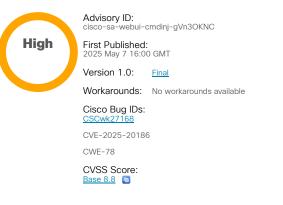


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#### Gisco Security Advisory

# Cisco IOS XE Software Web-Based Management Interface Command Injection Vulnerability



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### Summary

A vulnerability in the web-based management interface of the Wireless LAN Controller feature of Cisco IOS XE Software could allow an authenticated, remote attacker with a *lobby ambassador* user account to perform a command injection attack against an affected device.

This vulnerability is due to insufficient input validation. An attacker could exploit this vulnerability by sending crafted input to the web-based management interface. A successful exploit could allow the attacker to execute arbitrary Cisco IOS XE Software CLI commands with privilege level 15.

Note: This vulnerability is exploitable only if the attacker obtains the credentials for a *lobby ambassador* account. This account is not configured by default.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.

This advisory is available at the following link:

https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-webui-cmdinj-gVn3OKNC

This advisory is part of the May 2025 release of the Cisco IOS and IOS XE Software Security Advisory Bundled Publication. For a complete list of the advisories and links to them, see <u>Cisco Event Response: May 2025 Semiannual Cisco IOS and IOS XE Software Security Advisory</u> <u>Bundled Publication</u>.

# ^ Affected Products

#### **Vulnerable Products**

This vulnerability affects the following Cisco products if they are running a vulnerable release of Cisco IOS XE Software and have both a *lobby ambassador* account and the HTTP server feature enabled:

- · Catalyst 9800-CL Wireless Controllers for Cloud
- Catalyst 9800 Embedded Wireless Controller for Catalyst 9300, 9400, and 9500 Series Switches
- Catalyst 9800 Series Wireless Controllers
- Embedded Wireless Controller on Catalyst 9100X Series Access Points
- Integrated access points (APs) in Integrated Service Routers (ISR)1100 (Wi-Fi 6)
- · Wi-Fi 6 pluggable module for Catalyst IR1800 Rugged Series Routers

For information about which Cisco software releases are vulnerable, see the Fixed Software section of this advisory.

#### Determine the Device Configuration

Cisco IOS XE Software is only affected by this vulnerability if an affected device is configured with a *lobby ambassador* account. This is not a default configuration and must be added by an administrator. To determine whether the *lobby ambassador* account and the HTTP server feature are configured on a device, use the following instructions.

#### Determine the Lobby Ambassador Account Configuration

To determine how many *lobby ambassador* accounts are configured on a device, log in to the device and run the **show running-config** | **count type lobby-admin** CLI command. The following example shows the CLI output on a device that has one *lobby ambassador* account configured:

Router#show running-config | count type lobby-admin Number of lines which match regexp = 1

The number at the end of the line indicates how many *lobby ambassador* accounts are configured on the device. If the number is zero and the device is not using authentication, authorization, and accounting (AAA), it is not affected by this vulnerability.

Note: The *lobby ambassador* role can be associated with a user account by using RADIUS or TACACS+. Customers who are using an AAA server such as Cisco Identity Services Engine (ISE) to manage user accounts that are accessing their device should check for the presence of users that have the cisco-av-pair=lobby-admin attribute set. For an example of how to configure a *lobby ambassador* account on Cisco ISE, see <u>Configure 9800 WLC Lobby Ambassador with RADIUS and TACACS+ Authentication</u>.

#### Determine the HTTP Server Configuration

To determine whether the HTTP Server feature is enabled for a device, log in to the device and use the show running-config | include ip http server|secure|active command in the CLI to check for the presence of the ip http server command or the ip http secure-server command in the global configuration. If either command is present, the HTTP Server feature is enabled for the device.

The following example shows the output of the show running-config | include ip http server|secure|active command for a device that has the HTTP Server feature enabled:

Router# show running-config | include ip http server|secure|active ip http server ip http secure-server

Note: The presence of either command or both commands in the device configuration indicates that the web UI feature is enabled.

If the ip http server command is present and the configuration also contains ip http active-session-modules none, the vulnerability is not exploitable over HTTP.

If the ip http secure-server command is present and the configuration also contains ip http secure-active-session-modules none, the vulnerability is not exploitable over HTTPS.

### Products Confirmed Not Vulnerable

Only products listed in the <u>Vulnerable Products</u> section of this advisory are known to be affected by this vulnerability.

Cisco has confirmed that this vulnerability does not affect the following Cisco products:

- IOS Software
- · IOS XR Software
- Meraki products
- NX-OS Software
- WLC AireOS Software

# ∧ Workarounds

There are no workarounds that address this vulnerability. However, administrators may disable the *lobby ambassador* account to eliminate the attack vector for this vulnerability.

While this mitigation has been deployed and was proven successful in a test environment, customers should determine the applicability and effectiveness in their own environment and under their own use conditions. Customers should be aware that any workaround or mitigation that is implemented may negatively impact the functionality or performance of their network based on intrinsic customer deployment scenarios and limitations. Customers should not deploy any workarounds or mitigations before first evaluating the applicability to their own environment and any impact to such environment.

# Fixed Software

Cisco has released free software updates that address the vulnerability described in this advisory. Customers with service contracts that entitle them to regular software updates should obtain security fixes through their usual update channels.

Customers may only install and expect support for software versions and feature sets for which they have purchased a license. By installing, downloading, accessing, or otherwise using such software upgrades, customers agree to follow the terms of the Cisco software license: https://www.cisco.com/c/en/us/products/end-user-license-agreement.html

Additionally, customers may only download software for which they have a valid license, procured from Cisco directly, or through a Cisco authorized reseller or partner. In most cases this will be a maintenance upgrade to software that was previously purchased. Free security software updates do not entitle customers to a new software license, additional software feature sets, or major revision upgrades.

The <u>Cisco Support and Downloads page</u> on Cisco.com provides information about licensing and downloads. This page can also display customer device support coverage for customers who use the My Devices tool.

When <u>considering software upgrades</u>, customers are advised to regularly consult the advisories for Cisco products, which are available from the <u>Cisco Security Advisories page</u>, to determine exposure and a complete upgrade solution.

In all cases, customers should ensure that the devices to be upgraded contain sufficient memory and confirm that current hardware and software configurations will continue to be supported properly by the new release. If the information is not clear, customers are advised to contact the Cisco Technical Assistance Center (TAC) or their contracted maintenance providers.

#### **Customers Without Service Contracts**

Customers who purchase directly from Cisco but do not hold a Cisco service contract and customers who make purchases through thirdparty vendors but are unsuccessful in obtaining fixed software through their point of sale should obtain upgrades by contacting the Cisco TAC: <u>https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html</u>

Customers should have the product serial number available and be prepared to provide the URL of this advisory as evidence of entitlement to a free upgrade.

### Cisco IOS and IOS XE Software

To help customers determine their exposure to vulnerabilities in Cisco IOS and IOS XE Software, Cisco provides the <u>Cisco Software Checker</u>. This tool identifies any Cisco security advisories that impact a specific software release and the earliest release that fixes the vulnerabilities that are described in each advisory ("First Fixed"). If applicable, the tool also returns the earliest release that fixes all the vulnerabilities that are described in all the advisories that the Software Checker identifies ("Combined First Fixed").

To use the tool, go to the <u>Cisco Software Checker</u> page and follow the instructions. Alternatively, use the following form to determine whether a release is affected by any Cisco Security Advisory. To use the form, follow these steps:

- 1. Choose which advisories the tool will search-only this advisory, only advisories with a Critical or High <u>Security Impact Rating (SIR)</u>, or all advisories.
- 2. Enter a release number-for example, 15.9(3)M2 or 17.3.3.
- 3. Click Check.

Only this advisory	~
Enter release number	Check

## Exploitation and Public Announcements

The Cisco Product Security Incident Response Team (PSIRT) is not aware of any public announcements or malicious use of the vulnerability that is described in this advisory.

## Source

This vulnerability was found during internal security testing.

∧ URL

https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-webui-cmdinjgVn3OKNC

# Revision History

Version	Description	Section	Status	Date
1.0	Initial public release.	-	Final	2025-MAY-07

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