Silicon Labs Security Advisory

A-00000515

Subject: Azure NetX vulnerabilities impacting RS9116 and SiWx917 products

CVSS Severity: High

Base Score: 9.8, Critical
Temporal Score: 8.2, High
Vector String: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H/E:U/RL:O/RC:R

Impacted Products

Product	Impacted Version
RS9116W	WiSeConnect v2.10.2, and earlier, delivered as part of SiSDK v2024.6.1 and earlier.
SiWx917	WiSeConect v3.3.2, and earlier, delivered as part of SiSDK v2024.6.1 and earlier.

Please note: As of June 2024, the Gecko SDK was renamed to the Simplicity SDK, and the versioning scheme was changed from Gecko SDK vX.Y.Z to Simplicity SDK YYYY.MM.Patch#.

CVE ID(s)
The following CVEs were published for these vulnerabilities:

- CVE-2023-48315 [1]
- CVE-2023-48316 [2]
- CVE-2023-48691 [3]
- CVE-2023-48692 [4]

Technical Summary

- 4 independent vulnerabilities in the Azure NetX TCP/IP stack, used by the wireless firmware on the RS9116 and SiWx917-based products may lead to remote code execution.

Fix/Workaround

- Impacted RS9116 customers should upgrade to WiSeConnect v2.10.3, or later, delivered as part of SiSDK v2024.6.2, and update the connectivity firmware on all devices. Instructions for updating can be found in AN1290: RS9116W Firmware Update Application Note.
- Impacted SiWx917 customers should upgrade to WiseConnect v3.3.3, or later, delivered as part of SiSDK v2024.6.2 and update the connectivity firmware on all devices. Instructions for updating the connectivity firmware for SoC devices are found here[8]. Instructions for updating the connectivity firmware for NCP devices are found here[9].
- Instructions for downloading/updating the SiSDK [6] and for upgrading a project to use a new SiSDK version [7] can be found in the Simplicity Studio Users Guide.

References

[1] https://nvd.nist.gov/vuln/detail/CVE-2023-48315

[2] https://nvd.nist.gov/vuln/detail/CVE-2023-48316

[3] https://nvd.nist.gov/vuln/detail/CVE-2023-48691

[4] https://nvd.nist.gov/vuln/detail/CVE-2023-48692

[5] https://www.silabs.com/documents/login/application-notes/an1290-rs9116w-firmware-update-application-note.pdf

[6] https://docs.silabs.com/simplicity-studio-5-users-guide/latest/ss-5-users-guide-about-the-launcher/toolbar#install

[7] https://docs.silabs.com/simplicity-studio-5-users-guide/latest/ss-5-users-guide-getting-started/project-upgrade-new-gsdk-version

[8] https://docs.silabs.com/wiseconnect/3.3.0/wiseconnect-developers-guide-developing-for-silabs-hosts/#update-si-wx91x-connectivity-firmware

[9] https://docs.silabs.com/wiseconnect/3.3.0/wiseconnect-getting-started/getting-started-with-ncp-mode-with-efr32#update-si-wx91x-connectivity-firmware

Revision History

Rev	Date	Description of Changes
1.0	2024-OCT-10	Initial publication

Guidelines on our security vulnerability policy can be found at https://www.silabs.com/security
For Silicon Labs Technical Support visit: https://www.silabs.com/support