



STM32Cube software HAL CRYPT driver potential issues

Overview

This security advisory pertains to STM32Cube software HAL CRYPT driver potential issues.

Affected products

Product ⁽¹⁾	Version	Type	Note
STM32CubeH7	V1.13.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeMP1	V1.7.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeU5	V1.8.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeH5	V1.6.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeWBA	V1.9.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeU3	V1.3.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeG0	V1.6.3 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeG4	V1.6.3 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeL4	V1.18.2 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeL5	V1.6.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeU0	V1.3.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-
STM32CubeWB	V1.24.0 and earlier <i>Note: Because the issue might not be fixed in subsequent release, refer to the release notes⁽²⁾ of the affected product to check if the issue has been fixed</i>	Embedded software	-

Product ⁽¹⁾	Version	Type	Note
STM32CubeWL	V1.5.0 and earlier <i>Note:</i> Because the issue might not be fixed in subsequent release, refer to the release notes ⁽²⁾ of the affected product to check if the issue has been fixed	Embedded software	-
STM32CubeWL3	V1.3.1 and earlier <i>Note:</i> Because the issue might not be fixed in subsequent release, refer to the release notes ⁽²⁾ of the affected product to check if the issue has been fixed	Embedded software	-
STM32CubeH7RS	V1.3.0 and earlier <i>Note:</i> Because the issue might not be fixed in subsequent release, refer to the release notes ⁽²⁾ of the affected product to check if the issue has been fixed	Embedded software	-
STM32CubeN6	V1.3.0 and earlier <i>Note:</i> Because the issue might not be fixed in subsequent release, refer to the release notes ⁽²⁾ of the affected product to check if the issue has been fixed	Embedded software	-

1. Some other STM32Cube expansion packages or function packages (X-CUBE, I-CUBE, STSW, FPs) could depend on the affected products, and are not mentioned in this document. Check if the STM32Cube expansion packages or function packages you use contain the affected products. If this is the case, refer to the package release note to check if the issue has been fixed.
2. Release notes are available in each downloaded package (on www.st.com product pages, on STMicroelectronics GitHub product pages, and via STM32CubeMX).

To know if the problem is fixed in a version of the STM32Cube firmware package or of the STM32 X-CUBE firmware package, check if "SA0076" is present in the release note of the HAL software component, as described in the following table:

Software component relative path	File to read	Version fixing the vulnerabilities
./Drivers/STM32YYxx_hal_driver ⁽¹⁾ /	Release_Notes.html	Contains the mention "SA0076 fixed"

1. "YY" corresponding to the STM32 series used.

Description

The CRYPT driver can be subject to a buffer overflow when the user provides an encrypt/decrypt API output buffer whose size is not a multiple of 4 bytes.

Impact

A buffer overflow can lead to the corruption of the adjacent memory, and even to the modification of user data.

Remediation

Refer to the [Affected products](#) to identify fixed products. For products that are not fixed, use an output buffer size multiple of 4 bytes in your application.

Contact information

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Revision history

Date	Version	Changes
25-Jun-2026	1	Initial release.

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