

Figure - Bug #118372

【IOVDEV-31381】【VC1】【0095】【台架】【EE环境】【副屏】05月29日下午晚上九点执行的monkey命令，05月29号晚上10：47分monkey命令自动停止了

2023-05-30 19:26 - CDTs_TEST 王成

Status:	CLOSED	Start date:	2023-05-30
Priority:	Normal	Due date:	2023-06-05
Assignee:	CD FW 曹覃刚	% Done:	0%
Category:	CD-FW	Estimated time:	0.00 hour
Target version:			
Need_Info:	TEST	Found Version:	01.00.0095.c103
Resolution:	--	Degrated:	--
Severity:	Major	Verified Version:	
Reproducibility:	Occasionally	Fixed Version:	
Test Type:	ST	Root cause:	
Description			
【环境信息】EE环境			
【问题出现时间】：20230527 15:28			
【前提条件】：副屏上电，网络正常			
【操作步骤】			
1.05月29日下午晚上九点执行的monkey命令。			
【实际结果】			
1.05月29号晚上10：47分monkey命令自动停止了。			
【期望结果】			
1.monkey命令进行中状态。			
【备注】：			
台架Log地址： https://ofs.human-horizons.com/#/download/index/Prohe6zGLuc%3D			
【当前开机次数】：副屏第135次开机			
【应用版本】：/			
【VIN】：HRYTTESTVINMGM401			
【硬件版本号】：/			
【中控版本号】：03.02.0082.C101			
【副屏版本号】：01.00.0095.c103			
Related issues:			
Related to Figure - Bug # 118461: 【IOVDEV-32260】【内部】【VC1】...		CLOSED	2023-06-02

History

#1 - 2023-05-30 19:38 - CDTs_TEST 王成

#2 - 2023-05-30 19:58 - CD FW 曹覃刚

- Category changed from CD-FW to 依赖客户及其供应商解决
- Status changed from New to NEED_INFO
- Assignee changed from CD FW 曹覃刚 to CDTS_TEST 王成

Hi 王成

客户抓的日志是05/30号的实时日志，已经是第二天的日志了

请帮忙抓取历史日志，谢谢

已飞书同步此消息

#3 - 2023-05-31 14:25 - CDTS_TEST 王成

- File 1685514227718.zip added
- Status changed from NEED_INFO to ASSIGNED
- Assignee changed from CDTS_TEST 王成 to CD FW 曹覃刚

#4 - 2023-05-31 15:33 - CD FW 曹覃刚

- Status changed from ASSIGNED to NEED_INFO
- Assignee changed from CD FW 曹覃刚 to CDTS_TEST 王成

Hi 王成

05-29 22:47:09.466 18178 18178 I Monkey : Sleeping for 500 milliseconds

//最后一条monkey日志

05-29 22:47:09.486 18123 18125 I adbd : persist.adb.tls_server.enable changed to 0

05-29 22:47:09.486 18123 18125 I adbd : adb wifi stopped

//wifi adb 断了

05-29 22:47:09.528 0 0 I [34989.348005] libprocessgroup: Successfully killed process cgroup uid 0 pid 18123 in 32ms

05-29 22:47:09.533 0 0 I [34989.349623] init: Service 'adbd' (pid 18123) received signal 9

//adb 进程没了

看日志应该是由wifi adb断了，所以monkey停了

并无其他异常发生

请同步此信息给客户，谢谢

#5 - 2023-05-31 16:49 - CDTS-TEST 周婷

- Status changed from NEED_INFO to ASSIGNED
- Assignee changed from CDTS_TEST 王成 to CD LC 陶洪普

洪普，请帮忙分析wifi adb 断掉的原因，日志中是否有wifi 断开信息，

#6 - 2023-05-31 16:52 - CDTS-TEST 周婷

- Due date set to 2023-06-05

【Summary】

//Monkey测试中下发touch事件，touch屏幕坐标为(1532.0,240.0), 根据横纵坐标的大小猜测正是wifi开关的位置

05-29 22:47:09.454 18178 18178 I Monkey :.*Sending Touch (ACTION_DOWN): 0:(1532.0,240.0)*

05-29 22:47:09.460 1513 1763 I input_interaction: Interaction with: 73ef6c4 com.android.settings/com.android.settings.homepage.SettingsHomepageActivity (server), swipe-up (server), edge-swipe (server), PointerEventDispatcher0 (server),

05-29 22:47:09.461 13134 13134 D ViewTouchDebug: mView : DecorView@badc287[SettingsHomepageActivity]Receive event : MotionEvent { action=ACTION_DOWN, actionButton=0, id⁰=0, x⁰=1532.0, y⁰=240.0, toolType⁰=TOOL_TYPE_UNKNOWN, buttonState=0, classification=NONE, metaState=0, flags=0x0, edgeFlags=0x0, pointerCount=1, historySize=0, eventTime=34989273, downTime=34989273, deviceId=-1, source=0x1002, displayId=0, eventId=-403622258 }

05-29 22:47:09.463 1866 1866 D ViewTouchDebug: mView : com.android.systemui.navigationbar.NavigationBarFrame{57c62da V.E.....I. 0,0-2560,46 #7f0b03f2 app:id/navigation_bar_frame}Receive event : MotionEvent { action=ACTION_OUTSIDE, actionButton=0, id⁰=0, x⁰=0.0, y⁰=-1034.0, toolType⁰=TOOL_TYPE_UNKNOWN, buttonState=0, classification=NONE, metaState=0, flags=0x0, edgeFlags=0x0, pointerCount=1, historySize=0, eventTime=34989273, downTime=34989273, deviceId=-1, source=0x1002, displayId=0, eventId=1514932734 }

05-29 22:47:09.463 18178 18178 I Monkey :.*Sending Touch (ACTION_UP): 0:(1517.1094,240.35599)*

//wifi在Settings界面被关闭

05-29 22:47:09.468 1513 8206 I WifiService: setWifiEnabled package=com.android.settings uid=1000 enable=false

//wifi一系列行为被禁止或关闭

05-29 22:47:09.478 1513 1784 D WifiActiveModeWarden: Shutting down all client mode managers

05-29 22:47:09.478 1513 1784 D WifiClientModeManager[wlan0]: currentstate: ConnectModeState

05-29 22:47:09.481 1513 1513 D WifiP2pService: Wifi enabled=false

05-29 22:47:09.481 20149 20149 D BluetoothAdapterService: android.net.wifi.WIFI_STATE_CHANGED

05-29 22:47:09.482 1513 1784 D WifiClientModeManager[wlan0]: Active SubscriptionInfo list not found

05-29 22:47:09.482 1513 1784 D WifiClientModeManager[wlan0]: The target role change info null

05-29 22:47:09.482 1513 1784 D WifiClientModeManager[wlan0]: Continue to stop wifi

//wifi adb断掉

05-29 22:47:09.486 18123 18125 I adbd : persist.adb.tls_server.enable changed to 0

05-29 22:47:09.486 18123 18125 I adbd : adb wifi stopped

//wifi底层驱动断开，"reason=3"代码表示连接已断开，原因是"deauth_leaving"

//"locally_generated=1"表示断开连接是由设备本地发起的，而不是由远程访问点发起的。

05-29 22:47:09.630 17863 17863 I wpa_supplicant: wlan0: CTRL-Event-DISCONNECTED bssid=08:79:8c:36:8a:50 reason=3 locally_generated=1

//状态获取，wifi enable为0，代表false

Line 1228: 05-29 22:47:09.694 1409 1454 D LOWI-9.0.0.87.a: [LOWIController] updateIntfState: WIFI enabled 0 mNIWifiStatus 1 mWifiStateEnabled 1

【Next Action】

综上所述，wifi开关被Monkey从Settings界面关闭，所以导致wifi断开，wifi断开的原因是Monkey的自主行为，请相关团队检查monkey脚本以及touch的坐标是否对应

#8 - 2023-05-31 17:55 - CDTS-TEST 周婷

- Category changed from 依赖客户及其供应商解决 to CD-FW

- Assignee changed from CD LC 陶洪普 to CD FW 曹覃刚

覃刚，这个能从setting 关闭这个原因再往下进行分析不？

#9 - 2023-05-31 19:09 - CD FW 曹覃刚

- Status changed from ASSIGNED to NEED_INFO
- Assignee changed from CD FW 曹覃刚 to CDTS-TEST 周婷
- Need_Info changed from -- to TEST

Hi 周婷

覃刚，这个能从setting 关闭这个原因再往下进行分析不？

你是指monkey测试时，不让他操作设定里面的画面吗？

是的话，可以通过修改monkey测试的参数，在黑名单里加上这个应用，就不会测试setting了

#10 - 2023-05-31 21:11 - CDTS-TEST 周婷

- Status changed from NEED_INFO to ASSIGNED
- Assignee changed from CDTS-TEST 周婷 to CD SYSTEM-夏旭

请帮忙进行分析为何再settings 中关闭wifi 会导致adb -d 进程被杀掉

#11 - 2023-06-01 14:54 - CD SYSTEM-夏旭

1. 从log看是要设置一个属性值

05-29 22:47:09.496 18123 18125 I adbd : Waiting for persist.adb.tls_server.enable=1

代码：

LINUX/android/system/core/adb/daemon/adb_wifi.cpp

```
const char kWifiPortProp[] = "service.adb.tls.port";
const char kWifiEnabledProp[] = "persist.adb.tls_server.enable";

static void start_wifi_enabled_observer() {
    std::thread([]() {
        bool wifi_enabled = false;
        while (true) {
            std::string toggled_val = wifi_enabled ? "0" : "1";
            LOG(INFO) << "Waiting for " << kWifiEnabledProp << " = " << toggled_val;
            if (WaitForProperty(kWifiEnabledProp, toggled_val)) {
                wifi_enabled = !wifi_enabled;
                LOG(INFO) << kWifiEnabledProp << " changed to " << toggled_val;
                if (wifi_enabled) {
                    enable_wifi_debugging();
                } else {
                    disable_wifi_debugging();
                }
            }
        }
    }).detach();
}

#endif // __ANDROID__
```

```
} // namespace
```

#12 - 2023-06-02 15:41 - CDTs_Test 吴诗雨

- Subject changed from 【IOVDEV-31381】 【VC1】 【0095】 【台架】 【EE环境】 【副屏】 05月29日下午晚上九点执行的monkey命令, 05月29号晚上10:47分monkey命令自动停止了 to 【IOVDEV-31381】 【IOVDEV-32260】 【VC1】 【0095】 【台架】 【EE环境】 【副屏】 05月29日下午晚上九点执行的monkey命令, 05月29号晚上10:47分monkey命令自动停止了

#13 - 2023-06-02 17:28 - CD SYSTEM-夏旭

- Subject changed from 【IOVDEV-31381】 【IOVDEV-32260】 【VC1】 【0095】 【台架】 【EE环境】 【副屏】 05月29日下午晚上九点执行的monkey命令, 05月29号晚上10:47分monkey命令自动停止了 to 【IOVDEV-31381】 【VC1】 【0095】 【台架】 【EE环境】 【副屏】 05月29日下午晚上九点执行的monkey命令, 05月29号晚上10:47分monkey命令自动停止了

此问题的root case为 adbd被kill, 正常的关闭wifi或拔掉USB并不导致adbd被kill, 其中如下关键字是个切入点, 需要AF调查什么样的路径可以触发 AdbDebuggingManager: Wifi disabled. Disabling adbwifi.

从异常日志分析, 异常链路如下:

wifi disable ---->> Disabling adbwifi. --->> adb wifi stopped --->> adbd killed ---->> monkey killed

目前做了如下调查

1. wifi disable引发的adb wifi stopped, 本地验证连接wifi adb后, 使用下拉栏或setting界面, 如下打印相同

```
05-28 13:04:31.194 21074 21245 I WifiService: setWifiEnabled package=com.android.settings uid=1000 enable=false
05-28 13:04:31.200 21074 21226 D WifiActiveModeWarden: Shutting down all client mode managers
05-28 13:04:31.200 21074 21226 D WifiClientModeManager[wlan0]: currentstate: ConnectModeState
05-28 13:04:31.205 21074 21074 D WifiP2pService: Wifi enabled=false
05-28 13:04:31.217 21074 21226 D WifiClientModeManager[wlan0]: Active SubscriptionInfo list not found
05-28 13:04:31.217 21074 21226 D WifiClientModeManager[wlan0]: The target role change info null
05-28 13:04:31.217 21074 21226 D WifiClientModeManager[wlan0]: Continue to stop wifi
05-28 13:04:31.220 21074 21226 D WifiClientModeManager[wlan0]: Stopping ClientModelImpl
05-28 13:04:31.222 21074 21074 D WifiP2pService: Wifi enabled=false
```

但未出现如下异常打印, 所以并未造成adbd被kill:

```
05-29 22:47:09.485 1513 1513 I AdbDebuggingManager: Wifi disabled. Disabling adbwifi.
05-29 22:47:09.486 18123 18125 I adbd : persist.adb.tls_server.enable changed to 0
05-29 22:47:09.486 18123 18125 I adbd : adb wifi stopped
05-29 22:47:09.494 831 831 W android.hardware.wifi@1.0-service: No active wlan interfaces in use! Using default
05-29 22:47:09.496 18123 18125 I adbd : Waiting for persist.adb.tls_server.enable=1
05-29 22:47:09.497 0 0 I [34989.315908] init: Sending signal 9 to service 'adbd' (pid 18123) process group...
```

其中如下关键字是个切入点, 需要调AF查什么样的路径可以触发

AdbDebuggingManager: Wifi disabled. Disabling adbwifi.

1.1. 发现在下面的java文件会去设备属性persist.adb.tls_server.enable

1.1.1. AdbService.java

```
SystemProperties.get(WIFI_PERSISTENT_CONFIG_PROPERTY, "0")); in initAdbState()
private static final String WIFI_PERSISTENT_CONFIG_PROPERTY = "persist.adb.tls_server.enable"; field in AdbService
SystemProperties.set(WIFI_PERSISTENT_CONFIG_PROPERTY, "1"); in setAdbEnabled()
```

1.1.2. AdbDebuggingManager.java

```
private static final String WIFI_PERSISTENT_CONFIG_PROPERTY = "persist.adb.tls_server.enable";
SystemProperties.set(WIFI_PERSISTENT_CONFIG_PROPERTY, "1"); in handleMessage()
```

```
SystemProperties.set(WIFI_PERSISTENT_CONFIG_PROPERTY, "1"); in handleMessage()
```

http://192.168.87.66:8006/source/xref/Pre_figure_turbox-c2130c-la1.1-vendor-dev/LINUX/android/frameworks/base/services/core/java/com/android/server/adb/AdbDebuggingManager.java#108

```
Slog.i(TAG, "Wifi disabled. Disabling adbwifi.");
```

连接wifi adb后，使用下拉状态栏或者setting界面去关闭wifi，并没有上述打印，但问题复现的日志中出现了此异常

1.2. 不清楚上层在什么时候会去设置这个属性值.从adbd退出原因看，在退出前一直在等待这个属性设备

```
log: 05-29 22:47:09.496 18123 18125 I adbd : Waiting for persist.adb.tls_server.enable=1
```

```
static void start_wifi_enabled_observer() {
    std::thread([]() {
        bool wifi_enabled = false;
        while (true) {
            std::string toggled_val = wifi_enabled ? "0" : "1";
            LOG(INFO) << "Waiting for " << kWifiEnabledProp << "=" << toggled_val;
            if (WaitForProperty(kWifiEnabledProp, toggled_val)) {
                wifi_enabled = !wifi_enabled;
                LOG(INFO) << kWifiEnabledProp << " changed to " << toggled_val;
                if (wifi_enabled) {
                    enable_wifi_debugging();
                } else {
                    disable_wifi_debugging();
                }
            }
        }
    }).detach();
}

#endif // __ANDROID__
} // namespace
```

2. adbd killed ---->> monkey killed

本地手动stop adbd 会造成monkey killed，这个是正常的，monkey需要adbd输出log

```
05-29 22:47:09.528 0 0 I [34989.348005] libprocessgroup: Successfully killed process cgroup uid 0 pid 18123 in 32ms
05-29 22:47:09.533 0 0 I [34989.348533] init: Control message: Processed ctl.stop for 'adbd' from pid: 1513 (system_server)
05-29 22:47:09.533 0 0 I [34989.349623] init: Service 'adbd' (pid 18123) received signal 9
05-29 22:47:09.533 0 0 I [34989.350314] init: Untracked pid 18178 received signal 9
05-29 22:47:09.533 0 0 I [34989.350477] init: processing action (init.svc.adbd=stopped) from (/system/etc/init/hw/init.usb.configfs.rc:14)
```

android/development/cmds/monkey/src/com/android/commands/monkey/MonkeySourceNetwork.java

```
public MonkeySourceNetwork(int port) throws IOException {
    // Only bind this to local host. This means that you can only
    // talk to the monkey locally, or through adb port forwarding.
    serverSocket = new ServerSocket(port,
        0, // default backlog
        InetAddress.getLocalHost());
}
```

#14 - 2023-06-02 17:54 - CD SYSTEM-夏旭

- Assignee changed from CD SYSTEM-夏旭 to CD FW 曹章刚

#15 - 2023-06-03 16:44 - CD FW-田成财

- Status changed from ASSIGNED to RESOLVED

■ 结论

Android原生机制，关闭wifi的时候，会发送广播关闭adb_wifi_enabled, 后会通过adb service kill掉adbd进程；
跑monkey的时候可以在开发者选中关闭WirelessDebugging开关，然后再通过adb wifi跑monkey；

■ 分析

1. system_server中的adbdebug线程收到关闭wifi的广播后，会设置SettingsProvider中的值ADB_WIFI_ENABLED；

LINUX/android/frameworks/base/services/core/java/com/android/server/adb/AdbDebuggingManager.java

```
599     public void onReceive(Context context, Intent intent) {
600         String action = intent.getAction();
601         // We only care about when wifi is disabled, and when there is a wifi network
602         // change.
603         if (WifiManager.WIFI_STATE_CHANGED_ACTION.equals(action)) {
604             int state = intent.getIntExtra(
605                 WifiManager.EXTRA_WIFI_STATE, WifiManager.WIFI_STATE_DISABLED);
606             if (state == WifiManager.WIFI_STATE_DISABLED) {
607                 Slog.i(TAG, "Wifi disabled. Disabling adbwifi.");
608                 Settings.Global.putInt(mContentResolver,
609                     Settings.Global.ADB_WIFI_ENABLED, 0);
```

2.adb service会监听Settings.Global.ADB_WIFI_ENABLED变化，如果发生变化会调用setAdbEnabled来kill掉adbd

```
196     private class AdbSettingsObserver extends ContentObserver {
197         private final Uri mAdbWifiUri = Settings.Global.getUriFor(Settings.Global.ADB_WIFI_ENABLED);
198
199         @Override
200         public void onChange(boolean selfChange, @NonNull Uri uri, @UserIdInt int userId) {
201             if (mAdbUsbUri.equals(uri)) {
202                 ...
212             } else if (mAdbWifiUri.equals(uri)) {
213                 boolean shouldEnable = (Settings.Global.getInt(mContentResolver,
214                     Settings.Global.ADB_WIFI_ENABLED, 0) > 0);
215                 FgThread.getHandler().sendMessage(obtainMessage(
216                     AdbService::setAdbEnabled, AdbService.this, shouldEnable,
217                     AdbTransportType.WIFI));
218             }
219         }
220     }
```

3.setAdbEnabled最终通过ctl_stop init命令来kill掉adbd进程；

```
442     private void stopAdbd() {
443         if (!mIsAdbUsbEnabled && !mIsAdbWifiEnabled) {
444             SystemProperties.set(CTL_STOP, ADBD);
445         }
446     }
```

■ 下一步

通过adb wifi跑monkey之前：

- 1. 在开发者选中关闭WirelessDebugging开关，再跑；
- 2. settings加入黑名单；

#16 - 2023-07-17 17:46 - CDTS_TEST 王成
- Status changed from RESOLVED to VERIFIED

客户回复：后续出现该问题再重新提报问题，此票关闭

#17 - 2023-07-17 17:46 - CDTS_TEST 王成
- Status changed from VERIFIED to CLOSED

Files			
1685514227718.zip	43.8 MB	2023-05-31	CDTS_TEST 王成