

B5G\_UE - 错误 #5361

基于T07\_Alpha25版本, 外场UU口测试, 当距离超过200米时, 发生基站高概率未解对msg3

2026-06-03 08:59 - 李常

状态:	转测试	开始日期:	2026-06-03
优先级:	高	计划完成日期:	
指派给:	周磊	% 完成:	100%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
描述:			

历史记录

#1 - 2026-06-03 18:16 - 王金伏

- 文件 20260603-181512.jpg 已添加
- 文件 20260603-181520.jpg 已添加
- 文件 20260603-181528.jpg 已添加
- 状态从 新建 变更为 进行中

【问题描述】基于T07\_Alpha25版本, 外场UU口测试, 当距离200米时, 发生基站高概率80%未解对msg3

【问题原因】在外场验证, 测试10次, msg3全部成功, 不复现msg3失败问题, 可能是换了物理层小版本修复了问题。180m处验证2次, 2次pdu建立成功, 191m处, 验证8次, msg3全部成功 (rsrp-87到90左右, snr10dB左右), 8次全部失败在msg4的psdch。msg4 psdch crc err, sinr较低, 只有6-8左右。mcs=5。和之前相比, 基站版本相同, 终端用的是A25版本+#5301小版本 (之前msg3失败终端用的A25大版本), 更换了基站和终端硬件设备。

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l.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17056] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[1] txCntr[0] rv[0]
3G] [CORE-4]RgLiTmDatInd: RGSCH_CCGH_SDU_PRNT: SFN-Slot[173 2]
3G] [CORE-4]rgTOMProcCCCHSduInDatInd:CELLID[1] CCCH SDU received through tmpCntrti[17056] timeInfo[173 2]
3G] [CORE-4]rgTOMUtilProcMsg:MSG3 received as CCCH SDU,ucid[17056] lcId[52]
303] [DBG] [CORE-4]rgSCHRamProcMsg3: msg3 rcv!!! cellid[1] ueid[0] ueOld[0x0] raState[1] curTime[173:4]
308] [DBG] [CORE-4]rgSCHRamProcMsg3 RGSCH_RA_MSG3_PENDING: MSG3 RECEIVED is CCCH SDU!!! cellid[1] ueid[0] raState[1] curTime[173:4]
200] [DBG] [CORE-4]rgSCHRamContResCchSdu RGSCH_RA_MSG4_PENDING cellId[1] ueid[17056] raState[1] reestState[0] Msg4TestMode[1] curTime[173:4]
741] [DBG] [CORE-4]rgSCHRamRaReqGetSsbId Found SSB Id[0] beamId[0],cellId[1] sfn[173] slot[9] startSymIdx[0] freqIdx[0] idx[0] startPrmbl[0] numPrmbl[4]
343] [ERR] [CORE-4]rgSCHRamProcRaReq cellId(1) Ue is not found for Ded preamble ID = 40
l.c:2145] [ERR] [CORE-4]rgSCHTomRaReqInd(): RAPID:40 RAM processing failed errType(6) errCause(39022) cellId(1) curTime[174:1]
741] [DBG] [CORE-4]rgSCHRamRaReqGetSsbId Found SSB Id[0] beamId[0],cellId[1] sfn[173] slot[9] startSymIdx[0] freqIdx[0] idx[0] startPrmbl[0] numPrmbl[4]
343] [ERR] [CORE-4]rgSCHRamProcRaReq cellId(1) Ue is not found for Ded preamble ID = 28
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图 7302 次
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17059] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[147 3] pusCh[147 2] pdccch[0 0] ta[19] sinr[-12] rsrp[-110]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17050] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[155 3] pusCh[155 2] pdccch[0 0] ta[20] sinr[-17] rsrp[-113]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17051] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[169 3] pusCh[169 2] pdccch[0 0] ta[29] sinr[-12] rsrp[-88]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17052] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[169 3] pusCh[169 2] pdccch[0 0] ta[25] sinr[-15] rsrp[-90]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17053] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[170 3] pusCh[170 2] pdccch[0 0] ta[29] sinr[-12] rsrp[-88]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17054] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[171 3] pusCh[171 2] pdccch[0 0] ta[29] sinr[-12] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17055] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[172 3] pusCh[172 2] pdccch[0 0] ta[29] sinr[-12] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17056] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[1] txCntr[0] rv[0] cntTime[173 3] pusCh[173 2] pdccch[0 0] ta[32] sinr[9] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17057] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[1] txCntr[0] rv[0] cntTime[181 3] pusCh[181 2] pdccch[0 0] ta[35] sinr[11] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17058] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[1] txCntr[0] rv[0] cntTime[189 3] pusCh[189 2] pdccch[0 0] ta[32] sinr[10] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17059] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[190 3] pusCh[190 2] pdccch[0 0] ta[22] sinr[-19] rsrp[-110]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17060] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[197 3] pusCh[197 2] pdccch[0 0] ta[29] sinr[-12] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17061] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[1] txCntr[0] rv[0] cntTime[198 3] pusCh[198 2] pdccch[0 0] ta[35] sinr[10] rsrp[-87]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17068] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[203 3] pusCh[203 2] pdccch[0 0] ta[22] sinr[-10] rsrp[-108]
l_com_lv11.c:324] [DBG] [CORE-4]rgSCHLvl1TomCrcInd msg3 rcvd: rnti[17069] raState[1] harqId[0] iMcs[8] rbStart[4] rbNum[4] tbSize[63] ucAckNack[0] txCntr[0] rv[0] cntTime[204 3] pusCh[204 2] pdccch[0 0] ta[42] sinr[-12] rsrp[-109]
74] [INFO]set TA : ta:3, 96 96 according RAR BIT11, sfn:172, slot:13
75 [INFO]rar sfn:172,curSlot:13, dci:10,k2:9,delta:3
76 [INFO]msg3:RNTI:17056, bwpSize:273, mcs:8
77 [ERR][Llc Trigger pusCh] sfn=173, slot=1, src_core=4, src_apeid=4, dst_apeid=4
78 [INFO]send Msg3 sin:1/3, slot:1
79 [ERR]corest0CfIdx 10
80 [INFO]change state to Msg4 slot 3
81 [INFO]prachCfIdx:7,fdm:2, state:20
82 [INFO]prach scs:0, prachOcc:2, slot:1
83 [INFO]numPrach :1
84 [INFO]numPrach :2
85 [INFO]get Prach Occ: 0,9,0,0,0
86 [INFO]RA-RNTI[127] startSymbol[0] prachSlotIdx[9] freqResIdx[0]
87 [ERR][Llc Send Trigger Prach Msg] sfn=173, slot=17, src_core=4, src_apeid=4, dst_apeid=4, longcode:0
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搜索结果 - (匹配 8 次)
搜索 "msg3:RNTI:" (1 个文件中匹配到 8 次, 总计查找 1 个文件) [普通]
D:\060301\1718\b5gquephy_logs\4-0-str.log (匹配 8 次)
行 76: [INFO]msg3:RNTI:17056, bwpSize:273, mcs:8
行 103: [INFO]msg3:RNTI:17057, bwpSize:273, mcs:8
行 130: [INFO]msg3:RNTI:17058, bwpSize:273, mcs:8
行 169: [INFO]msg3:RNTI:17061, bwpSize:273, mcs:8
行 244: [INFO]msg3:RNTI:17068, bwpSize:273, mcs:8
行 271: [INFO]msg3:RNTI:17069, bwpSize:273, mcs:8
行 370: [INFO]msg3:RNTI:17078, bwpSize:273, mcs:8
行 409: [INFO]msg3:RNTI:17096, bwpSize:273, mcs:8
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02 [INFO]rar_sfn:180,curSlot:13,dcI:10,k2:9,delta:3
03 [INFO]msg3:RNTI:17057,bwpSize:273,mcS:8
04 [ERR][L1c Trigger pusCh] sfn=181, slot=1, src_core=4, src_apeid=4, dst_apeid=4
05 [INFO]send Msg3 sfn:181, slot:1
06 [ERR]corest0CfIdx 10
07 [INFO]change state to Msg4 slot 3
08 [INFO]prachCfIdx:7,fdm:2, state:20
09 [INFO]prach scs:0, prachOcc:2, slot:1
10 [INFO]numPrach :1
11 [INFO]numPrach :2
12 [INFO]get Prach Occ: 0,9,0,0,0,0
13 [INFO] RA-RNTI[127] startSymbol[0] prachSlotIdx[9] freqResIdx[0]
14 [ERR][L1c Send_Trigger_prach_Msg] sfn=187, slot=17, src_core=4, src_apeid=4, dst_apeid=4, longcode:0
15 [INFO]trigger prach slot[17],prach Format:0

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【解决方案】可以换下A25的终端版本，去掉#5301小版本，验证是不是小版本解决了之前的MSG3 200m失败问题

【问题验证】

#2 - 2026-06-03 18:17 - 王金伏

- %完成 从 0 变更为 40

#3 - 2026-06-05 17:06 - 王金伏

- 文件 20260605-170600.jpg 已添加

- 状态 从 进行中 变更为 审视

- %完成 从 40 变更为 100

【问题验证】在外场使用#5301的小版本，msg3在200m处失败的问题不再复现。msg3失败应该是#5301中的问题。



#4 - 2026-06-05 17:10 - 王金伏

- 指派给 从 王金伏 变更为 朱荣涛

#5 - 2026-06-05 17:17 - 朱荣涛

- 状态 从 审视 变更为 转测试

- 指派给 从 朱荣涛 变更为 周磊

基于T07\_Alpha25版本，出修改RF Buffer到 SM 的小包，测试没再出现MSG3的问题。

文件

20260603-181512.jpg	1.01 MB	2026-06-03	王金伏
20260603-181520.jpg	282 KB	2026-06-03	王金伏
20260603-181528.jpg	186 KB	2026-06-03	王金伏
20260605-170600.jpg	163 KB	2026-06-05	王金伏