

CVE-2025-6554: TYPE CONFUSION IN V8 IN GOOGLE CHROME

Vairav CVE Report

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EXECUTIVE SUMMARY

Google has released an urgent security update for the Chrome browser to address a high-

severity zero-day vulnerability (CVE-2025-6554) that is actively exploited in the wild. The

vulnerability, caused by a type confusion flaw in the V8 JavaScript engine, could allow

remote attackers to execute arbitrary code on targeted systems. Chrome has been updated

to version 138.0.7204.96/.97 (Windows), 138.0.7204.92/.93 (Mac), and 138.0.7204.96 (Linux)

to mitigate the issue. All users are strongly advised to update immediately.

VULNERABILITY DETAILS

CVE-2025-6554: Type Confusion in V8 JavaScript Engine

Description: This vulnerability involves a type confusion issue in Chrome's V8 JavaScript

engine, which occurs when the browser misinterprets an object type during execution. This

allows an attacker to manipulate memory, potentially executing arbitrary code within the

browser context. The flaw can be exploited via a specially crafted HTML page.

Impact: Remote Code Execution

CVSS Score: Not officially published; rated High by Google

Exploit Status: Confirmed exploitation in the wild

AFFECTED PRODUCTS/VERSIONS

Chrome versions prior to 138.0.7204.96 (Linux)

• Chrome versions prior to 138.0.7204.96/.97 (Windows)

Chrome versions prior to 138.0.7204.92/.93 (Mac)

EXPLOIT DETAILS

Google has confirmed that CVE-2025-6554 is being actively exploited in the wild. The flaw

allows remote attackers to achieve arbitrary code execution via type confusion, potentially

resulting in system compromise. Exploitation can occur through a maliciously crafted

webpage and does not require user interaction beyond visiting the page.

RECOMMENDED ACTIONS

Update Immediately: Upgrade Chrome to version 138.0.7204.96/.97 (Windows),

138.0.7204.92/.93 (Mac), or 138.0.7204.96 (Linux).



- **Verify Installation:** Go to chrome://settings/help to trigger and verify the update.
- **Restart Chrome:** Restart the browser to apply the patch after updating.
- **Enterprise Rollout:** Organizations should prioritize patch deployment to prevent potential compromise on scale.

REFERENCES

https://cybersecuritynews.com/chrome-0-day-vulnerability-exploited/ https://chromereleases.googleblog.com/2025/06/stable-channel-update-for-desktop_30.html

https://www.cve.org/CVERecord?id=CVE-2025-6554



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