

Replicant - Issue #243

Galaxy Nexus: Minor issues with FOSS modem drivers.

09/13/2012 01:46 PM - Anonymous

Status:	Resolved	Start date:	09/13/2012
Priority:	Normal	Due date:	
Assignee:	Paul Kocialkowski	% Done:	0%
Category:	Telephony and mobile data	Estimated time:	0.00 hour
Target version:	Replicant 4.0	Spent time:	0.00 hour
Resolution:	fixed	Grant:	
Device:	Galaxy Nexus (GT-I9250), Galaxy Nexus (I9250)	Type of work:	

Description

*) Calling *DATA# fails opens a dialog box with the message "USSD #####". Text messages do work, however.

*) Cellular signal strength icon is inaccurate.

*) Every few weeks (on average) the data connection drops out until reset by toggling airplane mode. GSM connectivity may be independent.

All tolerable issues, device is still quite usable.

History

#1 - 10/14/2012 09:34 AM - Paul Kocialkowski

- Category set to 87

- Status changed from New to In Progress

- Assignee set to Paul Kocialkowski

- Priority changed from Low to Normal

- Target version set to Replicant 4.0

- USSD is known not to work reliably (the code has magic in it and it wasn't tested a lot), this is for all Samsung devices
- I'll look about signal strength, it affects other Samsung devices as well
- We strictly implement the protocol to setup data connectivity and there isn't much more we can do: all errors reported by the modem are being taken in account, but when the modem doesn't report anything, we can't guess and restart the connection.

Thanks for the report :)

#2 - 03/07/2013 08:26 PM - Paul Kocialkowski

Signal strength should be fixed in git.

#3 - 01/15/2014 10:45 PM - Robert Sink

honestly, I think this issue should be marked as resolved/closed. USSD codes usually only work on the [closed source] shipped rom that comes on a phone. I kind of consider these a backdoor; they are definitely carrier codes. On some devices, I've found throwing the phone into QDM from these codes can be helpful [to further microscope or hack with some tools], but there are other malicious USSD code(s) as well that can wipe data, etc. PaulK has apparently fixed signal strength, and the connectivity is not specific enough to do anything about. Since you guys are free; I definitely wouldn't enable all USSD codes ;)

#4 - 01/18/2014 11:44 AM - Paul Kocialkowski

- Category changed from 87 to Telephony and mobile data

I am pretty sure USSD works with CyanogenMod. You may be confusing USSD with Samsung Service Mode codes, which are triggered about the same way (through dialing special numbers in the Phone app) but are very different things. There is free software support for some of the Samsung Service Mode codes that trigger some modem configuration interface. This is properly supported by Samsung-RIL.

I'll keep the issue open because USSD codes are still not working properly (they are not used by my operator so I have no way to test and improve the situation).

#5 - 12/11/2015 02:38 PM - Denis 'GNUtoo' Carikli

- Device Galaxy Nexus (I9250) added

#6 - 12/11/2015 02:44 PM - Denis 'GNUtoo' Carikli

- Status changed from In Progress to Resolved

- Resolution set to fixed

Migrated the USSD remaining issue at [#1569](#)

Denis.

#7 - 02/27/2021 08:42 AM - Denis 'GNUtoo' Carikli

- Device Galaxy Nexus (GT-I9250) added