

# iOS FeasyBlue SDK API

**Reference Manual** 

**Version 1.0** 



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# **Revision History**

Version	Date	Notes	Author
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## 1. Introduction

This reference manual presents design guidelines for software engineers that use iOS FeasyBlue SDK to create iOS App for Bluetooth connectivity requirements.

#### 1.1 iOS System Version Requirements

iOS 8.0 and above

### 1.2 Supported iOS devices

- iPhone 5 and newer iPhone
- iPad mini and newer iPad mini
- iPad 3 and newer iPad
- iPod touch 6 and newer iPod touch

### 1.3 Supported Bluetooth Profile

- GATT (Generic Attribute Profile, relevant to BLE)
- iAP2 (iOS Accessory Protocol 2, relevant to MFi)



# 2. Get started with FeasyBlue

#### 2.1 General Tools

FeasyBeacon using the "pod" tool, and uses the MJRefresh, MBProgressHUD, SVProgressHUD and Masonry third-party tools, etc. Due to the use of the "pod" tool, when you run the project, please open the project with "xcworkspace "suffix.

#### 2.2 FeasyBlue Demo App Project Setup

If you want to use the bluetooth function, add bluetooth permissions, TARGETS -> Info -> "Privacy - Bluetooth Peripheral Usage Description", and If you want to bluetooth data transmission mode in the background, please open the background model, TARGETS -> Cacpbilities -> background modes -> Uses Bluetooth LE accessories.

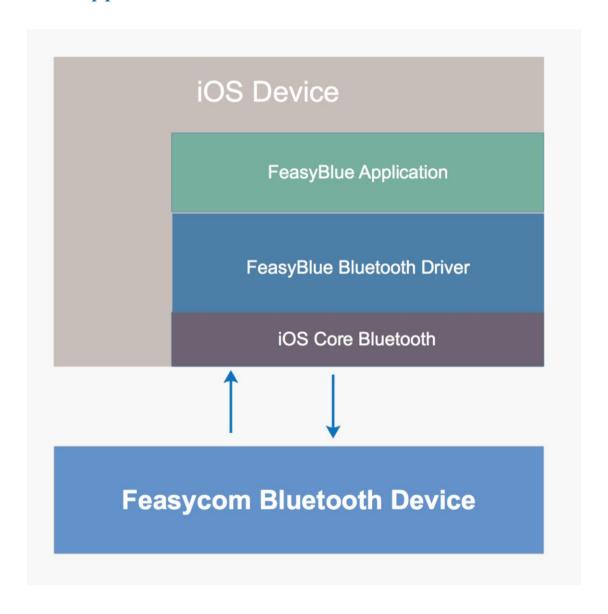
#### 2.3 Download and Run the FeasyBlue Demo App

As a first test, we recommend the communication module. When the FeasyBlue App started, it runs the communication module, and it will scan the nearby bluetooth devices. Once there is a Feasycom bluetooth module displayed on the device scanning list, you can try to connect it if it is connectable. After FeasyBlue connected to a Feasycom bluetooth module, FeasyBlue will switch to a transmission page, then you can transferring data from or to bluetooth module.



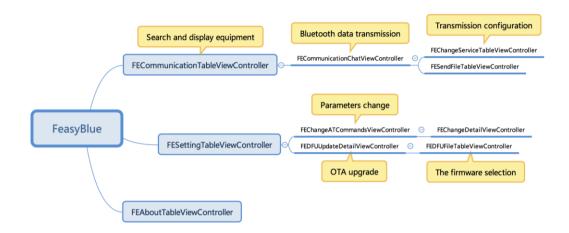
# 3. FeasyBlue Architecture

### 3.1 Application architecture

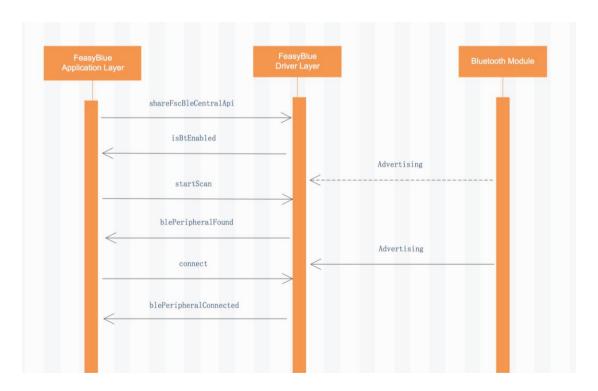




## 3.2 Page View Controller Topology



### 3.3 Typical Initialization and Connection Setup





### 4. The basis of the API

#### 4.1 ATTRIBUTES

#### 4.2 CALLBACKS

```
* @discussion
                                Get the current centralManager
- (CBCentralManager *)centralManager;
                                Peripheral enabled callback, when the state of
 * @discussion
                                central is CBManagerStatePoweredOn, call the
                               "startScan" method.
-(void)isBtEnabled:(void(^)(CBCentralManager *central))block
 * Peripheral found callback,
 * @param central
                                The central manager providing this update.
 * @param peripheral
                               A <code>CBPeripheral</code> object.
 * @param advertisementData A dictionary containing any advertisement and scan
                                response data.
 * @param RSSI
                                The current RSSI of <i>peripheral</i>, in dBm. A value of
                                 <code>127</code> is reserved and indicates the RSSI was
                                not available.
-(void)blePeripheralFound:(void(^)(CBCentralManager*central,CBPeripheral*peripheral,NS
Dictionary *advertisementData, NSNumber *RSSI))block
```



\* Peripheral connected callback, \* @param central The central manager providing this information. \* @param peripheral The <code> CBPeripheral </code> that has connected. \* @discussion This method is invoked when a connection initiated by {@link connect:} has succeeded. \*/ -(void)blePeripheralConnected:(void(^)(CBCentralManager\*central,CBPeripheral\*peripheral ))block /\*\* \* @discussion This method is invoked when SDK is ready to write data - (void)peripheralWriteDidReady:(void (^)(void))block; \* Discover services callback, \* @param services The array of services information. \* @param error If an error occurred, the cause of the failure. \* @discussion This method returns the result of a @link discoverServices @/link call. If the service(s) were read successfully, they can be retrieved via. -(void)servicesFound:(void (^)(NSArray <CBService\*>\*services,NSError \*error))block \* Peripheral disconnected callback, \* @param central The central manager providing this information. \* @param peripheral The <code>CBPeripheral</code> that has disconnected. \* @param error If an error occurred, the cause of the failure. \* @discussion This method is invoked upon the disconnection of a peripheral that was connected by {@link connect: }. If the disconnection was not initiated by {@link disconnect}, the cause will be detailed in the <i>error</i> parameter. Once this method has been. -(void)blePeripheralDisonnected:(void(^)(CBCentralManager\*central,CBPeripheral\*peripher al, NSError \*error))block \* Received packet callback, \* @param peripheral The peripheral providing this information. \* @param characteristic A <code>CBCharacteristic</code> object. \* @param error If an error occurred, the cause of the failure. \* @discussion This method is called when data is returned from the peripheral. \*/



-(void)packetReceived:(void(^)(CBPeripheral\*peripheral,CBCharacteristic\*characteristic,NSE rror\*error))block

#### 4.3 METHODS

```
* @discussion
                                Get current SDK version
 */
+ (NSString *)SDKVersion;
 * @discussion
                                The singleton. To initialize the
                                 <code>FscBleCentralApi</code>.
+(instancetype)shareFscBleCentralApi
 * @discussion
                                Start scan peripherals.
-(void)startScan
/**
 *@param UUIDs
                                UUIDs of Peripherals to scan
 *@praam allowDuplicates
                                whether allow duplicate result
 *@discussion
                                start scan peripherals with UUIDs and allowDuplicates flag
 */
- (void)startScanWithServiceUUIDs:(NSArray<CBUUID *> *)UUIDs
allowDuplicates:(BOOL)allowDuplicates;
 * @discussion
                                Stop scan peripherals.
-(void)stopScan
 * Connect peripheral,
                                 A <code> CBPeripheral </code> object.
 * @param peripheral
 * @discussion
                                See "blePeripheralConnected:".
 */
-(void)connect:(CBPeripheral *)peripheral
 * @discussion
                                Disconnect peripheral.
-(void)disconnect
```



# 5. Communication

### 5.1 METHODS

*	/* @naram response	If you the <code>CBCharacteristicWrite\WithDespense</code>				
* <pre></pre>	/* @param response	If yes, the <code>CBCharacteristicWriteWithResponse</code>				
* type is used.  * @param data						
* @param data  * @discussion  The value to back.  * @discussion  This method is asynchronous, if you want to use  * synchronized methods, see "syncSend: withResponse:".  Call this method before, please call the method  "setSendInterval:" once.  */  -(void)send:(NSData*)data (void(^)(NSData*data))block  /*  * Send data to peripheral(sync),  * @param data  The value to write.  * @param response  If yes, the <code>CBCharacteristicWriteWithResponse   * &lt; code&gt;CBCharacteristicWriteWithoutResponse   * &lt; code&gt;CBCharacteristicWriteWithoutResponse   * &lt; want to use, see "send: withResponse:  * withSendStatusBlock:".  */  -(void)syncSend:(NSData*)data withResponse:(BOOL)response  /*  * @discussion  Stop send data to peripheral and reset sending status.  */  -(void)stopSend  /*  * Specify UUID to set characteristic,  * @param serviceUUD  The UUID of service.  * @param result  * Whether its et up successfully.  * @param result  Whether to set up successfully.  * @discussion  This method allows you to specify UUID to search services and characteristics.</code>	*	•				
* @discussion  This method is asynchronous, if you want to use  synchronized methods, see "syncSend: withResponse:".  Call this method before, please call the method  "setSendInterval:" once.  */  -(void)send:(NSData*)data withResponse:(BOOL)response withSendStatusBlock: (void(^)(NSData *data))block  /*  * Send data to peripheral(sync),  * @param data The value to write.  ! @param response If yes, the <code>CBCharacteristicWriteWithResponse  * </code> type is used, and if no, the <code>CBCCharacteristicWriteWithoutResponse</code> type is used.  * @discussion This method is synchronous, asynchronous method if you want to use, see "send: withResponse:  withSendStatusBlock:".  */ -(void)syncSend:(NSData *)data withResponse:(BOOL)response  /*  * @discussion Stop send data to peripheral and reset sending status.  */ -(void)stopSend  /*  * Specify UUID to set characteristic,  * @param serviceUUID The UUID of service.  * @param characteristicUUID The UUID of characteristic.  * @param result Whether listening to.  * @param result Whether to set up successfully.  * @discussion This method allows you to specify UUID to search services and characteristics.		• •				
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<pre>* want to use, see "send: withResponse:</pre>	*	type is used.				
* withSendStatusBlock:".  */ -(void)syncSend:(NSData *)data withResponse:(BOOL)response  /*  * @ discussion Stop send data to peripheral and reset sending status.  */ -(void)stopSend  /*  * Specify UUID to set characteristic,  * @ param serviceUUID The UUID of service.  * @ param characteristicUUID The UUID of characteristic.  * @ param notify Whether listening to.  * @ param result Whether to set up successfully.  * @ discussion This method allows you to specify UUID to search  * services and characteristics.	* @discussion	This method is synchronous, asynchronous method if you				
*/ -(void)syncSend:(NSData *)data withResponse:(BOOL)response  /*     * @discussion	*	want to use, see "send: withResponse:				
-(void)syncSend:(NSData *)data withResponse:(BOOL)response  /*     * @discussion	*	withSendStatusBlock:".				
/*  * @discussion Stop send data to peripheral and reset sending status.  */ -(void)stopSend  /*  * Specify UUID to set characteristic,  * @param serviceUUID The UUID of service.  * @param characteristicUUID The UUID of characteristic.  * @param notify Whether listening to.  * @param result Whether to set up successfully.  * @discussion This method allows you to specify UUID to search  * services and characteristics.	*/					
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<ul> <li>* @param serviceUUID</li> <li>* @param characteristicUUID</li> <li>* @param notify</li> <li>* @param result</li> <li>* @discussion</li> <li>* @discussion</li> <li>* Whether listening to.</li> <li>* Whether to set up successfully.</li> <li>* This method allows you to specify UUID to search services and characteristics.</li> </ul>	/*					
* @param characteristicUUID The UUID of characteristic.  * @param notify Whether listening to.  * @param result Whether to set up successfully.  * @discussion This method allows you to specify UUID to search services and characteristics.	* Specify UUID to set characteristic,					
<ul> <li>* @param notify</li> <li>* @param result</li> <li>* @discussion</li> <li>* @discussion</li> <li>* whether to set up successfully.</li> <li>* This method allows you to specify UUID to search services and characteristics.</li> </ul>	* @param serviceUUID	The UUID of service.				
* @param result Whether to set up successfully.  * @discussion This method allows you to specify UUID to search  * services and characteristics.	* @param characteristicUUID	The UUID of characteristic.				
* @discussion This method allows you to specify UUID to search  * services and characteristics.	* @param notify	Whether listening to.				
* services and characteristics.	* @param result	Whether to set up successfully.				
	* @discussion	This method allows you to specify UUID to search				
*/	*	services and characteristics.				
: ·	*/					



-(void)setCharacteristic:(NSString\*)serviceUUID withCharacteristicUUID:(NSString \*)characteristicUUID withNotify:(BOOL)notify infoBlock:(void (^)(BOOL result))block \* Read characteristic value, \* @param characteristic A <code>CBCharacteristic</code> object. \* @discussion Read the eigenvalue information manually, see the method "readResponse:". \*/ -(void)read:(CBCharacteristic \*)characteristic \* Set send interval(ms), \* @param interval The gap between the packet. \* @discussion If you want to call the method "send: withResponse: withSendStatusBlock:", please call this method once. \*/ -(void)setSendInterval:(NSInteger)interval \* Set mtu, \* @discussion Call this method set data per packet size. \*/

#### 5.2 CALLBACKS

-(void)setAttMtu:(NSInteger)mtu

\* Peripheral disconnected callback, \* @param characteristic A <code>CBCharacteristic</code> object. \* @param data The value to back. \* @param error If an error occurred, the cause of the failure. \* @discussion This method returns the result of a {@link send: withResponse:} call, when the parameter "response" is yes. -(void)sendCompleted:(void(^)(CBCharacteristic\*characteristic,NSData\*data,NSError\*error)) block \* Response for characteristic value read, \* @param characteristic A <code>CBCharacteristic</code> object. \* @discussion This method returns the result of a @link read: @/link call. \*/ -(void)readResponse:(void(^)(CBCharacteristic\*characteristic))block



# 6. Parameter Change

#### 6.1 METHODS

\* Send AT commands,

\* @param commandArray An array containing the AT commands.

\* @discussion See the callback method "fscAtResponse:".

\*/

-(void)sendFscAtCommands:(NSArray\*)commandArray

#### 6.2 CALLBACKS

\* Response for send AT commands,

\* @param type A <code>CBCharacteristic</code> object.

\* @param status status:OK; ERROR; TIMEOUT; ModifyNoNeed.

\* @discussion This method returns the result of a @link

\* sendFscAtCommands: @/link call.

\*/

-(void)fscAtResponse:(void (^)(NSString\*type,int status))block



# 7. Device Firmware Upgrade

#### 7.1 METHODS

#### 7.2 CALLBACKS

/\*

\* OTA update callbacks,

\* @param percentage This parameter is the upgrade progress.

\* @param status This parameter is the upgrade status.

\* @discussion This method returns the result of a @link startOTA:

\* withRestoreDefaultSettings: @/link call.

\*/

-(void)otaProgressUpdate:(void (^)(CGFloat percentage, int status))block