



Potential issue in application firmware image verification by STM32WB0x / BlueNRG-LPx secure bootloader

Overview

This security advisory pertains to a potential issue in the verification of the signed application firmware image by the secure bootloader.

Affected products

Product	Version	Type	Note
STM32WB05 devices	Any with bootloader version 0x02	Silicon product	Bootloader is embedded within the silicon product.
STM32WB06 devices	Any with bootloader version 0x04	Silicon product	Bootloader is embedded within the silicon product.
STM32WB07 devices	Any with bootloader version 0x04	Silicon product	Bootloader is embedded within the silicon product.
STM32WB09 devices	Any with bootloader version 0x04	Silicon product	Bootloader is embedded within the silicon product.
BLUENRG-3x5yz devices	Any with bootloader version 0x04	Silicon product	Bootloader is embedded within the silicon product.
BLUENRG-332xy devices	Any with bootloader version 0x02	Silicon product	Bootloader is embedded within the silicon product.

Description

Either of the following two factors may impair the secure bootloader:

- Placing the signed application firmware image at an address other than the flash memory start address 0x10040000
- Setting the OTP address 0x10001804 to a value other than the image start address

Impact

Image verification can only be partial or fail.

Remediation

Follow the instruction in the application note [AN6140 version 3](#).

Credit

Johannes Obermaier, Amazon

Contact information

psirt@st.com

Revision history

Table 1. Document revision history

Date	Version	Changes
13-Jun-2025	1	Initial version.
29-Jul-2025	2	Updated: <ul style="list-style-type: none">Title of the document to add BlueNRG-LPx productsSection Affected products

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