



## DL/ID Parsing Component for iOS

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## Introduction

DL/ID cards are widely used for storing personal information such as first name, last name, birth date, address, hair color, etc. They also contain special information related to driving activity including DL number, class and restrictions. Because of the utility of this data, there is a high demand for mobile applications that can scan and process DL/ID information.

Magnetic Stripe and 2D formats greatly vary from one state to another, causing numerous difficulties when attempting to parse information encoded in each DL. For instance, some cards may contain tracks in the inverted order, while others may use slightly shifted track positions for storing fields.

As a solution, IDScan.net developed a DL/ID Parsing Component for iPhone/iPod. We collected 10+ years of ID formats from the US and Canada and tested each one to ensure every DL/ID card is parsed with precision. Our DL/ID Parsing Component allows data collection from the following fields:

### Document Info:

License Number  
Expiration Date  
Issue Date  
Issued By  
IIN  
Endorsements Code  
Classification Code  
Restrictions Code  
Specification

### Customer Info:

Full Name  
Last Name  
First Name  
Middle Name  
Name Prefix  
Name Suffix  
Birthdate

### Customer address:

Address1  
Address2  
City  
State/Jurisdiction Code  
Postal Code  
Country

### Customer physical description:

Gender (Male or Female)  
Race  
Eye Color  
Height  
Weight  
Hair Color

## Usage

The DL Parsing Component enables DL/ID parsing capabilities for iOS applications. It consists of the following files:

- 1) DriverLicenseParser.h
- 2) libDriverLicenseParser.a (static library)

## DriverLicense object

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

```
DriverLicense *dl = [[DriverLicense alloc] init];
//!!! Choose to receive an alert when DLP were not registered
BOOL isParseSuccess = [dl parseDLString:tracksString
hideSerialAlert:(showAlertIfDemo ==NO)];
if (isParseSuccess== YES){
//!!! parsedfields filtered (available fields)
  NSLog(@"All fields: %@",[[dl fields] description]);
}else{
  NSLog(@"Failed");
}
[dl release];
```

//----- access results -----

//parsedfields filtered (available fields) dictionary with pairs field name / value

```
NSDictionary *fields;
```

Or by accessing properties: dl.firstName, dl.lastName, etc

- (NSArray \*)availableFields; // list of 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

```
/*
```

```
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
```

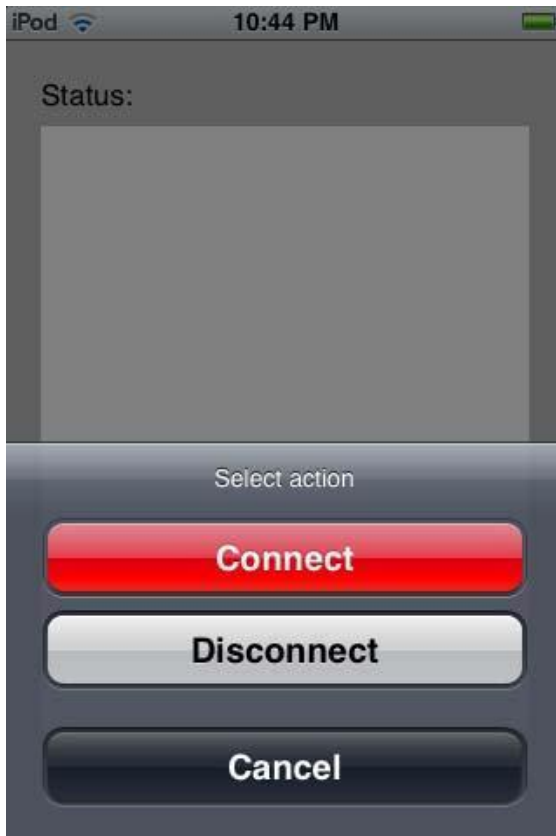
```
formatted string: 05/25/1989
```

```
*/
```




## Test application

Folder DlpTest contains a simple test project, which demonstrates the functionality of IDScan.net's DL/ID Parser Component with the Linea Pro iPod reader ([www.ipcprint.com](http://www.ipcprint.com)).

-Linea Action:



After swiping an ID card you will get the following information

No SIM  10:39 AM 100%  

Status:

```
{  
  IIN = 636007;  
  address1 = "199A CITY PL DR";  
  address2 = "";  
  birthDate = "10/24/1935";  
  city = "NEW YORK";  
  classificationCode = E;  
  country = "United States";  
  countryCode = USA;  
  endorsementsCode = "";  
  expirationDate = "10/24/2008";  
  eyeColor = "";  
  firstName = JOE;  
  fullName = "SMITH,JOE";  
  gender = Male;  
  hairColor = "";  
  height = "5'06\"";  
  issueDate = "10/27/2004";  
  issuedBy = "";  
  issuerIdNum = 636007;
```

[Linea Action](#) [Parse Test Track](#)

[Enter DLP serial](#) Show alert

//=====

Other options:

- Parse Test Track : parse track string from .txt file in project  
- **(BOOL)parseDLString:(NSString \*)inputString**  
**hideSerialAlert:(BOOL)hideSerialAlert;**

Working with the demo app:

- Enter DLP Serial #: ability for the end-user to enter purchased serial#  
Simple way – alert with a text box
- Programmatically: **[[NSUserDefaults standardUserDefaults]**  
**setValue:serial forKey:@"DriverLicenseParserCurrentSerial"];**

During design time use **dlpSerial.txt** file in your project

**In demo mode (without serial #) almost all fields will display**  
**\*\*DEMO\*\* value**

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

## How to activate the SDK

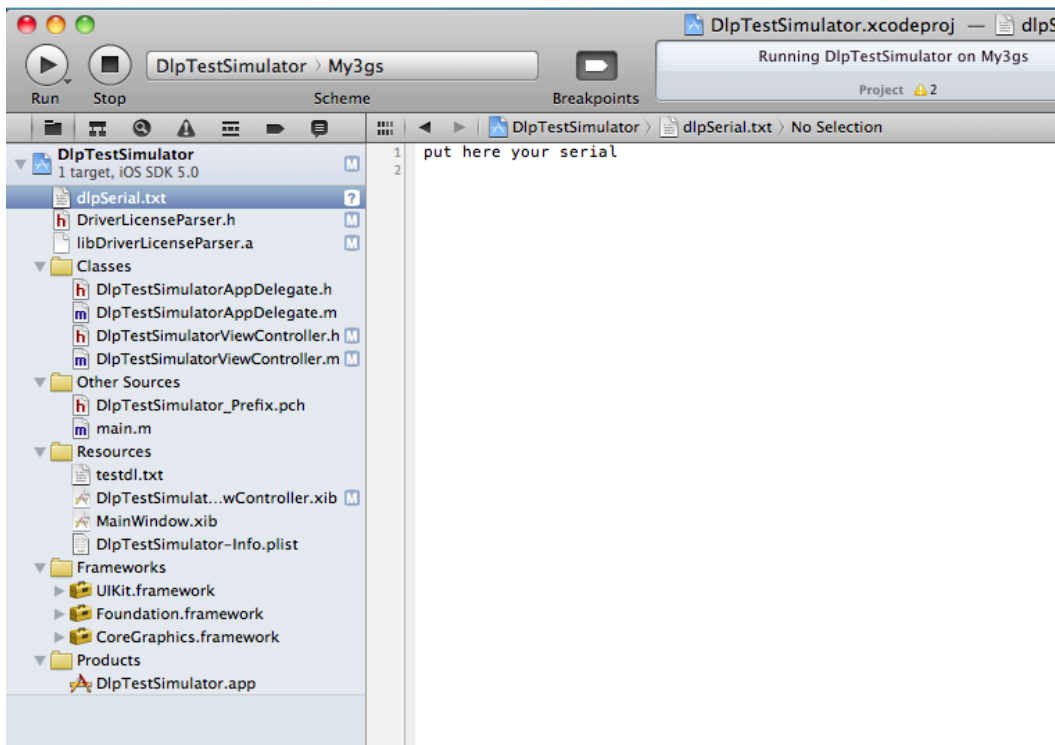
IDScan.net offers licensing model based on app's Bundle ID. You can use your bundle ID to obtain a trial development key.

Copy your application Bundle ID and email to [support@idscan.net](mailto:support@idscan.net)

IDScan.net will issue you a unique Serial number/Registration Key for this Bundle ID

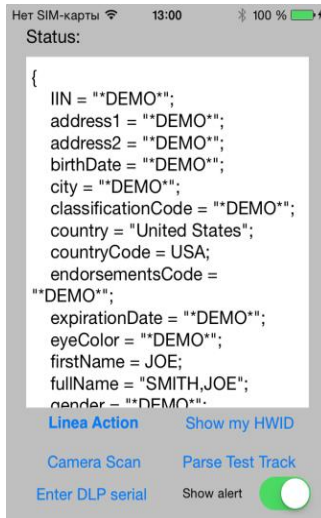
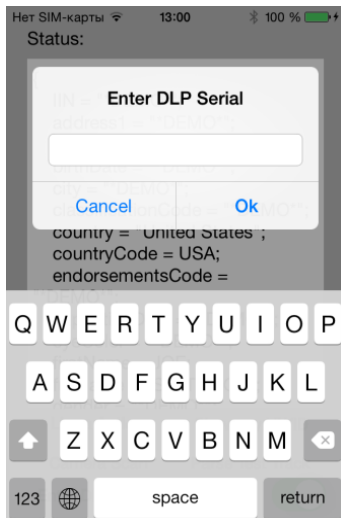
**There are two ways to apply the serial number.**

1. In the XCode paste the serial number in the file **dIpSerial.txt**, the file should contain only the serial number. See the screenshot below:

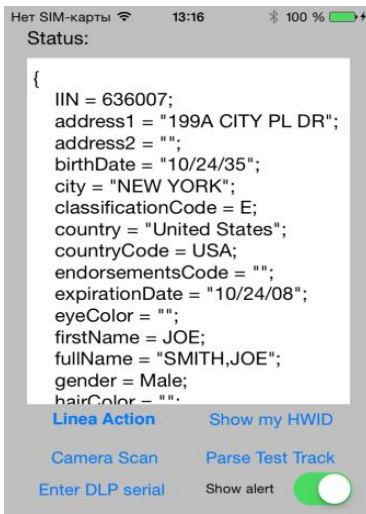


2. Programmatically – by applying the method (yourserial = generated string)

`[[NSUserDefaults standardUserDefaults] setValue:yourserial forKey:@"DriverLicenseParserCurrentSerial"];`



Click on  
"Enter DLP serial"





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