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Security Advisory: Firmware Update for Acer Connect W6x Router

By **Blayn-Acer** Last Updated: **May 28, 2026**

Overview

Acer has released a routine security firmware update for the Acer Connect W6x router. This update addresses potential system vulnerabilities identified through security research, including opportunities to strengthen authentication mechanisms, refine access controls, and prevent unauthorized input execution.

Acer encourages all users to update their devices to the latest firmware version to ensure optimal system protection and performance.

Affected Versions

Acer Connect W6x routers running firmware version **W6x_GBL_2.00.000005** or earlier.

Vulnerability Details


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1. Debug Service Authentication

- **Description:** Enhanced security on TCP port 9000 by ensuring proper authentication controls are applied to the debugging interface (/sbin/mtk_dut), preventing unauthorized LAN-based interactions.
- **Severity Score:** High (8.7)
- **CVSS 4.0 Vector:**
CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:L/SI:L/SA:L
- **CWE Identifier:** CWE-306 (Missing Authentication)



2. Web Interface Input Validation

- **Description:** Refined input validation for the Wi-Fi device blocking feature within the Web Admin Panel to properly handle MAC address fields and prevent unexpected system command execution.
- **Severity Score:** High (8.6)
- **CVSS 4.0 Vector:**
CVSS:4.0/AV:N/AC:L/AT:N/PR:H/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N
- **CWE Identifier:** CWE-77 (Command Injection)

3. Authentication Protocol Verification

- **Description:** Improved handling of HTTP Authorization headers for endpoints serving the Acer Connect application, ensuring malformed requests are promptly rejected rather than bypassing authentication checks.
- **Severity Score:** Critical (10.0)
- **CVSS 4.0 Vector:**
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H
- **CWE Identifier:** CWE-287 (Improper Authentication)

4. MQTT Broker Access Control

- **Description:** Strengthened access control lists (ACLs) within the local MQTT messaging broker to restrict wildcard topic subscriptions and limit message visibility to authorized actors.
- **Severity Score:** High (8.3)
- **CVSS 4.0 Vector:**
CVSS:4.0/AV:N/AC:L/AT:N/PR:L/UI:N/VC:H/VI:N/VA:N/SC:H/SI:N/SA:N
- **CWE Identifier:** CWE-284 (Improper Access Control)

5. MQTT Payload Sanitization

- **Description:** Added application-level payload sanitization to the MQTT broker processing logic to safely filter incoming messaging strings and mitigate the risk of arbitrary code execution.
- **Severity Score:** Critical (10.0)
- **CVSS 4.0 Vector:**
CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H
- **CWE Identifier:** CWE-77 (Command Injection)

Resolution


All of the vulnerabilities mentioned above have been resolved in firmware versions

W6x_GBL_2.00.000008 and later. You should update your device to the latest firmware using the instructions below.

How to Update Your Firmware:

1. Connect your computer to your Acer Connect W6x router using an Ethernet cable or Wi-Fi network.
2. Open a web browser and navigate to the router admin console (`http://192.168.76.1` or `http://acerconnect.com`).
3. Log in using your administrator credentials.
4. Navigate to **System > Firmware Update**.
5. Select **Check for Updates**.

6. Follow the on-screen prompts to download and install firmware version **W6x_GBL_2.00.000008** or later.

 Do not restart or unplug the router while the update is in progress.

Credit

Acer would like to thank security researcher **rethesis** for discovering and reporting these items.

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