

Security advisory TN1530-ST-PSIRT: ST25TB series tearing issue

Overview

This security advisory pertains to a tearing issue on the ST25TB series. It suggests measure to mitigate its impact.

Affected products

Product	Version	Type	Note
ST25TB series	All versions	RFID tag	-

Description

Under specific repeated tearing conditions (combining specific timings and field strength) during write sequences (that is, sudden RF power off), the automatic antitearing logic embedded in the product for counters (stored in blocks 5 and 6) can be bypassed.

Impact

The update of the countdown counters (stored in blocks 5 and 6) by an upper value becomes possible. The impact has to be evaluated by the customer taking into account the system where the tag is used and keeping in mind that to exploit this attack the attacker generally needs to be in close proximity to the attacked device and use specialized tools to perform the attack.

Remediation

Follow the recommendations provided in section Antitearing protection of “Best practices for security and privacy with ST25 NFC/ RFID Tags” (AN5493).”

Credit

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Contact information

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Revision history

Table 1. Document revision history

Date	Version	Changes
31-May-2024	1	Initial release.

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