Android Public Tracker > App Development > Android Studio > Gradle > Android Gradle Plugin   191392281   ▼

← ↻ ☆   **APKs made and signed using AndroidStudio can no longer be "side loaded"**   +1 ²   Hotlists (1)   Mark as Duplicate   🔔   ⋮

Comments (8)   Dependencies   Duplicates (0)   Blocking (0)   Resources (16)

Obsolete   Bug   P3   + Add Hotlist   NeedsInfo

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

📄 **DESCRIPTION** bk...@gmail.com created issue #1   Jun 20, 2021 06:01AM   ⋮

APKs made and signed using AndroidStudio can no longer be
"side loaded". The error message is:

     "App not installed as package appears to be invalid"

This applies to APKs built using AndroidStudio 4.2.1,
as well as those built using Android Studio Arctic Fox | 2020.3.1 Beta 4
And happens in both phones with Android S and those with Android 11.

The very same app can be loaded directly to the phone using AndroidStudio over USB.

Also, APK files made long ago in AndroidStudio can be installed.

To reproduce, try installing
https://people.csail.mit.edu/bkph/other/CellTracker/API31/CellTracker.apk
(an example of a recently made version - 2021)
and compare
https://people.csail.mit.edu/bkph/other/CellTracker/API29/CellTracker.apk
(an example of an older version - 2019).

Also, get the same error message if some version is already installed.
Need to uninstall that before a good (old) version can be installed.

Other details:

     compileSdkVersion "android-S"
     minSdkVersion 26
     targetSdkVersion 30

==================================

IMPORTANT: Please read
https://developer.android.com/studio/report-bugs.html carefully and supply
all required information.

Studio Build: e.g. Android Studio Arctic Fox | 2021.3.1 Beta or AndroidStudio 4.2.1
Version of Gradle Plugin: e.g. 7.0.0-beta04 or 4.2.1
Version of Gradle: 4.1 or 7.0.2
Version of Java: 1.8 (or not specified)
OS: e.g. Android S SPB2.210513.007 and Android 11 SPB2.210513.007

Steps to Reproduce:
1. Use Build > Generate Signed Bundle / APK to make signed APK
2. Upload to web page say. Navigate to that place in FireFox or Chrome
3. Download in browser and try to install

Given above are two URLs, one for a recently made APK that will not install
giving the error message, and one for an old APK that will install.

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sample logcat output when failing to install:

2021-06-19 15:51:22.850 5479-31420/? I/Finsky: [600] acbj.c(3): Verify: Verification package=com.example.wifirttscanX, id=33
response=0
2021-06-19 15:51:22.867 5479-31414/? I/Finsky: [597] VerifyPerSourceInstallationConsentInstallTask.mK(2): PSIC verification
started with installer uid: 10105 package name: com.google.android.packageinstaller, originating uid: 10260
2021-06-19 15:51:22.869 5479-31414/? I/Finsky: [597] VerifyPerSourceInstallationConsentInstallTask.mK(13): Installation attempt by
package source uid 10260 requires logging
2021-06-19 15:51:22.869 5479-5479/? I/Finsky: [2] VerifyInstallTask.j(3): Verifying id=33, result=1
2021-06-19 15:51:22.879 1720-2010/? W/PackageManager: installPackageLI
2021-06-19 15:51:22.880 1165-16868/? E/installd: Couldn't opendir /data/app/vmdl384018159.tmp: No such file or directory
2021-06-19 15:51:22.880 1165-16868/? E/installd: Failed to delete /data/app/vmdl384018159.tmp: No such file or directory
2021-06-19 15:51:22.884 1720-3278/? I/ActivityTaskManager: START u0
{dat=file:///data/user_de/0/com.google.android.packageinstaller/no_backup/package4246914045988829709.apk flg=0x2000000
cmp=com.google.android.packageinstaller/com.android.packageinstaller.InstallFailed (has extras)} from uid 10105
2021-06-19 15:51:22.884 1720-1807/? I/EventSequenceValidator: Transition from INTENT_FAILED to INTENT_STARTED
2021-06-19 15:51:22.888 1720-1807/? I/EventSequenceValidator: Transition from INTENT_STARTED to INTENT_FAILED
2021-06-19 15:51:22.889 1720-2207/? W/ActivityTaskManager: Tried to set launchTime (0) < mLastActivityLaunchTime (43316316)

Reporter   ⚪ bk...@gmail.com

Type   Bug

Priority   P3

Severity   S3

Status   Won't fix (Obsolete)

Access   Default access   View

Assignee   ⚪ an...@google.com

Verifier   --

Collaborators   👥 _____   ⌃

CC   🔒 _____   ⌃
        bk...@gmail.com
        xa...@google.com

AOSP ID   --

Blocking Release   --

Release Status   --

Found In   --

Targeted To   --

Verified In   --

In Prod   ⚪

Show 1 additional field   ⌄

2021-06-19 15:51:22.903 31354-31354/? D/InstallFailed: Installation status code: 4
2021-06-19 15:51:22.911 21761-21895/? I/System.out: SXCloudProxy: attempting to connect to device 192.168.1.1:9300
2021-06-19 15:51:22.926 1720-1804/? I/ActivityTaskManager: Displayed
com.google.android.packageinstaller/com.android.packageinstaller.InstallFailed: +41ms
2021-06-19 15:51:22.941 1720-2207/? W/InputManager-JNI: Input channel object '142b63f
com.google.android.packageinstaller/com.android.packageinstaller.InstallInstalling (client)' was disposed without first being
removed with the input manager!
2021-06-19 15:51:23.157 933-2298/? I/sensors-hal: [ssc_utils]get_qmi_debug_flag:243, support_qmi_debug : false

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Here is another example

2021-06-19 15:57:06.329 5479-5479/? I/Finsky: [2] VerifyInstallTask.j(3): Verifying id=34, result=1
2021-06-19 15:57:06.334 1720-1807/? I/EventSequenceValidator: Transition from ACTIVITY_LAUNCHED to ACTIVITY_FINISHED
2021-06-19 15:57:06.349 1720-2010/? W/PackageManager: installPackageLI
2021-06-19 15:57:06.350 1165-16868/? E/installd: Couldn't opendir /data/app/vmdl2017010000.tmp: No such file or directory
2021-06-19 15:57:06.350 1165-16868/? E/installd: Failed to delete /data/app/vmdl2017010000.tmp: No such file or directory
2021-06-19 15:57:06.355 1720-1807/? I/EventSequenceValidator: Transition from ACTIVITY_FINISHED to INTENT_STARTED
2021-06-19 15:57:06.358 1720-2892/? I/ActivityTaskManager: START u0
{dat=file:///data/user_de/0/com.google.android.packageinstaller/no_backup/package5357397341988345957.apk flg=0x2000000
cmp=com.google.android.packageinstaller/com.android.packageinstaller.InstallFailed (has extras)} from uid 10105
2021-06-19 15:57:06.371 897-903/? E/statsd: Predicate 5980654721335871649 dropping data for dimension key (10)0x2010101-
>10185[I] (10)0x30000->*launch*[S]
2021-06-19 15:57:06.383 1720-1804/? I/ActivityTaskManager: Displayed
com.android.vending/com.google.android.finsky.verifier.impl.PackageWarningDialog: +239ms
2021-06-19 15:57:06.384 1720-2892/? W/ActivityTaskManager: Tried to set launchTime (0) < mLastActivityLaunchTime (43659506)
2021-06-19 15:57:06.390 1720-1807/? I/EventSequenceValidator: Transition from INTENT_STARTED to INTENT_FAILED
2021-06-19 15:57:06.408 31354-31354/? D/InstallFailed: Installation status code: 4
2021-06-19 15:57:06.431 1720-1804/? I/ActivityTaskManager: Displayed
com.google.android.packageinstaller/com.android.packageinstaller.InstallFailed: +76ms
021-06-19 15:57:06.434 1720-2364/? W/InputManager-JNI: Input channel object 'f93d0bd
com.google.android.packageinstaller/com.android.packageinstaller.InstallInstalling (client)' was disposed without first being
removed with the input manager!

✓ Links (16)   Hide all

🔗 Links (16)

"https://people.csail.mit.edu/bkph/other/CellTracker/API31/..."   bk...@ #1
"https://people.csail.mit.edu/bkph/other/CellTracker/API29/..."   bk...@ #1
"https://developer.android.com/studio/report-bugs.html carefully and supply"   bk...@ #1
"http://192.168.1.1:9300"   bk...@ #1
"https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_24.apk 2021-03-24 11:45   6.0M   F..." bk...@ #2

See all related links

COMMENTS   [All comments ▼]   [↓ Oldest first]

bk...@gmail.com <bk...@gmail.com> #2   Jun 21, 2021 05:34AM ⋮

Addendum. Here are more examples of APKs that cannot be installed (and a few APKs that can be installed):

Link	Date	Size	Status
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_24.apk	2021-03-24 11:45	6.0M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_27.apk	2021-03-27 19:29	7.1M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_28.apk	2021-03-28 16:43	6.7M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_29.apk	2021-03-29 17:12	2.6M	OK
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_03_31.apk	2021-03-31 07:41	2.6M	OK
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_02.apk	2021-04-02 13:45	2.6M	OK
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_03.apk	2021-04-03 12:00	2.6M	OK
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_07.apk	2021-04-07 14:53	2.6M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_09.apk	2021-04-09 11:11	2.6M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_15.apk	2021-04-15 19:45	2.6M	FAIL
https://people.csail.mit.edu/bkph/other/WifiRttScanX/WifiRttScanX_2021_04_28.apk	2021-04-28 15:16	2.6M	FAIL

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vi...@google.com <vi...@google.com>   Jun 23, 2021 02:49PM

Assigned to an...@google.com.

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xa...@google.com <xa...@google.com> #3   Jul 22, 2021 08:59AM ⋮

Now that Android S is final, can you indicate if that is still the case with an app that compiles against API 31 instead of S ?

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bk...@gmail.com <bk...@gmail.com> #4   Jul 23, 2021 03:47AM ⋮

Thank you for the update.

It works "better" in the sense that now it will install and get to the part of the code that asks for user permissions, but soon

after it gets hung up. Apparently with the AndroidRuntime: FATAL EXCEPTION:
    java.lang.RuntimeException: Unable to resume activity {com.example.myandroid/com.welwitschia.celltracker.CellTracker}:
java.lang.SecurityException: listen
(something to do with Telephony listener).

It's possible this new bug is unrelated to the earlier one.

I've uploaded a bug report to My Drive
https://drive.google.com/file/d/1FzZ7bBf81s4_7lur3GcRGaXb_nIwgjRt/view?usp=sharing

This is with

targetSdkVersion 31,
compileSdkVersion 31,
minSdkVersion 26
gradle 'com.android.tools.build:gradle:7.0.0-rc01'

Android Studio Arctic Fox | 2020.3.1 RC 1
Build #AI-203.7717.56.2031.7557721, built on July 16, 2021
Runtime version: 11.0.10+0-b96-7249189 amd64
VM: OpenJDK 64-Bit Server VM by Oracle Corporation
Windows 10 10.0
GC: G1 Young Generation, G1 Old Generation
Memory: 2048M
Cores: 8
Registry: external.system.auto.import.disabled=true
Non-Bundled Plugins: org.jetbrains.kotlin

Loaded on Pixel 5 running Build SPB2.210513.011.A1

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bk...@gmail.com <bk...@gmail.com> #5   Jul 23, 2021 04:02AM ⋮

Addendum: I was able to side-install another app from APK file, fetched by FireFox,
with the same AndroidStudio setup as above.

So the remaining problem mentioned in my comment above may be specific to that app
and may be a problem with the change from TelephonyManager.registerTelephonyCallback to
TelephonyManager.registerPhoneStateListener.

BUT: the same app runs fine when loaded from AndroidStudio rather than sideloaded...

Message last modified on Jul 23, 2021 04:03AM

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xa...@google.com <xa...@google.com> #6   Jul 23, 2021 04:36AM ⋮

I'm guessing the APK you are trying to side load is built from the command line (or your CI server)? Could you compare that
APK with the one built from Studio when you deploy via Studio? Studio injects some properties into the build in order to
optimize the build for the deploy target.

One thing to look at would be the output of `aapt dump badging` on both APKs.

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bk...@gmail.com <bk...@gmail.com> #7   Jul 23, 2021 04:47AM ⋮

I verified with yet another app that side-loading now works again.
Thanks for the fix.
(The problem in comment #4 above was due to something else that I am tracking down now).

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xa...@google.com <xa...@google.com> #8   Jul 23, 2021 05:07AM ⋮

Status: Won't Fix (Obsolete)

Thanks for confirming. I will close this now.