

HiveForce Labs

THREAT ADVISORY

 **VULNERABILITY REPORT**

JAVS Courtroom Recording Software Hit by Supply Chain Attack

Date of Publication

May 28, 2024

Admiralty Code

A1

TA Number

TA2024210

Summary

Attack Commenced: April 2024

Affected Product: JAVS Viewer software

Malware: RustDoor, GateDoor

Impact: Attackers have compromised the installer for Justice AV Solutions (JAVS), a popular courtroom video recording software, with sophisticated RustDoor and GateDoor malware. This critical supply chain attack, identified as CVE-2024-4978, enables the malware to transmit detailed system information to its command-and-control server, allowing attackers to seize control of affected systems.

🔧 CVE

CVE	NAME	AFFECTED PRODUCT	ZERO-DAY	CISA KEV	PATCH
CVE-2024-4978	JAVS Arbitrary code Execution Vulnerability	JAVS Viewer software	✗	✗	✓

Vulnerability Details

#1

Adversaries have backdoored the installer for the widely used Justice AV Solutions (JAVS) courtroom video recording software with RustDoor and GateDoor malware, enabling them to take control of compromised systems. JAVS technologies, implemented in over 10,000 locations worldwide, are integral to courtrooms, chambers, jury rooms, jail and prison facilities, as well as council, hearing, and lecture rooms. This supply chain attack is tracked as CVE-2024-4978.

#2

The installer includes a loader linked to the GateDoor/Rustdoor malware family, which facilitates unauthorized remote access, collects data from the host computer, and downloads additional malicious payloads. RustDoor was initially identified in December 2023, with its Windows variant known as GateDoor, written in Golang instead of Rust. JAVS has removed the compromised JAVS Viewer version 8.3.7 from its official website.

#3

The trojanized software featured a malicious ffmpeg.exe binary signed with an unexpected Authenticode signature. Upon execution, the malware transmits system information to its command-and-control (C2) server via Windows sockets and WinHTTP requests. Once connected, it relays detailed data about the compromised host, including hostname, operating system details, processor architecture, program working directory, and username.

Vulnerability

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2024-4978	JAVS Viewer Software Version 8.3.7	cpe:2.3:a:justice_av_solutions:viewer:*:*:*:*:* *.*	CWE-506

Recommendations



Reimaging Endpoints: It's crucial to reimage any endpoints where JAVS Viewer 8.3.7 was installed. Simply uninstalling the software won't suffice, as attackers might have implanted additional backdoors or malware. Reimaging ensures a fresh start. Completely reimaging affected endpoints and resetting associated credentials is vital to prevent attackers from persisting through backdoors or using stolen credentials.



Installing the Latest Version of JAVS Viewer: Upgrade the JAVS Viewer software to version 8.3.9 or higher, the latest safe version, after reimaging the systems. Users with version 8.3.7 of the JAVS Viewer executable installed are at high risk and should take immediate action.



Vendor and Third-Party Risk Management: Regularly assess the security posture of third-party vendors and service providers involved in the ecosystem. Ensure that vendors adhere to security best practices and compliance requirements to minimize supply chain risks.



Vulnerability Management: This involves regularly assessing and updating software to address known vulnerabilities. Maintain an inventory of software versions and security patches, and evaluate the security practices of third-party vendors, especially for critical applications and services.

Potential MITRE ATT&CK TTPs

<u>TA0042</u> Resource Development	<u>TA0001</u> Initial Access	<u>TA0002</u> Execution	<u>TA0003</u> Persistence
<u>TA0005</u> Defense Evasion	<u>TA0006</u> Credential Access	<u>TA0007</u> Discovery	<u>TA0009</u> Collection
<u>TA0011</u> Command and Control	<u>TA0010</u> Exfiltration	<u>TA0040</u> Impact	<u>T1059</u> Command and Scripting Interpreter
<u>T1587</u> Develop Capabilities	<u>T1587.002</u> Code Signing Certificates	<u>T1587.001</u> Malware	<u>T1608</u> Stage Capabilities
<u>T1195</u> Supply Chain Compromise	<u>T1588.006</u> Vulnerabilities	<u>T1059.001</u> PowerShell	<u>T1059.006</u> Python
<u>T1204.002</u> Malicious File	<u>T1546.016</u> Installer Packages	<u>T1036</u> Masquerading	<u>T1027.009</u> Embedded Payloads
<u>T1212</u> Exploitation for Credential Access	<u>T1082</u> System Information Discovery	<u>T1105</u> Ingress Tool Transfer	<u>T1041</u> Exfiltration Over C2 Channel

Indicators of Compromise (IOCs)

TYPE	VALUE
File Name	JAVS.Viewer8.Setup_8.3.7.250-1.exe, ffmpeg.exe, Chrome_installer.exe, Main.exe, Dll2.dll, firefox_updater.exe, ChromeDiscovery.exe, OneDriveStandaloneUpdater.exe

TYPE	VALUE
URLs	hxxps[:]//www[.]javs[.]com/download/45819/, hxxps[:]//45[.]120[.]177[.]178/gateway/register, hxxps[:]//45[.]120[.]177[.]178/gateway/report
IPv4	45[.]120[.]177[.]178
SHA256	aace6f617ef7e2e877f3ba8fc8d82da9d9424507359bb7dcf6b81c889 a755535, fe408e2df48237b11cb724fa51b6d5e9c74c8f5d5b2955c22962095c7 ed70b2c, a5e24c10d595969858af422c6dff6bed5f9c6c49dc9622d694327323d 8a57d72, f8a734d5e7a7b99b29182dddf804d5daa9d876bf39ce7a0472179436 7a73da51, 4150452d8041a6ec73c447cbe3b1422203ffdfbf5c845dbac1bed74b 33a5e09, 2183c102c107d11ae8aa1e9c0f2af3dc8fa462d0683a033d62a982364 a0100d0, 4f0ca76987edfe00022c8b9c48ad239229ea88532e2b7a7cd6811ae3 53cd1eda, d8def4437bd76279ec6351b65156d670ec0fed24d904e6648de536fe d1061671, C65ee0f73f53b287654b6446ffe7264e0d93b24302e7f0036f5e7db37 48749b9

Patch Details

Upgrade to the latest version of JAVS Viewer, version 8.3.8 or higher

Link:

<https://www.javs.com/downloads/>

References

<https://www.rapid7.com/blog/post/2024/05/23/cve-2024-4978-backdoored-justice-av-solutions-viewer-software-used-in-apparent-supply-chain-attack/>

<https://medium.com/s2wblog/rustdoor-and-gatedoor-a-new-pair-of-weapons-disguised-as-legitimate-software-by-suspected-34c94e558b40>

<https://www.hivepro.com/threat-advisory/smoothoperator-campaign-trojanizes-3cxdesktopapp/>

What Next?

At Hive Pro, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

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