

# Security Advisory

## "regreSSHion" OpenSSH vulnerability in PRC7000

### 1 Advisory Information

**Advisory ID:** BOSCH-SA-258444

**CVE Numbers and CVSS v3.1 Scores:**

- ▶ [CVE-2024-6387](#)
  - Base Score: [8.1 \(High\)](#)

**Published:** 19 Jul 2024

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### 2 Summary

The Qualys Threat Research Unit (TRU) [1] has discovered a Remote Unauthenticated Code Execution (RCE) vulnerability in OpenSSH's server (sshd) in glibc-based Linux systems. The vulnerability, which is a signal handler race condition in OpenSSH's server (sshd), allows unauthenticated remote code execution (RCE) as root on glibc-based Linux systems; that presents a significant security risk. This race condition affects sshd in its default configuration. (Excerpt from Qualys Community [2])

### 3 Affected Products

- ▶ PRC7000
  - CVE-2024-6387
    - Version(s): 1.11.12.0 <= 1.11.12.4
    - Version(s): 1.11.13.0 <= 1.11.13.1

### 4 Solution

Update the PRC7000 firmware to version 1.11.12.5 (or newer) or 1.11.13.2 (or newer). Please contact your key account manager for the availability of your firmware variant.

### 5 Mitigation

The issue can be mitigated via strict firewall rules to prevent arbitrary third parties from connecting to the PRC7000 SSH/SFTP port 22. Please note that the SFTP connection is mandatory for the PRC7000 software to be able to work with the PRC7000 control.

## 6 Vulnerability Details

### 6.1 CVE-2024-6387

**CVE description:** A security regression (CVE-2006-5051) was discovered in OpenSSH's server (sshd). There is a race condition which can lead sshd to handle some signals in an unsafe manner. An unauthenticated, remote attacker may be able to trigger it by failing to authenticate within a set time period.

- ▶ Problem Type:
  - [CWE-364: Signal Handler Race Condition](#)
- ▶ CVSS Vector String: [CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:H/A:H](#)
  - Base Score: 8.1 (High)

## 7 Remarks

### 7.1 Security Update Information

With respect to Directive (EU) 2019/770 and Directive (EU) 2019/771 and their national transposition laws, please note:

It is your responsibility to download and/or install any security updates provided by us, for example to maintain product or data security. If you fail to install a security update provided to you within a reasonable period of time, we will not be liable for any product defect solely due to the absence of such security update.

Alternatively, we are entitled to directly download and/or install security updates regardless of your settings. In these cases, we will provide you with the relevant information, e.g., in this security advisory.

### 7.2 CVSS Scoring

Vulnerability classification has been performed using the [CVSS v3.1 scoring system](#). The CVSS environmental score is specific to each customer's environment and should be defined by the customer to attain a final scoring.

## 8 Additional Resources

[1] Qualys Threat Research Unit (TRU)

<https://www.qualys.com/tru/>

[2] regreSSHion: Remote Unauthenticated Code Execution Vulnerability in Open SSH server

<https://blog.qualys.com/vulnerabilities-threat-research/2024/07/01/regresshion-remote-unauthenticated-code-execution-vulnerability-in-openssh-server>

## 9 Revision History

19 Jul 2024: Initial Publication