

DL/ID Parser Component for iPhone/iPod



(by IDScan.net)

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Introduction

Nowadays DL/ID cards are widely used for storing such personal information as first, last names, birth date, address, person's hair color etc. Also they contain special type of information related to driving activity, for example, DL number, class and restrictions. At the same time in many applications mobile devices like iPhone/iPod are considered to be very attractive to scan and process this information.

Magnetic Stripe format is slightly varying from one state to another, giving serious difficulties to parse information encoded on the magnetic stripe exactly. For instance, some cards may contain tracks in the inverted order, another ones use slightly shifted positions in tracks for storing fields in comparison with standard ones. So it is where DL/ID Parser Component for iPhone/iPod from Nautilusware/IDScan.net comes. We have collected lots of real practice to parse DL/ID cards precisely taking into consideration these issues.

DL/ID Parser Component allows getting the values for the following fields.

Document Info:

- LicenseNumber
- ExpirationDate
- IssuedBy
- IIN
- EndorsementsCode
- ClassificationCode
- RestrictionsCode

Customer Info:

- FullName
- LastName
- FirstName
- MiddleName
- Birthdate

Customer address:

- Address1
- Address2
- City
- JurisdictionCode
- PostalCode

Customer physical description:

- Gender (Male or Female)
- EyeColor
- Height

- Weight
- HairColor

Usage

DL Parser Component for iPhone/iPod allows incorporating DL/ID parsing capabilities into iPhone/iPod applications.

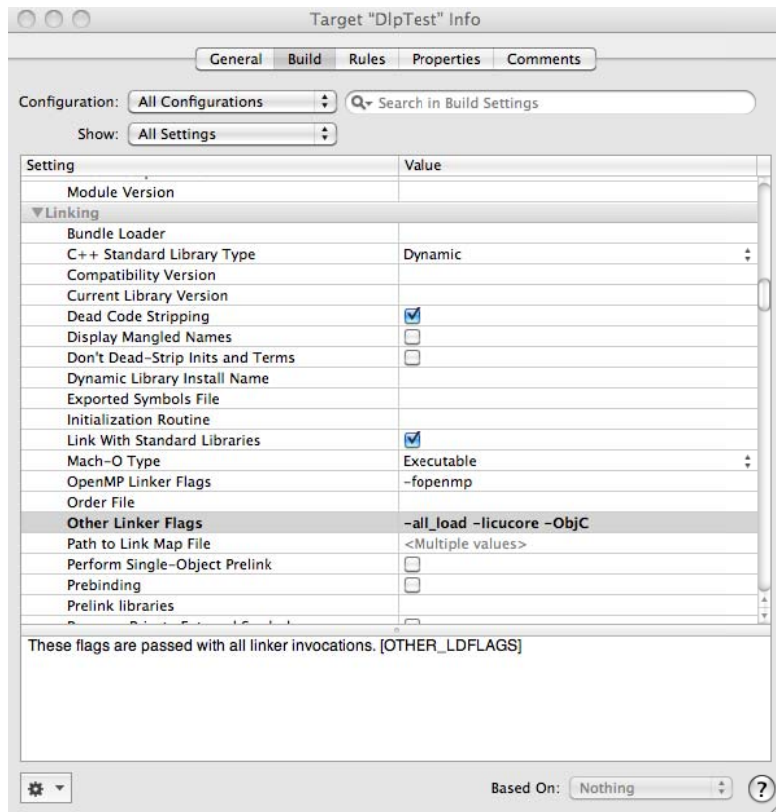
It consists of the following files

- 1) DriverLicenseInterface.h
- 2) DriverLicense.h
- 3) libDlpTouch.a (static library)

Note: static library libDlpTouch.a was compiled for a “fat” architecture (armv6 and armv7), release version, size 786 KB. Component uses *RegexKitLite* library to work with regular expressions.

To use this component the following steps should be done:

- 1) Add header files DriverLicenseInterface.h and DriverLicense.h to your project
- 2) Add libDlpTouch.a to your project
- 3) Your project should be compiled against libDlpTouch.a static library with the following flags: -all_load -licucore -ObjC. See picture below.



There are two ways to work with the component:

- 1) via DriverLicense object
- 2) via Category on NSString

Input string should be composed from tracks separated by any of the following symbols `\r\n`, `\n\n`, `\r`, `\n`.

via DriverLicense object

```

- (BOOL)parseDLTracksString:(NSString *)tracksString
parses input string tracksString, returns YES if ok and NO otherwise

- (NSArray *)availableFields
returns available fields

- (NSString *)valueForField:(NSString *)field
returns string value for field (for Birthdate and ExpirationDate fields returns string in the format
yyyyMMdd, for Gender field returns "Male" or "Female")

- (id)valueForDateField:(NSString *)field withFormat:(NSString *)dateFormat

```

returns date value as NSDate if *dateFormat* is nil of formatted string according to *dateFormat*

```
- (NSDictionary *)fields
```

returns dictionary with pairs field name / value

Example

```
id s; //some variable
DriverLicense *dl = [[DriverLicense alloc] init];
if ([dl parseDLTracksString:inputStr] == YES)
{
    s = [dl valueForKey:@"Birthdate"]; //19890525
    s = [dl valueForKey:@"Birthdate" withFormat:nil]; //Birthdate as NSDate
    s = [dl valueForKey:@"Birthdate" withFormat:@"MM/dd/yyyy"]; //Birthdate as a
formatted string: 05/25/1989
    NSDictionary *dict = [dl fields]; //dictionary
}
```

via Category on NSString

```
- (NSDictionary *)parseDLTracksStringForDict
```

returns autoreleased dictionary with pairs field name / value

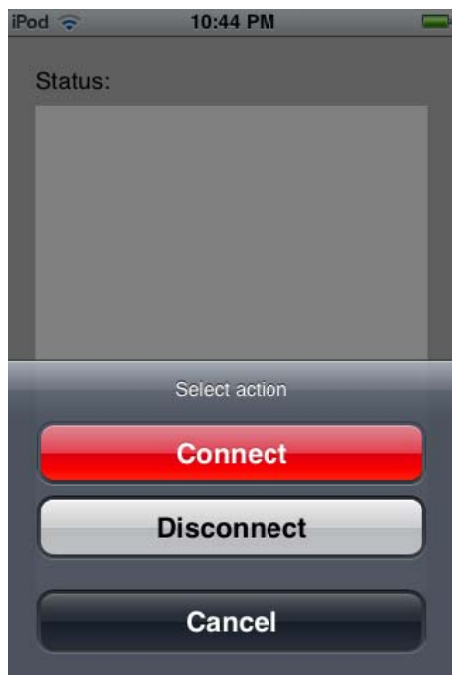
Example

```
NSDictionary *dict = [inputStr parseDLTracksStringForDict];
NSArray *field_names = [dict allKeys];
NSString *firstName = [dict valueForKey:@"FirstName"];
```

Test application

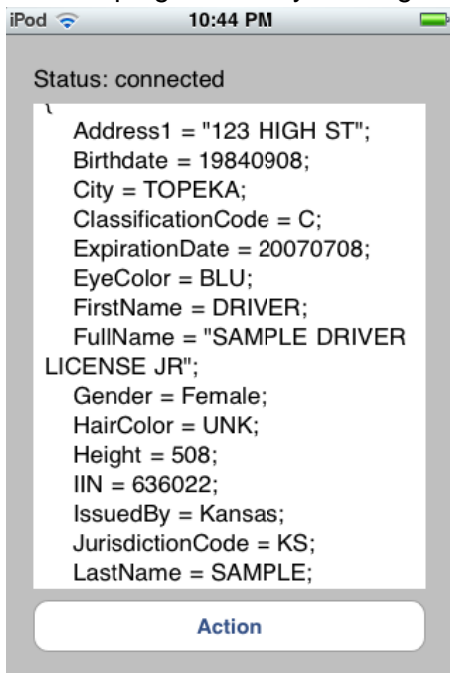
Folder DlpTest contains a simple test project which demonstrates the work of IDScan DL/ID Parser Component with Linea Pro iPod card reader (www.ipcprint.com).

After launching the test application will show the following view.





After swiping the card you will get the information encoded on the magnetic stripe.



Notes:

The application was tested with Base SDK 4.1 and armv6 was the active architecture.

Do not forget to point out the appropriate Bundle identifier in DlpTest-Info.plist for working with a real device.

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