مجلس الأمن السيبراني
CYBER SECURITY COUNCIL
United Arab Emirates

UEFI Firmware Updates- ASUS Intel-Based Motherboards
Tracking #:432318152
Date:18-12-2025

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that a high-severity security vulnerability (CVE-2025-11901) has been identified in the UEFI firmware of multiple ASUS motherboards based on Intel desktop and workstation chipsets.

TECHNICAL DETAILS:

A high-severity security vulnerability (CVE-2025-11901) has been identified in the UEFI firmware of multiple ASUS motherboards based on Intel desktop and workstation chipsets. The issue arises from incomplete enforcement of IOMMU DMA protection during the BIOS Pre-Boot (POST) phase.

During the window between system power-on and handoff to the operating system, DMA protections are not fully enabled, potentially allowing physically connected PCIe devices to perform unauthorized Direct Memory Access (DMA) operations. An attacker with physical access could exploit this condition using a malicious or compromised PCIe add-on device to read or modify system memory, bypassing operating system-level security controls.

ASUS has released updated BIOS versions that introduce a configurable setting to fully enable IOMMU DMA protection prior to OS handoff. Users are strongly advised to update affected systems and apply the recommended BIOS configuration changes.

Vulnerability Details
- CVE ID:CVE-2025-11901
- CVSS 4.0 Score：7 / High
- **Affected Products:** Intel Z490, W480, B460, H410, Z590, B560, H510, Z690, B660, W680, Z790, B760, and W790 series chipsets.

RECOMMENDATIONS:

Update BIOS Firmware
- Download and install the latest BIOS version for the specific motherboard model from ASUS's official support website.

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-2025-11901