CVE-2022-45914

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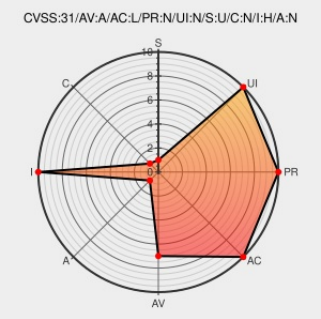

Certain versions of Electronic Shelf Label Protocol from Electronic Shelf Label Protocol Project contain the following vulnerability:

The ESL (Electronic Shelf Label) protocol, as implemented by (for example) the OV80e934802 RF transceiver on the ETAG-2130-V4.3 20190629 board, does not use authentication, which allows attackers to change label values via 433 MHz RF signals, as demonstrated by disrupting the organization of a hospital storage unit, or changing retail pricing.

CVE-2022-45914 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	HIGH	NONE

CVE References

Description	Tags	Link
Self-labeling Electronic Shelf Labels by Steffen Robertz | hardwear.io USA 2022 - YouTube	www.youtube.com text/html	MISC www.youtube.com/watch?v=FQRMNjZVIHg
Zhuhai Suny Technology ESL Tag Forgery / Replay Attacks ≈ Packet Storm	packetstormsecurity.com text/html	MISC packetstormsecurity.com/files/170177/Zhuhai-Suny-Technology-ESL-Tag-Forgery-Replay-Attacks.html
Full Disclosure: SEC Consult SA-20221201-0 :: Replay attacks & Displaying arbitrary contents in Zhuhai Suny Technology ESL Tag / ETAG-TECH protocol (electronic shelf labels)	seclists.org text/html	FULLDISC 20221208 SEC Consult SA-20221201-0 :: Replay attacks & Displaying arbitrary contents in Zhuhai Suny Technology ESL Tag / ETAG-TECH protocol (electronic shelf labels)

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There are currently no QIDs associated with this CVE

Exploit/POC from Github

The ESL (Electronic Shelf Label) protocol, as implemented by (for example) the OV80e934802 RF transceiver on the ETAG…

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Electronic Shelf Label Protocol Project	Electronic Shelf Label Protocol	-	All	All	All

cpe:2.3:a:electronic_shelf_label_protocol_project:electronic_shelf_label_protocol:-:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-45914 : The ESL Electronic Shelf Label protocol, as implemented by for example the OV80e934802 RF tran… twitter.com/i/web/status/1…	2022-11-27 01:07:47
/r/netcve	CVE-2022-45914	2022-11-27 02:38:45

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