Aaron Carreras Add Corel Boss Mini CVE-2022-34827 for Patrick Hurd. History

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MNDT-2022-0040

Carel Boss Mini contains a privilege management vulnerability prior to version 1.9.0_Hotfix_20220930

Impact

High - A low-privileged user can escalate privileges from the maintainer role to root on the underlying embedded Linux operating system. As Boss Mini is an HVAC controller, the attacker may be able to affect environmental conditions in the facility it is installed in, for example an art gallery, museum, or industry.

Exploitability

Medium - Utilizing access to a maintainer account, such as by exploiting an easily guessable credential, an attacker can perform this attack with few skills and using open-source tools to proxy web traffic.

CVE Reference

CVE-2022-34827

Common Weakness Enumeration

CWE-284: Improper Access Control

Common Vulnerability Scoring System

Base Score: 9.9 - Overall Score: 9.2 - Vector: AV:N/AC:L/PR:L/UI:N/S:C/C:L/I:H/A:H/E:F/RL:O/RC:C

Technical Details

When making a simple configuration update, such as changing the system language, the entire system configuration is updated, being passed from the browser to the embedded web server. An attacker with access to the `maintainer` account can proxy this request and update their own account permissions.

An attacker can toggle the permission `"sidebar:view:/view/terminal":false` to `true` to enable access to a root terminal on the underlying embedded Linux operating system.

Resolution

Carel fixed this vulnerability in version 1.9.0_Hotfix_20220930; please update to this version to address the vulnerability. **Note: Carel declined to have Mandiant verify/test their fix.**

Discovery Credits

- Patrick Hurd, Mandiant

Disclosure Timeline

- 29-Jun-2022 & 30-Jun-2022 - Contacted Carel customer support emails to request a cybersecurity contact.
- 29-Jun-2022 & 30-Jun-2022 - Automated response to email.
- 11-Jul-2022 - Response from Carel requesting technical details.
- 12-Jul-2022 - Technical report delivered to Carel.
- 19-Jul-2022 - Carel confirms issue was known, proposes to meet in September to publicly disclose.

- 15-Sep-2022 - Carel confirms a patch is ready to be released 30-Sep, requests Mandiant to share example disclosures.
- 19-Sep-2022 - Mandiant provides sample disclosures.
- 06-Oct-2022 - Carel requests recommendations on publishing a security bulletin.
- 07-Oct-2022 - Mandiant provides a recommendation for bulletin structure.
- 21-Oct-2022 - Mandiant requests an update from Carel.
- 27-Oct-2022 - Carel agrees to share bulletin draft by wk45.
- 03-Nov-2022 - Carel shares a draft bulletin with Mandiant
- 16-Nov-2022 - Carel confirms bulletin has been published

References

- Carel Website
- Mitre CVE-2022-34827