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MCUBoot Tools Release Notes

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1 Overview

These are the release notes for MCUBoot tools.

This release includes the PC-hosted blhost application. The application is used for downloading firmware to Flash device in both development and production phase. This release also includes elftosb command-line application and elftosb-gui companion tool. It is used to generate bootable image for the device ROM.

2 Development tools

The host tools were compiled and tested with following development tools.

Host projects:

- Microsoft Visual Studio® Professional 2015 for Windows® OS Desktop
- Microsoft Visual Studio C++ Redistributable for Visual Studio 2015 (vcredist_x86.exe)
- Apple Xcode® v9.2 (for tools).
- Linux® OS GNU Compiler (GCC) v5.4.0, libstdc++6, libudev-dev, libc6, and libgcc1 for the Linux build.
- Linux OS tools have been tested on Ubuntu 16.04 LTS (GLIBC v2.23).
- Apple Mac® OS host tools have been tested on MacOS High Sierra v10.13.3.

3 System requirements

System requirements are based on the requirements for the development tools. The recommended PC configuration is 2 GHz processor, 2 GB RAM, and 2 GB free disk space.

Windows OS applications like blhost require installation of Visual C++ redistributable 2015 or greater.

4 Target requirements

This release of the tools supports the following platforms:

- LPCXpresso55S69
- EVK-MIMXRT685

- EVK-MIMXRT595

There are no specific requirements for the hardware other than what the board requires to operate.

5 Release contents

Table 1 describes the release contents

Table 1. Release contents

Deliverable	Location
Host binaries and utilities	blhost application is under <sdk_package>/middleware/mcu-boot/bin/Tools/blhost folder elftosb application is under <sdk_package>/middleware/mcu-boot/bin/Tools/elftosb folder elftosb-gui application is under <sdk_package>/middleware/mcu-boot/bin/Tools
Documentation	<sdk_package>/middleware/mcu-boot/doc
Tools build projects	<sdk_package>/middleware/mcu-boot/tools/tools...

6 Getting started

To understand the steps required to use the host tools to generate a user application boot image and load it to external flash device, see the blhost User's Guide, elftosb User's Guide, and elftosb-gui User's Guide under /doc directory.

7 Host tools

The bootloader release contains the binaries for the following PC-based host tools:

- elftosb: command line tool to convert ELF/SREC formatted application image into bootable image format (or SB format).
- blhost: command line tool to perform application programming.
- elftosb-gui: GUI tool to simplify the use of elftosb.

All the utilities are available for Windows, Linux, and Mac operating systems.

8 Revision history

This is the first revision of the document.

Table 2. Revision history

Revision number	Date	Substantive changes
0	05/2018	Initial Release
1	05/2018	Updates for EVK- MIMXRT595

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