CVE-2017-11580

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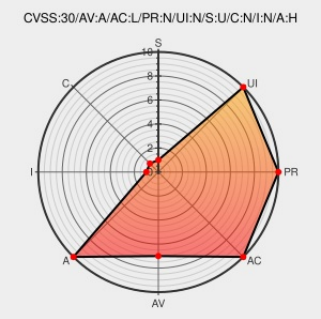

Certain versions of Wi-fi Blood Pressure Monitor from Blipcare contain the following vulnerability:

Blipcare Wifi blood pressure monitor BP700 10.1 devices allow memory corruption that results in Denial of Service. When connected to the "Blip" open wireless connection provided by the device, if a large string is sent as a part of the HTTP request in any part of the HTTP headers, the device could become completely unresponsive. Presumably this happens as the memory footprint provided to this device is very small. According to the specs from Rezolt, the Wi-Fi module only has 256k of memory. As a result, an incorrect string copy operation using either memcpy, strcpy, or any of their other variants could result in filling up the memory space allocated to the function executing and this would result in memory corruption. To test the theory, one can modify the demo application provided by the Cypress WICED SDK and introduce an incorrect "memcpy" operation and use the compiled application on the evaluation board provided by Cypress semiconductors with exactly the same Wi-Fi SOC. The results were identical where the device would completely stop responding to any of the ping or web requests.

CVE-2017-11580 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 6.5 - MEDIUM

Attack Vector	Attack Complexity	Privileges Required	User Interaction
ADJACENT_NETWORK	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: 6.1 - MEDIUM

Access Vector	Access Complexity	Authentication
ADJACENT_NETWORK	LOW	NONE

Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	COMPLETE

CVE References

Description	Tags	Link
Blipcare Clear Text Communication / Memory Corruption ≈ Packet Storm	Third Party Advisory VDB Entry packetstormsecurity.com text/html	MISC packetstormsecurity.com/files/153225/Blipcare-Clear-Text-Communication-Memory-Corruption.html
IoT_vulnerabilities/Blipcare_sec_issues.pdf at master · ethanhunnt/IoT_vulnerabilities · GitHub	Exploit Third Party Advisory github.com text/html	MISC github.com/ethanhunnt/IoT_vulnerabilities/blob/master/Blipcare_sec_i
Bugtraq: Newly releases IoT security issues	Mailing List Third Party Advisory seclists.org text/html	BUGTRAQ 20190609 Newly releases IoT security issues

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Blipcare	Wi-fi Blood Pressure Monitor	-	All	All	All
Hardware	Blipcare	Wi-fi Blood Pressure Monitor	-	All	All	All
Operating System	Blipcare	Wi-fi Blood Pressure Monitor Firmware	All	All	All	All

cpe:2.3:h:blipcare:wi-fi_blood_pressure_monitor:-:*:*:*:*:*:*:*:

cpe:2.3:h:blipcare:wi-fi_blood_pressure_monitor:-:*:*:*:*:*:*:*:

cpe:2.3:o:blipcare:wi-fi_blood_pressure_monitor_firmware:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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CVE.report and Source URL Uptime Status status.cve.report