

RADIUS authentication vulnerability

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Version: 1.0

Executive Summary

The login using HTTPS is vulnerable if the device is using RADIUS to check the user/password and a password longer than 128 characters is submitted.

Details

The HTTPS server on the device exposes an interface to login into the device. The interface receives a username and password combination. In case the given user is configured to be authenticated with a RADIUS server, the password will be copied into a local buffer with a fixed size of 128 bytes, allowing a buffer overflow attack.

Impact

Successful exploitation of the vulnerability may cause:

- Device crash (reboot)
- Execution of code if the request is modified accordingly

Affected Products

Brand	Product Line / Platform	Product	Version
Hirschmann	Classic Firewall	EAGLE, EAGLE One	05.3.02 and before

Solution

Update affected products to the following release that resolves this issue.

Brand	Product Line / Platform	Product	Version
Hirschmann	Classic Firewall	EAGLE, EAGLE One	05.3.03

The following workarounds can be used:

- Disable RADIUS for user authentication:
 - If RADIUS authentication is disabled for user authentication, the vulnerability is not exploitable.
- Allow web server access (login requests) from known IP addresses / network only or disable web service:
 - If the access to the web server can be restricted to known IP addresses and networks, the access from “outside”/“unknown” network can be avoided. Alternatively if you don’t need the web service you can disable the web server.

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Revisions

V1.0 (February 26, 2018): Bulletin published.