

# How to reconnect to a stream automatically

## Step by step code sample

If WebRTC stream playback is stopped by some reason, an automatic reconnection can be implemented by tweaking Player example code as follows:

1. Add the variables to configure automatic reconnection to the script beginning

```
var restart = eval(getUrlParam("restart")) || false;
// Settings to restart playback if failed
var restartTimeout = 3000; //ms
var restartMaxTimes = 100; //will try to restart playback for 5 minutes
var restartCount = 0;
var restartTimerId;
```

In this example, player will try to reconnect to the stream every 3 seconds until 100 tries are expired. Therefore, maximum time to wait for the stream to be restored is 5 minutes, then automatic reconnection is cancelled

2. Add clearRestart() function call to clear reconnection timer if enabled to

`STREAM_STATUS.PLAYING` handler

```
function onStarted(stream) {
    ...
    clearRestart();
}
```

3. Add tryToRestart() function call to enable reconnection timer to `SESSION_STATUS.FAILED` handler

```
function start() {
    var url = $('#url').val();
    ...
    Flashphoner.createSession({urlServer:
url}).on(SESSION_STATUS.ESTABLISHED, function(session){
    ...
    }).on(SESSION_STATUS.DISCONNECTED, function(){
    ...
    }).on(SESSION_STATUS.FAILED, function(){
        setStatus(SESSION_STATUS.FAILED);
        onStoped();
        tryToRestart();
    });
}
```

4. Add `clearRestart()` function call to clear reconnection timer if enabled to `STREAM_STATUS.STOPPED` handler

```
function playStream(session) {
  ...
  stream = session.createStream(options).on(STREAM_STATUS.PENDING,
function (stream) {
  ...
  }).on(STREAM_STATUS.PLAYING, function (stream) {
  ...
  }).on(STREAM_STATUS.STOPPED, function () {
    $("#preloader").hide();
    setStatus(STREAM_STATUS.STOPPED);
    clearRestart();
    onStopped();
  }).on(STREAM_STATUS.FAILED, function(stream) {
  ...
  }).on(STREAM_STATUS.NOT_ENOUGH_BANDWIDTH, function(stream){
  ...
  });
  stream.play();
}
```

5. Add `tryToRestart()` function call to enable reconnection timer to `STREAM_STATUS.FAILED` handler

```
function playStream(session) {
  ...
  stream = session.createStream(options).on(STREAM_STATUS.PENDING,
function (stream) {
  ...
  }).on(STREAM_STATUS.PLAYING, function (stream) {
  ...
  }).on(STREAM_STATUS.STOPPED, function () {
  ...
  }).on(STREAM_STATUS.FAILED, function(stream) {
    $("#preloader").hide();
    setStatus(STREAM_STATUS.FAILED, stream);
    onStopped();
    tryToRestart();
  }).on(STREAM_STATUS.NOT_ENOUGH_BANDWIDTH, function(stream){
  ...
  });
  stream.play();
}
```

6. Add the function to enable reconnection timer

```
function tryToRestart() {
  if (restart) {
    restartTimerId = setTimeout(function(){
      if (stream && (stream.status() != STREAM_STATUS.PLAYING) &&
restartCount < restartMaxTimes){
        $("#playBtn").click();
      }
    }, restartTimerInterval);
  }
}
```

```
        restartCount++;
    }
    if (restartCount >= restartMaxTimes) {
        console.log("Tried to restart playback for
"+restartMaxTimes+" times with "+restartTimeout+" ms interval,
cancelled");
    }
    }, restartTimeout);
}
}
```

#### 7. Add the function to clear reconnection timer

```
function clearRestart() {
    if (restart) {
        clearTimeout(restartTimerId);
        restartCount = 0;
    }
}
```

## Ready to use samples

Ready to use Player example based on WebSDK [2.0.228](#) can be downloaded here

[player\\_restart.tar.gz](#)

Ready to use Embed Player example based on WebSDK [2.0.228](#) can be downloaded here

[embed\\_player\\_restart.tar.gz](#)