

USB Toolbox

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

| | |
|--|----|
| <UIApplicationDelegate> | |
| CTAppDelegate | 7 |
| NSObject | |
| CTAppDelegate | 7 |
| NSValueTransformer | |
| CTNumberToHexStringTransformer | 9 |
| CTNumberToStringFormatter | 10 |

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

| | |
|--|----|
| CTAppDelegate | 7 |
| CTNumberToHexStringTransformer | 9 |
| CTNumberToStringFormatter | 10 |

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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| USB Toolbox/ CTAppDelegate.h | 13 |
| USB Toolbox/ CTAppDelegate.m | 13 |
| USB Toolbox/ CTNumberToHexStringTransformer.h | 14 |
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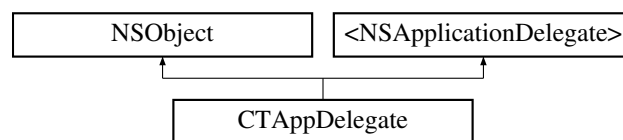
Chapter 4

Class Documentation

4.1 CAppDelegate Class Reference

```
#import <CAppDelegate.h>
```

Inheritance diagram for CAppDelegate:



Instance Methods

- (void) - [printString:](#)
- (void) - [printData:length:](#)
- (void) - [printHexFromData:length:](#)
- (void) - [printPlainTextFromData:length:](#)
- (void) - [printLibUSBError:withOperation:](#)
- (IBAction) - [doBulkTransfer:](#)
- (IBAction) - [doUSBControlTransfer:](#)
- (IBAction) - [listAllAttachedUSBDevices:](#)
- (IBAction) - [clearConsole:](#)
- (UInt8) - [convertNSStringToUInt8](#)
- (UInt16) - [convertNSStringToUInt16](#)

Protected Attributes

- IBOutlet NSWindow * [mainWindow](#)
- IBOutlet NSTextView * [consoleTextView](#)
- IBOutlet NSTextView * [inputTextView](#)
- IBOutlet NSUserDefaultsController * [userDefaultsController](#)
- libusb_device ** [allUSBDevices](#)
- libusb_device_handle * [USBDeviceHandle](#)
- libusb_device * [theUSBDevice](#)
- ssize_t [numberOfUSBDevices](#)
- NSMutableAttributedString * [outputTextStorage](#)
- NSMutableAttributedString * [inputTextStorage](#)

Properties

- NSColor * [consoleErrorTextColor](#)
- NSColor * [consoleInformationTextColor](#)
- NSColor * [consoleDataTextColor](#)
- NSColor * [consoleBackgroundColor](#)
- NSNumber * [displayHexOrPlainText](#)
- NSNumber * [bulkTransferEndpoint](#)
- NSNumber * [bulkTransferDirection](#)
- NSNumber * [bulkTransferLength](#)
- NSNumber * [deviceVID](#)
- NSNumber * [devicePID](#)
- NSNumber * [requestType](#)
- NSNumber * [requestDestination](#)
- NSNumber * [controlTransferRequest](#)
- NSNumber * [controlTransferValue](#)
- NSNumber * [controlTransferIndex](#)
- NSNumber * [controlTransferLength](#)

4.1.1 Method Documentation

- 4.1.1.1 - (IBAction) clearConsole: (id) *sender*
- 4.1.1.2 - (UInt16) convertNSStringToUInt16 (NSString *) *theString*
- 4.1.1.3 - (UInt8) convertNSStringToUInt8 (NSString *) *theString*
- 4.1.1.4 - (IBAction) doBulkTransfer: (id) *sender*
- 4.1.1.5 - (IBAction) doUSBControlTransfer: (id) *sender*
- 4.1.1.6 - (IBAction) listAllAttachedUSBDevices: (id) *sender*
- 4.1.1.7 - (void) printData: (unsigned char *) *theData* length:(int) *theLength*
- 4.1.1.8 - (void) printHexFromData: (unsigned char *) *theData* length:(int) *theLength*
- 4.1.1.9 - (void) printLibUSBError: (int) *theError* withOperation:(NSString *) *theOperation*
- 4.1.1.10 - (void) printPlainTextFromData: (unsigned char *) *theData* length:(int) *theLength*
- 4.1.1.11 - (void) printString: (NSString *) *theString*

4.1.2 Member Data Documentation

- 4.1.2.1 - (libusb_device**) allUSBDevices [protected]
- 4.1.2.2 - (IBOutlet NSTextView*) consoleTextView [protected]
- 4.1.2.3 - (NSMutableAttributedString*) inputTextStorage [protected]
- 4.1.2.4 - (IBOutlet NSTextView*) inputTextView [protected]
- 4.1.2.5 - (IBOutlet NSWindow*) mainWindow [protected]

- 4.1.2.6 - (ssize_t) numberOfUSBDevices [protected]
- 4.1.2.7 - (NSMutableAttributedString*) outputTextStorage [protected]
- 4.1.2.8 - (libusb_device*) theUSBDevice [protected]
- 4.1.2.9 - (libusb_device_handle*) USBDeviceHandle [protected]
- 4.1.2.10 - (IBOutlet NSUserDefaultsController*) userDefaultsController [protected]

4.1.3 Property Documentation

- 4.1.3.1 - (NSNumber*) bulkTransferDirection [read], [write], [atomic], [copy]
- 4.1.3.2 - (NSNumber*) bulkTransferEndpoint [read], [write], [atomic], [copy]
- 4.1.3.3 - (NSNumber*) bulkTransferLength [read], [write], [atomic], [copy]
- 4.1.3.4 - (NSColor*) consoleBackgroundColor [read], [write], [atomic], [copy]
- 4.1.3.5 - (NSColor*) consoleDataTextColor [read], [write], [atomic], [copy]
- 4.1.3.6 - (NSColor*) consoleErrorTextColor [read], [write], [atomic], [copy]
- 4.1.3.7 - (NSColor*) consoleInformationTextColor [read], [write], [atomic], [copy]
- 4.1.3.8 - (NSNumber*) controlTransferIndex [read], [write], [atomic], [copy]
- 4.1.3.9 - (NSNumber*) controlTransferLength [read], [write], [atomic], [copy]
- 4.1.3.10 - (NSNumber*) controlTransferRequest [read], [write], [atomic], [copy]
- 4.1.3.11 - (NSNumber*) controlTransferValue [read], [write], [atomic], [copy]
- 4.1.3.12 - (NSNumber*) devicePID [read], [write], [atomic], [copy]
- 4.1.3.13 - (NSNumber*) deviceVID [read], [write], [atomic], [copy]
- 4.1.3.14 - (NSNumber*) displayHexOrPlainText [read], [write], [atomic], [copy]
- 4.1.3.15 - (NSNumber*) requestDestination [read], [write], [atomic], [copy]
- 4.1.3.16 - (NSNumber*) requestType [read], [write], [atomic], [copy]

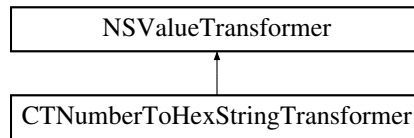
The documentation for this class was generated from the following files:

- USB Toolbox/[CTAppDelegate.h](#)
- USB Toolbox/[CTAppDelegate.m](#)

4.2 CTNumberToHexStringTransformer Class Reference

```
#import <CTNumberToHexStringTransformer.h>
```

Inheritance diagram for CTNumberToHexStringTransformer:



Instance Methods

- (id) - [transformedValue:](#)
- (id) - [reverseTransformedValue:](#)

Class Methods

- (Class) + [transformedValueClass](#)
- (BOOL) + [allowsReverseTransformation](#)

4.2.1 Method Documentation

4.2.1.1 + (BOOL) [allowsReverseTransformation](#)

4.2.1.2 - (id) [reverseTransformedValue:](#) (id) *value*

4.2.1.3 - (id) [transformedValue:](#) (id) *value*

4.2.1.4 + (Class) [transformedValueClass](#)

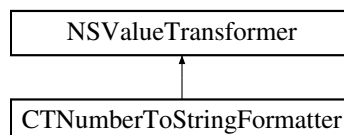
The documentation for this class was generated from the following files:

- USB Toolbox/[CTNumberToHexStringTransformer.h](#)
- USB Toolbox/[CTNumberToHexStringTransformer.m](#)

4.3 CTNumberToStringFormatter Class Reference

```
#import <CTNumberToStringFormatter.h>
```

Inheritance diagram for CTNumberToStringFormatter:



Instance Methods

- (id) - [transformedValue:](#)
- (id) - [reverseTransformedValue:](#)

Class Methods

- (Class) + [transformedValueClass](#)
- (BOOL) + [allowsReverseTransformation](#)

4.3.1 Method Documentation

4.3.1.1 + (BOOL) allowsReverseTransformation

4.3.1.2 - (id) reverseTransformedValue: (id) *value*

4.3.1.3 - (id) transformedValue: (id) *value*

4.3.1.4 + (Class) transformedValueClass

The documentation for this class was generated from the following files:

- USB Toolbox/[CTNumberToStringFormatter.h](#)
- USB Toolbox/[CTNumberToStringFormatter.m](#)

Chapter 5

File Documentation

5.1 USB Toolbox/CTAppDelegate.h File Reference

```
#import <Cocoa/Cocoa.h>
#include "libusb.h"
```

Classes

- class [CTAppDelegate](#)

Macros

- #define [CT_DISPLAY_HEX](#) 0
- #define [CT_DISPLAY_PLAIN_TEXT](#) 1

5.1.1 Macro Definition Documentation

5.1.1.1 #define [CT_DISPLAY_HEX](#) 0

5.1.1.2 #define [CT_DISPLAY_PLAIN_TEXT](#) 1

5.2 USB Toolbox/CTAppDelegate.m File Reference

```
#import "CTAppDelegate.h"
#import "CTNumberToHexStringTransformer.h"
#import "CTNumberToStringFormatter.h"
```

Variables

- NSString *const [CTDefault_ConsoleBackgroundColor_Key](#) = @"consoleBackgroundColor"
- NSString *const [CTDefault_ConsoleErrorTextColor_Key](#) = @"consoleErrorTextColor"
- NSString *const [CTDefault_ConsoleDataTextColor_Key](#) = @"consoleDataTextColor"
- NSString *const [CTDefault_ConsoleInformationTextColor_Key](#) = @"consoleInformationTextColor"
- NSString *const [CTDefault_DisplayHexOrPlainText_Key](#) = @"displayHexOrPlainText"
- NSString *const [CTDefault_VID_Key](#) = @"deviceVID"

- NSString *const [CTDefault_PID_Key](#) = @"devicePID"
- NSString *const [CTDefault_bmRequestType_Key](#) = @"requestType"
- NSString *const [CTDefault_bmRequestDestination_Key](#) = @"requestDestination"
- NSString *const [CTDefault_bRequest_Key](#) = @"controlTransferRequest"
- NSString *const [CTDefault_wValue_Key](#) = @"controlTransferValue"
- NSString *const [CTDefault_wIndex_Key](#) = @"controlTransferIndex"
- NSString *const [CTDefault_wLength_Key](#) = @"controlTransferLength"
- NSString *const [CTDefault_endpoint_Key](#) = @"bulkTransferEndpoint"
- NSString *const [CTDefault_bulkTransferLength_Key](#) = @"bulkTransferLength"

5.2.1 Variable Documentation

5.2.1.1 NSString* const [CTDefault_bmRequestDestination_Key](#) = @"requestDestination"

5.2.1.2 NSString* const [CTDefault_bmRequestType_Key](#) = @"requestType"

5.2.1.3 NSString* const [CTDefault_bRequest_Key](#) = @"controlTransferRequest"

5.2.1.4 NSString* const [CTDefault_bulkTransferLength_Key](#) = @"bulkTransferLength"

5.2.1.5 NSString* const [CTDefault_ConsoleBackgroundColor_Key](#) = @"consoleBackgroundColor"

5.2.1.6 NSString* const [CTDefault_ConsoleDataTextColor_Key](#) = @"consoleDataTextColor"

5.2.1.7 NSString* const [CTDefault_ConsoleErrorTextColor_Key](#) = @"consoleErrorTextColor"

5.2.1.8 NSString* const [CTDefault_ConsoleInformationTextColor_Key](#) = @"consoleInformationTextColor"

5.2.1.9 NSString* const [CTDefault_DisplayHexOrPlainText_Key](#) = @"displayHexOrPlainText"

5.2.1.10 NSString* const [CTDefault_endpoint_Key](#) = @"bulkTransferEndpoint"

5.2.1.11 NSString* const [CTDefault_PID_Key](#) = @"devicePID"

5.2.1.12 NSString* const [CTDefault_VID_Key](#) = @"deviceVID"

5.2.1.13 NSString* const [CTDefault_wIndex_Key](#) = @"controlTransferIndex"

5.2.1.14 NSString* const [CTDefault_wLength_Key](#) = @"controlTransferLength"

5.2.1.15 NSString* const [CTDefault_wValue_Key](#) = @"controlTransferValue"

5.3 USB Toolbox/CTNumberToHexStringTransformer.h File Reference

```
#import <Foundation/Foundation.h>
```

Classes

- class [CTNumberToHexStringTransformer](#)

5.4 USB Toolbox/CTNumberToHexStringTransformer.m File Reference

```
#import "CTNumberToHexStringTransformer.h"
```

5.5 USB Toolbox/CTNumberToStringFormatter.h File Reference

```
#import <Foundation/Foundation.h>
```

Classes

- class [CTNumberToStringFormatter](#)

5.6 USB Toolbox/CTNumberToStringFormatter.m File Reference

```
#import "CTNumberToStringFormatter.h"
```

5.7 USB Toolbox/main.m File Reference

```
#import <Cocoa/Cocoa.h>
```

Functions

- int [main](#) (int argc, char *argv[])

5.7.1 Function Documentation

5.7.1.1 int main (int *argc*, char * *argv*[])

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