

Device Firmware Upgrade (DFU) Toolkit

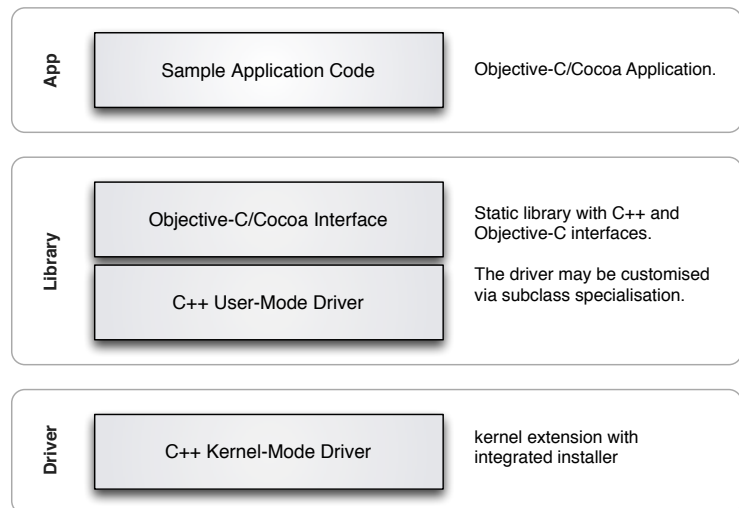
Product Brief

Overview

The DFU Toolkit comprises a kernel driver, software library and sample application that may be used to implement firmware update functionality for USB peripheral devices used with an Apple Macintosh computer.

The driver supports devices compliant with the USB Implementers Forum DFU standard and extensions are also available to support products based on the Cambridge Silicon Radio (CSR) BlueCore¹ 5 and CSR8670 chipsets. The driver can also be extended to support other non-standard devices.

The library is available as a standalone binary, or with full source code. We can also offer development services, ranging from customisation of the driver and UI through to development of any necessary embedded firmware for the target product.



Main Product Features

- proven compatibility for all Intel Macintosh computers running OS 10.6 or later
- fully compatible with the new OS 10.9 ("Mavericks") kernel driver requirements
- compatible with devices that support the USB DFU protocol, including Bluetooth devices
- optional extensions to support devices based on the CSR BlueCore platform
- 100% native Objective-C/Cocoa application interface classes
- extensible user-mode C++ core driver with support for download, upload and verify
- customisable to support proprietary USB HID and control message DFU mode switches
- optional kernel driver component allows HID and Bluetooth devices to be used
- simple drag-and-drop application installation with no standalone installer
- multithreaded implementation ensures application responsiveness at all times
- extensive source-level and HTML documentation via doxygen markup
- flexible licensing options, including full source-code availability
- supports Xcode 4.x or 5.x development environments (Xcode 4.6.3 recommended)
- clean license with no GPL contamination

¹ BlueCore is a trademark of Cambridge Silicon Radio. For more information visit <http://csr.com>.

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Standards and Compliance

- USB Device Class Specification for Device Firmware Upgrade (v1.0 and 1.1)
- Mac OS 10.6, 10.7, 10.8, and 10.9
- Intel MacOS computers with a 32 or 64 bit Intel processor
- CSR PS-KEY access compliant with bcore-sp-005Pe

Licensing Options

Licensing terms and pricing are available on request. Available options include:

- full source release (driver and application)
- binary release (driver, with application source supplied as usage example)

We can also provide quotations for a full project development, ranging from simple UI customisation through to full embedded product development.

Further Information

For further information, please contact:

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