

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Mitsubishi Electric Iconics Digital Solutions takes extraordinary efforts in testing and validating all software before it is released. Unfortunately, we have had instances where external researchers have discovered vulnerabilities in our products. Mitsubishi Electric Iconics Digital Solutions takes such issues very seriously. All such vulnerabilities are documented, assigned to engineering teams for investigation and validation, and addressed as quickly as reasonably possible. Once fully tested, software updates for the current release and, in some cases, past releases, are posted to the company's Community Portal. Information on the updates is provided on the following website:

[Security at ICONICS | ICONICS Software Solutions](#)

Mitsubishi Electric Iconics Digital Solutions coordinates with the US government's Cybersecurity & Infrastructure Security Agency (CISA), as well as its parent company, Mitsubishi Electric, on these issues. The following table is a summary of what updates or patched files are necessary to bring the given version as up to date as possible with regards to protecting the system against the vulnerabilities described in this document.

<b>ICONICS software version</b>	<b>Is not subject to these vulnerabilities...</b>	<b>...After applying this update pack or these patch files...</b>	<b>...With this date/version or later</b>
10.98	Up to and including section 31	None required	
10.97.3	Up to and including section 26, plus 29	10.97.3 Critical Fixes Rollup	Rollup 1
10.97.2	Up to and including section 20, plus section 26	10.97.2 Critical Fixes Rollup	Rollup 3
10.97.1	Up to and including section 21, plus section 26	10.97.1 Critical Fixes Rollup	Rollup 4
10.97	Up to and including section 21, plus sections 26, 30	10.97 Critical Fixes Rollup	Rollup 4
10.96.2	Up to and including section 21	10.96.2 Critical Fixes Rollup	Rollup 3
10.96.1	Up to and including section 21 except section 9, plus sections 26 and 30	10.96.1 Critical Fixes Rollup	Rollup 4
10.96	Up to and including section 21 except sections 9 and 11, plus sections 26 and 30	10.96 Critical Fixes Rollup	Rollup 6



10.51	Up to and including section 3, plus sections 12, 13, 15, 20, 21, 26, and 30	10.51 Hot Fix Pack	Hot Fix Pack 1
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Mitsubishi Electric Iconics Digital Solutions recommends that users of its products (ICONICS Suite, GENESIS64™, Hyper Historian™, AnalytiX®, and MobileHMI™) take the following steps to prevent potential cybersecurity vulnerabilities:

- Use a firewall. Place control system networks, devices, and SCADA system components behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Use a VPN for remote access to control system devices.

#### Acronyms and Terms used in this document:

<b>Term</b>	<b>Definition</b>
CISA	Cybersecurity & Infrastructure Security Agency
CSV	Comma Separated Variable
CVE	Common Vulnerabilities and Exposures
CVSS	Common Vulnerability Scoring System
CWE	Common Weakness Enumeration
DCOM	Distributed Component Object Model
DoS	Denial of Service
HTTP	Hypertext Transfer Protocol
ICSA	Industrial Control Systems Advisory
IIS	Internet Information Services
MIME	Multipurpose Internet Mail Extensions
NIST	National Institute of Standards and Technology
OPC	Open Platform Communications
OPC UA	Open Platform Communications Unified Architecture
SDK	Software Development Kit
SQL	Structured Query Language
TCP	Transmission Control Protocol
UI	User Interface
WCF	Windows Communications Foundation
XSS	Cross-site Scripting

## 2 GenBroker Buffer Overflow (ICS-CERT ALERT 11-080-02)

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**2.1 Date:** May 2011

### 2.2 Issue – Discussion

On March 21, 2011, US-CERT informed Mitsubishi Electric Iconics Digital Solutions of a researcher's claim of a potential vulnerability in the GenBroker component in the ICONICS' GENESIS32™ and GENESIS64 products.

Mitsubishi Electric Iconics Digital Solutions validated the researcher's claims for the 9.21 and 10.51 versions and has released downloadable patches, as well as the steps listed below, to further mitigate the vulnerabilities. The patches for 9.21 and 10.51 can be downloaded at the Mitsubishi Electric Iconics Digital Solutions Support website.

### 2.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product and Component	Version	Security Impact	Severity Rating
GenBroker64 contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>• GENESIS64</li><li>• Hyper Historian</li><li>• AnalytiX</li><li>• MobileHMI</li></ul>	All versions up to and including 10.51	Denial of Service, Possible remote code execution	High

### 2.4 Impact

A successful exploit of the GenBroker (buffer overflow or memory corruption) vulnerability could allow a denial of service (DoS) or arbitrary code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of these vulnerabilities based on their environment, architecture, and product implementation.

### 2.5 Vulnerability

The vulnerability discovered exists in GenBroker: an OPC-based communications program that runs as a service as part of the GENESIS32, BizViz, and GENESIS64 products. The service utilizes TCP Port 38080 as part of its normal communications. It is vulnerable to invalid and unintended messages directed to the port, receipt of which can cause buffer overflow or memory corruption, either of which can result in a denial of service and/or a GenBroker crash. This vulnerability is remotely exploitable and exploit code has been released.

EXPLOITABILITY: This vulnerability is remotely exploitable.

EXISTENCE OF EXPLOIT: Exploit code specifically targeting this vulnerability has been released.

DIFFICULTY:

An attacker would require at least an advanced skill level to exploit these vulnerabilities. The Denial-of-Service vulnerability exploit would require development of a malicious application with access to TCP port 38080 on the server machine running GenBroker and an understanding of the protocol used

on that port. The malicious application would need to send an invalid and specifically targeted message that overflows the internal buffer or frees initialized memory pointers.

## 2.6 Mitigation

GENESIS64 version 10.6 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Restrict access to TCP Port 38080. If remote access is required, utilize secure methods such as Virtual Private Networks (VPNs).
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

ICONICS Software Version	Reference ID	Update / File(s) needed	File Version
10.51	15184	10.51 Hot Fix Pack 1	N/A

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber Security with Defense-in-Depth Strategies.

### 3 SafeNet Licensing Driver (ICS-CERT Advisory 11-108-01)

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**3.1 Date:** May 2011

#### 3.2 Issue – Discussion

This vulnerability exists in the SafeNet Sentinel Protection Server v7.3.3, a third-party software component executing the Sentinel License key function, and utilized in the GENESIS32, GENESIS64 and BizViz products. This version of the SafeNet Sentinel Protection Server utilizes a “hidden” web service running on port TCP/6002. This service is classified as “hidden” due to the fact that it does not easily expose itself when the Windows Firewall is enabled.

Additional information on this vulnerability can be found in the NIST National Vulnerability Database (CVE-2007-6483), where it is revealed that versions 7.0.0 through 7.4.0 were vulnerable to a directory traversal attack, allowing unrestricted access to a large portion of the file system, compromising data integrity and access to key files.

#### 3.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	Severity Rating
GENESIS64, Hyper Historian	All versions up to and including 10.51	Directory Transversal	Medium

#### 3.4 Impact

A successful exploit of the Licensing (directory traversal) vulnerability could allow access to a portion of the file system, compromising data integrity and access to key files. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of these vulnerabilities based on their environment, architecture, and product implementation.

#### 3.5 Vulnerability

This vulnerability exists in the SafeNet Sentinel Protection Server v7.3.3, a third-party software component executing the Sentinel License key function and utilized in Mitsubishi Electric Iconics Digital Solutions GENESIS32, GENESIS64 and BizViz products. This version of the SafeNet Sentinel Protection Server utilizes a “hidden” web service running on port TCP/6002. This service is classified as “hidden” due to the fact that it does not easily expose itself when the Windows Firewall is enabled.

Additional information on this vulnerability can be found in the NIST National Vulnerability Database (CVE-2007-6483), where it is revealed that versions 7.0.0 through 7.4.0 were vulnerable to a directory traversal attack, allowing unrestricted access to a large portion of the file system, compromising data integrity and access to key files.

EXPLOITABILITY: These vulnerabilities are remotely exploitable.

EXISTENCE OF EXPLOIT: Exploit code specifically targeting this vulnerability has been released.

DIFFICULTY:

An attacker would require at least an advanced skill level to exploit these vulnerabilities. An exploit of the license key vulnerability would require an attacker to develop a specially crafted message and send this message to the SafeNet Sentinel License Monitor server port (6002/TCP).

### 3.6 Mitigation

GENESIS64 version 10.6 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Restrict access to TCP Port 6002. If remote access is required, utilize secure methods such as Virtual Private Networks (VPNs).
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch.

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) needed	File Version
10.51	15533	10.51 Hot Fix Pack 1	N/A

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber Security with Defense-in-Depth Strategies.

## 4 GenBroker Out-of-Bounds (ICSA-20-170-03)

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**4.1 Date:** June 2020

### 4.2 Issue – Discussion

On January 21, 2020, researchers Tobias Scharnowski, Niklas Breinfeld, and Ali Abbasi reported a potential security vulnerability in the GENESIS64 GenBroker64 module. Mitsubishi Electric Iconics Digital Solutions validated the researcher’s claims that GenBroker64 is susceptible to an Out of Bounds condition which, if exploited, can result in remote code execution. Mitsubishi Electric Iconics Digital Solutions has released a set of downloadable patches for this vulnerability, as well as steps listed below to mitigate this vulnerability. Patches are available for several versions of GENESIS64 and for GENESIS32, which also has this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions website, [Security at ICONICS | ICONICS Software Solutions](#).

### 4.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GenBroker64 contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>• GENESIS64</li><li>• Hyper Historian</li><li>• AnalytiX</li><li>• MobileHMI</li></ul>	All versions up to and including 10.96	Out of Bounds Write, Possible remote code execution	8.1	787 - Out-of-bounds Write	CVE-2020-12007

### 4.4 Impact

A successful exploit of GenBroker64 can potentially result in remote code execution.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 4.5 Vulnerability

Exploitation of the GenBroker64 vulnerability requires creation of a specially crafted communication packet which must be sent to GenBroker’s IP Address and Port Number.

**EXPLOITABILITY:** This vulnerability is remotely exploitable.

**EXISTENCE OF EXPLOIT:** There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

**DIFFICULTY:**

An attacker would need a very high skill level to be able to exploit this vulnerability. It requires determining the Out of Bounds condition that GenBroker is vulnerable to and requires crafting of a special communications packet to take advantage of it.

## 4.6 Mitigation

ICONICS Suite version 10.96.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) needed	File Version / Date Created
10.96	74209	10.96 Critical Fixes Rollup 1	N/A
10.95.5	74379	GenBroker64.exe	10.95.207.0 – 5/7/2020
10.95.2	74378	GenBroker64.exe	10.95.200.0 – 3/27/2020

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber Security with Defense-in-Depth Strategies.

## 5 FWX Server Faulty String Deserialization (ICSA-20-170-03)

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**5.1 Date:** June 2020

### 5.2 Issue – Discussion

On January 21, 2020, Yehuda Anikster of Claroty Research reported a potential security vulnerability in GENESIS64 which can result in a Denial of Service (DoS). Mitsubishi Electric Iconics Digital Solutions validated the researcher’s claim that GENESIS64 has a flawed deserialization algorithm that, if exploited, makes GENESIS64 susceptible to a DoS attack.

Mitsubishi Electric Iconics Digital Solutions has released a set of downloadable patches for this vulnerability, as well as steps listed below to mitigate this vulnerability. Patches are available for several versions of GENESIS64 for this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions website, [Security at ICONICS | ICONICS Software Solutions](#)

### 5.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Platform Services contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>GENESIS64</li><li>Hyper Historian</li><li>AnalytiX</li><li>MobileHMI</li></ul>	All versions up to and including 10.96	Denial of Service	7.5	502 – Deserialization of Untrusted Data	CVE-2020-12009

### 5.4 Impact

A successful exploit of this deserialization issue can potentially result in a crash of the software and denial of service. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 5.5 Vulnerability

Exploitation of this deserialization issue requires creation of a specially crafted communication packet which must be sent to the GENESIS64 Platform Services.

EXPLOITABILITY: This vulnerability is remotely exploitable.

EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

DIFFICULTY:

An attacker would need a moderately high skill level to be able to exploit this vulnerability. It requires determining the deserialization issue and requires crafting of a special communications packet to take advantage of it.

## 5.6 Mitigation

ICONICS Suite version 10.96.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed	File Version – Date Created
10.96	74206	10.96 Critical Fixes Rollup 1	N/A
10.95.5	74388	FwxAsyncCore.dll	10.95.207.0 – 5/7/2020
10.95.2	74387	FwxAsyncCore.dll	10.95.200.0 – 3/27/2020

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers.

Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber Security with Defense-in-Depth Strategies.

## 6 Security not enforced on Project Files (ICS-CERT Advisory ICSA-20-170-03)

**6.1 Date:** June 2020

### 6.2 Issue – Discussion

On January 21, 2020, researchers Pedro Ribeiro and Radek Domanski of Flashback reported a potential security vulnerability in GENESIS64 Workbench which can result in Remote Code Execution if exploited. Mitsubishi Electric Iconics Digital Solutions validated the researcher’s claim that GENESIS64 Workbench was not enforcing security on certain project files and that, if exploited, made GENESIS64 susceptible to a remote code execution attack.

Mitsubishi Electric Iconics Digital Solutions has released a set of downloadable patches for this vulnerability, as well as steps listed below to mitigate this vulnerability. Patches are available for several versions of GENESIS64 for this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions website, [Security at ICONICS | ICONICS Software Solutions](http://iconics.com/cert)<http://iconics.com/cert>.

### 6.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected:

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Workbench contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>• GENESIS64</li><li>• Hyper Historian</li><li>• AnalytiX</li><li>• MobileHMI</li></ul>	All versions up to and including 10.96	Possible Remote Code Execution	7.5	502 – Deserialization of Untrusted Data	CVE-2020-12011

### 6.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 6.5 Vulnerability

Exploitation of this deserialization issue requires creation of a specially crafted package file for the GENESIS64 Workbench Pack-and-Go function.

**EXPLOITABILITY:** This vulnerability is remotely exploitable.

**EXISTENCE OF EXPLOIT:**

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

**DIFFICULTY:**

An attacker would need a moderate skill level to be able to exploit this vulnerability. It requires knowledge of the GENESIS64 Workbench package file format and requires the crafting of a special package to take advantage of it.

## 6.6 Mitigation

ICONICS Suite version 10.96.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed	File Version – Date Created
10.96	74154	10.96 Critical Fixes Rollup 1	N/A
10.95.5	74391	IcoWorkbenchPackAndGo.dll	10.95.207.00 – 5/7/2020
10.95.2	74390	IcoWorkbenchPackAndGo.dll	10.95.200.00 – 3/27/2020

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber Security with Defense-in-Depth Strategies.

## 7 Missing Security on Procedures & Datasets (ICS-CERT Advisory ICSA-20-170-03)

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**7.1 Date:** June 2020

### 7.2 Issue – Discussion

On January 22, 2020, researcher Ben McBride of Oak Ridge National Laboratory reported a potential security vulnerability in GENESIS64 10.95 which can result in information disclosure if exploited. Mitsubishi Electric Iconics Digital Solutions validated the researcher's claim that in GENESIS64 10.95, the GridWorX Server function can be abused to exfiltrate the contents of a database, modify data, and, in some configurations, execute commands. It should be noted this vulnerability does not exist in the latest version of GENESIS64 (10.96).

Mitsubishi Electric Iconics Digital Solutions has released a set of downloadable patches for this vulnerability, as well as steps listed below to mitigate this vulnerability. Patches are available for several versions of GENESIS64 for this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions website, [Security at ICONICS | ICONICS Software Solutions](#).

### 7.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Platform Services contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>GENESIS64</li><li>Hyper Historian</li><li>AnalytiX</li><li>MobileHMI</li></ul>	All versions up to and including 10.95.5	Information Disclosure Possible Execution of Commands, depending on system setup	9.4	94 – Improper Control of Generation of Code	CVE-2020-12013

### 7.4 Impact

A successful exploit of this vulnerability can potentially result in information disclosure, modify data, and possible execution of commands, depending on how the system is set up.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 7.5 Vulnerability

Exploitation of this security issue requires creation of a custom WCF client that interfaces to the GridWorX point manager and the execution of certain arbitrary SQL commands remotely.

EXPLOITABILITY: This vulnerability is remotely exploitable.

EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

DIFFICULTY:

An attacker would need a moderate skill level to be able to exploit this vulnerability. It requires understanding of certain GENESIS64 GridWorX methods and the ability to develop a custom WCF client that can take advantage of the vulnerability.

## 7.6 Mitigation

version 10.96.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch (see table below).
- Reduce the database permissions for the user account running the Mitsubishi Electric Iconics Digital Solutions GridWorX Point Manager to the minimal set necessary to perform the required functionality. If no database access is required from GENESIS64 it is recommended to disable the service.

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed	File Version – Date Created
10.96	74210	10.96 Critical Fixes Rollup 1	N/A
10.95.5	74382	FwxAsyncCore.dll	10.95.207.0 – 5/7/2020
10.95.2	74381	FwxServerCore.dll, FwxAsyncCore.dll	10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 8 FWX Server Deserialization (ICS-CERT Advisory ICSA-20-170-03)

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**8.1 Date:** June 2020

### 8.2 Issue – Discussion

On January 21, 2020, researchers Steven Seeley and Chris Anastasio of Incite reported a potential security vulnerability in GENESIS64 which can result in Remote Code Execution, if exploited. Mitsubishi Electric Iconics Digital Solutions validated the researcher’s claim that a deserialization issue in GENESIS64 FrameWorX Server could, if exploited, make GENESIS64 susceptible to a remote code execution attack.

Mitsubishi Electric Iconics Digital Solutions has released a set of downloadable patches for this vulnerability, as well as steps listed below to mitigate this vulnerability. Patches are available for several versions of GENESIS64 for this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions website, [Security at ICONICS | ICONICS Software Solutions](#).

### 8.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Platform Services contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>• GENESIS64</li><li>• Hyper Historian</li><li>• AnalytiX</li><li>• MobileHMI</li></ul>	All versions up to and including 10.96	Possible Remote Code Execution	7.5	502 - Deserialization of Untrusted Data	CVE-2020-12015

### 8.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 8.5 Vulnerability

Exploitation of this deserialization issue requires creation of a specially crafted communications packet for FrameWorX Server within GENESIS64.

**EXPLOITABILITY:** This vulnerability is remotely exploitable.

**EXISTENCE OF EXPLOIT:**

There is no known exploit code specifically targeting this vulnerability other the code created to demonstrate the vulnerability by the researcher.

**DIFFICULTY:**

An attacker would need a high skill level to be able to exploit this vulnerability. It requires attaining knowledge of the GENESIS64 FrameWorX Server communications and its deserialization and being able to craft a special communications packet that takes advantage of a specific shortcoming in the deserialization.

## 8.6 Mitigation

ICONICS Suite version 10.96.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed	File Version – Date Created
10.96	74211 74393 74618	10.96 Critical Fixes Rollup 1	N/A
10.95.5	74385 74396 74623	FwxAsyncCore.dll FwxlotJsonEncoderDecoder.dll FwxServerCore.dll GdxPointManager.dll GenBroker64.exe IcoConfigCommon.dll IcoConfigCommonAG.dll IcoConfiguratorCore.dll IcoEaClient.dll IcoEaConfiguration.dll IcoEaDefinitions.dll IcoEaPowershell.dll IcoGdxClient.dll IcoGdxDefinitions.dll IcoHHClient.dll IcoHHConfiguration.dll IcoWorkbenchConfiguration.dll IcoWorkbenchCore.dll IcoWorkbenchDefinitions.dll IcoWorkbenchPackAndGo.dll	10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020 10.95.207.0 - 5/7/2020
10.95.2	74384 74395 74622	FwxAsyncCore.dll FwxlotJsonEncoderDecoder.dll FwxServerCore.dll GenBroker64.exe IcoCommon.dll IcoConfigCommon.dll IcoConfigCommonAG.dll IcoConfiguratorCore.dll IcoEaClient.dll IcoEaConfiguration.dll	10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/30/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020 10.95.200.0 – 3/27/2020

	IcoEaDefinitions.dll	10.95.200.0 – 3/27/2020
	IcoEaPowershell.dll	10.95.200.0 – 3/27/2020
	IcoHHClient.dll	10.95.200.0 – 3/27/2020
	IcoHHConfiguration.dll	10.95.200.0 – 3/27/2020
	IcoWorkbenchConfiguration.dll	10.95.200.0 – 3/27/2020
	IcoWorkbenchCore.dll	10.95.200.0 – 3/27/2020
	IcoWorkbenchDefinitions.dll	10.95.200.0 – 3/27/2020
	IcoWorkbenchPackAndGo.dll	10.95.200.0 – 3/27/2020

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

ICS-CERT reminds organizations that proper impact analysis and risk assessment should be performed prior to taking defensive measures. The Control System Security Program also provides a recommended practices section for control systems on the United States Computer Emergency Readiness Team (US-CERT) website. Several recommended practices are available for reading or download, including Improving Industrial Control Systems Cyber security with Defense-in-Depth Strategies.

## 9 OPC UA Framework Uncontrolled Recursion (ICS-CERT Advisory ICSA-21-294-03)

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**9.1 Date:** October 2021

### 9.2 Issue – Discussion

On May 13, 2021, the Industrial Control Systems Cyber Emergency Response Team (ICS-CERT) published advisory ICSA-21-133-03 on the OPC Foundation's SDK for OPC UA products built with .NET Framework. Mitsubishi Electric Iconics Digital Solutions products use this SDK. OPC Foundation has fixed this vulnerability in OPC UA SDK version 1.4.365.48 (and newer).

Mitsubishi Electric Iconics Digital Solutions created a set of downloadable patches for this vulnerability that include the solution published by the OPC Foundation. In addition, the steps listed below can be used to mitigate this vulnerability. These patches can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection portal.

### 9.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected:

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
All ICONICS Suite products (including GENESIS64, AnalytiX, Hyper Historian, MobileHMI)	All versions up to and including 10.97.	Denial of Service	7.5 (AV:N/AC:L/P R:N/UI:N/S:U/ C:N/I:N/A:H)	674 - Uncontrolled Recursion	CVE-2021-27432

### 9.4 Impact

A successful exploit of this vulnerability can create uncontrolled recursion, which may allow an attacker to trigger a stack overflow, and ultimately, this can in turn crash the affected component.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 9.5 Vulnerability

**EXPLOITABILITY:** This vulnerability is remotely exploitable.

**EXISTENCE OF EXPLOIT:**

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

**DIFFICULTY:**

An attacker would need a high skill level to be able to exploit this vulnerability.

## 9.6 Mitigation

Version 10.97.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Leverage OPC UA security and certificates to ensure that Mitsubishi Electric Iconics Digital Solutions products only connect to trusted OPC UA servers and clients.
- Install the patch:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed	File Version
10.97	84200	10.97 Critical Fixes Rollup 2	N/A
10.96.2	84258	10.96.2 Critical Fixes Rollup 2	N/A
10.95.5	84838	Opc.Ua.Core.dll	1.03.340.2

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 10 GraphWorX64 AutoCAD Import OOB (ICS-CERT Advisory ICSA-21-294-01)

**10.1 Date:** October 2021

### 10.2 Issue – Discussion

In July 2021, Trend Micro identified and reported a vulnerability in the GENESIS64 GraphWorX64 AutoCAD (DWG) file import function. This potential security vulnerability can result in remote code execution, if exploited. Mitsubishi Electric Iconics Digital Solutions validated the researcher's claim that if a specially crafted, malicious AutoCAD DWG file is imported into GraphWorX64, it could make GraphWorX64 susceptible to an out-of-bounds write attack as well as an out-of-bounds read attack. The specific flaw exists in the parsing of DWG files that exists in a third-party library used by the Mitsubishi Electric Iconics Digital Solutions products. The issue results from the lack of proper validation of user-supplied data. User interaction is required to exploit this vulnerability. The user must specifically request GraphWorX64 to import the malicious file.

Mitsubishi Electric Iconics Digital Solutions is addressing this issue by:

- Providing a set of patches to currently released versions of GraphWorX64 that will add a warning message, advising the user to be sure all DWG files being imported are known to come from a trusted source.
- Providing a version of GraphWorX64 in the upcoming version 10.97.1 release that will no longer be susceptible to this security vulnerability issue.

The patches will be included in upcoming Critical Fixes Rollup releases which can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection Portal.

### 10.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GENESIS64 (GraphWorX64)	All versions up to and including 10.97	Possible Remote Code Execution	7.8	787 - Out-of-bounds Write	CVE-2021-40156, CVE-2021-40155

### 10.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 10.5 Vulnerability

Exploitation of this file import issue requires creation of a specially crafted AutoCAD DWG file and requires user interaction.

**EXPLOITABILITY:** This vulnerability is remotely exploitable but does require user interaction.

**EXISTENCE OF EXPLOIT:**

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

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DIFFICULTY:

An attacker would need a high skill level to be able to exploit this vulnerability. It requires attaining knowledge of the AutoCAD DWG file format, knowledge on how AutoDesk’s libraries parse DWG files, and being able to craft a special DWG file that takes advantage of a flaw in the input checking.

## 10.6 Mitigation

Version 10.97.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- When importing any AutoCad DWG file, make sure it is known to come from a trusted source
- Install the applicable Critical Fixes Rollup, if available:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

Software Version	Reference ID	Update / File(s) Needed
10.97	85286	10.97 Critical Fixes Rollup 2
10.96.2	85287	10.96.2 Critical Fixes Rollup 3
10.96.1	85323	10.96.1 Critical Fixes Rollup 4
10.96	85322	10.96 Critical Fixes Rollup 6

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 11 Cross-Site Scripting (ICS-CERT Advisory ICSA-22-020-01)

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**11.1 Date:** January 2022

### 11.2 Issue – Discussion

In January 2022, Mitsubishi Electric Iconics Digital Solutions reported a cross-site scripting security vulnerability exists in the MobileHMI product. This security vulnerability can make it possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing an attacker to view or alter user records, and to perform transactions as that user. The issue results from the lack of proper validation checking on user input and external data when it is used to render a page to the client.

Mitsubishi Electric Iconics Digital Solutions is addressing this issue by providing a patch to the currently released version of Suite that will add additional validation checking on inputs and external data. This patch will be included in upcoming Critical Fixes Rollup releases which can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection Portal.

### 11.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GENESIS64 (WebHMI), MobileHMI	All versions up to and including 10.96.2	Unauthorized access to information	4.2 (AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:L/A:N/RL:O)	79 - Improper Neutralization of Input During Web Page Generation	CVE-2022-23127

### 11.4 Impact

A successful exploit of this vulnerability can potentially result in unauthorized access to information.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 11.5 Vulnerability

#### EXPLOITABILITY:

Exploitation of this issue requires the attacker to trick the authenticated user to follow an URL pointing to the vulnerable component. Then he could be able to steal the session cookie from the presentation layer and use it to steal the victim's identity.

#### EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability.

#### DIFFICULTY:

A successful attack requires the attacker to invest a measurable amount of effort in preparation against the deployed system before a successful attack can be expected. The attacker must know the presentation layer of the deployed application to exploit. The presentation layer has no direct access to the API, so the attacker does not have control over what information is obtained.

## 11.6 Mitigation

Version 10.97 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the applicable Critical Fixes Rollup, if available:

Mitsubishi Electric Iconics Digital Solutions has patches for the following versions:

ICONICS Suite Version	Reference ID	Updates / File(s) Needed
10.96.2	81168	10.96.2 Critical Fixes Rollup 1
10.96.1	81110	10.96.1 Critical Fixes Rollup 2

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 12 Incomplete List of Disallowed Inputs (ICS-CERT Advisory ICSA-22-020-01)

**12.1 Date:** January 2022

### 12.2 Issue – Discussion

This vulnerability can allow an attacker to bypass the GENESIS64 Security system if they open a communication channel to the WebSocket endpoint (port 80 or 443) of the FrameWorX Server and modify some of the parameters that are sent during the handshake. The issue results from the lack of proper validation checking during the handshake process when a client application attempts to open a communications channel.

Mitsubishi Electric Iconics Digital Solutions has addressed this issue by providing a patch for the currently released version of ICONICS Suite that enhances the checking in the Web Socket endpoint in FrameWorX Server. Additional validation checking was added on the parameters during the handshake process and connections with unexpected values being refused. This patch is included in recent Critical Fixes Rollup releases which can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection Portal.

### 12.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Platform Services contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>GENESIS64</li><li>Hyper Historian</li><li>AnalytiX</li><li>MobileHMI</li></ul>	All versions from 10.95.3 to 10.97	Unrestricted access to GENESIS64 functionality	9.8 (AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)	184 - Incomplete List of Disallowed Inputs	CVE-2022-23128

### 12.4 Impact

A successful exploit of this vulnerability can potentially result in unrestricted access to GENESIS64 functionality.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 12.5 Vulnerability

#### EXPLOITABILITY:

Exploitation of this issue requires the attacker to modify the handshake parameters when setting up a WebSocket communications channel. They would either have to implement the communication protocol of FrameWorX Server, or possibly find a way to use the Mitsubishi Electric Iconics Digital Solutions binaries to do it with modified parameters.

#### EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability.

#### DIFFICULTY:

An attacker would need a high skill level to be able to exploit this vulnerability. It requires attaining knowledge of the protocol FrameWorX Server uses to set up WebSocket communications.

## 12.6 Mitigation

Version 10.97.1 and later is not vulnerable to this exploit.

Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the applicable Critical Fixes Rollup, if available

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97	86183	10.97 Critical Fixes Rollup 2
10.96.2	86182	10.96.2 Critical Fixes Rollup 3
10.96.1	86181	10.96.1 Critical Fixes Rollup 4
10.96	86180	10.96 Critical Fixes Rollup 6

Another mitigation that can be performed on a system with this vulnerability (one that does not have a software patch that addresses the vulnerability) is to switch to WCF communications and then disable the WebSocket protocol in FrameWorX Server. To disable the WebSocket protocol in FrameWorX Server, one must simply edit the file 'FwxServer.Network.config' and set the WebSocketsTransport element to false.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 13 Plaintext Storage of Password (ICS-CERT Advisory ICSA-22-020-01)

**13.1 Date:** January 2022

### 13.2 Issue – Discussion

The GENESIS64 Workbench export to CSV function may expose a password in plain text when it is used to export the GridWorX Server configuration. The issue is a result of a coding error in Workbench.

Mitsubishi Electric Iconics Digital Solutions has addressed this issue by providing a patch for the currently released version of GENESIS64 that always encrypts such passwords. This patch is included in recent Critical Fixes Rollup releases which can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection Portal.

### 13.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
Workbench (Databases/GridWorX Provider) contained in all ICONICS Suite products	All versions from 10.90 to 10.97	Unauthorized access to information	7.7 (AV:L/AC:L/PR:H/UI:R/S:C/C:H/I:H/A:H)	256 - Plaintext Storage of a Password	CVE-2022-23129

### 13.4 Impact

A successful exploit of this vulnerability can result in unauthorized access to the SQL Server database that contains the GridWorX Server's configuration information. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 13.5 Vulnerability

EXPLOITABILITY:

Exploitation of this issue requires the attacker to use Workbench to export the configuration of GridWorX Server to a CSV file.

EXISTENCE OF EXPLOIT:

Not Applicable.

DIFFICULTY:

An attacker with a relatively low skill level would be able to exploit this vulnerability.

### 13.6 Mitigation

Version 10.97.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.

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- Install the applicable Critical Fixes Rollup, if available:

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97	82376	10.97 Critical Fixes Rollup 1
10.96.2	82402	10.96.2 Critical Fixes Rollup 1
10.96.1	82400	10.96.1 Critical Fixes Rollup 3
10.96	82399	10.96 Critical Fixes Rollup 5

A mitigation that can be performed on a system with this vulnerability (a system that does not have a software patch that addresses the vulnerability) is:

1. Once the file is exported, the user deletes the password from the CSV file before distributing it. The user would also need to immediately delete the task from the Workbench tasks. Otherwise, the file will be still stored on the file system.
2. The user can remove the password before performing the export. To do this, the user needs to open the connection configuration in Workbench (under Databases > SQL Connections), remove the password from the connection string, and apply the changes. The configuration can now be exported safely. Once the export is complete, the user can edit the connection configuration again and put back the password. Note, removing the password in this way may make the GridWorX point manager data temporarily inaccessible.
3. The system administrator can disable the GridWorX provider from the security for users who do not need access.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 14 SQL Query Engine Buffer Over-read (ICS-CERT Advisory ICSA-22-020-01)

**14.1 Date:** January 2022

### 14.2 Issue – Discussion

This security vulnerability made it possible to execute a series of SQL commands in a GENESIS64 system that could cause a crash of the SQL Query Engine and ultimately could result in a disabling of SQL Server. The issue is a result of a coding error in the SQL Query Engine memory allocation code.

Mitsubishi Electric Iconics Digital Solutions has addressed this issue by providing a patch for the currently released version of ICONICS Suite that correctly handles memory allocation. This patch is included in recent Critical Fixes Rollup releases which can be downloaded from the Mitsubishi Electric Iconics Digital Solutions Customer Connection Portal.

### 14.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
All ICONICS Suite products including GENESIS64, AnalytiX, Hyper Historian, MobileHMI)	All versions up to and including 10.97	Denial of Service	5.9 (AV:A/AC:H/PR:H/UI:R/S:C/C:N/I:L/A:H)	126 – Buffer Overread	CVE-2022-23130

### 14.4 Impact

A successful exploit of this vulnerability can potentially result in a crash of the SQL Query Engine and ultimately could result in a disabling of SQL Server. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 14.5 Vulnerability

EXPLOITABILITY:

Exploitation of this issue requires the attacker to know credentials to the SQL Server where the SQL Query Engine is installed, plus the attacker needs to know a command that has to be executed.

EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY:

Exploitation of this issue requires the attacker to know credentials to the SQL Server where the SQL Query Engine is installed, plus the attacker needs to know a command that has to be executed. An attacker with a moderate skill level would be able to exploit this vulnerability.

### 14.6 Mitigation

Version 10.97.1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.

- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install the applicable Critical Fixes Rollup, if available.

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97	85753	10.97 Critical Fixes Rollup 2
10.96.2	85752	10.96.2 Critical Fixes Rollup 3
10.96.1	85751	10.96.1 Critical Fixes Rollup 4
10.96	85750	10.96 Critical Fixes Rollup 6

A mitigation that can be performed on a system with this vulnerability (a system that does not have a software patch that addresses the vulnerability) is to implement strict SQL Server security so that users have only the minimum rights necessary.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 15 MobileHMI Path Traversal (ICS-CERT Advisory ICSA-22-202-04)

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**15.1 Date:** July 2022

### 15.2 Issue – Discussion

On April 15, 2022, researchers Chris Anastasio and Steven Seeley of Incite working with Trend Micro Zero Day Initiative, reported a file path traversal vulnerability in the MobileHMI product. Successful exploitation could allow an attacker to traverse the file system to access files or directories that are outside of a restricted directory on the MobileHMI AnyGlass server. Mitsubishi Electric Iconics Digital Solutions validated the researcher's claim and has addressed this issue in version 10.97.2 of ICONICS Suite.

### 15.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
MobileHMI, HTML5, WebHMI, and IoTWorX Visualizer	Versions 10.97 and 10.97.1	Information Disclosure	7.5 (AV:N/AC:L/P R:N/UI:N/S:U/C:H/I:N/A:N)	22 - Improper Limitation of a Pathname to a Restricted Directory	CVE-2022-29834

### 15.4 Impact

The impact of a successful exploit of this vulnerability is that an attacker can leverage a path traversal vulnerability in the system to step out of the root directory, allowing them to access other parts of the file system to view restricted files and gather more information required to further compromise the system.

The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 15.5 Vulnerability

EXPLOITABILITY:

Exploitation of this issue requires the attacker to access a certain endpoint in MobileHMI which can give them unauthorized access to certain files.

EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY:

An attacker with a moderate skill level may be able to exploit this vulnerability.

### 15.6 Mitigation

Version 10.97.2 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.2 or later version of the Mitsubishi Electric Iconics Digital Solutions products.

- Install the applicable Critical Fixes Rollup, if available.

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97.1	89588	10.97.1 Critical Fixes Rollup 3
10.97	89589	10.97 Critical Fixes Rollup 4

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 16 GraphWorX64 Deserialization (ICS-CERT Advisory ICSA-22-202-04)

**16.1 Date:** July 2022

### 16.2 Issue – Discussion

On April 15, 2022, researcher Alex Birmberg of Zymo Security working with Trend Micro Zero Day Initiative, reported a security vulnerability in GraphWorX64 with deserialization of untrusted data which can result in remote code execution if exploited. Note, this security vulnerability was later reported by Chris Anastasio and Steven Seely of Incite, and others, at the Pwn2Own 2022 conference. And a related security vulnerability was later reported by Noam Moshe of Claroty Research working with Trend Micro Zero Day Initiative. Mitsubishi Electric Iconics Digital Solutions validated the researchers' claim and has addressed this issue in version 10.97.2 of ICONICS Suite.

### 16.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVEs
GraphWorX64	All versions up to and including 10.97.1	Possible Remote Code Execution	7.8 (AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H)	502 – Deserialization of Untrusted Data	CVE-2022-33315 CVE-2022-33316 CVE-2022-33320

### 16.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 16.5 Vulnerability

Exploitation of this deserialization issue requires creation of a specially crafted GraphWorX64 file and requires user interaction. The GraphWorX64 file types affected by this vulnerability include the standard display files (.gdfx), template files (.tdfx), and trend, alarm, grid, and schedule configuration files (.twxx, .awxx, .gdxx, and .schx files).

#### EXPLOITABILITY:

This vulnerability is remotely exploitable but does require user interaction.

#### EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

#### DIFFICULTY:

An attacker would need a moderate skill level to be able to exploit this vulnerability. It requires knowledge of the GraphWorX64 file format and being able to craft a special GraphWorX64 file that takes advantage of a flaw in the deserialization.

### 16.6 Mitigation

Version 10.97.2 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use only GraphWorX files that are known to come from a trusted source.
- Use the 10.97.2 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- If using an earlier version, install the applicable Critical Fixes Rollup, if available.

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference IDs	Update / File(s) Needed
10.97.1	90086, 90087, 90088, 90089, 90090, 90091, 90314	10.97 Critical Fixes Rollup 3
10.97	91164, 91178, 91185, 91192, 91199, 91206, 91213, 91220	10.97 Critical Fixes Rollup 4
10.96.2	91165, 91179, 91186, 91193, 91200, 91207, 91214, 91221	10.96.2 Critical Fixes Rollup 3
10.96.1	91166, 91180, 91187, 91194, 91201, 91208, 91215, 91222	10.96.1 Critical Fixes Rollup 4
10.96	91167, 91181, 91188, 91195, 91202, 91209, 91216, 91223	10.96 Critical Fixes Rollup 6

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutionshttp://iconics.com/cert](http://iconics.com/cert). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 17 GraphWorX64 Scripting (ICS-CERT Advisory ICSA-22-202-04)

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**17.1 Date:** July 2022

### 17.2 Issue – Discussion

On April 20, 2022, researcher Ben McBride working with Trend Micro Zero Day Initiative, reported a security vulnerability with GraphWorX64's scripting environment. GraphWorX64 scripting, based on JScript and .NET, stores its script code in the GraphWorX64 project files. The project files can be directly edited, and as a result, this poses a security risk. If an attacker has access to the project files or convinces the user to load a compromised project file, it can result in remote code execution. ICONICS validated the researchers' claim and has taken steps to mitigate this issue in version 10.97.2 of ICONICS Suite, and in 10.97.1 Critical Fixes Rollup 3.

### 17.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GraphWorX64	All versions up to and including 10.97.1	Possible remote code execution	7.8 (AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H)	829 – Inclusion of Functionality from Untrusted Control Sphere	CVE-2022-33317

### 17.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 17.5 Vulnerability

Exploitation of this security issue requires creation of a specially crafted GraphWorX64 project file (.gdfx, .tdfx, .twxx, .awxx, .gdxx, or .schx) file and requires user interaction.

#### EXPLOITABILITY:

This vulnerability is remotely exploitable but does require user interaction.

#### EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

#### DIFFICULTY:

An attacker would need a low/medium skill level to be able to exploit this vulnerability. It requires some basic knowledge of the JScript.NET programming language (and .NET in general), and some basic knowledge of how JScript.NET is used in GraphWorX64.

## 17.6 Mitigation

Mitsubishi Electric Iconics Digital Solutions has added an option in v10.97.2 to allow disabling of scripting in GraphWorX64. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Disable GraphWorX64 scripting if it is not needed nor being used. (Note, the option to disable scripting is available in v10.97.2 and later).
- Use only GraphWorX project files (.gdfx, .tdfx, .twxx, .awxx, .gdxx, and .schx files) that are known to come from a trusted source.
- Install the applicable Critical Fixes Rollup, if available, and disable GraphWorX64 scripting if it is not needed nor being used.

The following Critical Fix Rollups include the option to disable GraphWorX64 scripting:

ICONICS Suite Version	Reference ID	Update / File(s) Needed	
10.97.1	90093	10.97.1 Critical Fixes Rollup 3	
10.97	91171	10.97 Critical Fixes Rollup 4	
10.96.2	91172	10.96.2 Critical Fixes Rollup 3 (Release pending)	
10.96.1	91173	10.96.1 Critical Fixes Rollup 4	
10.96	91174	10.96 Critical Fixes Rollup 6	

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 18 GenBroker Deserialization of Untrusted Data (ICS-CERT Advisory ICSA-22-202-04)

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**18.1 Date:** July 2022

### 18.2 Issue – Discussion

On April 20, 2022, researcher Axel 'Overcl0k' Souchet working with Trend Micro Zero Day Initiative, reported a deserialization issue in GenBroker64 where if exploited, can result in remote code execution. Mitsubishi Electric Iconics Digital Solutions validated the researchers' claim and has addressed this issue in version 10.97.2 of ICONICS Suite.

### 18.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GenBroker64 contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>GENESIS64</li><li>Hyper Historian</li><li>AnalytiX</li><li>MobileHMI</li></ul>	All versions up to and including 10.97.1	Possible remote code execution	9.8 (AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)	502 - Deserialization of Untrusted Data	CVE-2022-33318

### 18.4 Impact

A successful exploit of this vulnerability can potentially result in remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 18.5 Vulnerability

Exploitation of this GenBroker64 vulnerability requires creation of a specially crafted communication packet which must be sent to GenBroker's IP Address and Port Number.

#### EXPLOITABILITY:

This vulnerability is remotely exploitable.

#### EXISTENCE OF EXPLOIT:

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

#### DIFFICULTY:

An attacker would need a moderate skill level to be able to exploit this vulnerability. It requires determining the deserialization issue that GenBroker is vulnerable to and requires crafting of a special communications packet to take advantage of it.

### 18.6 Mitigation

Version 10.97.2 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

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- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.2 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- If using an earlier version, install the applicable Critical Fixes Rollup, if available.

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97.1	89733	10.97 Critical Fixes Rollup 3
10.97	90459	10.97 Critical Fixes Rollup 4
10.96.2	90460	10.96.2 Critical Fixes Rollup 3 (
10.96.1	90461	10.96.1 Critical Fixes Rollup 4
10.96	90462	10.96 Critical Fixes Rollup 6

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 19 GenBroker Out-of-Bounds Read (ICS-CERT Advisory ICSA-22-202-04)

**19.1 Date:** July 2022

### 19.2 Issue – Discussion

On May 25, 2022, researcher Axel '0vercl0k' Souchet, working with Trend Micro Zero Day Initiative, reported an out-of-bounds read issue in GenBroker64 where if exploited, can result in information disclosure or potentially a crash of GenBroker64 and a denial-of-service issue. Mitsubishi Electric Iconics Digital Solutions validated the researchers' claim and has addressed this issue in version 10.97.2 of ICONICS Suite.

### 19.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS V3.1 Base Score	CWE	CVE
GenBroker64 contained in all ICONICS Suite products, including: <ul style="list-style-type: none"><li>GENESIS64</li><li>Hyper Historian</li><li>AnalytiX</li><li>MobileHMI</li></ul>	All versions up to and including 10.97.1	Information Disclosure, Possible denial of service	8.2 (AV:N/AC:L/P R:N/UI:N/S:U/C:L/I:N/A:H)	125 - Out-of-bounds Read	CVE-2022-33319

### 19.4 Impact

A successful exploit of this vulnerability can potentially result in information disclosure or a crash of GenBroker64 and consequently, a denial of service. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 19.5 Vulnerability

Exploitation of this GenBroker64 vulnerability requires creation of a specially crafted communication packet which must be sent to GenBroker64's IP Address and Port Number.

**EXPLOITABILITY:** This vulnerability is remotely exploitable.

**EXISTENCE OF EXPLOIT:**

There is no known exploit code specifically targeting this vulnerability other than the code created to demonstrate the vulnerability by the researcher.

**DIFFICULTY:**

An attacker would need a moderate skill level to be able to exploit this vulnerability. It requires determining the out-of-bounds read issue that GenBroker64 is vulnerable to and requires crafting of a special communications packet to take advantage of it.

### 19.6 Mitigation

Version 10.97.2 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.2 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- If using an earlier version, install the applicable Critical Fixes Rollup, if available.

The following Critical Fix Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97.1	90452	10.97 Critical Fixes Rollup 3
10.97	90453	10.97 Critical Fixes Rollup 4
10.96.2	90454	10.96.2 Critical Fixes Rollup 3
10.96.1	90455	10.96.1 Critical Fixes Rollup 4
10.96	90456	10.96 Critical Fixes Rollup 6

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutionshttp://iconics.com/cert](http://iconics.com/cert). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 20 Path Traversal in Workbench (ICS-CERT Advisory IC-SA-22-347-01)

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**20.1 Date:** December 2022

### 20.2 Issue – Discussion

On July 22, 2022, researcher Noam Moshe at Claroty Research with Trend Micro Zero Day Initiative, reported a path traversal vulnerability in the GENESIS64 Workbench Pack&Go function. Successful exploitation could allow an attacker to force Workbench to write an arbitrary file.

Mitsubishi Electric Iconics Digital Solutions validated the researcher's claim and has addressed this issue in version 10.97.2 Critical Fixes Rollup 1 of the ICONICS Suite.

### 20.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
Workbench contained in all ICONICS Suite products	Versions 10.96 through 10.97.2	File tampering	6.3 (AV:L/AC:L/PR:N/UI:R/S:C/C:N/I:H/A:N )	22 - Improper Limitation of a Pathname to a Restricted Directory	CVE-2022-40264

### 20.4 Impact

The impact of a successful exploit of this vulnerability is that an attacker can create, tamper with or destroy arbitrary files. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 20.5 Vulnerability

EXPLOITABILITY:

Exploitation of this issue requires the attacker to understand the Workbench Pack&Go package file format, to create a specially crafted Pack&Go package, and to use social engineering to get the specially crafted package onto a system.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: An attacker with a low skill level may be able to exploit this vulnerability.

### 20.6 Mitigation

Version 10.97.2 Critical Fixes Rollup 1 and later is not vulnerable to this exploit. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.2 Critical Fixes Rollup 1 or later version of the Mitsubishi Electric Iconics Digital Solutions products.

- Install the applicable Critical Fixes Rollup, if available.
- For systems that do not contain the patch/fix:
  1. Only unpack files coming from trusted sources
  2. Protect and encrypt Pack&Go packages with a password to prevent modifications by untrustworthy users
  3. Do not unpack a Pack&Go package file if it is using a relative path (Note, this would show up in the Workbench UI)

The following Critical Fixes Rollup releases contain the fix for this vulnerability:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
10.97.2	91163	10.97.2 Critical Fixes Rollup 1
10.97.1	91162	10.97.1 Critical Fixes Rollup 4
10.97	91161	10.97 Critical Fixes Rollup 4
10.96.2	91160	10.96.2 Critical Fixes Rollup 3
10.96.1	91159	10.96.1 Critical Fixes Rollup 4
10.96	91158	10.96 Critical Fixes Rollup 6

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 21 BACnet/SC OpenSSL Vulnerabilities (ICS-CERT Advisories ICSA-23-229-01 and ICSA-24-184-03)

**21.1 Date:** July 2023 (updated June 2024)

### 21.2 Issue – Discussion

Since November 1, 2022, openssl.org has published a series of security advisories on OpenSSL that include several crash or denial-of-service (DoS) vulnerabilities and an information disclosure vulnerability. An attacker taking advantage of these vulnerabilities may be able to cause a crash (causing a denial of service) or potentially remote code execution.

The GENESIS64™ BACnet/SC (Secure Connect) feature included in the v10.97.2 release is susceptible to these vulnerabilities. Prior versions of GENESIS64™ (prior to the v10.97.2 release) are not susceptible to these issues. Mitsubishi Electric Iconics Digital Solutions has addressed all of these issues in the v10.97.3 release.

### 21.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
BACnet/SC contained in all ICONICS Suite products, including: - GENESIS64 - Hyper Historian - AnalytiX - MobileHMI	Version 10.97.2	Denial of Service, Potential Remote Code Execution	4.4 – 5.9 See below	See below	See below

#### ■ CVE - CVSS V3 Scores

CVE-2022-3602 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score 5.9  
CVE-2022-3786 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score 5.9  
CVE-2022-4203 CVSS:3.1/AV:N/AC:H/PR:H/UI:N/S:U/C:N/I:N/A:H Base Score: 4.4  
CVE-2022-4304 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N Base Score: 5.9  
CVE-2022-4450 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score: 5.9  
CVE-2023-0401 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score: 5.9  
CVE-2023-2650 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:L Base Score: 3.7  
CVE-2023-4807 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H Base Score: 5.9

#### ■ CVE – Descriptions / CWE Scores

CVE-2022-3602 - A crash vulnerability that can result in denial of service (DoS) or potentially remote code execution due to a buffer overrun condition (CWE-120).  
CVE-2022-3786 - A crash vulnerability that can result in denial of service (DoS) due to a buffer overrun condition (CWE-120).  
CVE-2022-4203 - A denial of service (DoS) vulnerability due to Out-of-bounds Read (CWE-125).  
CVE-2022-4304 - An information disclosure vulnerability due to Observable Timing Discrepancy (CWE-208).  
CVE-2022-4450 - A crash vulnerability that can result in denial of service (DoS) or potentially remote code execution due to Double Free (CWE-415) when reading a PEM file.

CVE-2023-0401 - A crash vulnerability that can result in denial of service (DoS) or potentially remote code execution exists in the OpenSSL library in GENESIS64™ due to NULL Pointer Dereference (CWE-476).

CVE-2023-2650 – A vulnerability that can result in a denial of service (DoS) due to an allocation of resources without limits or throttling (CWE-770).

CVE-2023-4807 – A bug that might corrupt the internal state of the application on the Windows 64 platform when running on newer X86\_64 processors supporting the AVX512-IFMA instructions (CWE-347).

## 21.4 Impact

The impact of a successful exploit of these vulnerabilities is that an attacker can cause information disclosure, a denial of service and potentially remote code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

## 21.5 Vulnerability

EXPLOITABILITY: These vulnerabilities are remotely exploitable.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting these vulnerabilities.

DIFFICULTY: An attacker would need a high skill level to be able to exploit these vulnerabilities.

## 21.6 Mitigation

Version 10.97.3 and later is not vulnerable to any of the CVEs that are listed above). Version 10.97.2 Critical Fixes Rollup 2 is not vulnerable to the first 6 CVEs that are listed. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- For v10.97.2 and earlier systems:
  1. Do not use the BACnet/SC feature on a production system.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.3 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- Install the applicable Critical Fixes Rollup, if available.

The following Critical Fixes Rollup release contains fixes for the first 6 CVEs that are listed above:

ICONICS Suite Version	Reference ID	Update / File(s) Needed
v10.97.2	92026 92072 94166	10.97.2 Critical Fixes Rollup 2

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 22 AlarmWorX64 MMX DLL Hijacking (ICS-CERT Advisories ICSA-24-184-03 and ICSA-24-338-04)

**22.1 Date:** June 2024, Updated April 2026

### 22.2 Issue – Discussion

Researchers Asher Davila and Malav Vyas at Palo Alto Networks reported the potential existence of DLL hijacking vulnerabilities in the ICONICS Suite. Mitsubishi Electric Iconics Digital Solutions investigated this and determined that certain AlarmWorX64 Multimedia (AlarmWorX64™ MMX) Agents have DLLs that are subject to DLL hijacking. The affected agents are the MMX Fax Agent, MMX Pager Agent, and MMX Phone Agent. An attacker taking advantage of this vulnerability can trick the system into loading a malicious DLL file instead of the intended one, allowing the attacker to potentially execute arbitrary code.

Mitsubishi Electric Iconics Digital Solutions has implemented mitigations for this issue in the version 10.97.3 release, and removed the vulnerable agents in version 10.98.

### 22.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product	Version	Security Impact	CVSS 3.1	CWE	CVE
AlarmWorX64™ Pager, Phone, and Fax Agents included in ICONICS Suite, GENESIS64, and Hyper Historian	All versions prior to 10.98	Potential Arbitrary Code Execution	7.8 (AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H)	427 – Uncontrolled Search Path Element	CVE-2024-1182 CVE-2024-8299 CVE-2024-9852

### 22.4 Impact

The impact of a successful exploit of this vulnerability is that an attacker can cause arbitrary malicious code execution. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 22.5 Vulnerability

**EXPLOITABILITY:**

This vulnerability requires access to the machine that the affected AlarmWorX64 MMX DLLs are installed on.

**EXISTENCE OF EXPLOIT:** There is no known exploit code specifically targeting this vulnerability.

**DIFFICULTY:** An attacker would need a medium skill level to be able to exploit this vulnerability.

### 22.6 Mitigation

Version 10.98 does not include the vulnerable MMX agents, therefore users of this version are not affected. Users who need AlarmWorX64 MMX installed should be aware of these vulnerabilities. Beginning with Version 10.97.3, the AlarmWorX64 MMX product will no longer be installed as part of the default installation of the ICONICS Suite. In addition, the MMX Fax Agent will no longer be installed as part of the default AlarmWorX64 MMX installation.

- Users who need the AlarmWorX MMX Fax agent installed will need to perform a custom installation of AlarmWorX MMX, one that includes the Fax Agent. If this is the case, it is recommended that the user also manually activate the MS Windows Fax and Scan feature. Activating this Windows feature will resolve the DLL Hijacking vulnerability that exists in the MMX Fax agent. See the note below for more information.
- For users who need AlarmWorX MMX installed, and do not need the MMX Pager agent and / or MMX Phone agent, it is recommended they perform a custom installation of AlarmWorX MMX and omit the installation of the agent(s) that are not needed.
- For users who plan to keep the MMX Phone agent installed, it is recommended they install the latest Dialogic driver. Note, installing the Dialogic driver resolves the DLL Hijacking vulnerability that exists in the MMX Phone agent as it installs the DLLs the Phone agent depends on into the correct location.
- For users who keep the MMX Pager agent install should be aware of its DLL Hijacking vulnerability and take any necessary precautions to keep the system safe from potential attackers.

Note: the steps for enabling the Windows Fax and Scan feature can vary depending on Windows operating system version. For example, the step on Windows 11 are:

1. Navigate to the Windows 11 Settings > Applications > Optional Features page.
2. Click the View Features button next to Add an Optional Feature.
3. In the dialog box that appears, scroll down the list to view the Windows Fax and Scan entry.
4. Check the check box next to the entry and click the Next button.
5. From here, click the Install button to install Windows Fax and Scan.
6. Once the installation is complete, restart your computer.

Mitsubishi Electric Iconics Digital Solutions recommends that all users of its systems take the following precautions:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install all applicable Critical Fixes Rollup releases that are available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 23 Auto Logon in MobileHMI (ICS-CERT Advisory ICSA-24-184-03)

**23.1 Date:** June 2024, Updated April 2026

### 23.2 Issue – Discussion

The GENESIS64™ Automatic Login feature, when used with MobileHMI in a certain specific condition, can result in improper privileges being given to a non-logged-in user. The specific condition that can cause this privilege mis-assignment is:

1. GENESIS64™ Security is set up to use Active Directory
2. GENESIS64™ Security has the option “Automatic Log in” enabled.
3. The IcoAnyGlass IIS Application Pool is running under an Active Directory Domain Account
4. The IcoAnyGlass IIS Application Pool account is included in the GENESIS64™ Security and has permission to log in.

The result is that a user who opens a MobileHMI display when the above conditions are met will have the privileges of the IcoAnyGlass IIS Application Pool account.

Mitsubishi Electric Iconics Digital Solutions has addressed this issue in the version 10.97.3 release.

### 23.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
AnyGlass included in ICONICS Suite, GENESIS64, MobileHMI, Hyper Historian, IoTWorX, and AnalytiX	All versions prior to v 10.97.3	Improper Privilege Management	5.9 CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:H/A:N	CWE-287: Improper Authentication	CVE-2024-1573

### 23.4 Impact

The impact of this vulnerability is that a non-logged-in user could receive unintended privileges. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 23.5 Vulnerability

EXPLOITABILITY: This vulnerability is not remotely exploitable.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: An attacker would not be able to exploit this vulnerability.

### 23.6 Mitigation

Version 10.97.3 and later does not have this vulnerability. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- For systems that do not contain the patch/fix:

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1. Ensure that their system is set up so that at least one of the 4 conditions listed above are not met (see issue discussion).
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
  - Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
  - Do not click web links or open unsolicited attachments in e-mail messages.
  - Use the 10.97.3 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
  - Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 24 ICONICS Licensing DLL Hijacking (ICS-CERT Advisory ICSA-24-184-03)

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**24.1 Date:** June 2024

### 24.2 Issue – Discussion

There is a vulnerability in the ICONICS licensing software that can potentially allow a privilege escalation issue. Mitsubishi Electric Iconics Digital Solutions has addressed this issue in the version 10.97.3 release.

### 24.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
All ICONICS Suite products including GENESIS64, AnalytiX, Hyper Historian, MobileHMI)	All versions up to and including 10.97.2	Improper Authorization	6.7 CSSV:3.1/AV: L/AC:H/PR:L/ UI:R/S:U/C:H/ I:H/A:H	CWE-470: Use of Externally-Controlled Input to Select Classes or Code ('Unsafe Reflection')	CVE-2024-1574

### 24.4 Impact

The impact of a successful exploit of this vulnerability would allow privilege escalation of any regular user to LOCALSYSTEM. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 24.5 Vulnerability

EXPLOITABILITY: This vulnerability is not remotely exploitable.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: An attacker would need a low to medium skill level to be able to exploit this vulnerability.

### 24.6 Mitigation

Version 10.97.3 and later is not vulnerable to this issue. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Use the 10.97.3 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 25 GenBroker32 Installation Permissions Issue (ICS-CERT Advisory ICSA-24-296-01)

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**25.1 Date:** October 2024

### 25.2 Issue – Discussion

Researchers Asher Davila and Malav Vyas at Palo Alto Networks reported the existence of a permissions issue in the GenBroker32 Installation. Mitsubishi Electric Iconics Digital Systems investigated this report and determined that all versions of the GenBroker32 Installation included in the V10 releases, up to and including v10.97.3, incorrectly set the permissions on the C:\ProgramData\ICONICS folder to “Everyone”. It should be noted:

- GenBroker32 is an optional component and is not intended to be installed on top of a V10 system.
- GenBroker32’s primary use is for installation on remote OPC Servers in order to improve the OPC Server’s communications to an ICONICS V10 system.

Mitsubishi Electric Iconics Digital Solutions has addressed this issue in the 9.70.300.32 version of the GenBroker32 installation, which is included in the v10.97.3 CFR1 release.

### 25.3 Products Affected

The following table identifies Mitsubishi Electric Iconics Digital Solutions products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
GenBroker32	All versions earlier than 9.70.300.32	Disclosure of Information, data tampering, and Denial of Service (DoS)	7.8 (AV:L/AC:L/P R:L/UI:N/S:U/ C:H/I:H/A:H)	276 – Incorrect Default Permissions	CVE-2024-7587

### 25.4 Impact

A successful exploit of this vulnerability can lead to the disclosure of confidential information contained in these products, data tampering, or a denial of service (DoS) condition. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 25.5 Vulnerability

EXPLOITABILITY: This vulnerability is not remotely exploitable.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: An attacker would need a low to medium skill level to be able to exploit this vulnerability.

### 25.6 Mitigation

Version 10.97.3 CFR1 and later is not vulnerable to this issue. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- For new systems, use the 10.97.3 CFR1 or later version of the Mitsubishi Electric Iconics Digital Solutions products.

- If planning to use GENESIS64 v10.97.3 or earlier on a new freshly installed system, do not install the included GenBroker32. Instead, download the latest GenBroker32 from Mitsubishi Electric Iconics Digital Solutions and install this version if needed.
- For systems that already have v10.97.3 or an earlier version installed, verify the permissions on the c:\ProgramData\ICONICS folder do not include "Everyone". If this folder is set to provide access to "Everyone", remove this access by performing the following steps:
  1. Right click C:\ProgramData\ICONICS folder and open the Properties display
  2. Open the Security tab
  3. Click Advanced
  4. Click Change Permissions
  5. Select "Everyone" and check the "Replace all object permissions entries with inheritable permission entries from this project" checkbox
  6. Click Remove
- Don't open files from untrusted sources.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 26 FA Device Driver DLL Hijacking (ICSA-24-338-04)

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**26.1 Date:** December 2024

### 26.2 Issue – Discussion

Researchers Asher Davila and Malav Vyas at Palo Alto Networks reported the existence of a DLL Hijacking issue in the GENESIS64 product. Mitsubishi Electric Iconics Digital Solutions investigated this report and determined that if GENESIS64 is installed to a custom (non-default) folder, the FA device communications driver may be susceptible to a DLL hijacking issue, as a result of a Dead Code issue. Mitsubishi Electric Iconics Digital Solutions has addressed this issue in the following releases:

- v10.97.3 CFR1
- v10.97.2 CFR3.

### 26.3 Products Affected

Product / Component	Version	Security Impact	CVSS	CWE	CVE
GENESIS64 FA Device Communications Driver	v10.97.2, v10.97.2 CFR1, v10.97.2 CRF2, and v10.97.3	Potential Arbitrary Code Execution	7.0 (AV:L/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H)	561 – Dead Code	CVE-2024-8300

### 26.4 Impact

An attacker may be able to execute a malicious code by tampering with a specially crafted DLL. This could lead to disclosure of information in the affected products, tampering with, destroying, or deleting information in the affected products, or cause a denial of service (DoS) condition on the products. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 26.5 Vulnerability

EXPLOITABILITY: This vulnerability is not remotely exploitable.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: An attacker would need a medium skill level to be able to exploit this vulnerability.

### 26.6 Mitigation

Version 10.97.3 CFR1 and later is not vulnerable to this issue. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- For new systems, use the 10.97.3 CFR1 or later version of the Mitsubishi Electric Iconics Digital Solutions products.
- If already using v10.97.3, upgrade to v10.97.3 CFR1.
- If already using v10.97.2, upgrade to v10.97.2 CFR3.
- Don't open files from untrusted sources.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to CISA for tracking and correlation against other incidents.

## 27 Information Tampering Vulnerability in GENESIS64 Services (ICSA-25-140-04)

**27.1 Date:** May 2025, Updated April 2026

### 27.2 Issue – Discussion

An information tampering vulnerability exists in multiple services in GENESIS64, ICONICS Suite, Hyper Historian, IoTWorX, AnalytiX, and MobileHMI. An attacker could make an unauthorized write to arbitrary files by creating a symbolic link from a file used as a write destination by the services of the affected products to a target file. This could allow the attacker to destroy the file on a PC with the affected products installed (CVE-2025-0921), resulting in a denial-of-service (DoS) condition on the PC.

This was originally reported by researchers Asher Davila and Malav Vyas at Palo Alto Networks as the existence of a vulnerability in the AlarmWorX64 MMX Pager Agent in GENESIS64. Mitsubishi Electric Iconics Digital Solutions validated the researcher’s claims, and determined other services are vulnerable as well.

### 27.3 Products Affected

Product	Version	Security Impact	CWE	CVE
GENESIS64, ICONICS Suite, Hyper Historian, IoTWorX, AnalytiX, and MobileHMI	All Versions prior to 10.98; IoTWorX 10.95 only	Unauthorized write to arbitrary files	250 – Execution with Unnecessary Privileges	CVE-2025-0921

**CVSS V3.1 Base Score:** 6.5 (AV:L/AC:L/PR:L/UI:N/S:C/C:N/I:H/A:N)

**CVSS V4 Base Score:** 6.8 (AV:L/AC:L/AT:N/PR:L/UI:N/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N)

### 27.4 Impact

An attacker could make an unauthorized write to arbitrary files, by creating a symbolic link from a file used as a write destination by a service of GENESIS64 to a target file. This could allow the attacker to destroy the file on a PC with the affected products installed (CVE-2025-0921), resulting in a denial-of-service (DoS) condition on the PC if the destroyed file is necessary for the operation of the PC.

### 27.5 Mitigations

GENESIS64 version 10.98 contains a fix for this vulnerability. GENESIS versions 11.01 and higher also contain a fix for this vulnerability. For the highest level of security, it is recommended that users upgrade their system to the latest version and keep it up-to-date with the latest releases. Please consult Mitsubishi Electric Iconics Digital Solutions on the options for upgrades.

Users who choose to remain on affected versions should be aware of this vulnerability, and should take any necessary precautions to keep the system safe from potential attackers such as:

- Configure the PCs with the affected product installed so that only an administrator can log in.
- PCs with the affected product installed should be configured to block remote logins from untrusted networks and hosts, and from non-administrator users.
- Block unauthorized access by using a firewall or virtual private network (VPN), etc., and allow remote login only to administrators when connecting the PCs with the affected product installed to the Internet.

- Restrict physical access to the PC with the affected product installed and the network to which the PC is connected to prevent unauthorized physical access.
- Do not click on web links in emails from untrusted sources. Also, do not open attachments in untrusted emails.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates on its website at [Security at ICONICS | ICONICS Software Solutions.](#) Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to CISA for tracking and correlation against other incidents.

## 28 Information Tampering Vulnerability in GENESIS64 Processes (ICSA-25-217-01)

**28.1 Date:** August 2025, Updated April 2026

### 28.2 Issue – Discussion

An information tampering vulnerability exists in multiple processes of GENESIS64, ICONICS Suite, Hyper Historian, IoTWorX, AnalytiX, and MobileHMI due to CWE-64 - Windows Shortcut Following (.LNK). This vulnerability allows local attackers to execute privileged file operations on affected installations of the affected products.

### 28.3 Products Affected

Product	Version	Security Impact	CWE	CVE
GENESIS64, ICONICS Suite, Hyper Historian, IoTWorX, AnalytiX, and MobileHMI	All versions prior to 10.98; IoTWorX v10.95 only	Unauthorized write to arbitrary files	64 - Windows Shortcut Following (.LNK)	CVE-2025-7376

**CVSS V3.1 Base Score:** 5.9 (AV:L/AC:L/PR:L/UI:R/S:C/C:N/I:H/A:N)

**CVSS V4 Base Score:** 4.1 (AV:L/AC:L/AT:P/PR:L/UI:A/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N)

### Impact

An attacker must first obtain the ability to execute low-privileged code on the target system to exploit this vulnerability. By creating a symbolic link, an attacker can cause the processes to write into arbitrary files on the file system in any location that is accessible to the user under which the services or elevated processes are running (CVE-2025-7376), resulting in a denial-of-service (DoS) condition on the PC if the modified file is necessary for the operation of the PC.

### 28.4 Mitigations

GENESIS64 version 10.98 contains a fix for this vulnerability. GENESIS versions 11.01 and higher also contain the fix for this vulnerability. For the highest level of security, it is recommended that users upgrade their system to the latest version and keep it up-to-date with the latest releases. Please consult Mitsubishi Electric Iconics Digital Solutions on the options for upgrades.

Users who choose to remain on affected versions should be aware of this vulnerability, and should take any necessary precautions to keep the system safe from potential attackers such as:

- Configure the PCs with the affected product installed so that only an administrator can log in.
- PCs with the affected product installed should be configured to block remote logins from untrusted networks and hosts, and from non-administrator users.
- Block unauthorized access by using a firewall or virtual private network (VPN), etc., and allow remote login only to administrators when connecting the PCs with the affected product installed to the Internet.
- Restrict physical access to the PC with the affected product installed and the network to which the PC is connected to prevent unauthorized physical access.
- Do not click on web links in emails from untrusted sources. Also, do not open attachments in untrusted emails.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates on its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to CISA for tracking and correlation against other incidents.

## 29 IcoKeypad Un-secured Application Launch (ICS-CERT Advisory ICSA-25-352-04)

**29.1 Date:** December 2025

### 29.2 Issue – Discussion

Malicious code execution vulnerability exists in the software keyboard function (hereinafter referred to as "keypad function") of ICONICS Suite, GENESIS64, and MobileHMI, which could lead to denial-of-service (DoS), information tampering, and information disclosure. An attacker may be able to execute arbitrary executable files (EXE) when a legitimate user uses the keypad function by tampering with the configuration file for the keypad function. This could allow the attacker to disclose, tamper with, delete, or destroy information stored on the PC where the affected product is installed, or cause a denial-of-service (DoS) condition on the system, through the execution of the EXE. This has been addressed in the Version 10.97.3 release.

### 29.3 Products Affected

The following table identifies products and versions that may be affected.

Product / Component	Version	Security Impact	CVSS	CWE	CVE
ICONICS Suite, GENESIS64, and MobileHMI / GraphWorX64 keypad	All versions up to and including 10.97.2	Malicious code execution	8.2 CVSS 3.1 (AV:L/AC:L/PR:L/UI:R/S:C/C:H/I:H/A:H);  7.0 CVSS 4.0 (AV:L/AC:L/AT:N/PR:L/UI:P/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N)	78 – Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection')	<a href="#">CVE-2025-11774</a>

### 29.4 Impact

Successful exploitation of this vulnerability could result in denial-of-service (DoS), information tampering, and information disclosure. The specific impact to an organization depends on many factors unique to that organization. Mitsubishi Electric Iconics Digital Solutions recommends that organizations evaluate the impact of this vulnerability based on their environment, architecture, and product implementation.

### 29.5 Vulnerability

EXPLOITABILITY: This vulnerability is locally exploitable and does require user interaction.

EXISTENCE OF EXPLOIT: There is no known exploit code specifically targeting this vulnerability.

DIFFICULTY: Low

### 29.6 Mitigation

Version 10.97.3 and later is not vulnerable to this issue. Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Don't open files from untrusted sources.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.

- Do not click web links from untrusted sources. Also, do not open unsolicited or untrusted attachments in e-mail messages.
- Use the 10.97.3 or later version of the products, which contains the fix for this issue.
- Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 30 Multiple Vulnerabilities due to Vulnerabilities in Jungo's WinDriver in Multiple FA Engineering Software Products (ICS-CERT Advisory ICSA- 24-135-04)

**30.1 Date:** January 2026, Updated April 2026

### 30.2 Issue – Discussion

Multiple vulnerabilities due to vulnerabilities in Jungo's WinDriver exist in multiple FA engineering software products. If a malicious code is executed on a computer where the affected software product is installed, these vulnerabilities may allow a local attacker to cause a Windows blue screen (BSOD) error that results in a denial of service (DoS) condition and/or to gain Windows system privileges and execute arbitrary commands (CVE-2023-51776, CVE-2023-51777, CVE-2023-51778, CVE-2024-22102, CVE-2024-22103, CVE-2024-22104, CVE-2024-22105, CVE-2024-22106, CVE-2024-25086, CVE-2024-25087, CVE-2024-25088, CVE-2024-26314). However, attacks against these vulnerabilities can be detected by Microsoft Windows Defender. These issues have been addressed in the Version 11.00 release and higher.

Mitsubishi Electric Iconics Digital Solutions would like to thank Jongseong Kim, Byunghyun Kang, Sangjun Park, Yunjin Park, Kwon Yul, Seungchan Kim (today-0day, BoB 12th) who reported these vulnerabilities.

### 30.3 Products Affected

GENESIS64 and ICONICS Suite versions 10.97.1 through 10.97.3, including all CFRs, are affected by the following vulnerabilities:

Security Impact	CVSS	CWE	CVE
Privilege escalation vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:H/A:N)	Improper Privilege Management (CWE-2691)	CVE-2023-51776
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Uncontrolled Resource Consumption (CWE-4002)	CVE-2023-51777
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Out-of-bounds Write (CWE-7873)	CVE-2023-51778
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Uncontrolled Resource Consumption (CWE-400)	CVE-2024-22102
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Out-of-bounds Write (CWE-787)	CVE-2024-22103
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Out-of-bounds Write (CWE-787)	CVE-2024-22104

<sup>1</sup> <https://cwe.mitre.org/data/definitions/269.html>

<sup>2</sup> <https://cwe.mitre.org/data/definitions/400.html>

<sup>3</sup> <https://cwe.mitre.org/data/definitions/787.html>

Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Uncontrolled Resource Consumption (CWE-400)	CVE-2024-22105
Privilege escalation and Denial of Service (DoS) vulnerability	6.0 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:H/A:H)	Improper Privilege Management (CWE-269)	CVE-2024-22106
Privilege escalation vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:H/A:N)	Improper Privilege Management (CWE-269)	CVE-2024-25086
Denial of Service (DoS) vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:N/A:H)	Uncontrolled Resource Consumption (CWE-400)	CVE-2024-25087
Privilege escalation vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:H/A:N)	Improper Privilege Management (CWE-269)	CVE-2024-25088
Privilege escalation vulnerability	4.4 (CVSS:3.1/AV:L/AC:H/PR:L/UI:R/S:U/C:N/I:H/A:N)	Improper Privilege Management (CWE-269)	CVE-2024-26314

### 30.4 Impact

[CVE-2023-51777, CVE-2023-51778, CVE-2024-22102, CVE-2024-22103, CVE-2024-22104, CVE-2024-22105, CVE-2024-25087]

If a malicious code is executed on a computer where the affected software product is installed, these vulnerabilities may allow a local attacker to cause a Windows blue screen (BSOD) error that results in a denial of service (DoS) condition.

[CVE-2023-51776, CVE-2024-25086, CVE-2024-25088, CVE-2024-26314]

If a malicious code is executed on a computer where the affected software product is installed, these vulnerabilities may allow a local attacker to gain Windows system privileges and execute arbitrary commands.

[CVE-2024-22106]

If a malicious code is executed on a computer where the affected software product is installed, these vulnerabilities may allow a local attacker to cause a Windows blue screen (BSOD) error that results in a denial of service (DoS) condition and/or to gain Windows system privileges and execute arbitrary commands.

### 30.5 Mitigation

GENESIS64 version 10.98 and later is not vulnerable. GENESIS Version 11.00 and later is not vulnerable to these vulnerabilities. Affected customers should upgrade to one of these versions to obtain the fix for these vulnerabilities.

When installing a new GENESIS system, it is recommended to use the fixed versions. In cases where a vulnerable version of GENESIS64 or ICONICS Suite is required, then it is recommended to not install the Mitsubishi Electric FA Connector component when installing the software to mitigate this issue. For existing

systems, removal of the Mitsubishi Electric FA Connector is not supported and would require installing on a new or formatted system.

For affected users who are unable to upgrade, Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Restrict access to the affected GENESIS64 or ICONICS Suite machine only to administrators.
- Install an antivirus software in your computer using the affected product.
- Don't open files from untrusted sources.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install any applicable Critical Fixes Rollup, if available.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates, as well as the patch described above, at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers. Organizations should follow their established internal procedures if they observe suspected malicious activity and report their findings to ICS-CERT for tracking and correlation against other incidents.

## 31 Cleartext Storage of SQL Password (ICSA- 26-097-01)

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**31.1 Date:** April 2026

### 31.2 Issue – Discussion

Multiple information disclosure, tampering, and Denial-of-Service (DoS) vulnerabilities exist in GENESIS64, ICONICS Suite, MobileHMI, Hyper Historian, and AnalytiX. When the local cache (SQLite) feature of affected products is enabled and the SQL Server authentication method is SQL authentication, an attacker may be able to disclose SQL Server credentials stored on the PC where the product is installed (CVE-2025-14815). And, when the SQL Server authentication method is SQL authentication, an attacker may be able to disclose SQL Server credentials from the screen of affected products (CVE-2025-14816). As a result, the attacker could access the SQL Server illegally to disclose data, tamper with or destroy data, and cause a denial-of-service (DoS) condition on the system.

The versions of products affected by these vulnerabilities are listed below. Please implement the measures described in the “Mitigations” section.

### 31.3 Products Affected

<Affected products and versions>

GENESIS64 : Version 10.97.3 and prior

ICONICS Suite : Version 10.97.3 and prior

MobileHMI : Version 10.97.3 and prior

Hyper Historian : Version 10.97.3 and prior

AnalytiX : Version 10.97.3 and prior

The products and versions listed above are affected by the following vulnerabilities:

Security Impact	CVSS	CWE	CVE
Information disclosure, tampering, and Denial-of-Service (DoS)	9.3 (CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H)	Cleartext Storage of Sensitive Information (CWE-312)	CVE-2025-14815
Information disclosure, tampering, and Denial-of-Service (DoS)	9.3 (CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H)	Cleartext Storage of Sensitive Information in GUI (CWE-317)	CVE-2025-14816

### 31.4 Impact

An attacker may be able to disclose the SQL Server credentials used by the affected products by exploiting these vulnerabilities. As a result, the unauthorized attacker could access the SQL Server and disclose, tamper with, or destroy data on the server, potentially cause a denial-of-service (DoS) condition on the system.

## 31.5 Mitigation

Version 10.98 and later of the affected products is not vulnerable. GENESIS Version 11.03 and later is not vulnerable to these vulnerabilities, please see the "Whitepaper on GENESIS V11 Security" for more details. Affected customers should upgrade to one of these versions to obtain the fix for these vulnerabilities.

For affected users who are unable to upgrade, Mitsubishi Electric Iconics Digital Solutions recommends that users of its products take the following mitigation steps:

- Use Windows authentication instead of SQL authentication for the SQL server authentication method.
- Restrict access to the affected GENESIS64 or ICONICS Suite machine only to administrators.
- Install an antivirus software in your computer using the affected product.
- Don't open files from untrusted sources.
- Use a firewall. Place control system networks and devices behind firewalls and isolate them from the business network.
- Minimize network exposure for all control system devices. Control system devices should not directly face the Internet.
- Do not click web links or open unsolicited attachments in e-mail messages.
- Install any applicable Critical Fixes Rollup, if available.

### CVE-2025-14815

- 1) In Workbench, open the "Configure Application(s) Settings" dialog. In the "Available Applications" list, uncheck the "Local Cache" column for applications and delete the files created by the local cache functionality from the following locations.

<GENESIS64, ICONICS Suite, MobileHMI, Hyper Historian, and AnalytiX>  
C:\ProgramData\ICONICS\Cache\\*.sdf

### CVE-2025-14816

- 1) Change the permissions of HHSplitter.exe so that only trusted administrators can execute it.
- 2) Delete HHSplitter.exe from the system if it is unnecessary.

Mitsubishi Electric Iconics Digital Solutions provides information and useful links related to its security updates at its website at [Security at ICONICS | ICONICS Software Solutions](#). Mitsubishi Electric Iconics Digital Solutions is committed to providing high-quality secure products to its customers.

## Appendix A – Other Security Topics

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# WHITEPAPER ON ICONICS SUITE SECURITY VULNERABILITIES – OTHER TOPICS



**MITSUBISHI ELECTRIC  
ICONICS DIGITAL SOLUTIONS, INC.**

# 1 Mitsubishi Electric Iconics Digital Solutions Response to Microsoft Windows DCOM Hardening

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**1.1 Date:** March 2022

## 1.2 Issue – Discussion

To address a security vulnerability ([CVE-2021-26414](#)), Microsoft is hardening the Distributed Component Model (DCOM) on its Windows operating systems. The next stage of the DCOM hardening will occur on June 14, 2022, where hardening changes will be enabled by default. Currently, hardening changes are disabled by default but can be enabled via registry key.

DCOM has traditionally been the communication method used to communicate with OPC Classic servers across the network. Mitsubishi Electric Iconics Digital Solutions software can leverage DCOM communication, but by default and by best practice, most Mitsubishi Electric Iconics Digital Solutions software (both 64-bit and 32-bit) uses GenBroker communication via TCP/IP to tunnel to remote OPC Classic servers. This means that most Mitsubishi Electric Iconics Digital Solutions applications will not be affected by this hardening of DCOM security.

The following situations will NOT be affected by DCOM hardening:

- Mitsubishi Electric Iconics Digital Solutions client communicating with an OPC Classic server on the same machine.
- Mitsubishi Electric Iconics Digital Solutions client communicating with an OPC Classic server on a remote machine when configured to use GenBroker and the "OPC over TCP/IP" or "OPC over SOAP/XML" channels.
- Mitsubishi Electric Iconics Digital Solutions client communicating with an OPC UA server, database, BACnet device, SNMP device, or other devices.

The situations below are likely to be affected by the upcoming DCOM hardening and may require configuration changes:

- Mitsubishi Electric Iconics Digital Solutions client communicating with an OPC Classic server on a remote machine when configured to use the "OPC Direct" channel.
- Mitsubishi Electric Iconics Digital Solutions client communicating with an OPC Classic server on a remote machine when configured to use GenBroker and the "OPC over DCOM" channel.
- Custom scripts (including scripts running inside ScriptWorX32, ScriptWorX2010, ScriptWorX64, GraphWorX32, or GraphWorX64) that use OPC Foundation libraries or other non-Mitsubishi Electric Iconics Digital Solutions libraries to communicate with an OPC Classic server on a remote machine.
- Third-party client communicating with an Mitsubishi Electric Iconics Digital Solutions OPC Classic server on a remote machine without using a tunnel.

If your application contains one of the affected situations, Mitsubishi Electric Iconics Digital Solutions recommends implementing one or more of the following changes to prepare for DCOM hardening:

- Install and run GenBroker Server on the machine with the remote OPC Classic server.
- Use the GenBroker64 Settings in Workbench or the GenBroker Configurator to configure the "OPC over TCP/IP" channel for use with your remote OPC Classic server for Mitsubishi Electric Iconics Digital Solutions clients.
- Modify custom scripts to use Mitsubishi Electric Iconics Digital Solutions libraries and functions (such as "g.OPC" in ScriptWorX2010 or ScriptWorX64) that can take advantage of GenBroker communication.

- Upgrade OPC Classic servers to OPC UA servers if the client supports it. (Note: Mitsubishi Electric Iconics Digital Solutions clients from the 32-bit generation, such as GENESIS32 and BizViz, do not support OPC UA.)
- Use a tunneler for third-party OPC Classic clients.
- (Not recommended) Disable the Microsoft advanced security measures with a registry key. Note, this solution will not function after March 14, 2023, and may leave your system open to a security breach via DCOM.

## **2 AnyGlass Security Header in v10.97.3 – Preventing Conflicts with IIS**

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**2.1 Date:** May 2025

### **2.2 Issue – Discussion**

In the v10.97.3 release, the AnyGlass support for IIS was revised to improve security. In v10.97.3, AnyGlass had been given its own Custom Headers in Web.Config to prevent potential clickjacking attacks. A side effect of this security-related change is that the Custom Headers in Web.config could conflict with the root level ones. The result of this conflict could be AnyGlass giving a 500.19 error when you try to go to any of the AnyGlass subdirectories such as localhost/AnyGlass, after upgrading from v10.97.2 to v10.97.3 or newer version.

To address this potential header configuration issue, the user will need to manually reconfigure the headers by using the IIS Management or by editing the web.config. The following information is provided to assist with this reconfiguration:

#### **X-Frame-Options = SAMEORIGIN**

This header is designed to prevent clickjacking attacks by ensuring that your content cannot be embedded in frames or iframes on other sites. Without this header, your website becomes vulnerable to clickjacking, where malicious sites can trick users into clicking on elements of your site without their knowledge.

#### **X-XSS-Protection = 1**

The HTTP X-XSS-Protection response header was a feature of Internet Explorer, Chrome and Safari that stopped pages from loading when they detected reflected cross-site scripting ([XSS](#)) attacks. These protections are largely unnecessary in modern browsers when sites implement a strong [Content-Security-Policy](#) that disables the use of inline JavaScript ('unsafe-inline').

#### **X-Content-Type-Options = nosniff**

By setting this header, you ensure that browsers strictly follow the MIME types specified in the Content-Type headers, reducing the risk of executing malicious scripts.