

## Security Advisory 2022-035

# Critical Remote Code Execution in Zyxel Products

May 17, 2022 — v1.0

TLP:WHITE

History:

- 17/05/2022 — v1.0 – Initial publication

## Summary

In April 2022, a security researcher from Rapid7 discovered and reported a vulnerability that affects Zyxel firewall and VPN devices for business (advisory publicly released on 12th May 2022). Tracked as CVE-2022-30525 with a CVSS score of 9.8, a successful exploitation of this vulnerability allows an **unauthenticated and remote** attacker to achieve **code execution** as the `nobody` user [1].

A public exploit is available and a module had been added to the Metasploit penetration testing framework. This vulnerability is currently exploited in the wild by attackers to get access to information systems [2].

It is **strongly** recommended to apply the vendor patch as soon as possible.

## Technical Details

The affected products are vulnerable to unauthenticated and remote command injection via the administrative HTTP interface. This vulnerability is exploited through the `/ztp/cgi-bin/handler` URI and is the result of passing unsanitized attacker input into the `os.system` method in `lib_wan_settings.py`. The vulnerable functionality is invoked in association with the `setWanPortSt` command. An attacker can inject arbitrary commands into the `mtu` or the `data` parameter [1].

## Affected Products

The list of affected products is following [2]:

Affected Models	Impacted version	Fixed Version
USG FLEX 100, 100W, 200, 500, 700	ZLD5.00 through ZLD5.21 Patch 1	ZLD V5.30
USG FLEX 50(W), USG20(W)-VPN	ZLD5.10 through ZLD5.21 Patch 1	ZLD V5.30
ATP series	ZLD5.10 through ZLD5.21 Patch 1	ZLD V5.30
VPN series	ZLD V4.60 through ZLD V5.21 Patch 1	ZLD V5.30

## Recommendations

CERT-EU strongly recommends to apply the vendor patch as soon as possible. It can be done by enabling automatic firmware update.

## References

[1] <https://www.rapid7.com/blog/post/2022/05/12/cve-2022-30525-fixed-zyxel-firewall-unauthenticated-remote-command-injection/>

[2] <https://www.bleepingcomputer.com/news/security/hackers-are-exploiting-critical-bug-in-zyxel-firewalls-and-vpns/>