Apple MeetingSDK v0.5.7 Release Notes. (January 26, 2023)

NOTE:
Version 0.5.x of the Visionable Apple MeetingSDK is a transitional release that begins to expose functionality available in Visionable's "V3" server architecture. As this architecture is not expected to be in production until 1Q2023, any 0.5.x releases of the MeetingSDK are likely to be unstable and change frequently.

If you are looking to write an application that interfaces with Visionable's V2 architecture, you should remain with v0.4 of the MeetingSDK.

We expect that stability will be established against the V3 architecture with v0.6 of the SDK due when the V3 architecture officially goes into production.

OVERARCHING CHANGES (this text present for ALL v0.5.x releases)
Starting with v0.5, the Visionable MeetingSDK has been re-architected to rely on a layer of cross-platform C++-based code to manage the parsing of XML objects coming from our audio/video engine, for establishing model objects representing Meetings and Participants, and for firing "delegate methods/callbacks" notifying your application of changes in state for the current meeting. Prior to v0.5, these functions were individually implemented per-platform supported in that platform's native language. Moving all of this functionality into a common, C++ codebase should result in consistent behavior when dealing with Visionable back-end servers.

CONNECTING TO V3 SERVERS (this text present for ALL v0.5.x releases)
In Visionable's V3 architecture, a special token (referred to as an MJWT token) is required to join a meeting. There are two types of MJWT tokens: a *guest* MJWT token that doesn't correspond to Visionable user and an *authenticated* MJWT token that is obtained by passing a JWT token obtained from Visionable's authentication system (not covered here). To retrieve an MJWT token, use the new `initializeMeetingWithToken` API call *instead of* the original `initializeMeeting` API call (which is used only with V2 servers).

```
public func initializeMeetingWithToken(meetingUUID: String,
server: String, token: String?, completion: @escaping
(Bool,String) -> ())
```

This function still takes a `meetingUUID` and a `server` name but now also takes a `token` parameter that is either `nil` if you wish to obtain a guest MJWT or it contains a JWT token if you want to obtain an authenticated MJWT.

The completion routine for `initializeMeetingWithToken` now is called with a second parameter (String) that contains the MJWT token (guest or authenticated).

Once you obtain an MJWT, you now join the meeting with a call to joinMeetingWithToken:

```
public func joinMeetingWithToken(server: String, meetingUUID:
String, token: String, userUUID: String = "", name: String,
completion: @escaping (Bool) -> ())
```

This function takes the `server` name you are connecting to, the `meetingUUID` for the meeting, the MJWT in the `token` parameter, an option `userUUID` to be associated with the user (pass an empty string to have the SDK generate a userUUID), and the `name` of the user to be shown in the meeting.

Using these two calls will allow you to connect to a V3 meeting. Once connected, all other SDK functionality is the same as with V2 servers.

CONNECTING TO V2 SERVERS

The APIs for connecting to V2 servers have changed slightly. The initializeMeeting API call now looks like this:

```
public func initializeMeeting(meetingUUID: String, server:
String, completion: @escaping (Bool,String) -> ())
```

The completion routine now is called with a second argument that is the AES256 encryption key used for the meeting. Previous SDKs just cached this internally, however now you need to receive it from `initializeMeeting` and pass it to the `joinMeeting` call.

The joinMeeting call now requires you to pass all connection parameters. If the “userUUID” parameter is an empty string, the SDK will generate a guest-based identifier to associate with this participant:

```
public func joinMeeting(server: String, meetingUUID: String,
key: String, userUUID: String = "", name: String, completion:
@escaping (Bool) -> ())
```

See previous release notes in the v0.5.x series for API changes that were new in previous releases. The rest of these release notes pertain only to the v0.5.7 release.

API CHANGES

```
public var isScreenShare: Bool
```

Exposed `isScreenShare` value in all `VideoInfo` objects to be used to determine if a given `VideoInfo` object represents a screen share.

```
public func setAudioStreamVolume(streamId: String, volume:
Int32)->Bool
```

Updated API to return a Boolean to be consistent with similar API calls. Boolean is whether or not the request to set the volume was made successfully.

CHANGES/FIXES

Fixed problem where a crash could be encountered when using the `playSound()` API on systems that tend to allocate dynamic memory in the highest end of a 64-bit address space (where the highest order bit is set on the pointer value)

Fixed problem where sound levels on remote streams might be automatically set back to level 50 periodically during an active meeting.

Addressed multiple issues that could (potentially) cause a crash condition when exiting a meeting.

Added missing log statements in CoreMeeting when making API calls.

KNOWN ISSUES

In support of the new threading model, all delegate methods are executed on a serial OperationQueue that is created by the SDK. Future versions will allow you to specify an OperationQueue that you create (or use the main queue)

The `VideoView.isScreenShare()` API call will likely return `true` for non screen-share video streams if they are being sent at 4K resolution.