



مجلس الأمن السيبراني
CYBER SECURITY COUNCIL



Security Updates - Android
Tracking #:432316821
Date:04-02-2025

EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that Google has released security updates to patch multiple vulnerabilities in the Android OS.

TECHNICAL DETAILS:

Google has released the February 2025 Android security updates, addressing 48 vulnerabilities, including a high-severity zero-day kernel vulnerability actively exploited in the wild.

Zero-Day Vulnerability (CVE-2024-53104)

- **Severity:** High
- **Component:** Android Kernel USB Video Class (UVC) Driver
- **Impact:** Privilege Escalation
- This vulnerability stems from improper parsing of UVC_VS_UNDEFINED frame types in the `uvc_parse_format` function. As a result, frame buffer size miscalculations can lead to out-of-bounds writes, potentially allowing attackers to execute arbitrary code or cause denial-of-service (DoS) conditions.
- Authenticated local threat actors can exploit this flaw in low-complexity attacks to elevate privileges.

Other Notable Vulnerability (CVE-2024-45569)

- **Severity:** Critical
- **Component:** Qualcomm WLAN
- **Impact:** Arbitrary Code Execution, Memory Corruption, System Crash
- This vulnerability arises from improper validation of array indices when parsing ML IE in WLAN host communication. Due to invalid frame content, attackers can exploit this flaw to execute arbitrary code, modify memory, or crash the system.
- Remote attackers can exploit this vulnerability without requiring privileges or user interaction.

Android Security Patch Levels:

Google has released two security patch levels for February 2025:

1. 2025-02-01 patch level: Addresses 17 vulnerabilities in the Framework component.
2. 2025-02-05 patch level: Includes all fixes from the first batch and additional patches for closed-source third-party and kernel elements.

Note: Refer to Android Security Bulletin for additions CVEs and more information

RECOMMENDATIONS:

The UAE Cyber Security Council recommends updating Android devices to the latest version.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- <https://source.android.com/docs/security/bulletin/2025-02-01>