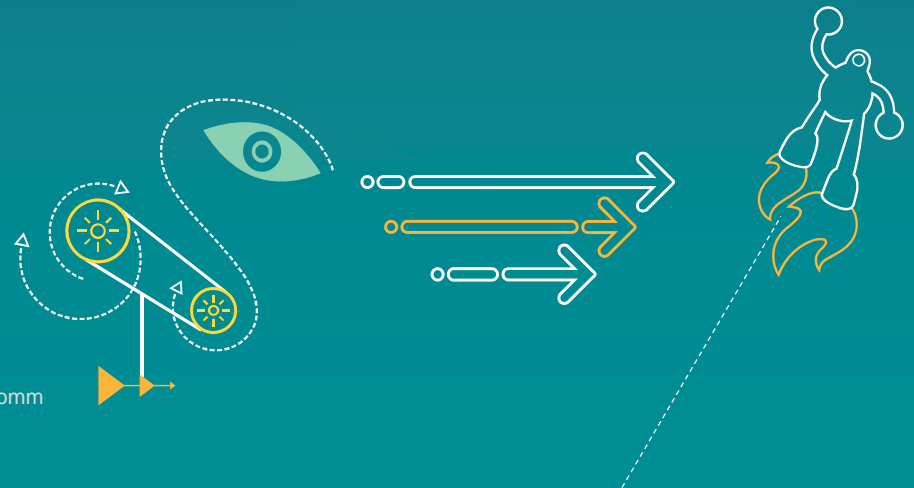

高通协议技术期刊 – 2014/11/10



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内容

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- MBN solution number
- CMCC测试用例5.1.1开机时延不达标
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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>

8936/8939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>

CMCC测试用例5.1.1开机时延不达标

问题：

客户用8926 Dime3.0 C7版本，执行CMCC测试用例时，发现如下测试用例不能通过，开机时延超过限定值。

CMCC用例编号5.1.1

预置条件：1.终端设置为自动选网模式；

2.TD-LTE、TD-SCDMA与GSM覆盖正常

测试步骤：

- 1.终端插入USIM卡开机，检查终端是否优选接入TD-LTE网络，记录开机至注册成功时延；
- 2.关机，将终端移动至仅有TD-SCDMA、GSM覆盖区域，开机，检查终端是否优选接入TD-SCDMA网络，记录开机至注册成功时延；
- 3.关机，将终端移动至仅有GSM覆盖区域，开机，检查终端是否成功接入GSM网络，记录开机至注册成功时延；
- 4.重复步骤1~3，共20次，记录终端开机附着成功次数.

预期结果：

- 1.步骤1：终端优选接入TD-LTE网络，开机至注册成功时延不超过40s；
- 2.步骤2：终端优选接入TD-SCDMA网络，开机至注册成功时延不超过50s；
- 3.步骤3：终端优选接入GSM网络，开机至注册成功时延不超过60s；
4. 以上终端开机附着成功率不低于100%

CMCC测试用例5.1.1开机时延不达标

问题分析：

FR20673用于开机时，利用上次搜索网络的历史数据，首先做acq db scan，以加速开机。这个feature并没有合入到Dime3.x的基线上。

解决方案：

客户申请FR20673 SBA，并且将 NV73502设置为14.

CMCC关于MTU的问题和答复

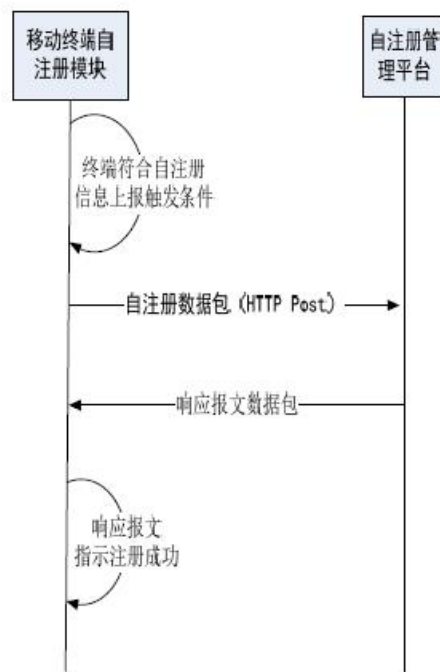
CMCC的项目，请参考如下问答来配置MTU。

	问题	答复
1	是否支持通过PCO的方式获取MTU	Yes, But only in case 3GPP release version 10 and above
2	通过PCO获取的MTU适用于何种协议栈（IPv4，IPv6，IPv4v6）	IPv4,IPv6,IPv4v6
3	是否支持通过RA消息获取MTU值	Yes
4	是否支持通过ICMP获取MTU值	No. PMTUD is not supported
5	现在针对IPV4和IPV6设置的MTU为多少	IPv6 -> 1280 bytes , IPv4 -> 1500 bytes
6	设置的IPv4和IPv6的MTU值是依据什么来的	For IPv6, IPv6 RFC spec2460 requires that every link in the internet have MTU of minimum 1280 bytes , we use that as default MTU size for IPv6 For IPv4, we consider most common case - MTU for Ethernet is 1500 bytes
7	终端内设置值如果和与网络交互获取值有冲突，如何处理	NW assigned MTU override UE configured MTU.
8	如果与网络交互的MTU值有冲突，如何处理，哪个值作为最终使用值	See 7
9	是否针对APN设置不同的MTU值	NO
10	如果接收到网络侧下发的大于预设或协商的MTU值的IP包，是否可正常处理	Yes, the packet will be processed as long as it is not larger than the maximum MTU supported by the system
11	终端收到网络侧下发的MTU值后，会一直使用还是会有更新，如果更新，更新条件是什么	Unless MTU size is updated by NW, UE will not update MTU size
12	针对MTU值还有什么需要网络侧与终端侧配合的问题	NO at this point

以下是中国电信移动终端需求白皮书- 自注册功能分册，关于自注册功能的要求。

6 自注册功能

终端自注册功能是指终端与用户卡配对关系发生改变时，主动向自注册管理平台上报终端和用户卡基本信息的过程。移动终端利用分组数据域通道（Http Post Json方式）向自注册管理平台发送自注册数据包实现自注册功能的需求。



解决方案：

客户需要申请CR727873(FR21581)解决该问题。

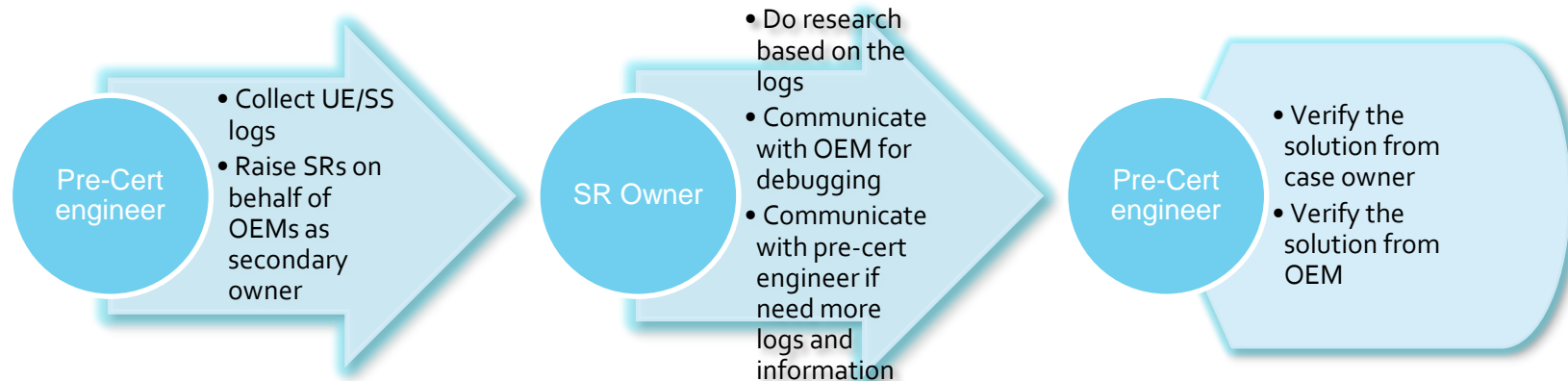
FR21581:CT 3G/4G: Packet data connection instead of SMS during auto registration

Conformance Issue Work Flow

- **Purpose:**
- **Conformance issue support process is defined. When customer meet below 5 conformance issues, customer can refer to the respective work flow to raise and solve issues.**
- **Reported Issue Source:**
 - 1) QC Pre-Cert Lab
 - 2) QDC Lab
 - 3) Carrier PA Lab
 - 4) 3rd Party Test House
 - 5) OEM Own Lab
- **Debug Resource:**
 - 1) QC Conformance Lab
 - 2) QC Pre-Cert Lab

QC Pre-Cert Lab Issues

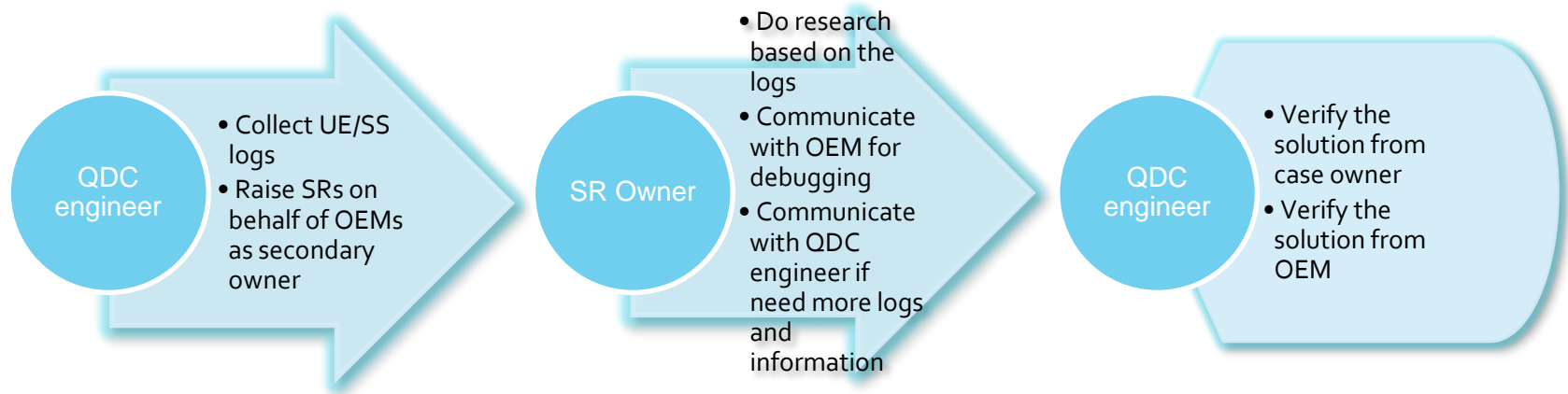
For the issues found in Pre-Cert lab, our engineer will raise the SRs with necessary UE/SS logs on behalf of OEMs. And take the SRs as secondary owner. Case owner should check the logs and provide the suggestion to OEMs. If case owner need more logs and information, they can contact with our pre-cert engineer for retesting. Also once the solution is there, pre-cert engineer will verify and feedback the result.



Pre-Cert Lab PoC: Zheng Chenguang(zhengc@qti.qualcomm.com)

QDC Lab Issues

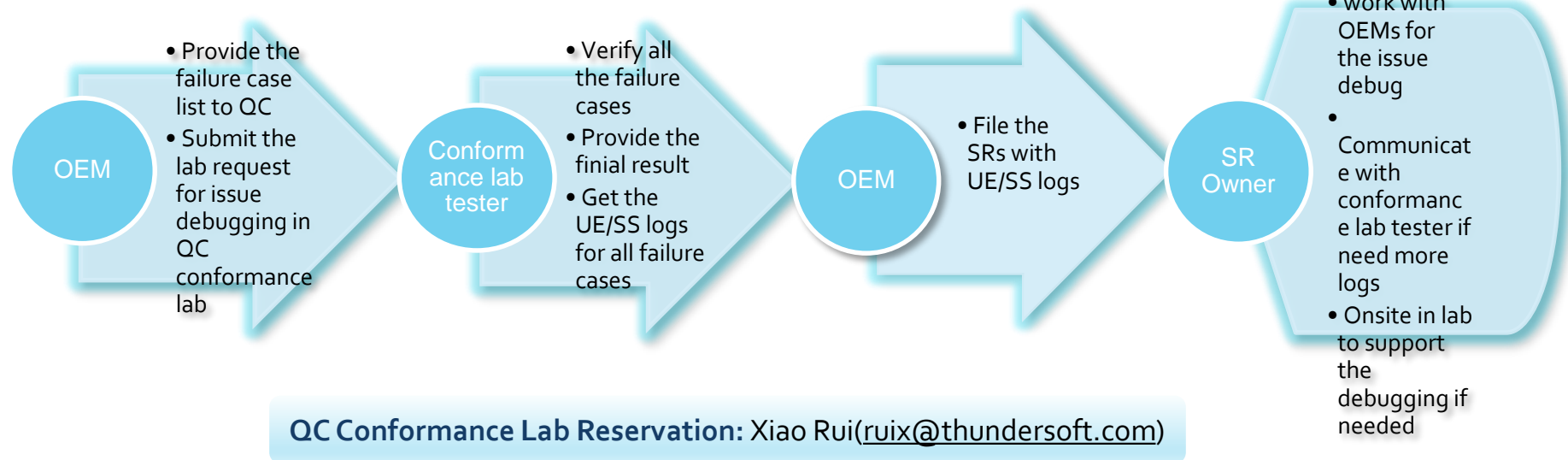
For the issues found in QDC lab, QDC engineer will raise the SRs with necessary UE/SS logs on behalf of OEMs. Case owner should check the logs and provide the suggestion to OEMs. If case owner needs more logs and information, they can contact with QDC engineer for retesting. Also once the solution is there, QDC engineer will verify and feedback the result.



QDC Lab PoC: Zhang Jingtao(jingtaoz@qti.qualcomm.com)

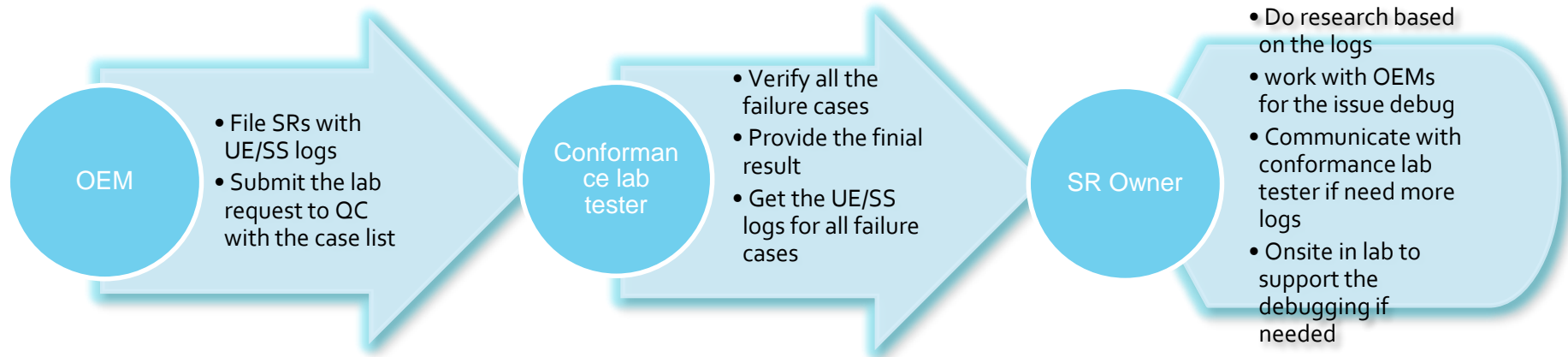
Carrier PA Lab Issues

For the issues found during Carrier PA testing, OEMs need provide the failure case list to QC. If have UE logs already, please raise SRs for QC checking. OEMs can also reserve our QC conformance lab for debugging. For the cases passed in our conformance lab, OEMs can go to carrier PA lab and retest. But for the cases failed in our conformance lab, UE/SS logs will be provided to OEMs by QC test engineer, then OEMs can raise SRs and work with SR owner to solve the issue. Once issue fixed, OEMs can come back to QC conformance lab and verify the fix.



3rd Party Test House/OEM Own Lab Issues

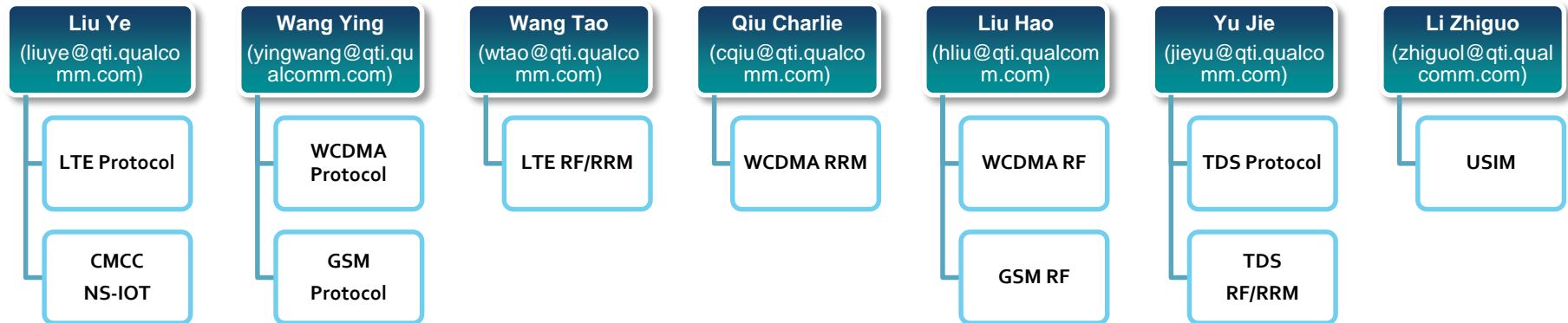
For the issues found during 3rd party test house or OEM own lab, OEMs can file SRs with both UE and SS logs for issue debugging. OEMs can reserve our QC conformance lab for debugging with debugging case list



QC Conformance Lab Reservation: Xiao Rui(ruix@thundersoft.com)

PoC for Issue Debugging

Once OEM has failures and need do debugging test in our conformance lab, they can get the help from below PoC for each of tech area. SD cases owner can also contact with below PoCs for issue debugging in our conformance lab



Questions?

You may also submit questions to:

<https://support.cdmatech.com>

