Android Public Tracker > Framework   73979782 ▾

← ↻ ☆   System reboot: AudioService JNI ERROR global reference table overflow   +1 ¹   Hotlists (5)   Mark as Duplicate   🔔 ⋮

Comments (11)   Dependencies   Duplicates (0)   Blocking (0)   Resources (2)

Fixed   Bug   P3   + Add Hotlist   [AOSP] assigned

👥 **STATUS UPDATE** No update yet.   Edit

📄 **DESCRIPTION** [Deleted User] created issue #1   Feb 28, 2018 04:30PM   ⋮

- Steps to reproduce the problem .
    Issue happen during monkey test
- What happened.
    System reboot
- What you think the correct behavior should be.
    work normally without reboot

Version: Android 8.1.0
Build number: OPM1.171019.011
Model: sdm660

Analysis:
Root cause: AudioService keeps creating new instance of ForceControlStreamClient and linkToDeath with the same
callback which leads to global reference table overflow
Fix: don't create new instance if call back doesn't change; release old instance before create new one.

Will update fix link

✓ **Links (1)**   Hide all

"Fix: https://android-review.googlesource.com/#/c/platform/frameworks/ba…"   nobody@ #3, nobody@ #7

COMMENTS | All comments ▾ | ↓ Oldest first

○   **[Deleted User]** <[Deleted User]> #2   Feb 28, 2018 04:32PM   ⋮

02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] JNI ERROR (app bug): global reference table
overflow (max=51200)
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] global reference table dump:
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] Last 10 entries (of 51200):
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51199: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51198: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51197: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51196: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51195: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51194: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51193: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51192: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51191: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 51190: 0x70324098
java.lang.Class<android.os.HwBlob>
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] Summary:
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 41152 of
com.android.server.audio.AudioService$ForceControlStreamClient (41152 unique instances)
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 4322 of java.lang.ref.WeakReference (4322
unique instances)
02-25 02:00:33.211 1443 4597 F zygote64: indirect_reference_table.cc:243] 1317 of java.lang.Class (235 unique instances)

○   **[Deleted User]** <[Deleted User]> #3   Feb 28, 2018 05:13PM   ⋮

Fix: https://android-review.googlesource.com/#/c/platform/frameworks/base/+/629147

○   **[Deleted User]** <[Deleted User]> #4   Feb 28, 2018 05:25PM   ⋮

Reporter	○ [Deleted User]
Type	Bug
Priority	P3
Severity	S3
Status	Fixed
Access	Default access View
Assignee	○ ad...@google.com
Verifier	--
Collaborators	👥 _____ ⌃
CC	🔒 _____ ⌃
	[Deleted User]
AOSP ID	--
ReportedBy	--
Found In	--
Targeted To	--
Verified In	--
In Prod	○

Demo code to reproduce this issue, every time one more new instance will be created when forceVolumeControlStream is called

```
mAudio = (AudioManager) mContext.getSystemService(Context.AUDIO_SERVICE);
for (int index = 0; index <51200; index ++)
mAudio.forceVolumeControlStream(0);
```

---

ad...@google.com <ad...@google.com>   Feb 28, 2018 05:39PM

Assigned to ad...@google.com.

---

ad...@google.com <ad...@google.com> #5   Feb 28, 2018 07:52PM ⋮

Thank you for reporting this issue. For us to further investigate this issue, please provide the following additional information:

Device used
Which device did you use to reproduce this issue?

Frequency
How frequently does this issue occur? (e.g 100% of the time, 10% of the time)

Android bug report
After reproducing the issue, press the volume up, volume down, and power button simultaneously. This will capture a bug report on your device in the "bug reports" directory. Attach the bug report file to this issue.

Alternate method:
After reproducing the issue, navigate to developer settings, ensure 'USB debugging' is enabled, then enable 'Bug report shortcut'. To take bug report, hold the power button and select the 'Take bug report' option.

Please upload the files to Google Drive and share the folder to android-bugreport@google.com, then share the link here.

[Deleted User] <[Deleted User]> #6   Mar 1, 2018 01:16PM ⋮

Device used
SDM660 (this is common issue, also can reproduce in other devices, e.g. sdm845)

Frequency
-- 100% with demo code:
```
    mAudio = (AudioManager) mContext.getSystemService(Context.AUDIO_SERVICE);
        for (int index = 0; index <51200; index ++) {mAudio.forceVolumeControlStream(0);}
```
-- 10% in monkey test (without demo code)
    demo code just reduce the time to reproduce this issue, since the max size global reference table is 51200.

Log attached

[Deleted User] <[Deleted User]> #7   Mar 1, 2018 01:17PM ⋮

Fix: https://android-review.googlesource.com/#/c/platform/frameworks/base/+/629147

📎 **deleted**   🔒 Restricted
   0 B ⑦

---

ad...@google.com <ad...@google.com> #8   Mar 1, 2018 07:06PM ⋮

AudioManager.forceVolumeControlStream(int streamType) is @hide in the API ?

[Deleted User] <[Deleted User]> #9   Mar 1, 2018 07:28PM ⋮

yes, it is hide api, it will be called by updateActiveStreamW in systemUI to show the volume adjust screen.
    Monkey test will trigger this screen lots of times and finally cause over flow.

---

ad...@google.com <ad...@google.com> #10   Mar 1, 2018 08:45PM ⋮

We have passed this to the development team and will update this issue with more information as it becomes available.

---

ad...@google.com <ad...@google.com> #11   Mar 13, 2018 02:12AM ⋮

Marked as fixed.

The development team has fixed the issue that you have reported and it will be available in a future build.