

## **Security Advisory Report**

**May 5, 2022**

**Realtek RtsPer/RtsUer Card Reader Driver Vulnerability  
(CVE-2022-25476/CVE-2022-25477/CVE-2022-25478/CVE-2022-25479/CVE-2022-25480)**

### **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.