

Android MeetingSDK Release 0.4

VIS-3922

Update Android projects to use C++ 17

Also updated cmake version to 3.10

Added cppFlags “-std=c++17 -fexception” to MeetingSDK build.gradle

VIS-4102

Catch errors and disconnect from Android Camera service, stop capture and clean up, and add notification to alert apps. A disconnect occurs when Meeting app in background and user opens camera in different app or if screen sleeps for a while or is turned off. Application should show a message when this notification is received but not restart capture until app is in the foreground.

INotification new callback

void videoError(String errorName, String errorDescription);

errorName – “video_device_camera_error”

errorDescription – “Device Camera Failure”

VIS-4153

Add OpenCV support in Android SDK. Built OpenCV library for Android and included it in Android igvideo build. Also added method to show active speaker:

public static void showActiveSpeaker(**boolean** show)

Shows or hides active speaker highlighting. This turns on monitoring of output amplitude and sets loudest speaker in meeting. This will send message to igvideo to highlight his video. **NOTE:** When IGVideo highlights the frames of the active speaker, it will draw a rectangle around the border of the video frame it hands up to the SDK. If your application employs rounded rectangles and/or if it sizes the frames to fit a given rectangle while maintaining aspect ratio, you may inadvertently clip some of the highlighting applied by IGVideo.

VIS-4355

Add ability to set trace debug level in SDK.

New MeetingSDK method:

public static void setTraceLevel(DebugLevel level)
level – one of the debug levels from Trace.h

VIS-4407

Change definition of SD resolution to VP8 Large (VGA) instead of VP8 Medium (CIF). This was originally a temporary change for testing against competitors but was decided to keep as VGA seemed to be less problematic.

VIS-4532

Stop writing IGAudio and IGVideo trace messages to logcat in release builds.

VIS-4675

Detect when user cancels from Android's recording or casting permission dialog. Added new **INotification** callback to inform user operation was cancelled. Apps will use this notification to turn off any ui element showing that screen capture is in effect.

void screenShareCancelled();

VIS-4844

Add line-at-a-time logging callback for trace messages

New MeetingSDK method:

public static void setTraceMessageCallback(ITraceMessageCallback callback)

New interface for application to receive log messages

```
public interface ITraceMessageCallback {  
    void onTraceMessage(int level, String message);  
}
```

Non-null callback starts receiving IGAudio and IGVideo trace messages and passes to app via

Interface method onTraceMessage(int level, String message)

level = debug level from Trace.h

Message – log message

Null callback stops sending of Trace messages.

VIS-5083

Set local participant name when object created in `join()` method. Previously was not set until first `video_site_changed` event. Added new Participant method to retrieve name

```
public String getName()
```

OTHER CHANGES:

Added ability to play WAV (audio) via IGAudio. Any audio played in this manner will be included in local echo-cancellation algorithms employed by IGAudio when sending sound up to the audio bridge. The `playSound` method returns a long which is used as an identifier for the sound being played. Returns 0 if there was a problem playing the sound. Use `stopSound` (passing the sound id returned by `playSound`) to stop playing a given sound.

```
public static long playSound(byte[] soundBytes, int len)  
public static void stopSound(long id)
```

Added new **INotification** callbacks to inform user of the status of sounds being played via `playSound`.

```
void binaryPlaybackEnded(long id);  
void binaryPlaybackFailed(long id);
```

Added method to the `VideoInfo` class to determine if the associated video stream is a screen share (as opposed to a camera):

```
boolean isScreenShare();
```

Added two convenience methods to `MeetingSDK` to retrieve a `Participant` object based on *audio* stream id, and to retrieve a `VideoInfo` object based on a *video* stream id:

```
public static Participant getParticipantByAudioStreamId(String streamId)  
public static VideoInfo getVideoInfoByStreamId(String streamId)
```

Added overloaded `joinMeeting` method to `MeetingSDK` that allows the user's unique identifier (UUID) to be specified by the caller as opposed to being generated as a guest id by the SDK:

```
public static int joinMeeting(String name, String userUUID)
```