

AlarmManager reference leak cause systemserver crash

+1 4 Hotlists (5) Mark as Duplicate

Comments (9) Dependencies Duplicates (0) Blocking (0) Resources (3)

Can't Repro Bug P3 + Add Hotlist [AOSP] assigned

STATUS UPDATE No update yet. Edit

DESCRIPTION ji...@motorolasolutions.corp-partner.google.com created issue #1 Apr 23, 2022 04:42AM

Description:

The API 24 AlarmManager.setExact() method appears to accumulate global references in the AlarmManager service when invoked repeatedly.

The accumulated references don't seem to be ever released, which leads to eventual exhaustion of resources in ART and a crash of the AlarmManager system process.

The issue has been observed on Android 11, and the same test doesn't demonstrate the issue on Android 8.1. The Android versions between 8.1 and 11 haven't been tested.

- Steps to reproduce the problem (including sample code if appropriate).

1. Run test app, download available at: <https://github.com/sgalat/AlarmLeakTest>

2. check systemserver crash

- What happened.

1. systemserver will crash due to AlarmManager leak reference.

signal 6 (SIGABRT), code -1 (SI_QUEUE), fault addr -----

Abort message: 'JNI ERROR (app bug): global reference table overflow (max=51200)global reference table dump:

Last 10 entries (of 2000):

1999: 0x15efe770 com.android.server.AlarmManagerService\$2

- What you think the correct behavior should be.

2. log files can be found at github: <https://github.com/sgalat/AlarmLeakTest/tree/master/logs>

More detail information can be found in the github link README.

Reporter ji...@motorolasolutions.corp-...

Type Bug

Priority P3

Severity S3

Status Won't fix (Not reproducible)

Access Default access View

Assignee vi...@google.com

Verifier --

Collaborators

CC ji...@motorolasolutions.corp-partn

AOSP ID --

ReportedBy Developer

Found In RD2A.211001.002

Targeted To --

Verified In --

In Prod

Links (2) Hide all

"1. Run test app, download available at: <https://github.com/sgalat/AlarmLeakTest>" ji...@ #1, ji...@ #3

"2. log files can be found at github: <https://github.com/sgalat/AlarmLeakTest/tree/master/logs>" ji...@ #1

COMMENTS All comments Oldest first

vi...@google.com <vi...@google.com> #2 Apr 25, 2022 07:06PM

Assigned to vi...@google.com.

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

Frequency

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

Screen record of the issue

Please capture screen record or video of the issue using following steps:

adb shell screenrecord /sdcard/video.mp4

Subsequently use following command to pull the recorded file:

adb pull /sdcard/video.mp4

Attach the file to this issue.

Note: Please avoid uploading directly to the issue using attachments. Please upload to google drive and share the folder to android-bugreport@google.com, then share the link here.

ji...@motorolasolutions.corp-partner.google.com <ji...@motorolasolutions.corp-partner.google.com> #3 Apr 25, 2022 11:49PM


1. With test app attached at Android 11 device, after press the start button, 100% system_server crash. test app source code: <https://github.com/sgalat/AlarmLeakTest>



2. Since crash will happen about 20~30mins. I just recorded the beginning of the test.

 **deleted**
0 B 



 Restricted

 **deleted**
0 B 

 Restricted



 **vi...@google.com** <vi...@google.com> [#4](#) Apr 26, 2022 05:46PM 

We've shared this with our product and engineering teams and will continue to provide updates as more information becomes available.

 **vi...@google.com** <vi...@google.com> [#5](#) May 3, 2022 09:15PM 

Status: Won't Fix (Not Reproducible)



This is already fixed, please check the bug on Android S latest builds.

 **ji...@motorolasolutions.corp-partner.google.com** <ji...@motorolasolutions.corp-partner.google.com> [#6](#) May 4, 2022 05:18AM 



Great, which commit fix this issue? I will cherry-pick this fix to Android 11.

On Tue, May 3, 2022 at 6:16 AM <buganizer-system@google.com> wrote:

[- Show quoted text -](#)

 **ji...@motorolasolutions.corp-partner.google.com** <ji...@motorolasolutions.corp-partner.google.com> [#7](#) May 12, 2022 09:44AM 

Would you please help provide a fix patch for Android 11?

 **hu...@gmail.com** <hu...@gmail.com> [#8](#) Aug 18, 2022 07:41PM 

Would you please help provide a fix patch for Android 11?

 **hu...@gmail.com** <hu...@gmail.com> [#9](#) Sep 6, 2022 04:34PM 

blahaa, where is the link fix the bug for android 11?