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CRLF Injection - Sercomm VD625 CVE-2021-27132

📅 Feb 25, 2021

An issue was discovered in **Sercomm AGCOMBO VD625-Smart Modem** - Firmware version: **AGSOT_2.1.0**, there is a **CRLF Injection** vulnerability via the header field "**Content-Disposition**".

The Sercomm AGCOMBO VD625-Smart Modem is a **CPE** (Customer-premises equipment) made by Sercomm for the various **ISPs** (Internet service providers). The device in which the vulnerability was found is the one for **TIM** (Telecom Italia).



The vulnerability described below refers specifically to the firmware version: **AGSOT_2.1.0** in the image below there are complete information of the device where the vulnerability was found.

Name of device	AGCOMBO
DSL version	A2pv6F039u.d26a
Serial Number	%R045771320N067133DA3
Firmware version	AGSOT_2.1.0
Bootloader Version	1.04.0
Hardware Type & Version	V01

The device expose a **web interface** for management, it is possible to create a modified http request to the web server, just putting a .txt or other type of extension in the url of **GET** request, the device thinks it is a download request. Then the system takes the contents of the url that we insert and puts it in the header field **"Content-Disposition"** and the system will try to download this file.

This header field is not properly sanitized, so it is possible to use the **CRLF technique**(\r\n) to force the header to wrap by inserting a new line and then insert other header fields as desired in the http response.



As we can see in the image, we were able to inject the **CRLFInjection** cookie using the CRLF technique (encoding the values \r\n with %0d%0a) in the GET request with the url test.txt. In short, the system takes the url as input and puts it in the **"Content-Disposition"** field and it tries to download the selected "file", but when it finds the **CRLF** field it wraps the header and adds other header fields that we have **concatenated** in the url.

While it does not appear to be a serious impact on the system, theoretically a possible attacker could find a way to use it to **compromise the system** by loading malicious code or it could even lead to an **XSS**.

The Common Vulnerabilities and Exposures (CVE) Program has assigned the ID CVE-2021-27132 to this issue. This is a record on the CVE List (<https://cve.mitre.org/cve/>), which standardizes names for security problems.

For more info about CRLF injection: (<https://www.acunetix.com/websitesecurity/crlf>)<https://www.acunetix.com/websitesecurity/crlf-injection/>

Vulnerability timeline :

- 8/1/2021: I discovered the Vulnerability.
- 13/1/2021: The vendor was informed about the vulnerability using PSIRT@sercomm.com .
- 8/2/2021: The vendor confirmed the vulnerability, and said will fix it in the next release.
- 9/2/2021: Request CVE ID.
- 18/02/2021: Assigned CVE-2021-27132.
- 25/02/2021: Public post.

Comments

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