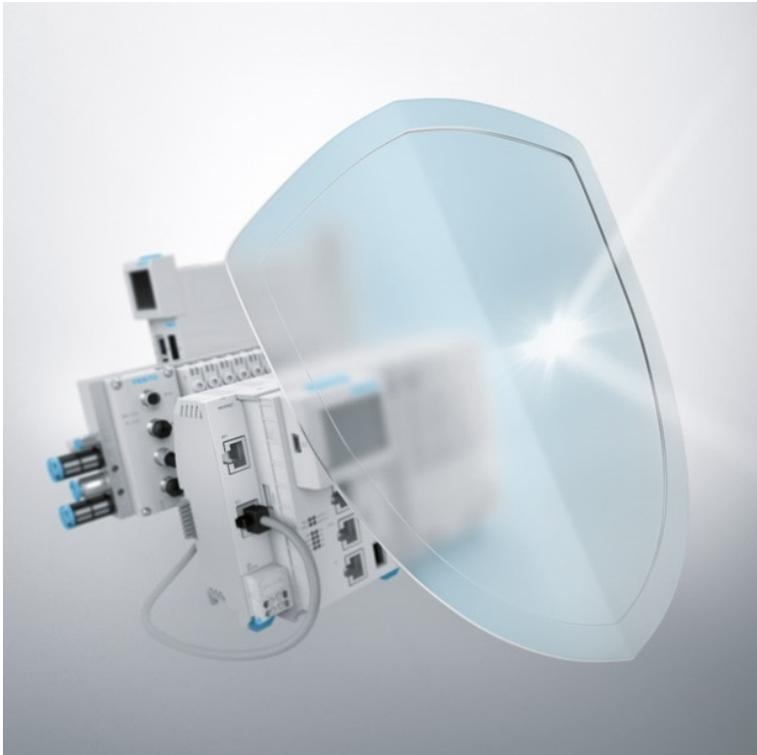


CPX-CEC-C1 and CPX-CMXX, Missing Authentication for Critical Webpage Function

FESTO



FSA-202207

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Creator
Festo SE & Co. KG

Version
1.1.0

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Summary

Unauthenticated access to critical webpage functions (e.g. reboot) may cause a denial of service of the device.

Vulnerability Identifier

CVEs: CVE-2022-3079

Severity

7.5 (CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H)

Affected Vendors

FESTO

Affected Products and Remediations

| Affected Product and Versions | Product Details | Remediation |
|--|---|---|
| Control block CPX-CEC-C1: CPX-CEC-C1 Hardware all versions: Control block CPX-CEC-C1 Firmware <= 2.0.12 affected | Festo:Partnumber: 567347 Festo:Ordercode:CPX-CEC-C1 | For all vulnerability identifiers: Currently no fix is planned. Replace CPX-CEC-C1 with follow-up product CPX-CEC-C1-V3. For further mitigations see general recommendations. See section Workarounds and Mitigations . |
| Control block-SET CPX-CEC-C1: CPX-CEC-C1 Hardware all versions: Control block CPX-CEC-C1 Firmware <= 2.0.12 affected | Festo:Partnumber: 568714 Festo:Ordercode:CPX-CEC-C1 | For all vulnerability identifiers: Currently no fix is planned. Replace CPX-CEC-C1 with follow-up product CPX-CEC-C1-V3. For further mitigations see general recommendations. See section Workarounds and Mitigations . |

| Affected Product and Versions | Product Details | Remediation |
|--|--|---|
| Control block CPX-CMXX: CPX-CMXX Hardware all versions: Control block CPX-CMXX Firmware <= 1.2.34 rev.404 affected | Festo:Partnumber: 555667 Festo:Ordercode:CPX-CMXX | For all vulnerability identifiers: Currently no fix is planned. Replace CPX-CMXX with follow up product CPX-CEC-M1-V3. For further mitigations see general recommendations. See section Workarounds and Mitigations . |
| Control block-SET CPX-CMXX: CPX-CMXX Hardware all versions: Control block CPX-CMXX Firmware <= 1.2.34 rev.404 affected | Festo:Partnumber: 555668 Festo:Ordercode:CPX-CMXX | For all vulnerability identifiers: Currently no fix is planned. Replace CPX-CMXX with follow up product CPX-CEC-M1-V3. For further mitigations see general recommendations. See section Workarounds and Mitigations . |

Workarounds and Mitigations

Remediations can be found in the table of [Affected Products and Recommendations](#).

Additionally, please refer to the [General Recommendations](#).

Impact and Classification of Vulnerabilities

CVE-2022-3079

Festo control block CPX-CEC-C1 and CPX-CMXX in multiple versions allow unauthenticated, remote access to critical webpage functions which may cause a denial of service.

Weakness: Improper Privilege Management (CWE-269)

Base Score: 7.5

Vector String: [CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H](#)

General recommendations

As part of a security strategy, Festo recommends the following general defense measures to reduce the risk of exploits:

- Use controllers and devices only in a protected environment to minimize network exposure and

ensure that they are not accessible from outside

- Use firewalls to protect and separate the control system network from other networks
- Use VPN (Virtual Private Networks) tunnels if remote access is required
- Activate and apply user management and password features
- Use encrypted communication links
- Limit the access to both development and control system by physical means, operating system features, etc.
- Protect both development and control system by using up to date virus detecting solutions

Festo strongly recommends to minimize and protect network access to connected devices with state of the art techniques and processes.

For a secure operation follow the recommendations in the product manuals.

Acknowledgments

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- Daniel dos Santos, Rob Hulsebos from Forescout for reporting to Festo (see: <https://forescout.com/>)

Publisher Details

<https://festo.com/psirt>

Festo SE & Co. KG, PSIRT, Rüter Straße 82, 73734 Esslingen Germany, psirt@festo.com

For further security-related issues in Festo products please contact the Festo Product Security Incident Response Team (PSIRT) <https://festo.com/psirt>

Also refer to:

- <https://cert.vde.com/en/advisories/VDE-2022-036/>
- CERT@VDE Security Advisories <https://cert.vde.com/en/advisories/vendor/festo/>
- CVE Entry at mitre <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2022-3079>

Revision History

| Version | Date of the revision | Summary of the revision |
|---------|-----------------------------------|--|
| 1.0.0 | September 20 th , 2022 | intial release version |
| 1.1.0 | October 17 th , 2022 | Added the product SETs for both products |

Sharing rules

TLP: WHITE

For the TLP version see: <https://www.first.org/tlp>

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