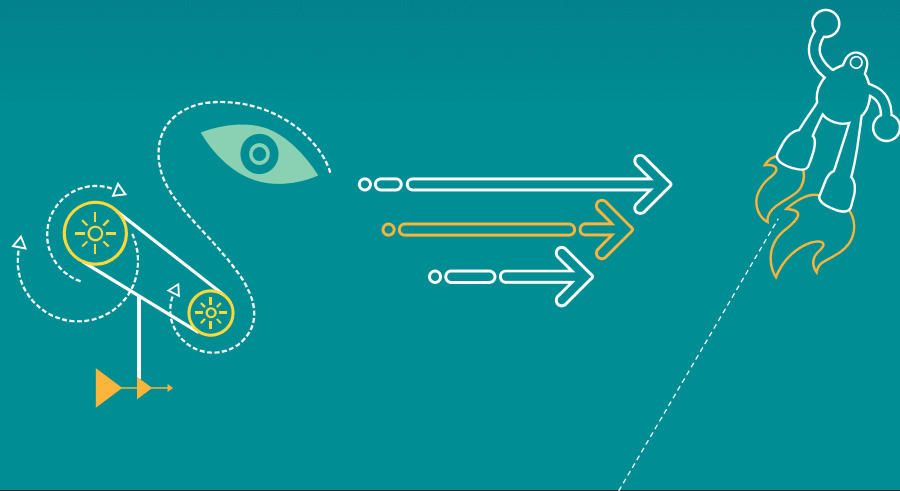

高通协议技术期刊 – 2015/09/29



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Revision History

Revision	Date	Description
A	Sep 2015	Initial release

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

Contents

- ❑ How to enable CU LTE international roaming feature in policy file
- ❑ MBN Document Summary
- ❑ 中国移动TD定制终端产品白皮书（2015版）》中VoLTE、载波聚合（CA）技术要求更新
- ❑ How to get speech codec information in AP side?
- ❑ AT+CSQ return value related to TDS

How to enable CU LTE international roaming feature in policy file

Issue:

Recently, some customer find CU international roaming is not supported in latest MSM8929 software release policy file.

Solution:

([CR/787340](#)) enabled LTE roaming for CU. This CR fix not present on some MSM8929 Product Line. Please apply for SBA if your software meet this issue.

MBN Document Summary

- MODEM SOFTWARE CONFIGURATION OVERVIEW (80-N5576-96)
- MODEM SOFTWARE CONFIGURATION OVERVIEW (80-N5576-96SC)
- UPDATING MODEM CONFIGURATIONS IN FACTORY AND OTA (80-NV514-1)
- UPDATING MODEM CONFIGURATIONS IN FACTORY AND OTA (SIMPLIFIED CHINESE) (80-NV514-1SC)
- CONFIGURING A UE USING MODEM BINARY CONFIGURATION (80-NP686-1)
- CONFIGURING A UE USING MODEM CONFIGURATION FILES (80-NP686-1SC)

MBN Document Summary

- APPLICATION NOTE: CMCC DEVICE CONFIGURATION AND TESTING INFORMATION (80-NP425-1)
- APPLICATION NOTE: CMCC DEVICE CONFIGURATION AND TESTING INFORMATION (SIMPLIFIED CHINESE) (80-NP425-1SC)
- APPLICATION NOTE: CHINA TELECOM DEVICE CONFIGURATION AND TESTING INFORMATION (80-NR766-1)
- APPLICATION NOTE: CHINA TELECOM DEVICE CONFIGURATION AND TESTING INFORMATION (SIMPLIFIED CHINESE) (80-NR766- 1SC)
- CTA CERTIFICATION PROCESS (80-NV533-1)
- CROSS/FLEXI MAPPING SUPPORT OVERVIEW (80-NA157-256)

中国移动TD定制终端产品白皮书（2015版）》中VoLTE、载波聚合（CA）技术要求更新

- CMCC VoLTE:
 - 2015 年 10 月 31 日起，首轮送测 A\B 库 1500 元以上 LTE 智能机必选支持 VoLTE 功能。1500元以上非VoLTE功能 LTE 手机，须在 2015年 12 月 31 日前完成入库。
- CMCC CA(2xCA):
 - 自 2015 年 12 月 31 日起首轮送测 2000 元以上 LTE 智能机必选支持 LTE-A 特性中的下行载波聚合功能。
 - 2000-3000 元产品必选支持频段内下行载波聚合。3000 元以上产品必选支持频段内及频段间下行载波聚合。

How to get speech codec information in AP side?

- Question: How to get speech codec information in AP side?
- Answer:
- China Unicom is asking customers to distinguish that current voice call is using AMR-WB or not, and show it on UI.
Therefore, customers need to retrieve current speech codec information within AP.
We can get it in below RIL code:
`// qcril_qmi_voice_speech_codec_info_ind_hdlr()`
- `if(speech_codec_ptr->speech_codec_valid)`
- `{`
- `qcril_qmi_voice_speech_codec_info.speech_codec =`
`speech_codec_ptr->speech_codec;`
- `}`

Solution 00031130 is filed for this will be available soon.

AT+CSQ return value related to TDS

For all cmd related to TDS, pls refer to AT cmd spec from CMCC(This is primary), instead of 27.007(this is not primary). This is a must requirement in China.

CMCC spec:

RSSI查询功能命令+CSQ

语法结构

Command	Possible response(s)
+CSQ	<CR><LF>+CSQ: <rss>, <ber><CR><LF><CR><LF>OK<CR><LF> 有MS相关错误时： <CR><LF>+CME ERROR: <err><CR><LF>
+CSQ=?	<CR><LF>+CSQ: (list of supported <rss>),(list of supported <ber>) <CR><LF><CR><LF>OK<CR><LF>

接口描述

- Execution命令+CSQ返回ME的RSSI和BER。
- Test命令+CSQ=?返回支持的RSSI和BER值。

AT+CSQ return value related to TDS

取值说明

<rsssi> : GSM或UTRAN小区信号强度

0	等于或小于-113dBm
1	-111 dBm
2...30	-109...-53dBm
31	等于或大于-51dBm
99	未知或不可测
100	等于或小于-116dBm
101	-115dBm
102...191	-114...-26dBm
191	等于或大于-25dBm
199	未知或不可测
100...199	被扩展用于TDSCDMA下表示接收信号功率(RSCP)

<ber> (比特误码率百分比) :

若不支持BER查询, 在Execution命令和Test命令均返回99

AT+CSQ return value related to TDS

CMCC Spec 27.007

8.5 Signal quality +CSQ

Table 64: +CSQ action command syntax

Command	Possible response(s)
+CSQ	+CSQ: <rsssi>,<ber> +CME ERROR: <err>
+CSQ=?	+CSQ: (list of supported <rsssi>s),(list of supported <ber>s)

AT+CSQ return value related to TDS

- **Description**
- Execution command returns received signal strength indication <rssi> and channel bit error rate <ber> from the MT. Refer subclause 9.2 for possible <err> values.
- Test command returns values supported as compound values.
- **Defined values**
- <rssi>: integer type
 - 0 -113 dBm or less
 - 1 -111 dBm
 - 2...30 -109... -53 dBm
 - 31 -51 dBm or greater
 - 99 not known or not detectable
- <ber>: integer type; channel bit error rate (in percent)
 - 0...7 as RXQUAL values in the table in 3GPP TS 45.008 [20] subclause 8.2.4
 - 99 not known or not detectable
- **Implementation**
- Optional.

Questions?

<https://support.cdmatech.com>

