Talos Vulnerability Report

TALOS-2022-1571

Robustel R1510 web_server /action/remove/ API data removal vulnerability

JUNE 30, 2022

CVE NUMBER

CVE-2022-28127

Summary

A data removal vulnerability exists in the web_server /action/remove/ API functionality of Robustel R1510 3.3.0. A specially-crafted network request can lead to arbitrary file deletion. An attacker can send a sequence of requests to trigger this vulnerability.

Tested Versions

Robustel R1510 3.3.0

Product URLs

R1510 - https://www.robustel.com/en/product/r1510-industrial-cellular-vpn-router/

CVSSv3 Score

8.7 - CVSS:3.0/AV:N/AC:L/PR:H/UI:N/S:C/C:N/I:H/A:H

CWE

CWE-20 - Improper Input Validation

Details

The R1510 is an industrial cellular router. It offers several advanced software like an innovative use of Open VPN, Cloud management, data over-use guard, smart reboot and others.

The R1510 has a web server that manages several APIs. One of these API is /ajax/remove/. This function allows to remove files, checking for possible path traversal in the provided input.

Here it is the function that handles the /ajax/remove/ API:

At [1] the variable file_name is fetched and then used, at [3], to create the string rm <file_name> -rf. The function checks, at [2], if the provided filen_name contains ... This check, allegedly, is used to prevent path traversal. But because file_name can be an absolute path, an attacker, able to control file_name would be able to delete arbitrary file and directory.

Timeline

2022-06-27 - Initial vendor contact

2022-06-28 - Vendor Disclosure

2022-06-30 - Public Release

CREDIT

Discovered by Francesco Benvenuto of Cisco Talos.

© 2022 Cisco Systems, Inc. and/or its affiliates. All rights reserved. View our Privacy Policy.