Security Advisory Report
May 5, 2022

Realtek RtsPer/RtsUer Card Reader Driver Vulnerability

Release Date
2022/05/05

Affected Projects
Realtek RtsPer driver for PCIe Card Reader
Realtek RtsUer driver for USB Card Reader

Affected Versions
RtsPer.sys version 10.0.22000.21354 and below
RtsUer.sys version 10.0.22000.31273 and below

CVE ID
CVE-2022-25476
CVE-2022-25477
CVE-2022-25478
CVE-2022-25479
CVE-2022-25480

Description
The following security issues was found in IOCTL requests provided by RtsPer/RtsUer driver:
1. Input data from user mode is not properly validated and could lead to a system crash.
2. Exposing kernel stack or pool memory to non-administrator user.
3. Access to arbitrary PCI config from a non-administrator user.
4. Access to device specific IO space and config registers from a non-administrator user.
Vulnerability Type
System Crash
Gain Privileges
Kernel Memory Leak

Attack Type
Local

Security Risk
High

Patch
RtsPer v10.0.22000.21355
RtsUer v10.0.22000.31274

# # #
Realtek is a trademark of Realtek Semiconductor Corporation. Other trademarks or registered trademarks mentioned in this release are the intellectual property of their respective owners.