Westermo-18-01: Security Advisory

CRITICAL / HIGH /**MEDIUM** / LOW 2018-01-11

Description

Westermo has been made aware of some hardware issues with modern processors (CPU:s).An unprivileged user could use these flaws to gain read access to privileged memory.

- CVE-2017-5754 (Meltdown)
- CVE-2017-5753 (Spectre)
- CVE-2017-5715 (Spectre)

After investigation it has been determined that only CVE-2017-5753 and CVE-2017-5715 is applicable to Westermo.

Affected products

- RFIR-128-F4G-T24G-HV
- RFIR-128-F4G-T24G-LV
- RFIR-128-F16G-T12G-HV
- RFIR-128-F16G-T12G-LV
- RFIR-128-T28G-HV
- RFIR-128-T28G-LV

Impact

Meltdown only affects Intel processors and Westermo does not have anyproducts with Intel processors.

The *Spectre* vulnerability on the other hand affects many microprocessors from different manufacturers. By using a feature that exists in most processors called branch prediction programs can be tricked into reading private data and as a consequence modify the state of the data cache.

This could lead to unauthorized reads of memory belonging to another process. That is memory that potentially could contain secrets like passwords or keys.

As of now there are no publically known exploits of the *Spectre* vulnerability but Westermo will monitor the development in this area and post updates. Our investigation also conclude that it will be very difficult to exploit *Spectre* remotely.

Severity

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Our severity score is calculated as if the device where configured according to our recommendations.

The Westermo CVSSv3 severity base score for this vulnerability is **4.7**

Mitigation

There is no known mitigation to the *Spectre* vulnerability.

References

http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-5715

http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-5753

http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-5754

https://developer.arm.com/support/security-update

https://meltdownattack.com/

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