

# NSA finds major security flaw in Windows 10, free fix issued

January 14 2020, by Matt O'brien

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This Aug. 7, 2017, file shows a Microsoft Windows sign on display at a store in Hialeah, Fla. The National Security Agency has discovered a major security flaw in Microsoft's Windows operating system. Microsoft says the NSA notified the company about it. A fix was made available Tuesday, Jan. 14, 2020. (AP Photo/Alan Diaz)

The National Security Agency has discovered a major security flaw in Microsoft's Windows 10 operating system that could allow hackers to intercept seemingly secure communications.

But rather than exploit the flaw for its own intelligence needs, the NSA tipped off Microsoft so that it can fix the system for everyone.

Microsoft released a free software patch to fix the flaw Tuesday and credited the agency for discovering it. The company said it has not seen any evidence that hackers have used the technique discovered by the NSA.

Amit Yoran, CEO of security firm Tenable, said it is "exceptionally rare if not unprecedented" for the U.S. government to share its discovery of such a [critical vulnerability](#) with a company.

Yoran, who was a founding director of the Department of Homeland Security's computer emergency readiness team, urged all organizations to prioritize patching their systems quickly.

An advisory sent by the NSA on Tuesday said "the consequences of not patching the [vulnerability](#) are severe and widespread."

Microsoft said an attacker could exploit the vulnerability by spoofing a code-signing certificate so it looked like a file came from a trusted source.

"The user would have no way of knowing the file was malicious, because the digital signature would appear to be from a trusted provider," the company said.

If successfully exploited, an attacker would have been able to conduct "man-in-the-middle attacks" and decrypt [confidential information](#) on user connections, the company said.

Some computers will get the fix automatically if they have the automatic update option turned on. Others can get it manually by going to

Windows Update in the computer's settings.

Microsoft typically releases security and other updates once a month and waited until Tuesday to disclose the flaw and the NSA's involvement. Microsoft and the NSA both declined to say when the agency notified the company.

The agency shared the vulnerability with Microsoft "quickly and responsibly," Neal Ziring, technical director of the NSA's cybersecurity directorate, said in a blog post Tuesday.

Priscilla Moriuchi, who retired from the NSA in 2017 after running its East Asia and Pacific operations, said this is a good example of the "constructive role" that the NSA can play in improving global information security. Moriuchi, now an analyst at the U.S. cybersecurity firm Recorded Future, said it's likely a reflection of changes made in 2017 to how the U.S. determines whether to disclose a major vulnerability or exploit it for intelligence purposes.

The revamping of what's known as the "Vulnerability Equities Process" put more emphasis on disclosing unpatched vulnerabilities whenever possible to protect core internet systems and the U.S. economy and [general public](#).

Those changes happened after a group calling itself "Shadow Brokers" released a trove of high-level hacking tools stolen from the NSA.

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