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# Miele Benchmark Programming Tool 1.1.49 / 1.2.71 Privilege Escalation

Authored by W. Schober, Johannes Kruchem | Site sec-consult.com

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Miele Benchmark Programming Tool versions 1.1.49 and 1.2.71 suffer from a privilege escalation vulnerability.

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**Change Mirror** Download SEC Consult Vulnerability Lab Security Advisory < 20220427-0 > title: Privilege Escalation product: Miele Benchmark Programming Tool vulnerable version: at least 1.1.49 and 1.2.71 fixed version: 1.2.72 CVE number: CVE-2022-22521 impact: Medium homepage: https://www.miele.com/ found: 2022-01-24 by: J. Kruchem (Office Vienna) W. Schober (Office Vienna) SEC Consult Vulnerability Lab An integrated part of SEC Consult, an Atos company Europe | Asia | North America https://www.sec-consult.com Vendor description: "There are many good reasons for choosing Miele. Since the company's founding in 1899, Miele has remained true to its "Immer Besser" brand promise. This means that we will do all that we can to be "Immer Besser" (forever better) than our competitors and "Immer Besser" (forever better) than we already are. For our customers, this means the peace of mind of knowing that choosing Miele is a good decision - and probably the decision of a lifetime." Source: https://www.mieleusa.com/c/about-us-9.htm Business recommendation: The vendor provides a patched version which should be installed immediately. An in-depth security analysis performed by security professionals is highly advised, as the software may be affected from further security issues. Vulnerability overview/description: 1) Privilege Escalation (CVE-2022-22521) The path where the Miele Benchmark Programming Tool is installed is writable for any user on the Windows operation system. This allows replacing the Uninstall binary and thus an attacker gaining local admin privileges if uninstalled. Proof of concept: 1) Privilege Escalation (CVE-2022-22521) The Uninstall string can be found in the following registry entry: Computer\HKEY LOCAL MACHINE\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall\{<UUID of Miele Benchmark Programming>} The UninstallString field has the following value: "C:\MIELE\_SERVICE\Miele Benchmark Programming Tool\Uninstall Miele Benchmark Programming Tool.exe" /allusers For exploitation, replace the "Uninstall Miele Benchmark Programming Tool.exe" with a malicious binary and uninstall via Software Center or call the admin and let them uninstall the Miele Benchmark Programming Tool. Vulnerable / tested versions:

The following versions have been tested, which were the latest versions available

during the time of the test:



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Other (lower) software versions may be affected as well. 2022-03-21: Contacting vendor through psirt@miele.com
2022-03-22: Vendor answered that they will check the provided information
2022-04-07: Vendor confirmed the vulnerability and answered with aim to fix it asap
2022-04-11: Vendor sent their advisory (including CVE) and fixed version
2022-04-27: Coordinated release of advisory. Solution: The vendor provides a patched version v1.2.72 which can be downloaded here: https://www.miele.com/en/com/downloads-6770.htm Adapt permissions of the C:\MIELE\_SERVICE directory according to the least privilege principle. https://sec-consult.com/vulnerability-lab/ SEC Consult Vulnerability Lab SEC Consult, an Atos company Europe | Asia | North America About SEC Consult Vulnerability Lab
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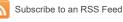
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