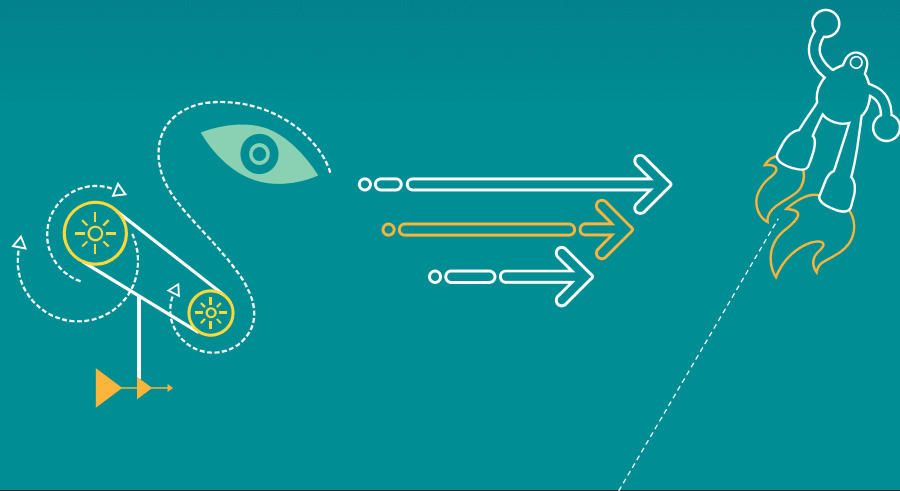

高通协议技术期刊 – 2015/04/20



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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
- Recent CSFB related issues
- How to build secondary boot image
- 手机在EVDO模式下不能上网
- Lesson Learn: OEM should never call other task's APIs in a task handler

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.

Recent CSFB related issues

- **Summary:**
- If G2L fast return is enabled by EFS g2l_blind_redir_after_csfb_control or W2L fast return is enabled by NV 67219. But UE still cannot return to LTE after call release in the following scenarios:
 - Camp on LTE;
 - L2W CSFB;
 - W2G CS HO;
 - End voice call in GSM;
 - No G2L Fast Return is triggered.
- or
- Camp on LTE;
- L2G CSFB;
- G2W CS HO;
- End voice call in WCDMA;
- No W2L Fast Return is triggered.
- **Solution:**
- 3CRs 609574/[639173](#)/709165 can solve above issue.

How to build secondary boot image

- Load secondary boot image is necessary for all the Tput test cases. This will be our recommendation for all the OEM. Compared with primary image, this image has minimum logging information which will be good for performance test.
- Customer can refer to 80-NH569-1 to find below instruction on secondary boot image loading.
- Compiling Secondary Boot image
 - For Qualcomm build: secondary boot image can be found under: LINUX\android\out\target\product\<corresponding_target>\secondary-boot
 - OEM needs to compile its own secondary boot image
- To load secondary boot image, use the below commands:
 - adb root
 - adb reboot bootloader
 - cd /path/to/secondary-boot/directory
 - fastboot flash boot boot.img
 - fastboot reboot

手机在EVDO模式下不能上网

- 1.问题：手机在EVDO模式下不能上网
-
- 2.原因：手机的ESN/MEID未设置
-
- 3. 解决：每一部手机都需要设置合法且唯一的ESN/MEID
-
- 4. Log样本:
 - **// 1. UE negotiate HDR session. UE report ESN/MEID = 0.**
 - OTA LOG 02:15:35.181 SCCHD/Address Mgmt/Hardware ID Request Channel: 78, Pilot PN: 274
 - OTA LOG 02:15:35.193 SACH/Address Mgmt/Hardware ID Response Channel: 78, Pilot PN: 274
 - hardware_id_type = 65536 (0x10000)
 - hardware_id_length = 4 (0x4)
 - hardware_id_value[0] = 0 (0x0) // all zero HardwareID, this is wrong
 - hardware_id_value[1] = 0 (0x0)
 - hardware_id_value[2] = 0 (0x0)
 - hardware_id_value[3] = 0 (0x0)
 - OTA LOG 02:15:40.357 SFTCH/Session Config/Soft Configuration Complete Channel: 78, Pilot PN: 274
 -
 - **// 2. After above session established, the network side quick close session. And restart a new round of HDR session negotiation.**
 - OTA LOG 02:15:41.597 SCCHD/Session Mgmt/Session Close Channel: 78, Pilot PN: 92
 -
 - ... // repeat such pattern throughout this log and data call setup failed all the time.

Lesson Learn: OEM should never call other task's APIs in a task handler

- Recently one issue is reported. The root cause is that QMI API is called in CallManager API.
- Lesson Learn:
- OEM should never call other task's APIs in a task handler, that would make the 2 tasks running concurrently, may bring some unpredictable abnormal result, or side effects.

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>

