CVE-2021-38549

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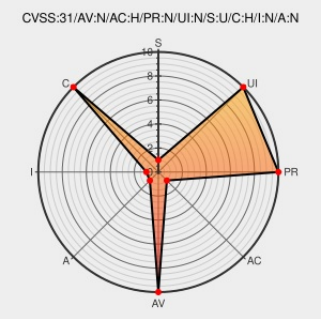

Certain versions of Miracase Hmub500 from Benda contain the following vulnerability:

MIRACASE MHUB500 USB splitters through 2021-08-09, in certain specific use cases in which the device supplies power to audio-output equipment, allow remote attackers to recover speech signals from an LED on the device, via a telescope and an electro-optical sensor, aka a "Glowworm" attack. We assume that the USB splitter supplies power to some speakers. The power indicator LED of the USB splitter is connected directly to the power line, as a result, the intensity of the USB splitter's power indicator LED is correlative to its power consumption. The sound played by the connected speakers affects the USB splitter's power consumption and as a result is also correlative to the light intensity of the LED. By analyzing measurements obtained from an electro-optical sensor directed at the power indicator LED of the USB splitter, we can recover the sound played by the connected speakers.

CVE-2021-38549 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 5.9 - MEDIUM

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

CVSS2 Score: 4.3 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**

PARTIAL | NONE | NONE

CVE References

Description	Tags	Link
Glowworm-Attack	www.nassiben.com text/html	MISC www.nassiben.com/glowworm-attack

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Benda	Miracase Hmub500	-	All	All	All
Operating System	Benda	Miracase Hmub500 Firmware	All	All	All	All

cpe:2.3:h:benda:miracase_hmub500:-:*:*:*:*:*:*:*:

cpe:2.3:o:benda:miracase_hmub500_firmware:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-38549 : MIRACASE MHUB500 USB splitters through 2021-08-09, in certain specific use cases in which the devi… twitter.com/i/web/status/1…	2021-08-11 16:08:17

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