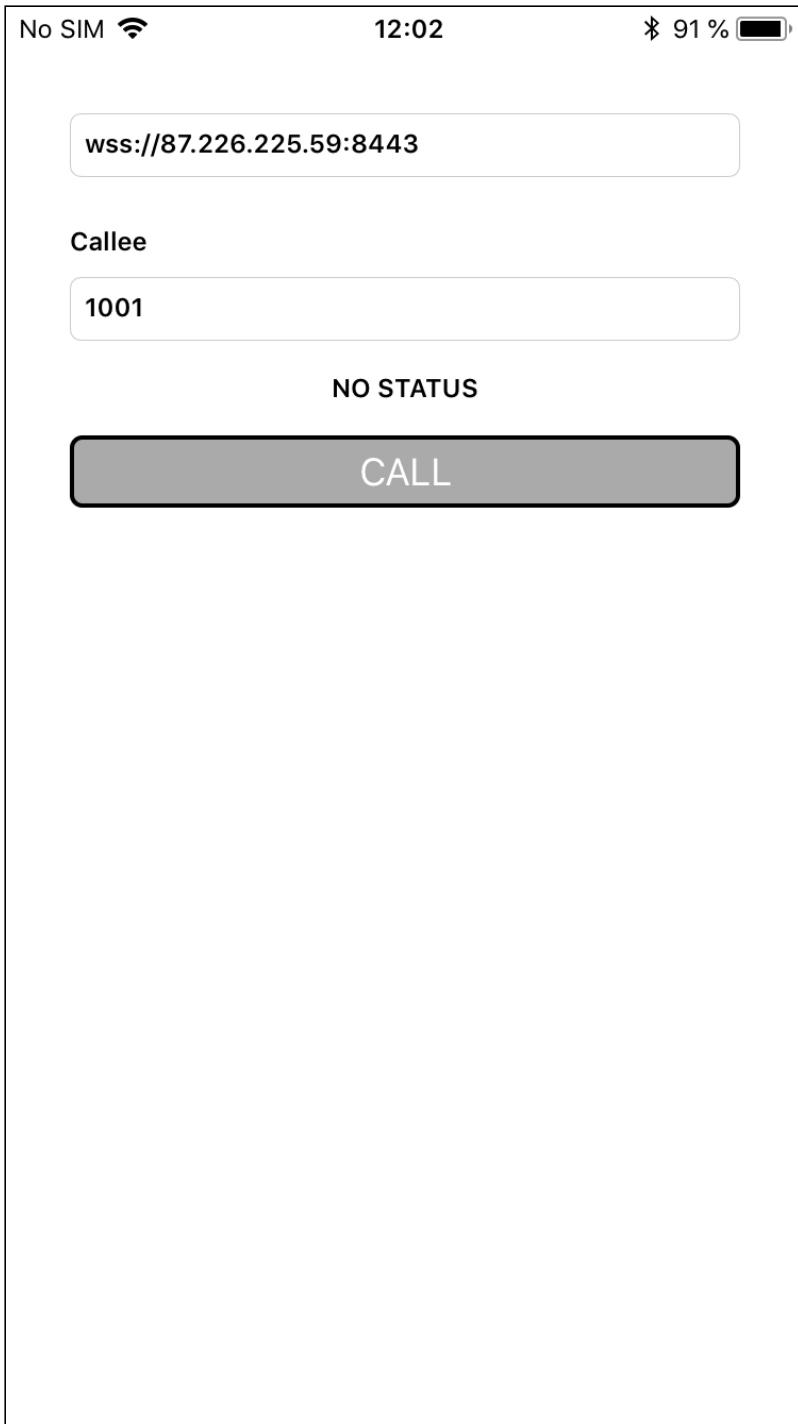


iOS Click to Call

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];
        }
        ...
    }
}
```