

Cisco Webex iOS SDK

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The Cisco Webex iOS SDK makes it easy to integrate secure and convenient Cisco Webex messaging and calling features in your iOS apps.

This SDK is written in [Swift 5](#) and requires **iOS 13** or later.

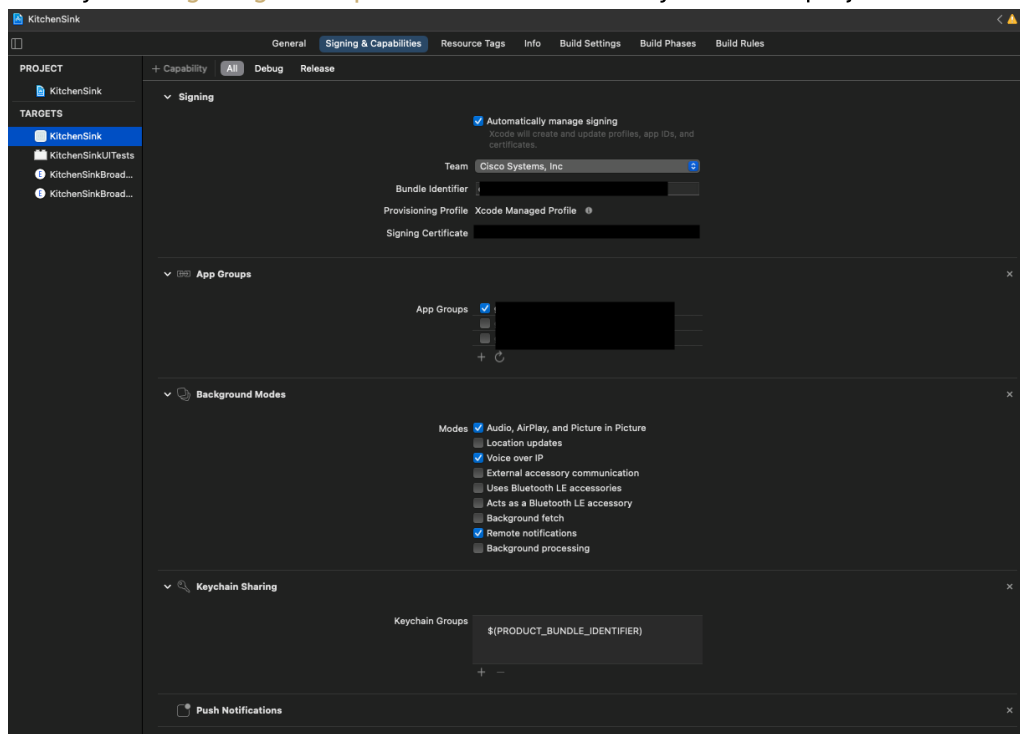
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Install

Assuming you already have an Xcode project, e.g. *MyWebexApp*, for your iOS app, here are the steps to integrate the Webex iOS SDK into your Xcode project:

1. Drag and drop the `webexsdk.framework`, `util_ios.framework`, `wbxaecodec.framework`, `wbxaudioengine.framework` file into your app project
2. Set these frameworks as **Embed & Sign** in your app target
3. set `ENABLE_BITCODE=No`
4. Modify the **Signing & Capabilities** section in your xcode project as follows



Usage

To use the SDK, you will need Cisco Webex integration credentials. If you do not already have a Cisco Webex account, visit [Webex for Developers](#) to create your account and [register your integration](#). Your app will need to authenticate users via an [OAuth](#) grant flow for existing Cisco Webex users or a [JSON Web Token](#) for guest users without a Cisco Webex account.

See the [iOS SDK area](#) of the Webex for Developers site for more information about this SDK.

Example

Here are some examples of how to use the iOS SDK in your app.

1. Create the Webex instance using Webex ID authentication ([OAuth](#)-based):

```
let clientId = "$YOUR_CLIENT_ID"
let clientSecret = "$YOUR_CLIENT_SECRET"
let redirectUri = "https://webexdemoapp.com/redirect"

let authenticator = OAuthAuthenticator(clientId: clientId,
clientSecret: clientSecret, redirectUri: redirectUri, emailId: "")
let webex = Webex(authenticator: authenticator)

webex.initialize { isLoggedIn in
    if isLoggedIn {
        print("User is authorized")
    } else {
        authenticator.authorize(parentViewController: self) {
success in
            if success {
                print("Login successful")
            } else {
                print("Login failed")
            }
        }
    }
}
```

2. Create the Webex instance with Guest ID authentication ([JWT](#)-based):

```
let authenticator = JWTAuthenticator()
let webex = Webex(authenticator: authenticator)

webex.initialize { [weak self] isLoggedIn in
    guard let self = self else { return }
    if isLoggedIn {
        print("User is authorized")
    } else {
        authenticator.authorizedWith(jwt: myJwt) { success in
            if success {
                print("Login successful")
            } else {
```

```
        print("Login failed")
        return
    }
}
}
```

3. Use Webex service:

```
webex.spaces.create(title: "Hello World") { result in
    switch result {
    case .success(let space):
        // ...
    case .failure(let error):
        // ...
    }
}

// ...

webex.memberships.create(spaceId: spaceId, personEmail: email) {
    result in
        switch result {
        case .success(let membership):
            // ...
        case .failure(let error):
            // ...
        }
    }
}
```

4. Make an outgoing call:

```
webex.phone.dial("coworker@acm.com", option:
MediaOption.audioVideo(local: ..., remote: ...)) { result in
    switch result {
    case .success(let call):
        call.onConnected = {
            // ...
        }
        call.onDisconnected = { reason in
            // ...
        }
    case .failure(let error):
        // failure
    }
}
```

5. Make an outgoing CUCM call:

```
webex.phone.dial("+1180012345", option: MediaOption.audioVideo(local:
..., remote: ...)) { result in
  switch result {
  case .success(let call):
    call.onConnected = {
      // ...
    }
    call.onDisconnected = { reason in
      // ...
    }
  case .failure(let error):
    // failure
  }
}
```

6. Receive a call:

```
webex.phone.onIncoming = { call in
  call.answer(option: MediaOption.audioVideo(local: ..., remote:
...)) { error in
  if let error = error {
    // failure
  }
  else {
    // success
  }
}
```

7. Make an space call:

```
webex.phone.dial(spaceId, option: MediaOption.audioVideo(local: ...,
remote: ...)) { result in
  switch result {
  case .success(let call):
    call.onConnected = {
      // ...
    }
    call.onDisconnected = { reason in
      // ...
    }
    call.onCallMembershipChanged = { changed in
      switch changed {
      case .joined(let membership):
        //
      case .left(let membership):

```

```

        //
        default:
        //
    }
}
case .failure(let error):
    // failure
}
}

```

8. Screen share (view only):

```

webex.phone.dial("coworker@acm.com", option:
MediaOption.audioVideoScreenShare(video: (local: ..., remote: ...))) {
ret in
    switch ret {
    case .success(let call):
        call.onConnected = {
            // ...
        }
        call.onDisconnected = { reason in
            // ...
        }
        call.onMediaChanged = { changed in
            switch changed {
                ...
                case .remoteSendingScreenShare(let sending):
                    call.screenShareRenderView = sending ? view : nil
            }
        }
    case .failure(let error):
        // failure
    }
}
}

```

9. Post a message:

```

let plain = "foo"
let markdown = "**foo**"
let html = "<strong>foo</strong>"

```

```

let text = Message.Text.html(html: html)
webex.messages.post(text, toPersonEmail: emailAddress,
completionHandler: { response in
    switch response.result {
    case .success(let message):
        // ...
    }
}
}

```

```
    case .failure(let error):  
        // ...  
    }  
}
```

```
let text = Message.Text.markdown(markdown: markdown, html: html,  
plain: text)  
webex.messages.post(text, toPersonEmail: emailAddress) { result in  
    switch result {  
    case .success(let message):  
        // ...  
    case .failure(let error):  
        // ...  
    }  
}
```

10. Receive a message event:

```
webex.messages.onEvent = { messageEvent in  
    switch messageEvent {  
    case .messageReceived(let message):  
        // ...  
    case .messageDeleted(let messageId):  
        // ...  
    }  
}
```

11. send read receipt of a message

```
webex.messages.markAsRead(spaceId: spaceId, messageId: messageId,  
completionHandler: { result in  
    switch result {  
    case .success(_):  
        // ...  
    case .failure(let error):  
        // ...  
    }  
})
```

12. receive a membership event

```
webex.memberships.onEvent = { membershipEvent in  
    switch membershipEvent {  
    case .created(let membership):  
        // ...  
    }  
}
```

```

    case .deleted(let membership):
        // ...
    case .update(let membership):
        // ...
    case .messageSeen(let membership, let lastSeenId):
        // ...
    }
}

```

13. get read statuses of all memberships in a space

```

webex.memberships.listWithReadStatus(spaceId: spaceId,
completionHandler: { response in
    switch response.result {
    case .success(let readStatuses):
        // ...
    case .failure(let error):
        // ...
    }
})

```

14. receive a space event

```

webex.spaces.onEvent = { spaceEvent in
    switch spaceEvent {
    case .create(let space):
        // ...
    case .update(let space):
        // ...
    case .spaceCallStarted(let spaceId):
        // ...
    case .spaceCallEnded(let spaceId):
        // ...
    }
}

```

15. get read status of a space for login user

```

webex.spaces.getWithReadStatus(spaceId: spaceId, completionHandler: {
response in
    switch response.result {
    case .success(let spaceInfo):
        if let lastActivityDate = spaceInfo.lastActivityDate,
            let lastSeenDate = spaceInfo.lastSeenActivityDate,
            lastActivityDate > lastSeenDate {

            // space is unreadable
        }
    }
})

```

```
        } else {  
            // space is readable  
        }  
        case .failure(let error):  
            // ...  
        }  
    })
```

16. get meeting detail of a space

```
webex.spaces.getMeetingInfo(spaceId: spaceId, completionHandler: {  
    result in  
        switch result {  
        case .success(let meetingInfo):  
            // ...  
        case .failure(let error):  
            // ...  
        }  
    })
```

17. get a list of spaces that have ongoing call

```
webex.spaces.listWithActiveCalls(completionHandler: { result in  
    switch result {  
    case .success(let spaceIds):  
        // ...  
    case .failure(_ ):  
        // ...  
    }  
    })
```

18. Change the layout for the active speaker and other attendee composed video

```
let option: MediaOption = MediaOption.audioVideo(local: ..., remote:  
    ...)  
option.layout = .grid  
  
webex.phone.dial(spaceId, option: option) { ret in  
    // ...  
}
```

19. Background Noise Removal(BNR)

19.1 Enable BNR


```
webex.phone.audioBNREnabled = true
```

19.2 Set BNR mode, the default is `.HP`. It only affects if setting `audioBNREnabled` to true.

```
webex.phone.audioBNRMode = .HP
```

License

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