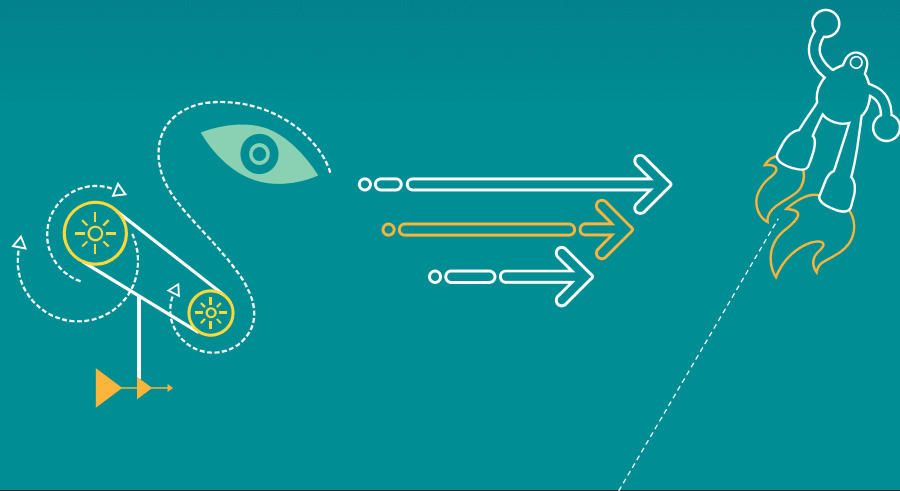

高通协议技术期刊 – 2015/04/03



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Qualcomm Technologies, Inc. 5775 Morehouse Drive San Diego, CA 92121 U.S.A.

高通技术股份有限公司，美国加利福尼亚州圣地亚哥市莫豪斯路 5775 号，邮编 92121

Revision History

Revision	Date	Description
A	Apr 2015	Initial release

Note: There is no Rev. I, O, Q, S, X, or Z per Mil. standards.

Contents

- 8916/8939/9x30系统解决方案
- MBN solution
- Standard Operation Procedure(SOP)
- Regarding Google portal service
- MMODE: AP should send the command to exit the emergency callback mode after Emergency call
- How to disable segment loading on 8909.
- How to enable F3 logs on 8909.
- App note: EVDO RSSI Updating for Test Application Protocol
- FR22013 Flexible cross mapping feature app note

8916/8936/9x30系统解决方案Solution

- 为了直观，便于检索，我们在Salesforce系统上编写了系统解决方案。包含各个技术领域，便于大家查找。
- 8916系统解决方案
- Solution Number: 00029134
- 链接：<https://qualcomm-cdmatech-support.my.salesforce.com/50130000000VfUZ?srPos=0&srKp=501>
- 8939系统解决方案
- Solution Number: 00029333
- 链接：<https://qualcomm-cdmatech-support.my.salesforce.com/50130000000Vg5B>
- MDM9x30/9x35系统解决方案
- Solution Number 00029678
- <https://qualcomm-cdmatech-support.my.salesforce.com/50130000000ViGQ>

MBN介绍

- MBN的设计需求，文档，实现方法, 请参阅Solution number:00029357.
- <https://qualcomm-cdmatech-support.my.salesforce.com/50130000000VgDA?srPos=0&srKp=501>
- 因为客户量产的版本可能不是高通最新的版本，但是MBN却随着软件版本不断的更新，所以推荐将高通最新软件版本的MBN，合入客户的版本中。
- Solution 00030261, MBN build command for Windows when Excel not work.
- Solution 00030575, How to check if baseline support build multi MBN into NON-HLOS.bin.
- Solution 00030566, How to fix MBN Excel crash issue.

Standard Operation Procedure(SOP)

- 80-ND934-2 , 80-ND934-2EC
- DATA THROUGHPUT TROUBLESHOOTING
- 80-NJ378-1: WCDMA AUDIO ISSUE DEBUG OVERVIEW
- VD80-NJ378-1SC: VIDEO: WCDMA AUDIO ISSUE DEBUG OVERVIEW - SIMPLIFIED CHINESE
- 80-ND934-1_B GSM_OOS_AND_MT_CALL_FAILURE_APPLICATION_NOTES
- 80-NV403-1EC MODEM协议技术普及文档
- 80-NV076-1EC UE掉网问题分析指导书
- 80-NJ397-1: HSPA DATA THROUGHPUT ISSUE DEBUGGING
- 80-P0167-1: EC_A_UMTS_GSM_Audio_Issue_Troubleshooting

Regarding Google portal service

- **Issue description:**

- 1. 在Android L上，当用户连接上WLAN AP，有时会看到叹号显示网络问题；
- 2. 当用户先开启数据业务，再连上WLAN AP，有时候用户需要较长时间才能看到数据业务图标消失。

-

- **Analysis :**

- 在Android L上，ConnectivityService会尝试连接某些Google Server以验证WLAN是可用的。现在，在中国大陆不能连接到这些Google服务器。

-

- **Solution :**

- 我们可以通过禁止portal service使ConnectivityService放弃这种尝试。
- adb root
adb shell
cd /data/data/com.android.providers.settings/databases
sqlite3 settings.db
- insert into global (name,value) values (`captive_portal_detection_enabled`,0);

MMODE: AP should send the command to exit the emergency callback mode after Emergency call

- **Issue description:**

- Step1: Emergency Call originated.
- Step2: Emergency Call ended, then UE enter emergency callback mode
- step3: Call Manager module could not handle other task in emergency callback mode.

- **Analysis :**

- The issue is caused by modem entered into emergency callback mode after Emergency call. Modem need exit this mode to handle other tasks, this need AP send exit command to modem.

- MSG [00005/01] Call
Manager/Medium 10:07:17.951 cmph.c 08269 =CM= Enter
emergency callback mode on ss 0

- When modem enter into emergency callback mode, modem will report following indication to AP to let AP know this mode:

- QmiType = NAS
- SduCtlFlags = IND
- MsgType = QMI_NAS_GET_SYSTEM_SELECTION_PREFERENCE
- EmergencyMode {
- emergency_mode = ON
- }

AP should send the command to exit the emergency callback mode after Emergency call

▪ **Solution:**

- To exit this emergency call back mode after Emergency call, AP should send following command to modem after emergency call.

- 2014 Jun 27 06:12:44.221 [40] 0x138E QMI Link 1 RX PDU
- IFTYPE = 1
- QmiLength = 16
- QmiCtlFlags = 0
- QmiType = NAS
- Service_Nas {
- ClientId = 2
- SduCtlFlags = REQ
- TxId = 10725
- MsgType = QMI_NAS_SET_SYSTEM_SELECTION_PREFERENCE
- MsgLength = 4
- QmiNasSetSystemSelectionPreference {
- QmiNasSetSystemSelectionPreferenceReqTlvs[0] {
- Type = 16
- Length = 1
- Emergency Mode {
- emergency_mode = false
- }
- }
- }
- }
- }
- }
- }
- }

How to disable segment loading on 8909.

- Support by build flavor is being investigated and verified.
- Temporary solution is as below:
- 1. ..\modem_proc\build\ms\cust8909.lwg.testq.h
#define FEATURE_LOAD_ALL_DEFAULT_CONFIG ///add
#define FEATURE_SEGMENT_LOADING_SUPPORT_LOAD_ALL_RATS ///add

#define MODEM_MEM_HEAP_SIZE 0x440000 ///change to 0x7C0000
- 2. Set the NV 72542 to 0
- 3. In modem_proc\config\8909.lwg.prod\cust_config.xml

From

```
<!-- 65 MB of physical pool-->  
<physical_pool name="DEFAULT_PHYSPOOL">  
<region base="0x88000000" size="0x4100000" />  
</physical_pool>
```

to

```
<!-- 73 MB of physical pool-->  
<physical_pool name="DEFAULT_PHYSPOOL">  
<region base="0x88000000" size="0x4900000" />  
</physical_pool>
```

▪

How to enable F3 logs on 8909.

- On 8909 lwg build, some module's F3 log in file cust8909.lwg.prodq.h is disabled. If customer want to enable those module's F3 log, please refer below steps.
- 1. modem_proc\build\ms\cust8909.lwg.prodq.h
- #if 0
- #define MSG_BUILD_MASK_MSG_SSID_CM 0
- #define MSG_BUILD_MASK_MSG_SSID_DSM 0
- #define MSG_BUILD_MASK_MSG_SSID_FTM 0
- #define MSG_BUILD_MASK_MSG_SSID_MMOC 0
- #define MSG_BUILD_MASK_MSG_SSID_RUIM 0
- #define MSG_BUILD_MASK_MSG_SSID_SD 0
- #define MSG_BUILD_MASK_MSG_SSID_TMC 0
- #define MSG_BUILD_MASK_MSG_SSID_WMS 0
- <skip>
- #define MSG_BUILD_MASK_MSG_SSID_APPS_IMS_UT 0
- #define MSG_BUILD_MASK_MSG_SSID_APPS_IMS_XML 0
- #define MSG_BUILD_MASK_MSG_SSID_TDSCDMA_RRC 0
- #endif
-
- 2. modem_proc\config\8909.lwg.prod\cust_config.xml
- ---> from
- <!-- 65 MB of physical pool-->
- <physical_pool name="DEFAULT_PHYSPOOL">
- <region base="0x88000000" size="0x4100000" />
- </physical_pool>
-
- ---> change to
- <!-- 67 MB of physical pool-->
- <physical_pool name="DEFAULT_PHYSPOOL">
- <region base="0x88000000" size="0x4300000" />
- </physical_pool>
-
- 3, Then clean and rebuild.

App note: EVDO RSSI Updating for Test Application Protocol

- App note: 80-P0166-1 A
- This doc will be available to customer in 2 weeks.
- This document describes the issue about not displaying EVDO RSSI when EVDO Test Application is running. This is the expected UE behavior and complies with 3GPP2 specification. If licensees still wants to display the EVDO signal in UI, they can implement it by changing their own code.
- This document is applicable to all Qualcomm chipsets which support CDMA 1x/EVDO, for example, MSM8926/MSM8916/MSM8939 chipset devices.

FR22013 Flexible cross mapping feature app note

- There are 2 app note for FR22013.
- 80-NA157-256_A_Cross_Mapping_Support_Overview
- 80-NR083-1_C

References

Ref.	Document	
Qualcomm Technologies		
Q1	Application Note: Software Glossary for Customers	CL93-V3077-1
Standards		
S1	Title	Standard Number (June 2002)
Resources		
R1		

Questions?

<https://support.cdmatech.com>

