

## Talos Vulnerability Report

TALOS-2021-1335

### Lantronix PremierWave 2050 Web Manager FsUnmount stack-based buffer overflow vulnerability

NOVEMBER 15, 2021

#### CVE NUMBER

CVE-2021-21892

#### Summary

A stack-based buffer overflow vulnerability exists in the Web Manager FsUnmount functionality of Lantronix PremierWave 2050 8.9.0.0R4 (in QEMU). A specially crafted HTTP request can lead to remote code execution. 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-121 - Stack-based Buffer Overflow

#### Details

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

A specially crafted HTTP request can lead to a stack overflow in the function responsible for handling the FsUnmount ajax directive in the PremierWave 2050 Web Manager application, `ltrx_evo`. This function contains a vulnerable call to `sprintf` with a fixed sized destination and a user-controlled source. Successful exploitation allows an authenticated attacker with no special permissions to overflow a fixed size buffer allocated on the stack and corrupt the stack frame, resulting in attacker control of the program counter and therefore remote code execution.

Below is the full disassembly of the function responsible for handling the FsUnmount functionality.

```
[1] Store "dir" POST parameter into
[2] Store "path" POST parameter into
[3] Vulnerable 'sprintf' call
```

### Crash Information

registers —

2021-10-18 - Vendor requested release push to 2nd week of November. Talos confirmed final extension and disclosure date set

CREDIT

Discovered by Matt Wiseman of Cisco Talos.

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