

Figure - Bug #117316

测试 Test-ST # 111337 (New): ST测试总票

测试 Test-ST # 116840 (New): 中控联调测试-AF

【AF】【EVT3】【AUDIO】连接中控，副屏播放音乐时，屏幕录制开启失败

2023-04-04 14:02 - CD Test赵飞

Status:	CLOSED	Start date:	2023-04-04
Priority:	Normal	Due date:	
Assignee:	CD TEST-方永红	% Done:	100%
Category:	AUDIO-FW	Estimated time:	0.00 hour
Target version:			
Need_Info:	--	Found Version:	FlatBuild_HH_MCE_FSE.M.R.user.01.00.0088.C102(X102)
Resolution:	FIXED	Degrated:	No
Severity:	Major	Verified Version:	FlatBuild_HH_MCE_FSE.M.D.user.01.00.C103(X103)
Reproducibility:	Every time	Fixed Version:	2023-04-20
Test Type:	ST	Root cause:	compress offload播放方式禁用

Description

- 【前提条件】
- 1、副屏与中控已连接
 - 2、副屏音乐播放中，声音正常输出
- 【测试步骤】
- 1、进入控制中心
 - 2、点击屏幕录制
 - 3、在弹出的弹框中打开“设备音频”、“麦克风”开关
 - 4、点击“开始录制”
- 【预期结果】
- 4、在3秒倒计时结束后屏幕录制正常开始
- 【实际结果】
- 4、在3秒倒计时结束后屏幕录制失败，弹出“启动屏幕录制时失败”的toast

History

- #1 - 2023-04-04 14:02 - CD Test赵飞
- File logcat.txt added
- #2 - 2023-04-13 14:16 - CDTs-TEST 周婷
- Severity changed from Normal to Major
- #3 - 2023-04-14 17:58 - CDTs_TEST 王成
- Subject changed from 【AF】【EVT3】【AUDIO】副屏播放音乐时，屏幕录制开启失败 to 【AF】【EVT3】【AUDIO】连接中控，副屏播放音乐时，屏幕录制开启失败
- #4 - 2023-04-15 18:14 - Multimedia组-RD3_TSCD 梁卿山

Hi ALL

■ 当前分析

04-10 01:41:06.530 7428 7705 E AF::Track: Track(63): no more tracks available

```
----- beginning of crash
04-10 01:41:06.531 7428 7705 F libc : Fatal signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 0x38 in tid 7705 (Binder:7428_7), pid 7428 (audioserver)
...
04-10 01:41:07.090 7836 7836 F DEBUG : Cmdline: /system/bin/audioserver
04-10 01:41:07.091 7836 7836 F DEBUG : pid: 7428, tid: 7705, name: Binder:7428_7 >>> /system/bin/audioserver <<<
04-10 01:41:07.091 7836 7836 F DEBUG : uid: 1041
04-10 01:41:07.091 7836 7836 F DEBUG : signal 11 (SIGSEGV), code 1 (SEGV_MAPERR), fault addr 0x38
04-10 01:41:07.091 7836 7836 F DEBUG : Cause: null pointer dereference
04-10 01:41:07.091 7836 7836 F DEBUG : x0 00000000000020000 x1 0200007230141950 x2 0000000000000030 x3 0000000000000010
04-10 01:41:07.091 7836 7836 F DEBUG : x4 0200007230141970 x5 0000000000000001 x6 0000000000000001 x7 7f7f7f7f7f7f7f7f
04-10 01:41:07.091 7836 7836 F DEBUG : x8 0000000000000001 x9 000000752359bc68 x10 000000752359bc58 x11 0000000000000038
04-10 01:41:07.091 7836 7836 F DEBUG : x12 0000ffff000000eff x13 00000000f4a96758 x14 00000071d51aa0d8 x15 0000000034155555
04-10 01:41:07.091 7836 7836 F DEBUG : x16 000000752359e268 x17 000000752012eb78 x18 00000071d42d2000 x19 b4000072b011d710
04-10 01:41:07.091 7836 7836 F DEBUG : x20 0000000000019000 x21 0000000000000001 x22 b400007430118010 x23 0000000000000000
04-10 01:41:07.091 7836 7836 F DEBUG : x24 0000000000000001 x25 0000000000000001 x26 0000007528d20950 x27 0000007528d19408
04-10 01:41:07.091 7836 7836 F DEBUG : x28 0000007528d19470 x29 00000071d51aa680
04-10 01:41:07.091 7836 7836 F DEBUG : lr 0000007523573adc sp 00000071d51aa680 pc 0000007523573b18 pst 0000000020001000
04-10 01:41:07.091 7836 7836 F DEBUG : backtrace:
```

该场景下，开启音乐，录屏时选择录制设备音频时，导致了audioserver died；

■ 下一步

找为什么该场景会导致audioserver重启。

#5 - 2023-04-17 20:06 - Multimedia组-RD3_TSCD 梁卿山

Hi all,

该音乐播放器通过MediaPlayer播放的音乐，发生异常的原因是在创建AudioTrack的时候AudioFormat不对，导致空指针。正确的format为0x1错误的format为0x100000。

```
04-16 01:36:28.725 9814 9877 D AF::TrackHandle: OpPlayAudio: not muting track:67 usage:0 for service UID 1041
04-16 01:36:28.725 9814 9877 W AudioFlinger: isTrackAllowed_: invalid format: 0x1000000
04-16 01:36:28.725 9814 9877 E AF::Track: Track(67): no more tracks available
```

下一步:找到AudioFormat设置的位置，确定设置错误的原因。

#6 - 2023-04-18 16:49 - Multimedia组-RD3_TSCD 梁卿山

Hi all,

由于音源数据解析出来后，符合compress offload的播放模式，当采用该播放模式的时候，audio_format会采用从音源里解析出来的audio_format 0x1000000u。而0x1000000u在安卓原生里没有定义，在录屏时会检查audio_format，匹配不上就会导致空指针，进而导致AudioServer die。

目前的解决方法：先把compress offload播放方式禁用，禁用之后，播放音乐和屏幕录制均正常。（禁用之后，理论上只会影响到功耗）
提交如下，正在编译验证：

<https://dev.thundercomm.com/gerrit/c/general/device/qcom/qssi/+/194563>

next：提qcom case询问是否有更好的解决方式

#7 - 2023-04-19 20:47 - Multimedia组-RD3_TSCD 梁卿山

- Status changed from New to NEED_INFO
- Assignee changed from Multimedia组-RD3_TSCD 梁卿山 to CD TEST-方永红

Hi 永红

麻烦使用以下VB进行验证，研发自测OK

Figure/VerifyBuild/Pre_figure_turbox-c2130c-la1.1-qssi12-dev/20230419/202304190946-426

#8 - 2023-04-20 15:56 - IoT scm

Gerrit Merge Information :

ID	Project	Branch	Uploader
194563	general/device/qcom/qssi	Pre_figure_turbox-c2130c-la1.1-qssi12-dev	tangyj0127@thundersoft.com
MM: Audio: offload disableoffload disableTC-RID: 0301-0900116IssueID: TS-R-BUG-117316Change-Id: I5bd930b7fa438473b28d81b7b3fed0ff9289f8b0			

#9 - 2023-04-21 10:12 - Multimedia组-RD3_TSCD 梁卿山

- Status changed from NEED_INFO to RESOLVED
- Resolution changed from -- to FIXED
- Degrated changed from -- to No
- Fixed Version set to 2023-04-20
- Root cause set to compress offload播放方式禁用

HI 永红

提交已经合入，请使用4/20后的版本进行验证，谢谢

#10 - 2023-04-21 11:25 - CD TEST-方永红

- Status changed from RESOLVED to VERIFIED
- % Done changed from 0 to 100
- Verified Version set to FlatBuild_HH_MCE_FSE.M.D.user.01.00.C103(X103).202304210449

4.21

验证通过

#11 - 2023-04-21 11:25 - CD TEST-方永红

- Status changed from VERIFIED to CLOSED

Files			
logcat.txt	2.27 MB	2023-04-04	CD Test赵飞