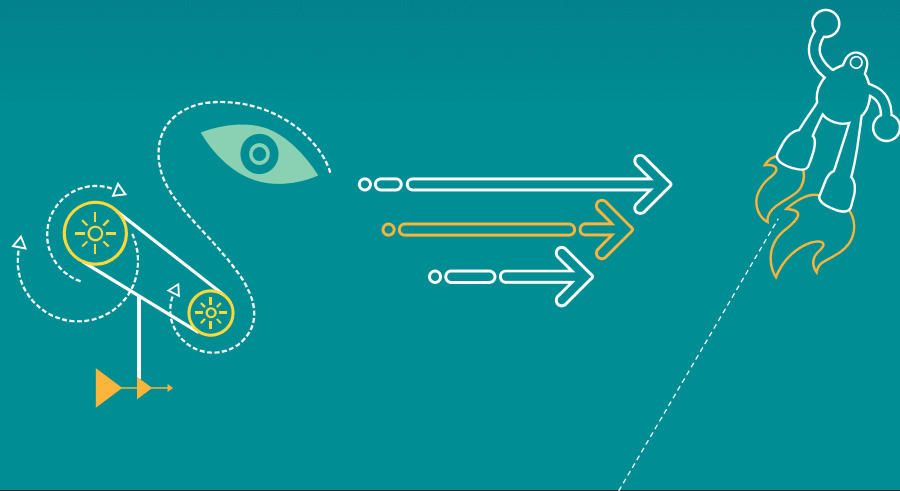

高通协议技术期刊 – 2015/02/12



Qualcomm Technologies, Inc.

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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	Feb 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 number
- CMCC PA New Policy and Qualcomm Pre-Cert support plan
- UE掉网问题分析指导书
- Withdrawal of EPC profile support on MSM8994, MSM8909 and MDM9x35 modems
- Voice call disconnecting issue while PS is on another SUB

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/5013000000VfUZ?srPos=0&srKp=501>
- 8939系统解决方案
- Solution Number: 00029333
- 链接：<https://qualcomm-cdmatech-support.my.salesforce.com/5013000000Vg5B>
- MDM9x30/9x35系统解决方案
- Solution Number 00029678
- <https://qualcomm-cdmatech-support.my.salesforce.com/5013000000ViGQ>

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。

CMCC PA New Policy

- **Background:**

Regular meeting with CMDc test group to exchange the info on PA test cases and process optimization, CMCC introduced their new policy for PA.

- **New strict strategy enforced by CMCC for PA processing:**

Terminate the official PA test if any of below 2 cases happen:

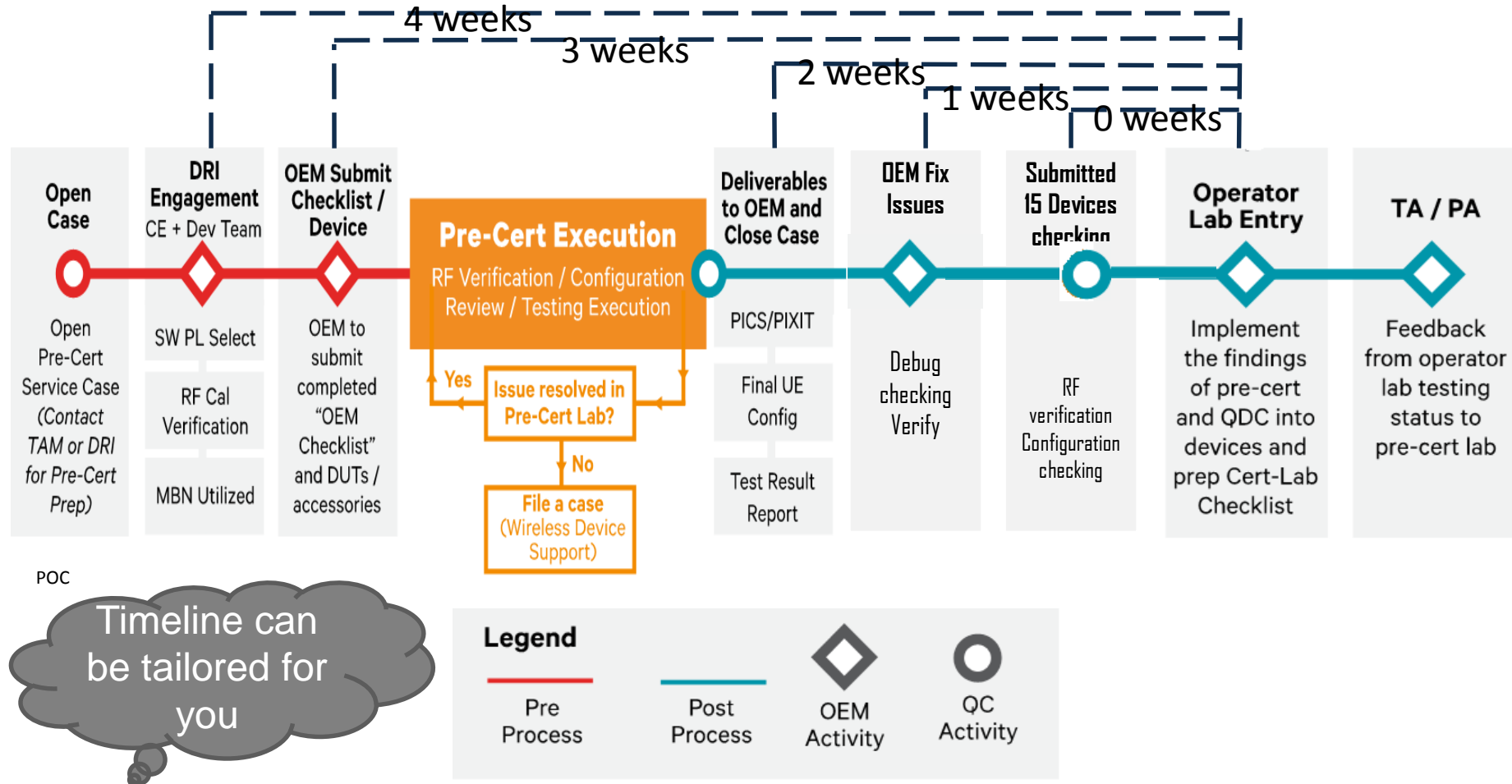
- ❖ CMCC only allows 15 issues claiming from self-test, and if additional 15 NEW KEY issues found during official PA, they will terminate the test and return the phone to vendor
- ❖ If find ≥ 5 issues from lab conformance test (protocol, RRM, RF, USIM, NS-IOT), they will terminate the test and return the phone to vendor

- **Recommendation by QC:**

Before CMCC lab entry:

- ❖ Strengthen the effort of pre-testing on both APSS and MPSS
 - Self-testing in your own lab
 - Pre-testing in 3rd party lab
- ❖ Come to QC lab for pre-certification testing
 - QC Beijing lab

Pre-certification Services Process



QC PoC for Pre-Certification

MPSS

RF / Modem Pre-Cert



Sophia Zhao

xizhao@qti.qualcomm.com



APSS

UI/UX Pre-Cert

Pre-Cert Hotline: +86-13911303769

Pre-Cert Email: ce.services@qti.qualcomm.com

Contact us through your assigned TAM or DRI

Visit us at <http://support.cdmatech.com>

About New CMCC PA Test Plan

▪ Highlight:

Major change is reflected in below 2 areas:

- ❖ Application and user experience test
 - Enforce MTBF test
 - Power consumption, the WeiChat will be added as one key application for power test
 - Add hardware Thermal test
- ❖ Radio communication test
 - LTE conformance
 - ✓ Delete: Duplicated cases/TTCN degradation cases/R8 only cases
 - ✓ Add: VoLTE, CA, mFBI, 3/4 G handover, Fake Node-B checking related cases
 - TD-SCDMA conformance
 - ✓ Reduce mandatory cases for PA testing
 - International roaming
 - ✓ Add international roaming cases during PA testing

UE掉网问题分析指导书

80-NV076-1EC UE掉网问题分析指导书 is published at D&D, it has English and Chinese version.

Main contents is as below.

- 1) LTE 掉网分析
- 2) WCDMA掉网分析
- 3) GSM 掉网分析
- 4) TDSCDMA 掉网分析
- 5) C2K 掉网分析
- 6) NAS 掉网分析
- 7) RF 掉网分析

Withdrawal of EPC profile support on MSM8994, MSM8909 and MDM9x35 modems

- On MSM8994, MSM8909 and MDM9x35 MPSS releases, as a part data profile refactoring, Qualcomm introduced new profile tech type called EPC. Due to the below mentioned limitations, Qualcomm is recommending that customers NOT use EPC profiles **effective immediately**.
- EPC profile is not fully supported by standard 3GPP AT commands. This may cause conformance issues during carrier/3rd party lab certification testing.
- Qualcomm testing has not completely verified and tested functional module such as IMS/UIM/GPS etc using EPC profiles.
- Also there is high chance that OEMs may mix the profile configuration between 3GPP/3GPP2/EPC which may uncover unexpected scenario and side-effects that are not covered by Qualcomm internal testing
- Please refer to application note **80-NV271-1_A** for details.
- Please also open a case to modem data if you have any concern or question on this matter.
- PA1 Modem Software
- PA2: LTE
- PA3: Modem Data (ATCOP/Call Ctrl/eMBMS/Soft AP/IPA/ePGD)

Voice call disconnecting issue while PS is on another SUB

- **[Issue description]**

- 1. PS is enabled on one SUB, then make a voice call on another SUB;
- 2. After a while, we see LPM/ONLINE requests from AP, which makes voice call disconnected.

-

- **[Reason]**

- 1. This is due to Android data stall alarm mechanism. This feature is designed by Google but not Qualcomm;
- 2. With this feature, ATEL checks PS Tx and Rx statistics periodically. Once it finds Tx number increasing but RX number not, Google thinks there is something wrong with modem, then it sets LPM then ONLINE;
- 3. In DSDS product, RF resource is occupied by voice SUB, thus there is not any DL data on PS SUB, this is why data stall alarm is triggered in this scenario;
- 4. So in theory, this bug exists in all the Android DSDS products.

-

- **[CR]**

- CR781407. Change is simple, we just need to check if there is voice call before triggering data stall alarm.

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>

