

## Security Notification SN 2023-08-01 01

Sep 12, 2023

### PM23/43 Printer Vulnerabilities

**This article contains:**

- Summary
- Potential Vulnerability Synopsis
- Affected Products
- Resolution Description
- Appendix: About CVSS

**It applies to:**

“Affected Products and Versions” section of this notice

**To mitigate the risk:**

- Follow Resolution Description procedure.

**Skills prerequisite:**

Device/Printer administration, IT administrator

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#### Summary

A critical severity vulnerability (CVE-2023-3710, CVSSv3 10.0) impacting multiple versions of the PM23/43 printer firmware was discovered.

**Attention:** Due to the wide variety of security controls, implementations and interfaces, it is the responsibility of each customer to assess the potential impact within a specific operating environment.

#### Vulnerability Synopsis

The web interface of the PM23/43 contains interfaces that execute commands on the operating system with insufficiently filtered input from users, allowing certain command execution with or without authentication.

No prerequisites are required for most of the command injections. The exploitation only works under very specific scenarios where an attacker is able to place a malicious file on the system with malicious content.

**CVSS Base Score:** [9.9] ([Critical])

Temporal Score: [8.8] ([High])

**CVSS Vector**

CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:C/C:L/I:L/A:H

#### Affected Products

The potential vulnerability affects the following product versions:

- PM23/43 series of mid-range industrial printers versions before P10.19.050006

### **Mitigating Factors**

Honeywell recommends that customers with potentially affected products should take the following steps to protect themselves:

Update to the latest available firmware version of the respective printers to version MR19.5 (e.g. P10.19.050006) or later.

Disable web access to the printers if firmware update option is not available immediately.

### **Resolution Description**

Honeywell has released an updated firmware version P10.19.050006 for PM23/43 printers.

### **Credit**

Honeywell thanks Siemens and Jinqi Lai for reporting this vulnerability.

## Appendix: About CVSS

The Common Vulnerability Scoring System (CVSS) is an open standard for communicating the characteristics and severity of software vulnerabilities. The Base score represents the intrinsic qualities of a vulnerability. The Temporal score reflects the characteristics of a vulnerability that change over time. The Environmental score is an additional score that can be used by CVSS, but is not supplied as it will differ for each customer.

The Base score has a value ranging from 0 to 10. The Temporal score has the same range and is a modification of the Base score due to current temporary factors.

The severity of the score can be summarized as follows:

Severity Rating	CVSS Score
<b>None</b>	0.0
<b>Low</b>	0.1 – 3.9
<b>Medium</b>	4.0 – 6.9
<b>High</b>	7.0 – 8.9
<b>Critical</b>	9.0 – 10.0

A CVSS score is also represented as a vector string, a compressed textual representation of the values used to derive the score.

Detailed information about CVSS can be found at <http://www.first.org/cvss>.

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