



# CVE-2020-28877

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

|                        |                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>CVE</b>             | CVE-2020-28877                                                                                                         |
| <b>State</b>           | PUBLIC                                                                                                                 |
| <b>Assigner</b>        | cve@mitre.org                                                                                                          |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback                                                                           |
| <b>Published</b>       | 2020-11-20 16:15:00 UTC                                                                                                |
| <b>Updated</b>         | 2020-12-03 17:29:00 UTC                                                                                                |
| <b>Description</b>     | Buffer overflow in in the copy_msg_element function for the devDiscoverHandle server in the TP-Link WR and WDR series. |

## Risk And Classification

### Problem Types: CWE-120

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                  | Product                          | Version | Update | Edition | Language |
|------------------|-------------------------|----------------------------------|---------|--------|---------|----------|
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7400</a>          | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7400</a>          | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7400 Firmware</a> | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7400 Firmware</a> | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7500</a>          | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7500</a>          | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7500 Firmware</a> | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7500 Firmware</a> | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7660</a>          | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7660</a>          | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7660 Firmware</a> | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7660 Firmware</a> | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7800</a>          | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr7800</a>          | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7800 Firmware</a> | -       | All    | All     | All      |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr7800 Firmware</a> | -       | All    | All     | All      |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8400</a>          | -       | All    | All     | All      |

|                  |                         |                                  |   |     |     |     |
|------------------|-------------------------|----------------------------------|---|-----|-----|-----|
|                  |                         |                                  |   |     |     |     |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8400</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8400 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8400 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8500</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8500</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8500 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8500 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8600</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8600</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8600 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8600 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8620</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8620</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8620 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8620 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8640</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8640</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8640 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8640 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8660</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wdr8660</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8660 Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wdr8660 Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr708n</a>           | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr708n</a>           | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr708n Firmware</a>  | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr708n Firmware</a>  | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr880n</a>           | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr880n</a>           | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr880n Firmware</a>  | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr880n Firmware</a>  | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr882n</a>           | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr882n</a>           | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr882n Firmware</a>  | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr882n Firmware</a>  | - | All | All | All |

|                  |                         |                                 |   |     |     |     |
|------------------|-------------------------|---------------------------------|---|-----|-----|-----|
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr886n</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr886n</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr886n Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr886n Firmware</a> | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr890n</a>          | - | All | All | All |
| Hardware         | <a href="#">Tp-link</a> | <a href="#">Wr890n</a>          | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr890n Firmware</a> | - | All | All | All |
| Operating System | <a href="#">Tp-link</a> | <a href="#">Wr890n Firmware</a> | - | All | All | All |

| References                     |         |                                              |                      |
|--------------------------------|---------|----------------------------------------------|----------------------|
| Reference                      | Source  | Link                                         | Tags                 |
| GitHub - peanuts62/TP-Link-poc | MISC    | <a href="#">github.com</a>                   | Broken Link          |
| IBM X-Force Exchange           | MISC    | <a href="#">exchange.xforce.ibmcloud.com</a> | Third Party Advisory |
| CVE Program record             | CVE.ORG | <a href="#">www.cve.org</a>                  | canonical            |
| NVD vulnerability detail       | NVD     | <a href="#">nvd.nist.gov</a>                 | canonical, analysis  |

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.