The RF-Flasher utility

Features

- The RF-Flasher standalone PC utility allows the ST wireless System-on-Chips devices flash to be read, mass erased, written and programmed. Current supported wireless devices are: BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS.
- UART mode through the devices preprogrammed UART bootloader to target flash reading, mass erasing, writing and programming operations
- SWD mode through the devices standard SWD interface to target flash reading, mass erasing, writing and programming operations
- HW SWD programming/debugging tools support (CMSIS-DAP, ST-Link, J-Link)
- The multiple devices programming through SWD and UART interface
- MAC address programming at specific flash location selected by user (UART or SWD mode)
- Standalone flasher launcher utility

Description

The STSW-BNRGFLASHER is an software package containing a standalone PC utility, which allows the ST wireless System-on-Chips devices flash to be read, mass erased, written and programmed.

It currently supports the BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS flash access through both UART and SWD interfaces using, respectively, the internal device UART bootloader and the standard SWD interface through HW SWD programming/debugging tools (CMSIS-DAP, ST-Link, J-Link).

It allows a MAC address to be stored on a specific flash location selected by user, through the UART or SWD interface. MAC address can be directly provided by user, read from an input file containing the MAC address list or set with incremental steps starting from a user provided MAC address value.
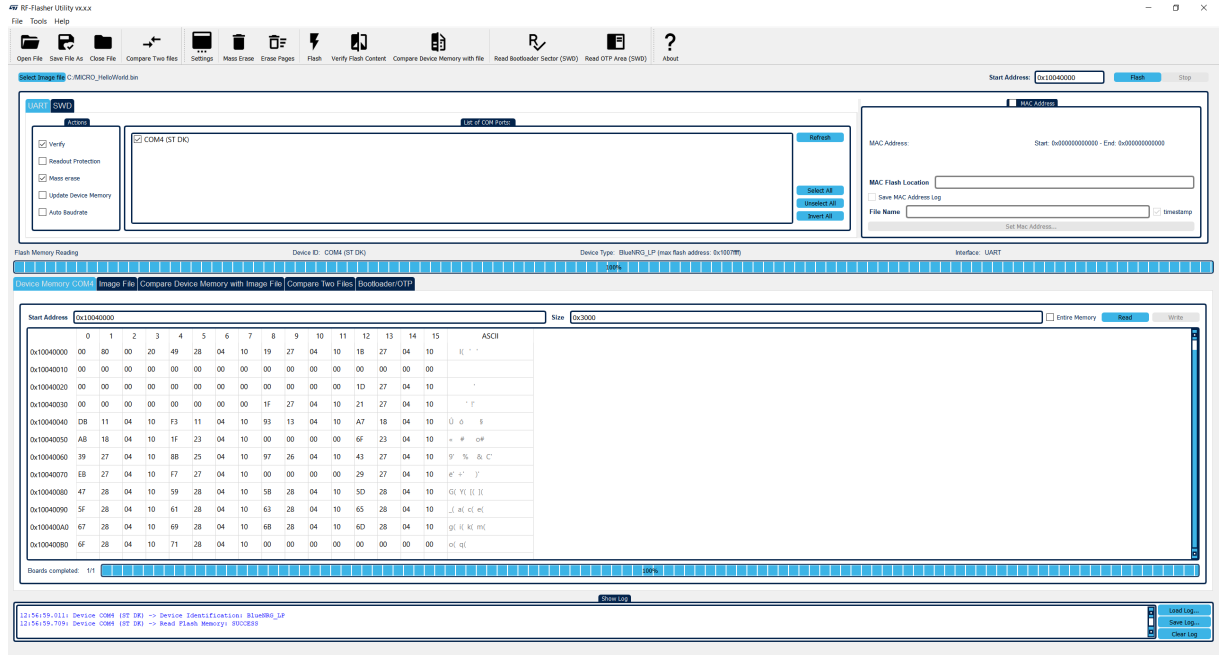
It also supports the capability to program more devices through SWD and UART interfaces. Further, user can also activate a programming loop when a single SWD programming tool is available, just plug a new device platform to be programmed, wait for programming end, and then unplug programmed platform and plug another one platform (plug and play mode).

A standalone flasher launcher utility is also provided in the RF-Flasher software package. This utility let you target flash reading, mass erasing, writing and programming operations from a PC DOS window outside the flasher GUI PC application context.

Product summary	
RF-Flasher utility software package	STSW-BNRGFLASHER
STMicroelectronics wireless system-on-chip	BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS
Evaluation platform based on BlueNRG-1/, BlueNRG-2/, BlueNRG-LP, BlueNRG-LPS	STEVAL-IDB007V2, STEVAL-IDB007V1M, STEVAL-IDB008V2, STEVAL-IDB008V1M, STEVAL-IDB009V1, STEVAL-IDB011V1, STEVAL-IDB011V2, STEVAL-IDB012V1
Applications	Wireless connectivity

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For further information contact your local STMicroelectronics sales office.

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1 The RF-Flasher PC utility

The RF-Flasher PC utility provides user-friendly tabs allowing to perform erase, read, write, and verify operations on supported flash devices.

Figure 1. The RF-Flasher PC utility

Revision history

Table 1. Document revision history

Date	Version	Changes
27-Apr-2018	1	Initial release.
21-Jun-2018	2	Updated cover image, Section Features, Section Description and Section 1 The BlueNRG-1, BlueNRG-2 Flasher PC utility.
14-Feb-2019	3	Updated cover image and Figure 1. The RF-Flasher PC utility.
14-Jul-2020	4	Updated cover image, Section Features, Section Description. Updated Figure 1. The RF-Flasher PC utility. Added reference to the BlueNRG-LP.
09-Dec-2020	5	Updated Section Features, Section Description and Section 1The RF-Flasher PC utility.
11-Oct-2021	6	Updated the title, Section Cover image, Section Features, Section Description, Section 1 The RF-Flasher PC utility. Renamed the SW package as RF-Flasher utility.
06-Apr-2022	7	Added reference to the BlueNRG-LPS device and STEVAL-IDB011V2, STEVAL-IDB012V1.
28-Jun-2024	8	Updated Figure 1. The RF-Flasher PC utility

IMPORTANT NOTICE – READ CAREFULLY