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CYBER SECURITY ADVISORY

Lite Panel Pro
Vulnerability in Session Management
CVE ID: CVE-2025-4407

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Purpose

ABB has a rigorous internal cyber security continuous improvement process which involves regular testing with industry leading tools and periodic assessments to identify potential product issues. Occasionally an issue is determined to be a design or coding flaw with implications that may impact product cyber security.

When a potential product vulnerability is identified or reported, ABB immediately initiates our vulnerability handling process. This entails validating if the issue is in fact a product issue, identifying root causes, determining what related products may be impacted, developing a remediation, and notifying end users and governmental organizations.

The resulting Cyber Security Advisory intends to notify customers of the vulnerability and provide details on which products are impacted, how to mitigate the vulnerability or explain workarounds that minimize the potential risk as much as possible. The release of a Cyber Security Advisory should not be misconstrued as an affirmation or indication of an active threat or ongoing campaign targeting the products mentioned here. If ABB is aware of any specific threats, it will be clearly mentioned in the communication.

The publication of this Cyber Security Advisory is an example of ABB's commitment to the user community in support of this critical topic. Responsible disclosure is an important element in the chain of trust we work to maintain with our many customers. The release of an Advisory provides timely information which is essential to help ensure our customers are fully informed.

Affected products

Product	version
Lite Panel Pro	1.0.1 and older

Vulnerability IDs

CVE ID: CVE-2025-4407

Summary

ABB became aware of an internally discovered vulnerability in the **Lite Panel Pro** product listed above.

An attacker with access to local network who successfully exploits the vulnerability could have unauthorized access during a limited time window.

ABB strongly advises customers to update **Lite Panel Pro** with latest firmware version available at official product website (link).

Recommended immediate actions

The vulnerability is resolved in the following product versions:

Lite Panel Pro software version 1.1.0

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ABB advises users to update their devices to the latest firmware version, following the instructions available here: FW updates - Lite Panel Pro | Lite Panel Pro | ABB

Additionally, ABB recommends implementing defensive measures to reduce the risk of vulnerability exploitation, as outlined in the product instruction manual. Please refer to the section “Mitigation factors” for more information.

Vulnerability severity and details

ABB has become aware of the following vulnerability.

The severity assessment has been performed by using the FIRST Common Vulnerability Scoring System (CVSS) for both v3.1[1] and v4.0[2].

The indicated Common Weakness Enumerations (CWE) have been selected from the MITRE CWE list[3].

CVE ID	Title	
CVE-2025-4407	**Application does not invalidate session after password reset.**	
Description	The Lite Panel Pro web application does not invalidate active user sessions following a password reset. As a result, sessions established prior to the reset may remain valid, potentially exposing the system to unauthorized access if those session tokens are compromised. Although the session token is time-limited—expiring after 15 minutes by default—a malicious actor who obtains a valid token within this window could potentially have unauthorized access to the system.	
CWE	CWE-613: Insufficient Session Expiration.	
CVSS v3.1	Base Score:	6.7
	Temporal Score:	6.2
	Vector:	CVSS:3.1/AV:A/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:N/E:F/RL:O
CVSS v4.0	Score:	6.8
	Vector:	CVSS:4.0/AV:A/AC:L/AT:N/PR:L/UI:P/VC:H/VI:H/VA:N/SC:L/SI:L/SA:N

[1] For the CVSS v3.1 scoring only the CVSS Base Score and the Temporal Score (if information is available) are considered in this advisory. The CVSS Environmental Score, which can affect the vulnerability severity, is not provided in this advisory since it reflects the potential impact of a vulnerability within the end-user organizations’ computing environment; end-user organizations are therefore recommended to analyze their situation and specify the Environmental Score.

[2] For the CVSS v4.0 scoring only the CVSS Base Metrics and the CVSS Supplemental Metrics (if information is available) are considered in this advisory. The CVSS Environmental and Threat Metrics, which can affect the vulnerability severity, are not provided in this advisory since they reflect the potential impact of a vulnerability within the end-user organizations’ computing environment and over time depending on the vulnerability exploit maturity. Therefore, end-user organizations are recommended to analyze their situation and specify the Environmental and Threat Metrics.

[3] Common Weakness Enumeration (CWE), The MITRE Corporation, https://cwe.mitre.org/.

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CVE NVD Summary Link	https://nvd.nist.gov/vuln/detail/CVE-2025-4407

Mitigating factors

Mitigating factors describe conditions and circumstances that make an attack that exploits the vulnerability difficult or less likely to succeed.

In case customer cannot upgrade the firmware or it is not feasible then please immediately apply mitigating factors mentioned in “General security recommendations”.

Frequently asked questions

What causes the vulnerability?

The vulnerability is caused by code defect allowing the attacker to do various unintended, unauthorized actions on the target device. Please look at the description of the respective vulnerabilities in section ***Vulnerability severity and details*** for further details.

What is Lite Panel Pro?

ABB Lite Panel Pro is the state of the art in monitoring, offering a versatile switchboard HMI with a large touchscreen display and an intuitive interface.

What might an attacker use the vulnerability to do?

If mentioned vulnerability has been successfully exploited by an attacker, this could allow the attacker to take control of the target Lite Panel Pro device.

How could an attacker exploit the vulnerability?

An attacker could try to exploit the vulnerability by creating a specially crafted message and sending the message to Lite Panel Pro device. This would require that the attacker has access to the system network, by connecting to the network either directly or through a wrongly configured or penetrated security system.

Could the vulnerability be exploited remotely?

See: What might an attacker use the vulnerability to do?

What does the update do?

Lite Panel Pro version 1.1.0 update has fix for the vulnerability mentioned in ***Vulnerability severity and details*** section.

When this security advisory was issued, had this vulnerability been publicly disclosed?

No, the vulnerability mentioned has not been publicly disclosed.

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When this security advisory was issued, had ABB received any reports that this vulnerability was being exploited?

No, ABB had not received any information indicating that this vulnerability had been exploited when this security advisory was originally issued.

General security recommendations

For any installation of software-related ABB products we strongly recommend the following (non-exhaustive) list of cyber security practices:

- Isolate special purpose networks (e.g. for automation systems) and remote devices behind firewalls and separate them from any general-purpose network (e.g. office or home networks).
- Install physical controls so no unauthorized personnel can access your devices, components, peripheral equipment, and networks.
- Never connect programming software or computers containing programming software to any network other than the network for the devices that it is intended for.
- Scan all data imported into your environment before use to detect potential malware infections.
- Minimize network exposure for all applications and endpoints to ensure that they are not accessible from the Internet unless they are designed for such exposure and the intended use requires such.
- Ensure all nodes are always up to date in terms of installed software, operating system, and firmware patches as well as anti-virus and firewall.
- When remote access is required, use secure methods, such as Virtual Private Networks (VPNs). Recognize that VPNs may have vulnerabilities and should be updated to the most current version available. Also, understand that VPNs are only as secure as the connected devices.

Support

For additional instructions and support please contact your local ABB service organization. For contact information, see www.abb.com/contactcenters.

Information about ABB's cyber security program and capabilities can be found at www.abb.com/cybersecurity.

Revision history

Rev. Ind.	Page (p) Chapter (c)	Change description	Rev. date
A	all	Initial version	26-June-2025

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