
CycloneBOOT version 2.1.0 (December 23, 2022)

Bug Fixes

- Fix bug impacting ECDSA signature verification process. A wrong crypto context was being used in iapSign* API in the previous version.
- Fix logic bug with Single Bank verification process performed by the Bootloader. In the previous version, a bad firmware image could be still processed and written to the external memory and after a reboot can be picked up by the bootloader as a new update.

New

- Introduction of new error codes for specific firmware update related error scenarios. The list of codes will be expanded gradually in upcoming releases.

Improvements

- CycloneCRYPTO library has been updated to version 2.2.0
- Reorganization of security related (authentication, signature, and integrity verification) modules into a separate package to better code reuse.
- All HTTP server demo projects will now display a message in the HTML UI, if an error occurs during firmware update process.
- Added new demonstration projects:
 - o STMicroelectronics Nucleo H743ZI2
 - HTTP Server Dual Bank Demo
 - HTTPS Client Dual Bank Demo

ApplicationImageBuilder

New

- ApplImageBuilder CLI utility has been completely overhauled.
- The source code for the utility is also now available.
- Multiplatform support (Windows/Linux) alongside POSIX compatible CLI parameters/flags have been added.
- CMake based toolchain is now used to build the project and to facilitate compilation on several different OS's

CycloneBOOT version 2.0.2 (July 29, 2022)

New

- Added new demo boards (Nucleo-STM32H7A3-ZIQ, Nucleo-STM32L496-ZG, SAME54-Xplained-Pro).
- Added new demo projects on STM32 evaluation boards (IAP Demo through USB/RNDIS with HTTP Server protocol, IAP Demo through UART with Y-Modem protocol).

Improvements

- Improved parsing process for the image update.

CycloneBOOT version 2.0.0 (March 25, 2022)

New

- Added support for Single Bank MCUs
- Added support for external flash memory devices through an abstraction layer.
- Included a static bootloader to perform advanced firmware update scenarios.
- Added support for Fallback & Anti-rollback features during firmware update.
- Demo projects for STM32 targets (Nucleo-F429ZI, Nucleo-F767ZI, STM32F769I-DISCO evaluation boards) has been added.

Improvements

- CycloneBOOT architecture has been revamped to incorporate Single Bank MCU support (with external memory).
- Expanded Cryptographic algorithms support for firmware security.

ApplicationImageBuilder

Improvements

- Added a Linux binary of ApplicationImageBuilder utility, used to create firmware update images.