

Zyxel Routers and Home WiFi Systems - Unprotected Root Access via UART Using Default Password

High

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Synopsis

On Zyxel models NBG6818, NBG7815, WSQ20, WSQ50, WSQ50, WSQ60, and WSR30, the UART port on the PCB board gives a root BusyBox shell that prompts for a non-user configurable hardcoded default password present in a configuration file on the firmware (/etc/uci_defconfig/system):

```
/etc/uci_defconfig/system:
option pwd "nbg6818@2019"
option gui_pwd "1234"
option language "en"
```

For this particular model (NBG6818), the default password is "nbg6818@2019". Other affected models will have different default passwords.

Solution

See vendor advisory for instructions on how to update to patched firmware.

Additional References

 $https://www.zyxel.com/support/Zyxel_security_advisory_for_pre-configured_password_management_vulnerability_of_home_routers_and_WiFi_systems.shtml$

Disclosure Timeline

8/25/2021 - Vendor Alerted

8/25/2021 - Vendor Acknowledged

8/26/2021 - Vendor asked for more information

8/26/2021 - Tenable responded

8/30/2021 - Zyxel responds and plans to assigns CVE

9/3/2021 - Zyxel informs they plan to disclose on November 23

9/27/2021 - Zyxel asks for disclosure link information

10/5/2021 - Tenable responds with disclosure link information

11/23/2021 - Zyxel release patches

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If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: CVE-2021-35033

Tenable Advisory ID: TRA-2022-06

Credit: Nicholas Miles

CVSSv3 Base / Temporal Score: 7.8/7.0

 $\textbf{CVSSv3 Vector:} \ \ \text{CVSS:} 3.1/\text{AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H}$

Additional Keywords: zyxel

uart

Affected Products: NBG6818 NBG7815

WSQ20 WSQ50 WSQ60 WSR30

Risk Factor: High

Advisory Timeline

2/28/2022 - Advisory published



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