📁 Android Public Tracker    37092818   ▾

← ↻ ☆    **[developer preview] Android N WiFi cuts in and out randomly (low Linux wireless kernel driver quality?)**    +1 ⁴⁵   | Hotlists (6) | Mark as Duplicate | 🔔 | ⋮

| Comments (35) | Dependencies | Duplicates (0) | Blocking (0) | Resources (16) |

[Obsolete]   Bug   P3   (+)   [AOSP] assigned     NeedsInfo

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

📄 **DESCRIPTION** kr...@gmail.com created issue #1      Apr 10, 2016 07:35AM   ⋮

    * Which Developer Preview (or Android Beta) build are you using?

NPC56W

* What device are you using? (for example, Nexus 6P)

Nexus 5X

* What are the steps to reproduce the problem? (Please provide the minimal reproducible test case.)

Connect the device to a wireless network and wait up to 2 hours. During that 2 hour period, the wifi will randomly disconnect and reconnect, even if the screen is on and an app is actively using the wifi (like a google hangout call). When the screen is off, the wifi appears to be disabled more often. Could be a doze issue? Or the fact that I have Data Saver enabled? But I have the device in airplane mode, with no mobile connectivity (Google Fi is configured with a Google Fi sim).

* What was the expected result?

It is expected that the wireless connection will always remain on and perform reliably.

* What was the actual result?

The actual result is that the wireless connection randomly becomes inactive and automatically reactivates itself quite often.

* Relevant logcat output.

Hard to catch in real-time, but will try to catch it next time. Have been going on for a month now. Finally putting the bug up here so others can contribute their logs too.

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✓ Mentioned issues (2)    ✓ Links (13)        Hide all

⚙ **Mentioned issues (2)**

P3   Android is not open Bluetooth 4.0 for develope... " ...milar to issue 36949180 . Perhaps they should be merge... " kr...… #5, vo...… #19

P2   Pixel 8.0.0 keeps dropping/reconnecting wifi "https://issuetracker.google.com/67557122"     os...@ #34

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🔗 **Links (13)**

"http://192.168.86.196/24,"        kr...@ #2
"http://192.168.86.0/24"        kr...@ #2
"http://0.0.0.0/0"        kr...@ #2
"http://www.embeddedlinux.org.cn/linux_net/0596002556/understandlni-C..."    kr...@ #4
"https://code.google.com/p/android/issues/detail?id=203..."    kr...@ #8

    See all related links

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**COMMENTS**        [ All comments ▾ ]   [ ↓ Oldest first ]

○ **kr...@gmail.com** <kr...@gmail.com> #2        Apr 10, 2016 11:19AM   ⋮

This snippet of logcat apeared around the time I captured wifi going away and coming back. Only looking at errors / failures here, so i only grepped 'err|fail'.

"""
04-09 18:15:45.754  4119 12624 D IpReachabilityMonitor: NeighborEvent{elapsedMs=22213198, 192.168.86.1, [(null)], RTM_NEWNEIGH, NUD_FAILED}
04-09 18:15:45.756  4119 12624 W IpReachabilityMonitor: ALERT: NeighborEvent{elapsedMs=22213198, 192.168.86.1, [(null)], RTM_NEWNEIGH, NUD_FAILED}
04-09 18:15:45.758  4119 12624 W IpReachabilityMonitor: FAILURE: LOST_PROVISIONING, NeighborEvent{elapsedMs=22213198, 192.168.86.1, [(null)], RTM_NEWNEIGH, NUD_FAILED}
04-09 18:15:45.900  5804 12689 V NativeCrypto: Read error: ssl=0x7dc1144000: I/O error during system call, Software caused connection abort
04-09 18:15:45.903  5804 12689 V NativeCrypto: SSL shutdown failed: ssl=0x7dc1144000: I/O error during system call, Broken

pipe

04-09 18:15:45.910  5804 12689 E GCM     : Wifi connection closed with errorCode 20
04-09 18:15:46.012 10325 10325 D MusicLifecycle:
com.google.android.music.leanback.AutoCacheSchedulingService$ActionReceiver generated event: Broadcast received with
context android.app.ReceiverRestrictedContext@dc033b1 and intent Intent { act=android.net.conn.CONNECTIVITY_CHANGE
flg=0x4000010 cmp=com.google.android.music/.leanback.AutoCacheSchedulingService$ActionReceiver (has extras) }
04-09 18:15:46.049  3419  4569 E Netd    : netlink response contains error (No such file or directory)
04-09 18:16:08.103  4119  5529 E WifiHAL : wifi_error wifi_get_link_stats(wifi_request_id, wifi_interface_handle,
wifi_stats_result_handler): requestResponse Error:-110
04-09 18:16:08.105  4119  5529 E wifi    : android_net_wifi_getLinkLayerStats: failed to get link statistics
04-09 18:16:32.168 12068 12858 E AudioRecord-JNI: Error -4 during AudioRecord native read
04-09 18:16:33.125  5619  5619 I wpa_supplicant: wlan0: CTRL-EVENT-SCAN-FAILED ret=-16
04-09 18:16:33.176  5619  5619 I wpa_supplicant: wlan0: CTRL-EVENT-SCAN-FAILED ret=-16 retry=1
04-09 18:16:33.327  4119  5529 D ConnectivityService: registerNetworkAgent NetworkAgentInfo{ ni{[type: WIFI[], state:
CONNECTING/CONNECTING, reason: (unspecified), extra: "-", roaming: false, failover: false, isAvailable: true]}  network{134}
 nethandle{575542053598}  lp{{LinkAddresses: []  Routes: [] DnsAddresses: [] Domains: null MTU: 0 TcpBufferSizes:
524288,6291456,8291456,524288,6291456,8291456}}  nc{[ Transports: WIFI Capabilities:
INTERNET&NOT_RESTRICTED&TRUSTED&NOT_VPN LinkUpBandwidth>=1048576Kbps LinkDnBandwidth>=1048576Kbps]}
 Score{20}  everValidated{false}  lastValidated{false}  created{false} lingering{false} explicitlySelected{false}
acceptUnvalidated{false} everCaptivePortalDetected{false} lastCaptivePortalDetected{false} }
04-09 18:16:33.441  4119  5549 D ConnectivityService: Switching to new default network: NetworkAgentInfo{ ni{[type: WIFI[],
state: CONNECTED/CONNECTED, reason: (unspecified), extra: "-", roaming: false, failover: false, isAvailable: true]}
 network{134}  nethandle{575542053598}  lp{{InterfaceName: wlan0 LinkAddresses: [192.168.86.196/24,]  Routes: [fe80::/64 -
> :: wlan0,192.168.86.0/24 -> 0.0.0.0 wlan0,0.0.0.0/0 -> 192.168.86.1 wlan0,] DnsAddresses: [192.168.86.1,] Domains: lan
MTU: 0 TcpBufferSizes: 524288,6291456,8291456,524288,6291456,8291456}}  nc{[ Transports: WIFI Capabilities:
INTERNET&NOT_RESTRICTED&TRUSTED&NOT_VPN LinkUpBandwidth>=1048576Kbps LinkDnBandwidth>=1048576Kbps
SignalStrength: -52]}  Score{20}  everValidated{false}  lastValidated{false}  created{true} lingering{false}
explicitlySelected{false} acceptUnvalidated{false} everCaptivePortalDetected{false} lastCaptivePortalDetected{false} }
"""

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**kr...@gmail.com** <kr...@gmail.com> #3                                    Apr 10, 2016 11:21AM  ⋮

Also saw this shortly afterwards: "04-09 18:20:13.548  4119  5549 D ConnectivityService: Failed to find a new network -
expiring NetTransition Wakelock"

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**kr...@gmail.com** <kr...@gmail.com> #4                                    Apr 10, 2016 11:37AM  ⋮

Seems like a Linux kernel issue at layer2 or layer3. Possibly ipv6 advertisements?

http://www.embeddedlinux.org.cn/linux_net/0596002556/understandlni-CHP-27-SECT-6.html

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**kr...@gmail.com** <kr...@gmail.com> #5                                    Apr 10, 2016 11:39AM  ⋮

Similar to issue 36949180. Perhaps they should be merged?

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**kr...@gmail.com** <kr...@gmail.com> #6                                    Apr 10, 2016 02:12PM  ⋮

04-09 21:11:16.279 29400 29433 I qtaguid : Failed write_ctrl(u 82) res=-1 errno=22
04-09 21:11:16.280 29400 29433 I qtaguid : Untagging socket 82 failed errno=-22
04-09 21:11:16.280 29400 29433 W NetworkManagementSocketTagger: untagSocket(82) failed with errno -22
04-09 21:11:16.834 29400 29433 I qtaguid : Failed write_ctrl(u 95) res=-1 errno=22
04-09 21:11:16.834 29400 29433 I qtaguid : Untagging socket 95 failed errno=-22
04-09 21:11:16.835 29400 29433 W NetworkManagementSocketTagger: untagSocket(95) failed with errno -22

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**ss...@google.com** <ss...@google.com> #7                                 Apr 11, 2016 11:32PM  ⋮

*Assigned to ss...@google.com.*

Hi,
Can you provide the below requested information to better understand the issue:


Android bug report:
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.

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**kr...@gmail.com** <kr...@gmail.com> #8                                    Apr 11, 2016 11:35PM  ⋮

Yes fine, but I am having a hard time believing your process works because users are experiencing issues and for some
reason you at Google are not catching these issues. For instance, see the issue below where you also said you "could not
reproduce", but we have multiple people reporting the same issue.

https://code.google.com/p/android/issues/detail?id=203708

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**ss...@google.com** <ss...@google.com> #9                                 Apr 15, 2016 04:56PM  ⋮

Hi,

We have preview 2 NPC91K available. Please get back to with the  #6 information to look into this issue. Do let me know if the

issue is not reproducible in the preview 2 to close the bug.

Thanks...

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**kr...@gmail.com** <kr...@gmail.com> #10        Apr 15, 2016 07:18PM ⋮

Done. I updated to the new firmware 48 hours ago and the wifi issues still exist on the new image.

https://drive.google.com/file/d/0B75Y2Pq4wn1RTjZyS3J2aWIwcDA/view?usp=sharing
https://drive.google.com/file/d/0B75Y2Pq4wn1RLXpiMldrdTBXZTg/view?usp=sharing

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**ss...@google.com** <ss...@google.com> #11        Apr 28, 2016 11:33PM ⋮

[Comment deleted]

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**pu...@gmail.com** <pu...@gmail.com> #12        May 3, 2016 06:33AM ⋮

Looks like this happens only at 2,5Mhz. When using 5MHz the connection is stable. Nexus 6

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**bd...@gmail.com** <bd...@gmail.com> #13        May 13, 2016 02:47PM ⋮

I'm having the same issue. Nexus 6, on a 2.5Mhz connection. I'm able to get wifi data working if I disable cellular data though. And other times I'll be connected to wifi but the phone will use cell data instead of WiFi. Attached is what it looks like in the notifications zone when I have LTE data enabled and WiFi on.

📎 **deleted**                        🔒 Restricted
    0 B ⓘ

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**kr...@gmail.com** <kr...@gmail.com> #14        May 14, 2016 07:46AM ⋮

Oh look at that, ssingamc...@google.com finally got around to marking at least one of my bugs as CONFIRMED. Please look at all the rest of my submitted bugs ssingamc...@google.com because they are the bugs that users will be complaining about in years to come once Android N is released publicly. You can either improve Android N now, or wait for users to be pissed off later...

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**ki...@gmail.com** <ki...@gmail.com> #15        May 26, 2016 04:49AM ⋮

I too am experiencing this intermittent wifi drop.  I know for sure it happens on 2.4ghz connections, not sure about 5ghz (more on that a little later).  All my drops have occurred on 2.4ghz, as I would lose connection to my wireless router and would be connected to a local guest network requesting TOS acceptance.  I manually switch back to my wireless router and it works, till it doesn't.  I have been using the wireless router daily with 6.01 since I got my 6p without issues.  I installed the latest N preview last night, and got the errors the following morning when using my wireless router at work.

I am using Project Fi, and have signal spy installed.  When I installed the latest N preview, it appears that my phone wants to connect to 2.4Ghz as much as possible, vs the perfectly good 5Ghz with good signal.  If I manually disconnect and reconnect I get the 5Ghz.

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**kr...@gmail.com** <kr...@gmail.com> #16        May 26, 2016 05:19AM ⋮

I am also using Project Fi.

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**an...@gmail.com** <an...@gmail.com> #17        Jul 24, 2016 10:17PM ⋮

Nexus 6 user running NPD90G facing the same issue since N beta preview 4.
Random wifi drops in 5 or 2.4Ghz.
Not a Project Fi user.
Not depending on the AP brand (reproduced using sagemcom, huawei, cisco, ubiquiti AP running different wlan chips).

For instance, a dmesg during two drops in few seconds:
[ 6119.562004] CFG80211-ERROR) wl_cfg80211_disconnect : Reason 3
[ 6119.563276] CFG80211-ERROR) wl_is_linkdown : Link down Reason : WLC_E_LINK
[ 6119.563286] CFG80211-ERROR) wl_notify_connect_status : link down if wlan0 may call cfg80211_disconnected. event : 16, reason=2 from xx:xx:xx:xx:xx:xx
[ 6119.568409] cfg80211: Calling CRDA for country: FR
[ 6122.599133] CFG80211-ERROR) wl_cfg80211_connect : Connecting to xx:xx:xx:xx:xx:xx with channel (100) ssid Lab-AP
[ 6142.837294] CFG80211-ERROR) wl_cfg80211_disconnect : Reason 3
[ 6142.838365] CFG80211-ERROR) wl_is_linkdown : Link down Reason : WLC_E_LINK
[ 6142.838378] CFG80211-ERROR) wl_notify_connect_status : link down if wlan0 may call cfg80211_disconnected. event : 16, reason=2 from xx:xx:xx:xx:xx:xx
[ 6142.841785] cfg80211: Calling CRDA to update world regulatory domain

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**ma...@gmail.com** <ma...@gmail.com> #18        Aug 4, 2016 02:52PM ⋮

Nexus 5X running latest dev preview and get the same issue. Except my wifi drops and then never shows AP list.

**vo...@gmail.com** <vo...@gmail.com> #19            Aug 15, 2016 07:55PM   ⋮

Why has Issue 36949180 (Wi-Fi stops working after sleep https://code.google.com/p/android/issues/detail?id=190667) been marked private?

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**bk...@gmail.com** <bk...@gmail.com> #20            Aug 16, 2016 09:14PM   ⋮

Nexus 6P NPD90G same issue on 2.4ghz and 5ghz but less often in the 5ghz

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**ja...@gmail.com** <ja...@gmail.com> #21            Oct 11, 2016 10:08PM   ⋮

Nexus 6P Android N Oct 5th, Build NBD90X here.
Bought on 4/10/2016, one week ago, in Germany, after Pixel announcement (too expensive).
Manufacturing date: 11/17/2015 (bit old, maybe refurbished?)

Behaviour: At first, connects normally to WiFi. Connection stable for a bit, so it is not a reoccuring "it reconnects every 60 seconds and can't hold the connection" thing, it is very different.

In following situations it drops Wifi:
- When screen goes off for more than 1-2 minutes
- when I cast something (YouTube, Twitch) to my Chromecast and the Nexus screen turns off after 60 seconds, the Cast continues, but when I wake up the phone, Youtube or the other apps say connection lost, so I can no longer control the stream. I tap "retry" but it does not work and I have to restart phone, reconnect to Chromecast and stop the cast that way. Super annoying.
- And, not often but happens: even when i scroll through Twitter, it randomly disconnects and reconnects after about 10-20 seconds.

Things I have tried:
- different APs and Networks (home, at work, at a friend's house)
- changed Wifi channel, 2.4, 5ghz, .. basically just tested every setting here at home. since problem occurs also at work and other networks, can't be the cause.
- wiped system cache, nothing
- reset network settings on phone, several times, nothing
- WPS, nothing
- switched from "always" to "only when plugged in" at "stay connected to wifi" setting. changed behavior to: not reconnecting to WiFi when woken up. Instead, it finds all networks BUT the one it remembers and should connect to. I have to turn wifi on and off, even that does not help sometimes. then I have to reboot.
- eventually I factory reset the device on sunday, started with "set up as new device" from scratch, wasted another few hours to eventually have the same result.

I used all my data plan because "Android System" downloaded so much in the background in the first night (when it should have been in Wifi of course), have to turn cellular data off now to not pay for extra megabytes (germany..).
 so I don't get any updates or push mails anymore because mobile data off and it drops Wifi all the time. this is unbearable. Same router with my previous Desire HD, LG G3 and Nexus 5X: all with no problems.

My big question is: is this a software issue that will be resolved or do I have a defect device? I need to know fast because I have 14 days return time at my reseller and 7 are gone, 4 of them I tried to fix the problem. The old manufacturing date made me questioning the device in general. So is this software-related and will be fixed or should I RMA my device?

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**vo...@gmail.com** <vo...@gmail.com> #22            Oct 11, 2016 10:51PM   ⋮

Please try the newest Images for the Nexus devices. With Android patch level from October 5th the issue seems to have been fixed.

https://source.android.com/security/bulletin/2016-10-01.html

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**ja...@gmail.com** <ja...@gmail.com> #23            Oct 11, 2016 10:56PM   ⋮

First line of my report above:

"Nexus 6P Android N Oct 5th, Build NBD90X here."

Not sure if you're trolling.

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**vo...@gmail.com** <vo...@gmail.com> #24            Oct 11, 2016 11:02PM   ⋮

Sorry, didn't read that.

Please have a look at https://code.google.com/p/android/issues/detail?id=196035#c122 where someone claims the newest build fixed the bug for him on his nexus device.

I don't have a Nexus device but Zuk Z1 which seems unaffected to the bug with newest CyanogenMod NIGHTLY.

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**tu...@gmail.com** <tu...@gmail.com> #25            Oct 12, 2016 01:02AM   ⋮

I just updated to NBD90X on Wednesday (10/5/16) with October patches and am experiencing the same exact issues. Wi-Fi and bluetooth both disconnect after the phone is idle for a few minutes and must be manually powered back on. So far no

steps have resolved it (reset, clear cache etc) and it happens on all networks.

This is destroying my data plan.

**kr...@gmail.com** <kr...@gmail.com> #26                    Oct 12, 2016 01:46AM ⋮

The post by Jan is exactly the problem. Either Google is shipping defective devices or defective software. Nexus 5x has been the worst phone I have ever owned. Google offered a refund on the phone and then never provided it because they are fascists.

**vo...@gmail.com** <vo...@gmail.com> #27                    Oct 17, 2016 07:36PM ⋮

The issue is still present in current CyanogenMod - apparently it works for some hours after installing a new ROM but the day after flashing the new ROM it still did disconnect while in sleep. Sorry for the confusion.

**wg...@gmail.com** <wg...@gmail.com> #28                    Nov 26, 2016 08:51AM ⋮

I have this issue also. I'm using the dev preview of 7.0. Wifi will become disabled or fail to connect to the network it was just using. The phone will reboot without warning after prolonged use. Sometimes it will be hot before the reboot and sometimes it will not be hot.
I've tried resetting my phone (nexus6) a few times and the issue returns. Before one reset I rooted using chain fire's method and tried troubleshooting as root. I observed that when the phone lost wifi connectivity, wlan0 disappeared from the list of adapters shown via ifconfig -a. The status of the wlan0 driver also is shown as "not loaded". It appears that the phone is dumping tbe wireless interface driver for some reason. I suspect other system files are failing to be read and this causes the device to reboot. Sometimes the phone must rebooted a few times to restore connectivity. I lost root the last time I factory reset my phone and have not rerooted so I have much fewer troubleshooting options at this time.
My Linux kung-fu is weak. My knowledge of Android's inner workings is weaker. Please help or tell me where to find the tools to help my self. Thanks

**le...@gmail.com** <le...@gmail.com> #29                    Jan 21, 2017 05:49AM ⋮

whil tis bug every be fixed??
https://productforums.google.com/forum/#!topic/nexus/Qbeb7ZP0wOw

have to restart my Nexus 5X ever 60 to 80 hours do get wifi working again
(i think it depends on how often the wifi nework changes)

**jo...@gmail.com** <jo...@gmail.com> #30                    Feb 7, 2017 03:19AM ⋮

Intermittent Wi-Fi drop also happening on Moto Z Nougat

**ah...@gmail.com** <ah...@gmail.com> #31                    Feb 9, 2017 06:28AM ⋮

same issue here. zte axon 7 enhanced.

**da...@gmail.com** <da...@gmail.com> #32                    Feb 21, 2017 08:45AM ⋮

[Comment deleted]

**kr...@gmail.com** <kr...@gmail.com> #33                    Apr 14, 2017 04:01AM ⋮

please delete this bug report and all information if you plan to do nothing with it.

**os...@gmail.com** <os...@gmail.com> #34                    Oct 29, 2017 10:08PM ⋮

This issue still not fix,Even Android 8.0:
https://issuetracker.google.com/issues/67557122

But ,there have a temporary solution,If you choice root, you can disable IPv6 supoort by set a kernel parameters after boot finish:
https://jira.lineageos.org/browse/REGRESSION-369?
focusedCommentId=19982&page=com.atlassian.jira.plugin.system.issuetabpanels%3Acomment-tabpanel#comment-19982

**is...@google.com** <is...@google.com>                    May 15, 2018 04:39AM

*Status: New*

**sa...@google.com** <sa...@google.com> #35                    Apr 30, 2020 03:27AM ⋮

*Status: Won't Fix (Obsolete)*

Thank you for your feedback. We assure you that we are doing our best to address the issue reported, however our product team has shifted work priority that doesn't include this issue. For now, we will be closing the issue as won't fix obsolete. If this

issue currently still exists, we request that you log a new issue along with latest bug report here https://goo.gl/TbMiIO.