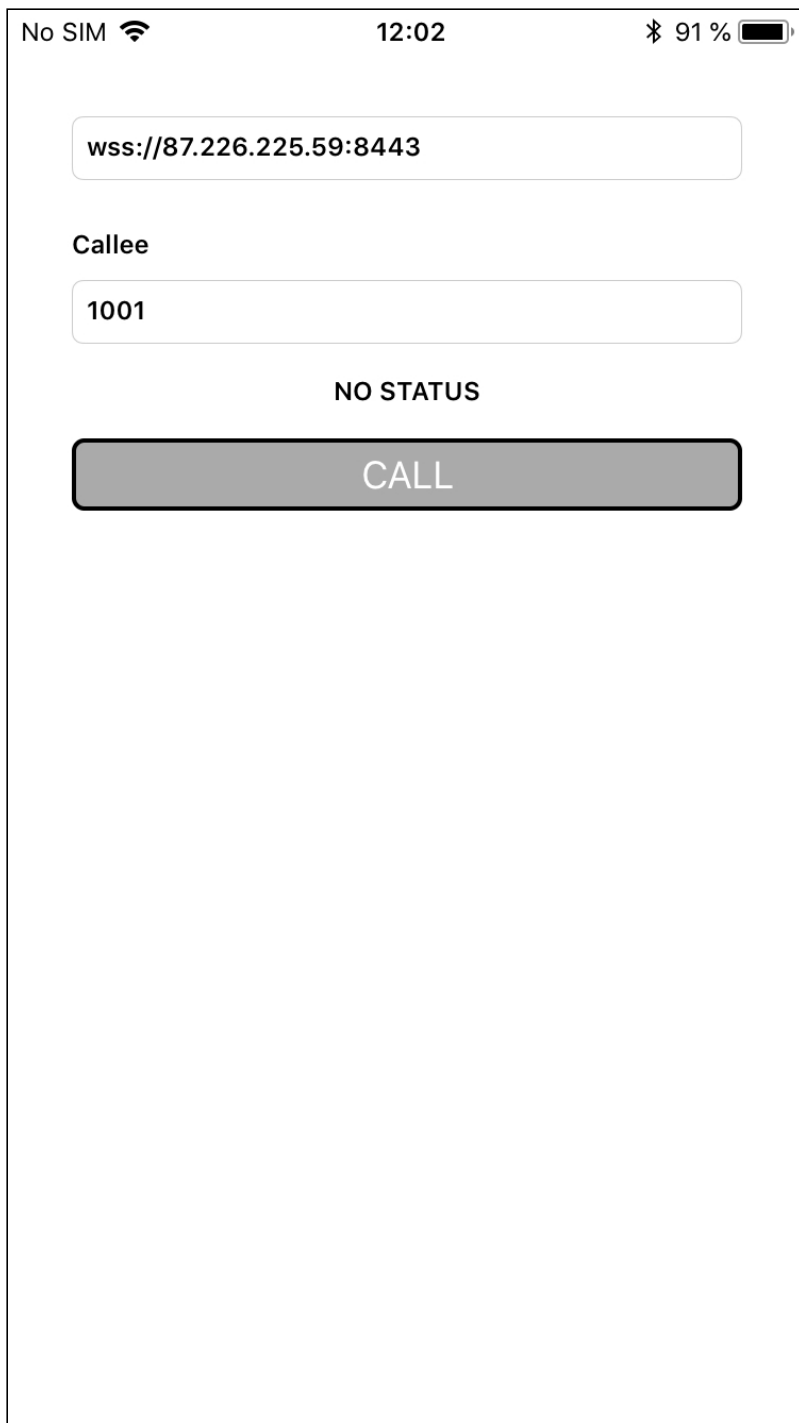


# iOS Click to Call

## Example of Click to Call application for iOS

This example allows to place outgoing audio call with one button click using account specified in server config file

*/usr/local/FlashphonerWebCallServer/conf/apps/click-to-call/accounts.xml*



## Analyzing the code

To analyze the code, let's take ClickToCall example version, which is available [here](#).

View class for the main view of the application: ViewController (header file [ViewController.h](#); implementation file [ViewController.m](#)).

### 1. Import of API

code

```
#import <FPWCSApi2/FPWCSApi2.h>
```

## 2. Connection to the server

`FPWCSApi2.createSession`, `FPWCSApi2Session.connect` [code](#)

`FPWCSApi2SessionOptions` object with the following parameters is passed to `createSession()` method

- URL of WCS server
- appKey of internal server-side application (clickToCallApp)

```
- (FPWCSApi2Session *)connect {
    FPWCSApi2SessionOptions *options = [[FPWCSApi2SessionOptions alloc]
    init];
    options.urlServer = _connectUrl.text;
    options.appKey = @"clickToCallApp";
    NSError *error;
    session = [FPWCSApi2 createSession:options error:&error];
    ...
    [session connect];
    return session;
}
```

## 3. Receiving the event confirming successful connection

`ViewController.onConnected`, `ViewController.call` [code](#)

On this event, `ViewController.call` method is called to make outgoing call.

```
- (void)onConnected:(FPWCSApi2Session *)session {
    [self onHangup];
    [self call];
}
```

## 4. Outgoing call

`FPWCSApi2Session.createCall`, `FPWCSApi2Call.call` [code](#)

The following options are passed to the `createCall()` method:

- callee SIP username
- call constraints: audio only

```

- (FPWCSApi2Call *)call {
    FPWCSApi2CallOptions *options = [[FPWCSApi2CallOptions alloc] init];
    options.callee = _callee.input.text;
    options.localConstraints = [[FPWCSApi2MediaConstraints alloc]
initWithAudio:YES video:NO];
    NSError *error;
    call = [session createCall:options error:&error];
    ...
    [call call];
    return call;
}

```

## 5. Call hangup

`FPWCSApi2Call.hangup` [code](#)

```

- (void)callButton:(UIButton *)button {
    [self changeViewState:button enabled:NO];
    if ([button.titleLabel.text isEqualToString:@"HANGUP"]) {
        if (call) {
            [call hangup];
        }
        ...
    }
}

```