

Figure - Bug #113481

测试 Test-ST # 113421 (New): V4.0功能与专项测试

测试 Test-ST # 113422 (New): V4.0专项--AF专项--monkey测试

【AF】 【EVT2】 【Monkey】 Monkey测试8小时， 出现CRASH: com.android.storagemanager

2022-11-01 15:28 - CD Test赵飞

Status:	CLOSED	Start date:	2022-11-01
Priority:	Normal	Due date:	2022-11-08
Assignee:	CD Test赵飞	% Done:	100%
Category:	CD-FW	Estimated time:	0.00 hour
Target version:	VX1_MCE_FSE_V3.0_update_20221130	Found Version:	FlatBuild_HH_VX1_MCE_FSE.M.D.user.01.00.X101.2
Need_Info:	--	Degrated:	No
Resolution:	FIXED	Verified Version:	
Severity:	Normal	Fixed Version:	2022-11-15
Reproducibility:	Frequently	Root cause:	进程被系统回收，再次进入页面进行数据恢复时，
Test Type:	Monkey Test		
Description			
执行命令：			
1. adb shell			
2. monkey --ignore-crashes --ignore-timeouts --ignore-security-exceptions --monitor-native-crashes --ignore-native-crashes -s 20 --throttle 200			
--pct-touch 30 --pct-motion 15 --pct-nav 15 --pct-majornav 15 --pct-syskeys 5 --pct-appswitch 5 --pct-anyevent 5 --ignore-crashes -v -v -v 180000			
2>/sdcard/error.txt 1>/sdcard/info.txt			
错误日志：			
10-28 07:10:00.283 6173 10310 W Monkey : // CRASH: com.android.storagemanager (pid 8807)			
10-28 07:10:00.284 6173 10310 W Monkey : // Short Msg: java.lang.ClassNotFoundException			
10-28 07:10:00.284 6173 10310 W Monkey : // Long Msg: java.lang.ClassNotFoundException:			
androidx.preference.PreferenceGroup\$SavedState			
10-28 07:10:00.284 6173 10310 W Monkey : // Build Label: TC/figure_CN/figure:12/SKQ1.220201.001/1230:userdebug/test-keys			
10-28 07:10:00.284 6173 10310 W Monkey : // Build Changelist: 1230			
10-28 07:10:00.285 6173 10310 W Monkey : // Build Time: 1666894340000			
10-28 07:10:00.285 6173 10310 W Monkey : // java.lang.RuntimeException: Unable to start activity			
ComponentInfo{com.android.storagemanager/com.android.storagemanager.deletionhelper.DeletionHelperActivity}:			
android.os.BadParcelableException: ClassNotFoundException when unmarshalling: androidx.preference.PreferenceGroup\$SavedState			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.ActivityThread.performLaunchActivity(ActivityThread.java:3636)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.ActivityThread.handleLaunchActivity(ActivityThread.java:3793)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.servertransaction.LaunchActivityItem.execute(LaunchActivityItem.java:103)			
10-28 07:10:00.285 6173 10310 W Monkey : // at			
android.app.servertransaction.TransactionExecutor.executeCallbacks(TransactionExecutor.java:135)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.servertransaction.TransactionExecutor.execute(TransactionExecutor.java:95)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.ActivityThread\$H.handleMessage(ActivityThread.java:2211)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.os.Handler.dispatchMessage(Handler.java:106)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.os.Looper.loopOnce(Looper.java:201)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.os.Looper.loop(Looper.java:288)			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.app.ActivityThread.main(ActivityThread.java:7880)			
10-28 07:10:00.285 6173 10310 W Monkey : // at java.lang.reflect.Method.invoke(Native Method)			
10-28 07:10:00.285 6173 10310 W Monkey : // at com.android.internal.os.RuntimeInit\$MethodAndArgsCaller.run(RuntimeInit.java:548)			
10-28 07:10:00.285 6173 10310 W Monkey : // at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:1009)			
10-28 07:10:00.285 6173 10310 W Monkey : // Caused by: android.os.BadParcelableException: ClassNotFoundException when unmarshalling:			
androidx.preference.PreferenceGroup\$SavedState			
10-28 07:10:00.285 6173 10310 W Monkey : // at android.os.Parcel.readParcelableCreator(Parcel.java:3416)			

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10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Parcel.readParcelable(Parcel.java:3324)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.view.AbsSavedState.<init>(AbsSavedState.java:67)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.view.AbsSavedState.<init>(AbsSavedState.java:56)
10-28 07:10:00.285 6173 10310 W Monkey :// at androidx.preference.Preference$BaseSavedState.<init>(Preference.java:2210)
10-28 07:10:00.285 6173 10310 W Monkey :// at
com.android.storagemanager.deletionhelper.CollapsibleCheckboxPreferenceGroup$SavedState.<init>(CollapsibleCheckboxPreferenceGroup.j
ava:201)
10-28 07:10:00.285 6173 10310 W Monkey :// at
com.android.storagemanager.deletionhelper.CollapsibleCheckboxPreferenceGroup$SavedState$1.createFromParcel(CollapsibleCheckboxPrefe
renceGroup.java:220)
10-28 07:10:00.285 6173 10310 W Monkey :// at
com.android.storagemanager.deletionhelper.CollapsibleCheckboxPreferenceGroup$SavedState$1.createFromParcel(CollapsibleCheckboxPrefe
renceGroup.java:218)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Parcel.readParcelable(Parcel.java:3333)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Parcel.readValue(Parcel.java:3226)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Parcel.readArrayMapInternal(Parcel.java:3623)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.BaseBundle.initializeFromParcelLocked(BaseBundle.java:292)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.BaseBundle.unparcel(BaseBundle.java:236)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Bundle.getParcelable(Bundle.java:1002)
10-28 07:10:00.285 6173 10310 W Monkey :// at androidx.preference.Preference.dispatchRestoreInstanceState(Preference.java:2064)
10-28 07:10:00.285 6173 10310 W Monkey :// at
androidx.preference.PreferenceGroup.dispatchRestoreInstanceState(PreferenceGroup.java:508)
10-28 07:10:00.285 6173 10310 W Monkey :// at androidx.preference.Preference.restoreHierarchyState(Preference.java:2049)
10-28 07:10:00.285 6173 10310 W Monkey :// at androidx.preference.PreferenceFragment.onViewCreated(PreferenceFragment.java:278)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.FragmentManagerImpl.moveToState(FragmentManager.java:1313)
10-28 07:10:00.285 6173 10310 W Monkey :// at
android.app.FragmentManagerImpl.moveFragmentToExpectedState(FragmentManager.java:1581)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.FragmentManagerImpl.moveToState(FragmentManager.java:1642)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.FragmentManagerImpl.dispatchMoveToState(FragmentManager.java:3052)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.FragmentManagerImpl.dispatchActivityCreated(FragmentManager.java:3004)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.FragmentController.dispatchActivityCreated(FragmentController.java:185)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.Activity.performCreate(Activity.java:8078)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.Activity.performCreate(Activity.java:8050)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.Instrumentation.callActivityOnCreate(Instrumentation.java:1330)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.app.ActivityThread.performLaunchActivity(ActivityThread.java:3609)
10-28 07:10:00.285 6173 10310 W Monkey :// ... 12 more
10-28 07:10:00.285 6173 10310 W Monkey :// Caused by: java.lang.ClassNotFoundException:
androidx.preference.PreferenceGroup$SavedState
10-28 07:10:00.285 6173 10310 W Monkey :// at java.lang.Class.classForName(Native Method)
10-28 07:10:00.285 6173 10310 W Monkey :// at java.lang.Class.forName(Class.java:454)
10-28 07:10:00.285 6173 10310 W Monkey :// at android.os.Parcel.readParcelableCreator(Parcel.java:3390)
10-28 07:10:00.285 6173 10310 W Monkey :// ... 39 more
10-28 07:10:00.285 6173 10310 W Monkey :// Caused by: java.lang.ClassNotFoundException:
androidx.preference.PreferenceGroup$SavedState
10-28 07:10:00.285 6173 10310 W Monkey :// ... 42 more
10-28 07:10:00.285 6173 10310 W Monkey ://

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History

#1 - 2022-11-01 16:08 - CD Test赵飞

#2 - 2022-11-09 16:12 - CD FW 曹覃刚

- Status changed from New to ASSIGNED

- Assignee changed from CD FW 曹覃刚 to CD FW-廖涛

#3 - 2022-11-09 19:48 - CD FW-廖涛

■ Current state

经过分析，问题出现在进入存储管理后，退到后台，当前进程被系统杀掉，然后再回到存储管理，恢复数据时，出现找不到类的问题，导致崩溃。

■ My analysis

复现方法：在开发者模式中，找到【不保留活动】选项，并开启；然后进入 设置-存储-释放空间，退到后台，再进入；

开始分析以为是 androidx.preference.PreferenceGroup 类没有被加载，但从实际打印日志可以看出 Bundle 中的 ClassLoader 可以成功加载 androidx.preference.PreferenceGroup，猜测可能是 AOSP 的 BUG；

解决崩溃的临时方法：因为是恢复数据时，找不到类，那么可以在 Bundle 移除对应数据，不对其进行恢复，直接使用默认初始化数据；该方法会导致用户变更数据丢失；

■ Next action

进一步分析，看是否能解决。

#4 - 2022-11-10 16:40 - CD FW-廖涛

修复 Crash 问题，提交：<https://dev.thundercomm.com/gerrit/c/general/platform/packages/apps/StorageManager/+/161730>

#5 - 2022-11-10 16:40 - CD FW-廖涛

- % Done changed from 0 to 80

- Degraded changed from -- to No

#6 - 2022-11-10 16:42 - CD FW-廖涛

- Root cause set to 进程被系统回收，再次进入页面进行数据恢复时，PreferenceGroup 数据拆箱异常，导致崩溃。

#7 - 2022-11-11 10:45 - CD FW-廖涛

- Status changed from ASSIGNED to RESOLVED

- Assignee changed from CD FW-廖涛 to CD Test赵飞

- % Done changed from 80 to 100

- Resolution changed from -- to FIXED

- Fixed Version set to 2022-11-15

#8 - 2022-11-16 11:01 - CD Test赵飞

- % Done changed from 100 to 70

11月15号Release版本（user）未复现此问题

Monkey问题，继续跟踪2个版本

#9 - 2022-11-17 10:14 - CD Test赵飞

11月16号DB版本（user）未复现此问题
Monkey问题，继续跟踪1个版本

#10 - 2022-11-18 10:33 - CD Test赵飞
- Status changed from RESOLVED to VERIFIED
- % Done changed from 70 to 80

11月17号Release版本（user）未复现此问题
已跟踪3个版本未复现，关闭此问题

#11 - 2022-11-18 10:33 - CD Test赵飞
- Status changed from VERIFIED to CLOSED
- % Done changed from 80 to 100

#12 - 2022-12-22 20:52 - CD FW-王伟

Gerrit Merge Information :

ID	Project	Branch	Uploader
161730	general/platform/packages/apps/Storag eManager	Pre_figure_turbox-c2130c-la1.1-qssi12 -dev	tao.liao@thundersoft.com
AF:StorageManager: Fix crash when restore from background. When restore PreferenceGroup data, app will crash. Remove PreferenceGroup data, keep default.TC-RID: 1201-0203701IssueID: TS-R-BUG-113481Change-Id: I202a11e138bd55897511cb91366a48e5dd79fcf1			