

مجلس الأمان السيبراني

CYBER SECURITY COUNCIL



United Arab Emirates

Multiple Vulnerabilities in 7-Zip

Tracking #:432317509

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that 7-Zip disclosed two medium-severity vulnerabilities, which may result in memory corruption and denial of service on affected systems.

TECHNICAL DETAILS:

Two medium-severity vulnerabilities have been identified in 7-Zip versions prior to 25.0.0. The first ([CVE-2025-53816](#)) affects the RAR5 archive handler, where incorrect memory zeroing based on attacker-controlled values can lead to heap memory corruption and potential denial of service. The second ([CVE-2025-53817](#)) involves the Compound Document format handler, where specially crafted files can crash the application, disrupting workflows and automated processes.

While neither flaw currently enables remote code execution, both pose stability and reliability risks when handling untrusted archives.

Vulnerability Details:

- **CVE-2025-53816**
 - **Component:** RAR5 Archive Handler
 - **Issue:** Improper memory zeroing due to incorrect arithmetic involving the _lzEnd variable.
 - **Impact:** Memory corruption and potential denial of service.
 - **Severity:** Medium (CVSSv4 Base Score: 5.5)
- **CVE-2025-53817**
 - **Component:** Compound Document Format Handler
 - **Issue:** Malformed document files can crash the application.
 - **Impact:** Denial of service and workflow disruption.
 - **Severity:** Medium (CVSSv4 Base Score: 5.5)

Affected Versions:

- All versions prior to 7-Zip 25.0.0

Fixed Versions:

- 7-Zip 25.0.0

RECOMMENDATIONS:

The UAE Cyber Security Council recommends applying the latest updates released by 7-Zip.

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://nvd.nist.gov/vuln/detail/CVE-2025-53816>
- <https://nvd.nist.gov/vuln/detail/CVE-2025-53817>