



Synaptics Security Advisory

Synaptics Smart Audio UWP App

CVE: CVE-2020-8337

CVSS: 0 (none) CVSS:3.1/AV:L/AC:L/PR:H/UI:N/S:U/C:N/I:N/A:N

Affected Software

Versions prior to 1.0.83.0 of the Smart Audio UWP app associated with the DCHU audio drivers on Lenovo platforms.

Impact

Directory traversal error (due to improper string quoting) allows a local administrator attacker who can place an executable file in c:\ can cause it to be run as a service.

Technical Details

The Smart Audio app failed to use proper quoting in a service name string pointing to a service under the c:\Program Files\WindowsApp directory. As a result, an attacker with administrator privileges can place an executable named Program.exe in c:\, which would be executed instead of the intended service. This leads to an escalation of privileges to the NT Authority\System account.

The zero attack impact score is due to the fact that a user with administrator privileges already has the ability to run an executable as the System account using a variety of well-known tools, as well as access System account resources by numerous methods.

Acknowledgements

Synaptics would like to thank Michele Dell'Uomo (Quantum Leap Srl - a Deloitte business) for reporting this issue.

Affected Drivers and Fixed Versions

Affected Version	Corresponding Fixed Version
Versions prior to 1.0.83.0 on Lenovo platform	Version 1.0.83.0 (or later) of the Smart Audio app, which installs with the corresponding audio driver version.