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SECURITY ADVISORY

Vulnerabilities Identified in WISE-4000LAN Series

This document summarizes the vulnerabilities identified in the WISE-4000LAN product line (WISE-4010LAN, WISE-4050LAN, WISE-4060LAN), the associated CVEs, and the remediation actions completed by Advantech.

Vulnerability Type, Impact and Solution

Item	CVE ID	Impact	Solution		
1	CVE-2025-48461	Successful exploitation of the	Users are advised to enable the	日註	W ISN11: Anney D
		vulnerability could allow an unauthenticated attacker to conduct brute force guessing and account takeover as the session cookies are predictable, potentially allowing the attackers to gain root, admin or user	existing Security Mode , which restricts high-risk services.		Be [SMI]: Annex D
0	0)/5 0005 40400	access and reset passwords.	Fact in the Committee Marchalter to the		
2	CVE-2025-48462	Successful exploitation of the	Enabling Security Mode nelps	已註	解 [SN2]: Annex G
		to consume all available session slots and block other users from logging in, thereby preventing legitimate users from gaining access to the product.	brute-force login attempts by minimizing the device's exposure to unauthorized access.		
3	CVE-2025-48463	Successful exploitation of the	The built-in Security Mode	그날	ਿ [SN3]: Apport
		vulnerability could allow an attacker to intercept data and conduct session hijacking on the exposed data as the vulnerable product uses unencrypted HTTP communication, potentially leading to unauthorised access or data tampering.	disables HTTP access and improves communication security. Users should deploy devices behind a firewall or VPN and enable Security Mode after setup.		27 [ONJ]. AUTEX H
4	CVE-2025-48466	Successful exploitation of the	Firmware A2.02 B00 introduces a		AT ICNAL ALL D
		vulnerability could allow an unauthenticated, remote attacker to send Modbus TCP packets to manipulate Digital Outputs, potentially allowing remote control of relay channel which may lead to operational or safety risks.	new feature that allows users to disable Modbus TCP manually. By default, the function remains enabled. Users should also apply IP whitelisting via the built-in ACL feature to limit access.		W [OM4]: Annex B
5	CVE-2025-48467	Successful exploitation of the	Firmware A2.02 B00 includes	日封	绥 [SN5]: Anney F
		vulnerability could allow an attacker to cause repeated reboots, potentially leading to remote denial- of-service and system unavailability.	enhanced validation to reject malformed Modbus packets and prevent device crashes. It is recommended to update to the latest firmware and limit Modbus access to trusted networks.		147 Ferred Lander F
6	CVE-2025-48468	Successful exploitation of the vulnerability could allow an attacker	In firmware A2.02 B00, the JTAG interface is automatically	已註	解 [SN6]: Annex F
		that has physical access to interface with JTAG to inject or modify firmware.	disabled during normal operation. It is also recommended to apply hardware-level protection such as epoxy sealing or fuse-locking		

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			before deployment.		
7	CVE-2025-48469	Successful exploitation of the	Security Mode disables the		고하你 [CN7]: Assess A
		vulnerability could allow an	firmware upload interface after		L計解[SN7]: Annex A
		unauthenticated attacker to upload	initial setup. A popup message has		
		firmware through a public update	been added to remind users to		
		page, potentially leading to backdoor	activate Security Mode as a best		
		installation or privilege escalation.	practice.		
8	CVE-2025-48470	Successful exploitation of the stored	Enabling Security Mode disables		已計解 [SN8]: Anney C
		cross-site scripting vulnerability	non-essential web services and		
		could allow an attacker to inject	reduces the risk of XSS		
		malicious scripts into device fields	exploitation. Additional		
		and executed in other users'	improvements to input validation		
		browser, potentially leading to	are planned for future firmware		
		session hijacking, defacement,	updates.		
		credential theft, or privilege			
		escalation.			

Credits

Advantech would like to thank the following researchers for responsibly disclosing the vulnerabilities:

- CVE-2025-48469: Lam Jun Rong
- CVE-2025-48466, CVE-2025-48470: Jay Turla, Japz Divino, Jerold Camacho
- CVE-2025-48461: Joel Chang Zhi Kai
- CVE-2025-48467, CVE-2025-48468, CVE-2025-48462: Marc Heuse
- CVE-2025-48463: Chua Wei Xun

Additionally, Advantech would like to thank CSA for their collaboration on the coordinated disclosure process.

Affected Products

We strongly recommend all users update their devices to this latest firmware version as soon as possible. The update is available for download on our official website

Model Name	Download Page
WISE-4060LAN	
WISE-4010LAN	https://www.advantech.com/en/support/details/firmware-?id=1-1B835P3
WISE-4050LAN	

Revision History

Version	Description	Release Date
1.0	First Advisory published	Jun. 24, 2025