# Video publishing and playback on mobile devices

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### Common rules

Mobile browser requires user action (button click) when starting to publish or play a media stream on mobile device. Also, audio must be muted in HTML5 video tag:

```
let video = document.createElement('video');
video.muted = true;
```

When playing a stream, audio can be unmuted by user action only.

To workaround this, since WebSDK build 2.0.212 stream publishing or playback should be started on mobile device by the following rules:

- 1. If Websocket connection is already established, and a separate button is used to start publiushing or playback (Publish/Play button which user clicks), no additional actions required in application code
- 2. If Websocket connection is establishing by button click, then publishing/playback starts by SESSION\_STATUS.ESTABLISHED event, it is necessary to use playFirstVideo() function for publishing

#### code

```
if (Browser.isSafariWebRTC()) {
    Flashphoner.playFirstVideo(localVideo, true, PRELOADER_URL).then(function() {
        publishStream();
    });
    return;
}
```

and playback

#### code

```
if (Flashphoner.getMediaProviders()[0] === "WSPlayer") {
    ...
} else if (Browser.isSafariWebRTC() || Flashphoner.getMediaProviders()[0] === "MSE") {
    Flashphoner.playFirstVideo(remoteVideo, false, PRELOADER_URL).then(function () {
        playStream();
    });
    return;
}
```

The playFirstVideo function returns a Promise, which is resolved if a test video fragment was successfully played in video element by PRELOADER\_UR

3. If Websocket connection is establishing on page load, then playback starts by SESSION\_STATUS.ESTABLISHED event (autoplay), it is necessary to use playFirstVideo and disable automatic unmute when stream is created

code

```
var options = {
   name: streamName,
   display: remoteVideo,
   flashShowFullScreenButton: true
};
...
if (autoplay) {
   options.unmutePlayOnStart = false;
}
stream = session.createStream(options).on(STREAM_STATUS.PENDING, function (stream) {
    ...
});
stream.play();
```

## Stream publishing and playback in Low Power Mode

In Low Power Mode on iOS devices, user action is mandatory to publish or play media stream. Autoplay does not work in this mode. Use the function playFirstVideo to detect Low Power Mode: a Promise returned by the function will be rejected:

#### code