



Turkcell Login SDK iOS Integration Document

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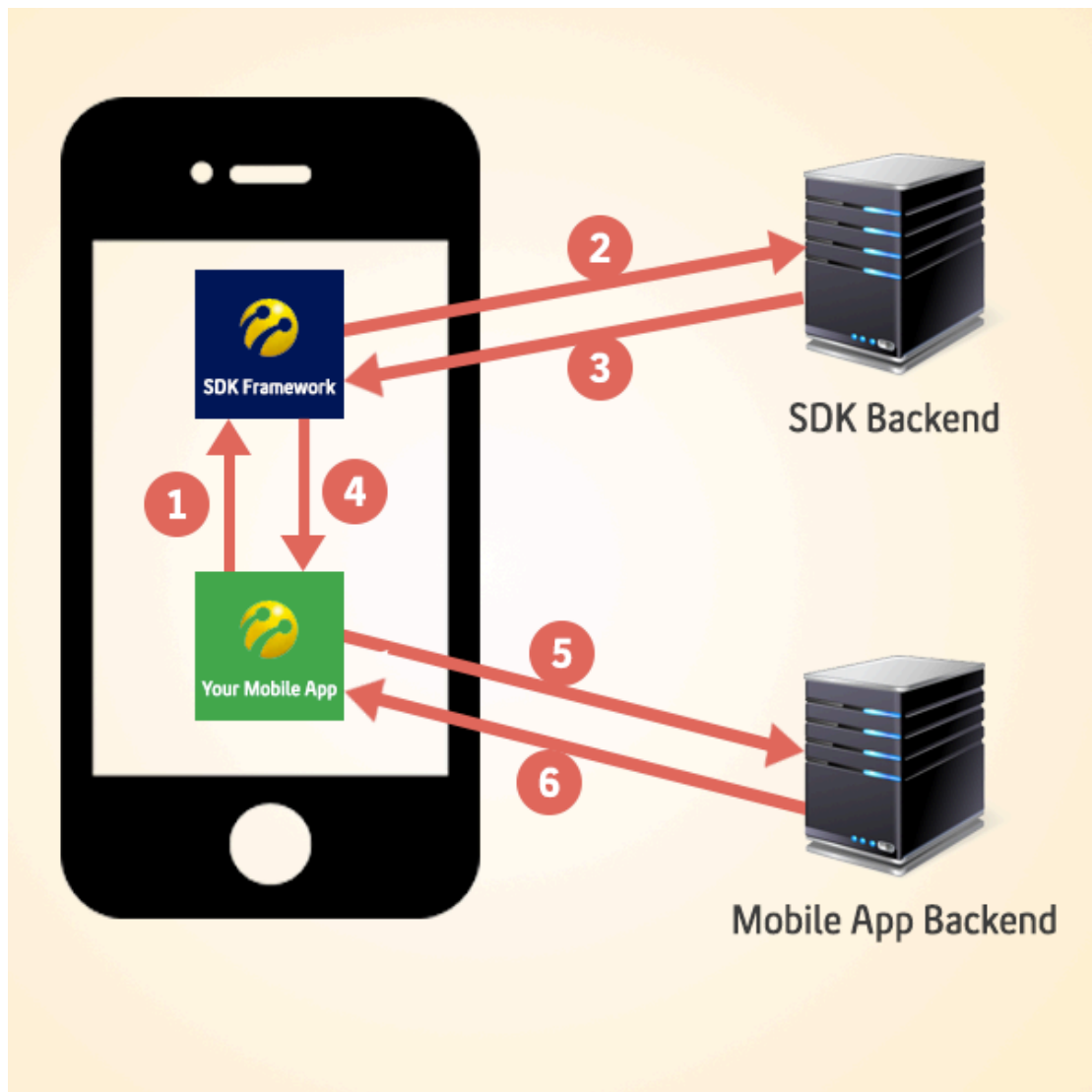
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1. Prerequisites

Minimum deployment target for Login SDK is iOS 6.0

If your app supports lower versions than 6.0 you can't integrate your app.

2.Flow



0) First, your app initialize SDK with calling following method on TLManager:

```
-(instancetype)initWithAppID:(NSString *)appID  
useTestServer:(BOOL)useTestServer theme:(TLTheme *)theme  
customAccessGroup:(NSString *) accessGroup;
```

Important !

Since it may released from memory during login process use TLManager object as instance property.

1) Your app asks SDK to start login process with calling following method on TLManager:

```
-(void)startLoginProcess:(UIViewController *) mainVC  
skipLightLogin:(BOOL)skipLightLogin  
showLoginPage:(BOOL)showLoginPage showLoader:(BOOL)pShowLoader  
dismissSession:(BOOL) dismissSession
```

- 2) SDK makes rest call to SDK Server*
- 3) SDK Server returns login result to SDK Client*
- 4) SDK returns login result and token (if result is success) to app with delegate method:

```
-(void) loginProcessCompleted:(BOOL) success  
type:(TLLoginType) loginType token:(NSString *) token;
```

*Added just for information. App developer shouldn't care about these steps.

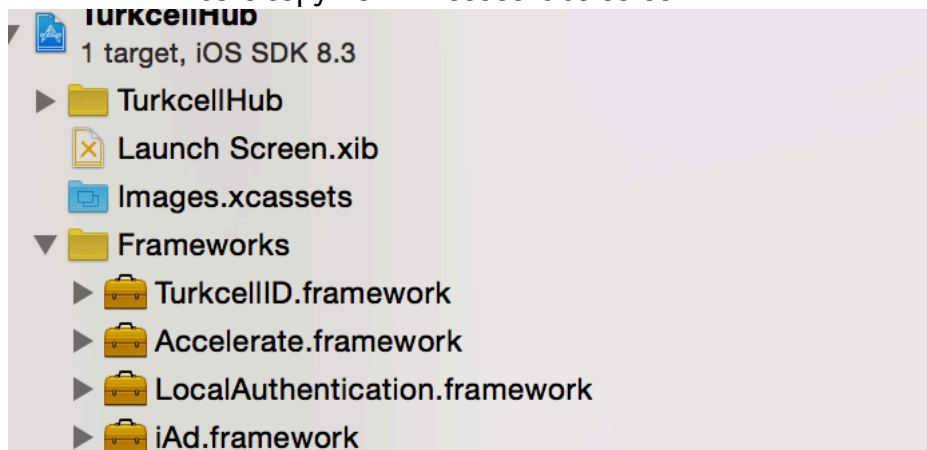
- 5) App sends token its backend to validate it
- 6) App backend calls validateAuthToken to retrieve msisdn, then starts session and performs app related tasks.

3.Integration










- a. Frameworks listed below are required for SDK, first add these frameworks to your build configuration.

Name
 libc++.dylib
 libz.dylib
 CoreTelephony.framework
 LocalAuthentication.framework
 Security.framework
 MobileCoreServices.framework
 QuartzCore.framework
 Accelerate.framework
 SystemConfiguration.framework
 TurkcellIID.framework
 MessageUI.framework
 UIKit.framework
 Foundation.framework
 CoreGraphics.framework
 CoreText.framework
<div><div><div>+</div><div>—</div></div><div>Drag to reorder frameworks</div></div>

- b. Add TurkcellID.framework file to your app framework folder. Make sure copy item if needed is selected.



- c. Add TurkcellID.bundle file to your application's related directory.

- ▶  REST
- ▶  Utility
- ▼  Resources
 - ▶  TurkcellIDBundle.bundle
 - ▶  Assets
 - ▶  Fonts
 - ▶  Icons
 - ▶  Images
 - ▶  LaunchImages

4.SDK Methods

a. Initialize

Class : TLManager

Method: `-(instancetype)initWithAppID:(NSString *)appID
useTestServer:(BOOL)useTestServer theme:(TLTheme *)theme
customAccessGroup:(NSString *) accessGroup;`

Parameters:

Name: appID

Required: YES

Type: (NSString *)

Description: Your application ID, you should have this before starting integration, it varies according to the environment. If you don't know your app id, you may want to contact with Osman Kara (osman.kara@turkcellteknoloji.com.tr), who is analyst of Login SDK.

Name: useTestServer

Required: YES

Type: (BOOL)

Description: Determines if SDK will use test server for its backend for not.

Name: theme

Required: NO

Type: (TLTheme *)

Description: If you want to use custom UI, you should create TLTheme object and pass it. If you pass nil, default theme will be used. More details about customizing theme is described at section 5.

Name: customAccessGroup

Required: NO

Type: (NSString *)

Description: If you want to sign app with non-Turkcell account, or submit to ICTStore you should pass custom identifier starting with TEAM ID. If you don't pass, Turkcell Appstore bundle identifier will be used.

We recommend to use macros to set customAccessGroup as below:

```
if(!_loginManager) {  
#if STORE  
    _loginManager = [[TLManager alloc] initWithAppID:TURKCELL_APPLICATION_ID useTestServer:NO theme:nil  
                    customAccessGroup:nil];  
#elif ENTERPRISE  
    _loginManager = [[TLManager alloc] initWithAppID:TURKCELL_APPLICATION_ID useTestServer:NO theme:nil  
                    customAccessGroup:ACCESS_GROUP_ENTERPRISE];  
#else  
    _loginManager = [[TLManager alloc] initWithAppID:TURKCELL_APPLICATION_ID useTestServer:BUILD_FOR_PRODUCTION ? NO : YES theme:  
                    customAccessGroup:ACCESS_GROUP_TEST];  
#endif
```

You can retrieve Enterprise access group value from Turkcell.

Tip: Call init method only once along application lifecycle. Call startLoginProcess each time you want to login user.

b. Starting Login Process

Class: TLManager

Method: -(void)startLoginProcess:(UIViewController *) mainVC
skipLightLogin:(BOOL)skipLightLogin
showLoginPage:(BOOL)showLoginPage showLoader:(BOOL)pShowLoader
dismissSession:(BOOL) dismissSession

Parameters:

Name: mainVC

Required: YES

Type: (UIViewController *)

Description: This is viewcontroller belongs to your app. This will be used to present SDK viewcontroller on top of itself.

Name: skipLightLogin

Required: YES

Type: (BOOL)

Description: Determines if lightlogin option will be skipped or not.

Name: showLoginPage

Required: YES

Type: (BOOL)

Description: Determines if login page will be shown, you may want to set this NO when you start login process right after your application launch.

Name: pShowLoader

Required: YES

Type: (BOOL)

Description: Determines if preloader will be shown while making several requests to SDK Server from SDK client. This parameter does not hides preloader on all requests.

Name: dismissSession

Required: YES

Type: (BOOL)

Description: If this parameter set to YES, login process will discard all saved login data and light login process. So if you set this parameter YES, it is guaranteed that login page will be presented (unless showLoginPage parameter set to NO)

c. Login Result Delegate

```
-(void) loginProcessCompleted:(BOOL) success  
type:(TLLoginType) loginType token:(NSString *) token;
```

You should set delegate property on TLManager to your related object. Then implement delegate method.

Parameters:

Success : Indicates if login is finished successfully or not.

TLLoginType: Indicates login type. This can be used for logging.

Values:

TcellLoginTypeServiceLogin, //Login from login page.

```
TcellLoginTypeRememberMe, // Remember me login
TcellLoginTypeLightLogin, // Lightlogin
TcellLoginTypeTouchID, // Login with touch id
TcellLoginTypeNonLogin // User is not logged in.
```

d. Logout

Class: TLManager

Method: logout

Parameter: No Parameter

Since SDK doesn't know when user logged out, application itself should call this method manually inside its own logout method.

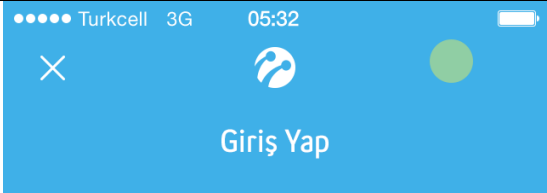
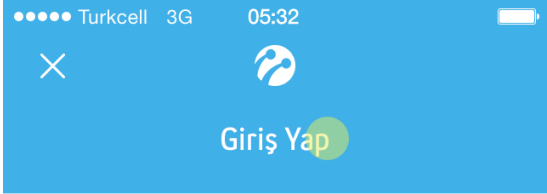
5.Keychain Sharing

All applications which signed with same Turkcell iOS Developer account and exist in same chain, share their remember me login information.

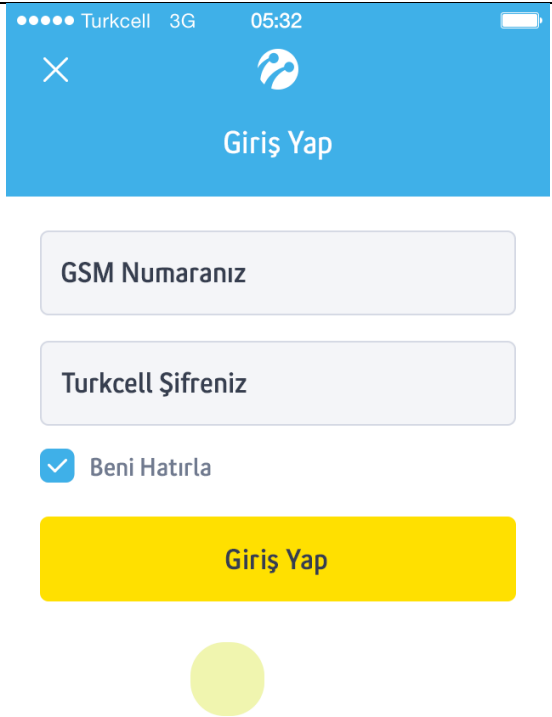
First, you should add Entitlement.plist file to your project.

- Create Entitlement file for each build configuration (at least you have to create for AppStore and ICTStore), rename it whatever you want.
- Add "*Keychain Access Groups*" key, select type as an array, set value `$(AppIdentifierPrefix)com.turkcell.login.suite` for AppStore Entitlement file
- Add "*Keychain Access Groups*" key, select type as an array, set value `$(AppIdentifierPrefix)com.turkcell.login.suite` for ICTStore Entitlement file
-
- Go to build settings for your app target, find "Code Signing Entitlements" select your Entitlements file for AppStore and ICTStore profile.
 - Important Note: If you want to sign ipa with nonTurkcell Apple Account, you should put your bundle identifier values to Entitlement files which belongs to Debug and Release configuration.

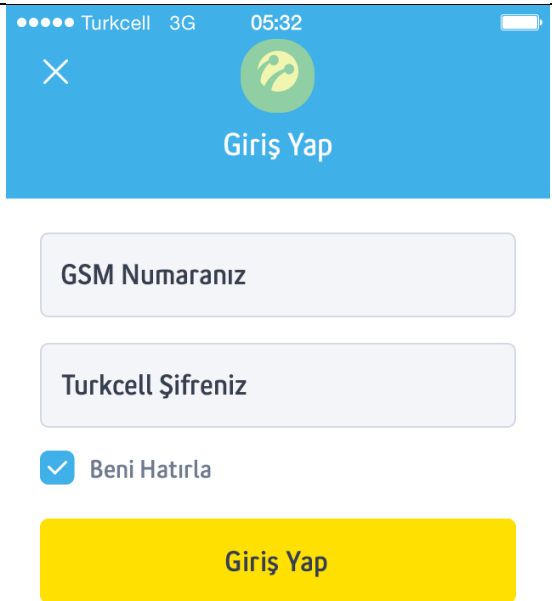
6. Customizing Theme


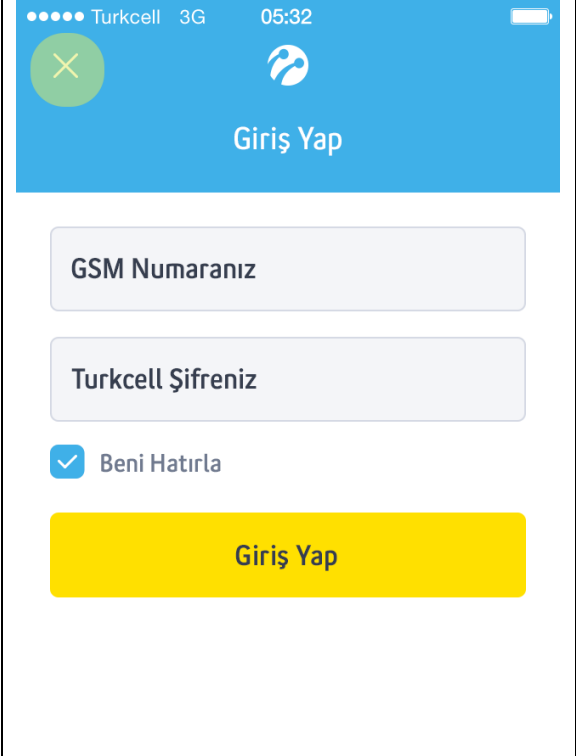
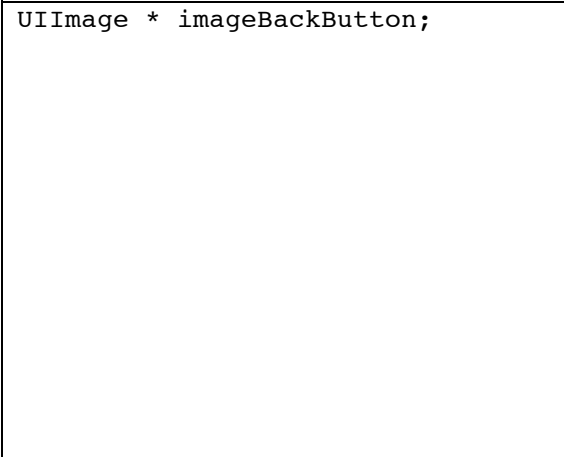



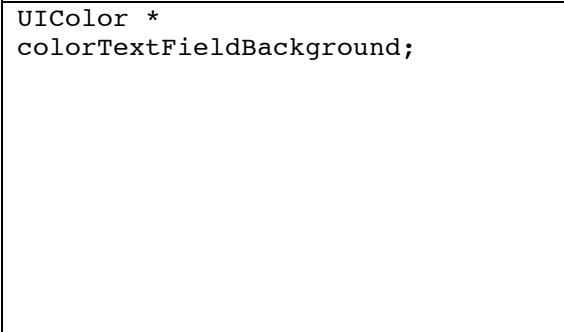
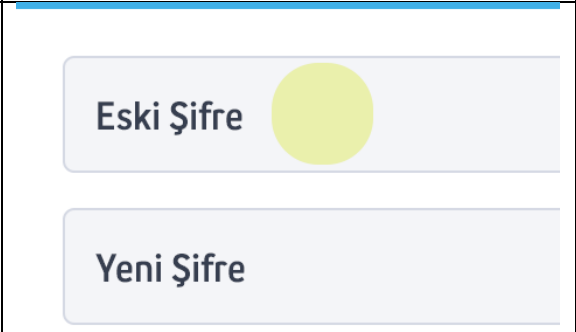
<pre>UIColor * colorTopBarBackground;</pre>	 A mobile app screenshot showing a blue top bar. The status bar at the top displays signal strength, 'Turkcell 3G', time '05:32', and battery level. The top bar contains a white close button (X), a white circular logo, and a green circular button. Below the top bar, the text 'Giriş Yap' is centered. A light gray rounded rectangle with the text 'GSM Numaranız' is positioned below the top bar.
<pre>UIColor * colorTopBarText;</pre>	 A mobile app screenshot showing a white top bar. The status bar at the top displays signal strength, 'Turkcell 3G', time '05:32', and battery level. The top bar contains a white close button (X), a white circular logo, and a green circular button. Below the top bar, the text 'Giriş Yap' is centered. A light gray rounded rectangle with the text 'GSM Numaranız' is positioned below the top bar.

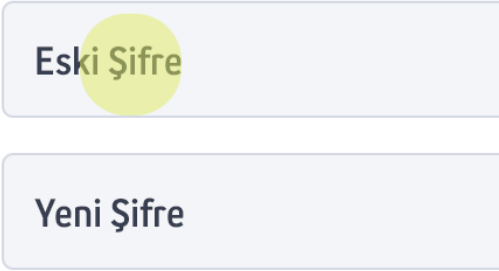

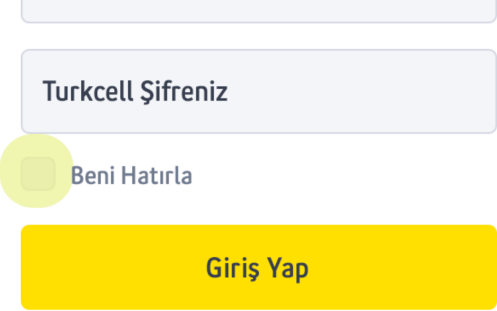

```
UIColor * colorLoginBackground;
```







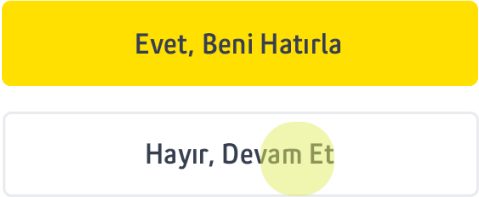
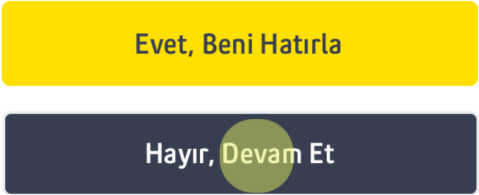


```
UIImage * imageTopBarLogo;
```

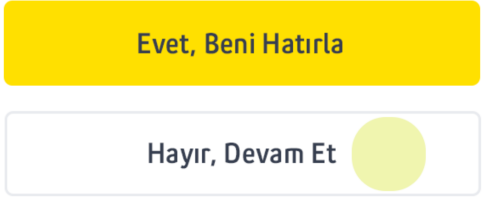
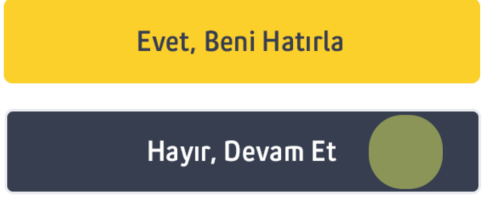

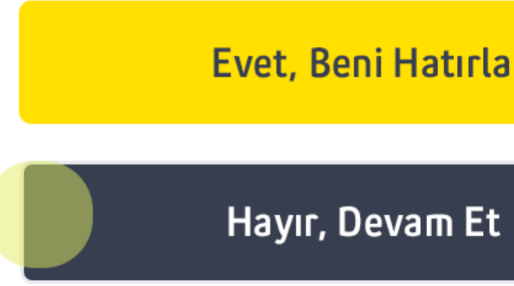



UIColor * colorTextFieldText;	
UIImage * imageRememberMeSelected;	
UIImage * imageRememberMeNotSelected;	
UIColor * colorTouchIDOfferBackground;	 <p>Türkcell Hesabım uygulamasına giriş yapabilmek için tek yapmanız gereken parmağınızı telefonunuzun tuşuna dokundurmak. Bundan sonra yapacağınız girişlerde tekrar GSM Numaranızı ya da Türkcell Şifrenizi girmeniz gerekmeyecektir.</p>

<p>UIImage * imageTouchIDOfferIcon;</p>	 <p>Turkcell Hesabım uygulamasına giriş yapabilmek için tek yapmanız gereken parmağınızı telefonunuzun tuşuna dokundurmak. Bundan sonra yapacağınız girişlerde tekrar GSM Numaranızı ya da Turkcell Şifrenizi girmeniz gerekmeyecektir.</p>
<p>UIColor * colorTouchIDOfferDescription;</p>	 <p>Turkcell Hesabım uygulamasına giriş yapabilmek için tek yapmanız gereken parmağınızı telefonunuzun tuşuna dokundurmak. Bundan sonra yapacağınız girişlerde tekrar GSM Numaranızı ya da Turkcell Şifrenizi girmeniz gerekmeyecektir.</p>
<p>UIColor * colorChangePasswordBackground;</p>	<div data-bbox="839 1151 1318 1234">Eski Şifre</div> <div data-bbox="839 1263 1318 1346">Yeni Şifre</div> <div data-bbox="839 1375 1318 1458">Yeni Şifre (Tekrar)</div> <div data-bbox="839 1487 1318 1570">Şifremi Değiştir</div> 

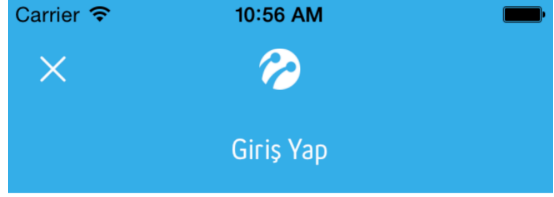
UIColor* colorPositiveButtonText;	
UIColor* colorNegativeButtonText;	
UIColor* colorNegativeButtonHighlightedText;	
UIColor* colorPositiveButtonBackground;	
UIColor* colorPositiveButtonBackgroundHighlighted;	

UIColor* colorNegativeButtonBackground;	
UIColor* colorNegativeButtonBackgroundHigh lighted;	
UIColor* colorNegativeButtonBorder;	
UIColor* colorNegativeButtonBorderHighligh ted;	
UIColor* colorLabelLoginPageRememberMeText ;	 <p>Cihazınıza yüklü diğer Turkcell uygulamalarına giriş yaparken de 53*1**2*00 numaralı hattınızı hatırlamamızı ister misiniz?</p>
UIImage* imageRememberMeAppChain;	

```
UIColor  
*colorBackgroundRememberMeOffer;
```



```
NSString * customButtonText;
```



GSM Numaranız

Şifreniz

☒ Beni Hatırla

Giriş Yap

? Şifre Al

Şifre Değiştir

Test Button

You can add button to login page footer with setting this parameter. You can use

-(void) customButtonClicked;

delegate method on TLManager to handle button click event.

Please note that after clicling this button, login page will be dismissed.