## Talos Vulnerability Report

TALOS-2021-1323

## Lantronix PremierWave 2050 Web Manager File Upload directory traversal vulnerability

NOVEMBER 15, 2021

CVE NUMBER

CVE-2021-21879

Summary

A directory traversal vulnerability exists in the Web Manager File Upload functionality of Lantronix PremierWave 2050 8.9.0.0R4. A specially-crafted HTTP request can lead to arbitrary file overwrite. An attacker can make an authenticated HTTP request to trigger this vulnerability.

Tested Versions

Lantronix PremierWave 2050 8.9.0.0R4 (in QEMU)

Product URLs

https://www.lantronix.com/products/premierwave2050/

CVSSv3 Score

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

CWE

CWE-22 - Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

Details

PremierWave 2050 is an embedded Wi-Fi Module manufactured by Lantronix.

The PremierWave 2050 allows an unprivileged, authenticated user to upload files into a restricted directory tree, rooted at /ltrx\_user/. The function responsible for handling the file upload takes two attacker-controlled HTTP Post parameters, cwd and selectedfile. The system successfully sanitizes the contents of the filename attribute of the selectedfile form-data field, removing unsafe path traversal primitives. The same level of scrutiny is not given to the cwd parameter, which is concatenated with the sanitized filename to craft the final file path for the uploaded file contents.

The above request will overwrite the contents of /ltrx\_user/../bin/traceroute with the included shell script, maintaining the original file's executable permissions. Subsequent unprivileged, authenticated requests made to the Diagnostics: Traceroute page will cause the overwritten traceroute to be executed with root privileges.

Timeline

2021-06-14 - Vendor Disclosure
2021-06-15 - Vendor acknowledged
2021-09-01 - Talos granted disclosure extension to 2021-10-15
2021-10-18 - Vendor requested release push to 2nd week of November. Talos confirmed final extension and disclosure date
2021-11-15 - Public Release

CREDIT

Discovered by Matt Wiseman of Cisco Talos.

VULNERABILITY REPORTS PREVIOUS REPORT NEXT REPORT

TALOS-2021-1322 TALOS-2021-1324

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