

3.0基站产品测试 - 错误 #3127

mate30与vivo手机都是一直上报A3事件但不触发切换 (pre1T2版本)

2025-04-10 17:20 - 孙浩

状态:	已关闭	开始日期:	2025-04-10
优先级:	普通	计划完成日期:	
指派给:	孙浩	% 完成:	0%
类别:		预期时间:	0.00 小时
目标版本:		耗时:	0.00 小时
问题归属:	CU, DU	目标解决问题版本:	Rel_3.0.1
发现问题版本:	Rel_3.0.1		

描述

【问题描述】Rel_3.0.1_Pre1T2版本，mate30手机一直上报A3事件但不触发同频xn切换；
 【测试环境】核心网版本：Rel_3.3.3_pre3，基站版本：Rel_3.0.1_Pre1T2版本，手机：mate30手机与vivo手机；
 【问题分析】mate30手机一直上报A3事件，但是没切换流程，出现UEContextModificationRequired失步消息后终端掉线，cu已确认是问题，因为核心网合入新问题需要基站ducu同步合入问题才行；

246-1646.pcap

文件(F) 编辑(E) 视图(V) 跳转(G) 捕获(C) 分析(A) 统计(S) 电话(Y) 无线(W) 工具(T) 帮助(H)

flap || ngap || sdap || nr-rrc || xnapp

No.	Time	Source	Source port	Destination	Destination	Protocol	C-RNTI	Info	DU-UE	CU-UE	UE-NGAP	measId
1265	00:48:45.021872	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x23149a77	47	47		2
1269	00:48:45.796888	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x67b07e3c	42	42		2
1271	00:48:46.021876	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0xe7792867	47	47		3
1276	00:48:46.041848	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x401540be	47	47		2
1284	00:48:46.816867	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x16f0b774	42	42		2
1288	00:48:47.836862	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0xe3780abf	42	42		2
1292	00:48:48.856869	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x7751a949	42	42		2
1294	00:48:49.545740	192.168.62.246	38473	192.168.62.246	38472	FIAP		UEContextModificationRequired	47	47		
1295	00:48:49.546006	192.168.62.246	38472	192.168.62.246	38473	FIAP		UEContextModificationConfirm	47	47		
1296	00:48:49.546093	192.168.62.246	38412	192.168.62.10	38412	NGAP		UEContextReleaseRequest				
1297	00:48:49.549484	192.168.62.10	38412	192.168.62.246	38412	NGAP		UEContextReleaseCommand			47	
1298	00:48:49.550758	192.168.62.246	38472	192.168.62.246	38473	FIAP/NL		DLRRMessageTransfer, RRC Release MAC=0x87c5a282	47	47		
1300	00:48:49.550830	192.168.62.246	38472	192.168.62.246	38473	FIAP		UEContextReleaseCommand	47	47		
1301	00:48:49.550887	192.168.62.246	38473	192.168.62.246	38472	FIAP		UEContextReleaseComplete	47	47		
1302	00:48:49.558024	192.168.62.246	38412	192.168.62.10	38412	NGAP		UEContextReleaseComplete			47	
1305	00:48:49.876860	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0xe02d2c2c	42	42		2
1311	00:48:50.896861	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x1cc56876	42	42		2
1317	00:48:51.916852	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, Measurement Report MAC=0x081b9d3e	42	42		2
1325	00:48:52.728129	192.168.62.10	38412	192.168.62.246	38412	NGAP/NL		PDUSessionResourceModifyRequest, DL NAS transport, PDU session mod..			42	
1326	00:48:52.729079	192.168.62.246	38472	192.168.62.246	38473	FIAP		UEContextModificationRequest	42	42		
1327	00:48:52.731471	192.168.62.246	38473	192.168.62.246	38472	FIAP		UEContextModificationResponse	42	42		
1328	00:48:52.732037	192.168.62.246	38472	192.168.62.246	38473	FIAP/NL		DLRRMessageTransfer, RRC Reconfiguration, DL NAS transport, PDU s...	42	42		
1329	00:48:52.756871	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, UL Information Transfer, UL NAS transport, P...	42	42		
1330	00:48:52.756914	192.168.62.246	38473	192.168.62.246	38472	FIAP/NL		ULRRMessageTransfer, RRC Reconfiguration Complete MAC=0x662d762c	42	42		
1332	00:48:52.757336	192.168.62.246	38412	192.168.62.10	38412	NGAP/NL		UplinkNASTransport, UL NAS transport, PDU session modification com..			42	
1333	00:48:52.763866	192.168.62.246	38412	192.168.62.10	38412	NGAP		PDUSessionResourceModifyResponse			42	

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measId: 3
  measResultServingMOList: 1 item
    Item 0
      MeasResultServMO
        servCellId: 0
          measResultServingCell
            physCellId: 246
              measResult
                cellResults
                  resultsSSB-Cell
                    rsrp: -76dBm <= SS-RSRP < -75dBm (81)
                    rsrq: -26.5dB <= SS-RSRQ < -26.0dB (34)
          measResultMeighCells: measResultListNR (0)
            measResultListNR: 1 item
              Item 0
                MeasResultNR
                  physCellId: 247
                    measResult
                      cellResults
                        resultsSSB-Cell
                          rsrp: -70dBm <= SS-RSRP < -69dBm (87)
  
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0000 00 00 03 04 :
 0010 45 02 00 60 :
 0020 c0 a8 3e f6 :
 0030 00 03 00 3f :
 0040 00 0d 40 2b :
 0050 02 00 2f 00 :
 0060 42 00 04 f6 :

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gnb_cu_20250401T235032_20250410161159_yrb.log
170266 [170285] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:172] [TRC]PDCP_RX_SRB_HEADER_PROCESSED:PDCP_C_OPAQUE_USER_ID:47:PDCP_SRB_ID:1:PDCP_C_RX_SN:31
170267 [170286] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:52] [TRC]PDCP_RX_SRB_DATA_PROCESSING_START:PDCP_C_OPAQUE_USER_ID:47:PDCP_SRB_ID:1:PDCP_C_RX_SN:31
170268 [170287] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:61] [TRC]SRB_DATA_REQ_INFO:PDCP_SRB_ID:1:PDCP_C_RX_SN:31:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170269 [170288] [2025-04-10T16:48:35.769] [APP] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:327] [TRC]send_smc_status:1
170270 [170289] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:397] [TRC]PDCP_SRB_SDU_ADDED_TO_RECEPTION_BUFFER:PDCP_SRB_ID:1:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170271 [170290] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:407] [TRC]UPDATED_RX_SRB_NEXT:PDCP_SRB_ID:1:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170272 [170291] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:422] [TRC]PDCP_RX_SRB_SDU_WITH_RX_DELIV_COUNT:PDCP_SRB_ID:1:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170273 [170292] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:291] [TRC]PDCP_SRB_SDU_REMOVED_FROM_RECEPTION_BUFFER:PDCP_SRB_ID:1:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170274 [170293] [2025-04-10T16:48:35.769] [PDCP_C_RX] [t:1581175216] [pdcp_c_rx_srb_pdu_proc.cxx:426] [TRC]UPDATED_RX_SRB_DELIV:PDCP_SRB_ID:1:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0:PDCP_C_RX_SRB_HFN:0
170275 [170294] [2025-04-10T16:48:35.769] [APP] [t:1581175216] [ue_cntrl_thread.cpp:1008] [TRC]PDCP_SRB_DATA_RX_REQ_PROCESSED:INT_MSG_RX_TS_CYCLE:117161297317:SRC_UE_CONN_MGR:4:DST_PDCP_C:24:
170276 [170295] [2025-04-10T16:48:35.769] [APP] [t:1581175216] [ue_cntrl_thread.cpp:652] [INF]PDCP_SRB_DATA_RX_RSP:INT_MSG_RX_TS_CYCLE:117161297446:SRC_PDCP_C:23:DST_UE_CONN_MGR:4:APP_GNB_UE_ID:47
170277 [170296] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_msg_hdr.cpp:799] [TRC]RECEIVED_AND_PROCESSING_PDCP_SRB_DATA_RX_RSP
170278 [170297] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_msg_hdr.cpp:994] [INF]FLW_DU_2_UE_CONN_MGR_3_UU_RRC_MEASUREMENT_REPORT:UE_CONN_MGR_GNB_UE_ID:47
170279 [170298] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_trans_mgr.cpp:75] [TRC]ADD_trans! trans_id:1 trans_type:11 UE ID:47
170280 [170299] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_trans_mgr.cpp:848] [TRC]CREATING UE_TRANS_RRC_MEASUREMENT_REPORT:UE_CONN_MGR_TRANS_ID:1
170281 [170300] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_trans_mgr.cpp:1154] [TRC]HANDLING UE_CONN_RRC_MEASUREMENT_REPORT_EVENT:UE_CONN_MGR_GNB_UE_ID:47:UE_CONN_MGR_TRANS_ID:1
170282 [170301] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_fsm.h:927] [INF]UE_CONN_STATE_SWITCH:UE_CONN_STATE:11
170283 [170302] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_meas_report.cpp:178] [TRC]PROCESSING_RRC_MEASUREMENT_REPORT_EVENT:UE_CONN_MGR_GNB_UE_ID:47
170284 [170303] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_meas_report.cpp:197] [TRC]meas_id:3,num_serving_cell:1,num_releg_cell:1,rsp:76,rsrq:64,sinr:0
170285 [170304] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_meas_report.cpp:204] [TRC]neigh[0],pci:247,rsrp:71,rsrq:0,sinr:0
170286 [170305] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_conn_pdu_session_resource_setup.cpp:2549] [TRC]GET_NEIGH_INFO,size:1
170287 [170306] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_rm_msg_builder.cpp:1116] [TRC]BUILD_SEND_PERIOD_RPT_DATA_TO_AGENT,ue_id:2,meas_id:2
170288 [170307] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_rm_msg_builder.cpp:1312] [TRC]IS_PERIOD_MEAS_RPT,meas_id:3,type:3
170289 [170308] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_cntrl_mgr.cpp:77] [TRC]IS_PERIOD_MEAS_RPT,meas_id:3,type:3
170290 [170309] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_rm_msg_builder.cpp:1312] [TRC]BUILD_AND_SEND_RM_UE_CONN_MEAS_REPORT_IND,ue_id:47,target_pci:65835
170291 [170310] [2025-04-10T16:48:35.769] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_trans_mgr.cpp:111] [TRC]DELETING_TRANS:UE_CONN_MGR_TRANS_ID:1:UE_CONN_GNB_UE_ID:47
170292 [170311] [2025-04-10T16:48:35.769] [APP] [t:1581175216] [ue_cntrl_thread.cpp:663] [TRC]PDCP_SRB_DATA_RX_RSP_PROCESSED:INT_MSG_RX_TS_CYCLE:117161302139:SRC_PDCP_C:23:DST_UE_CONN_MGR:4:
170293 [170312] [2025-04-10T16:48:35.770] [APP] [t:1559151024] [rm_thread.cpp:1251] [INF]MSG_UE_CONN_MGR_2_RM_3_RM_UE_CONN_MEAS_REPORT_IND:INT_MSG_RX_TS_CYCLE:117161318530:SRC_UE_CONN_MGR:4:DST_UE_CONN_MGR:4:
170294 [170313] [2025-04-10T16:48:35.770] [RM] [t:1559151024] [rm_msg_hdr.cpp:2338] [WRN]UE Pdu Session Set Up Ongoing! Do Not Do Xn HO!
170295 [170314] [2025-04-10T16:48:35.770] [APP] [t:1559151024] [rm_thread.cpp:7] [ERR]PROCESSING_MSG_FAILED:MODULE_ID:3:MSG_ID:148
170296 [170315] [2025-04-10T16:48:35.801] [APP] [t:1581175216] [ue_cntrl_thread.cpp:112] [TRC]SCTP_USER_MSG_RX_IND_RECEIVED:EXT_MSG_RX_TS_CYCLE:117162911520:SRC_SCTP_RX:8:DST_UE_CONN_MGR:4
170297 [170316] [2025-04-10T16:48:35.801] [UE_CONN_MGR] [t:1581175216] [ue_conn_mgr_f1_msg.cpp:326] [TRC]FLW_DU_2_UE_CONN_MGR_3_F1AP_UL_RRC_MESSAGE_TRANSFER:UE_CONN_MGR_GNB_UE_ID:47

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相关的问题:
 关联到 2.0基站产品化测试 - 错误 #2958: 华为与vivo手机先视频通话再转语音再转视频后视频无画面通话中断关闭 2025-03-12

历史记录

- #1 - 2025-04-10 17:33 - 孙浩
- 主题从 mate30 手机一直上报 A3 事件但不触发切换 (pre1T2 版本) 变更为 mate30 与 vivo 手机都是一直上报 A3 事件但不触发切换 (pre1T2 版本)
- #2 - 2025-04-10 17:35 - 席振斌
- 状态从新建 变更为 进行中
- #3 - 2025-04-10 17:35 - 席振斌
- 关联到 错误 #2958: 华为与 vivo 手机先视频通话再转语音再转视频后视频无画面通话中断已添加
- #4 - 2025-04-10 17:41 - 席振斌
问题原因: 核心网修改完 2958 问题单后, 打 vonr/vinr 时会重复下发 pdu session modify request 信令, cu 侧在收到第二次时因为承载已经存在内部流程的处理和第一次不完全一样, 导致 cu 侧 ue_conn_pdu_session 这个资源块的状态机错误, 切换时用此状态机做了判决拦截;
修改方法: cu 侧在收到第二次 pdu session modify request 信令后在给核心网回复 pdu session modify response 后置为合理的状态
- #5 - 2025-04-10 17:42 - 席振斌
- 状态从进行中 变更为 转测试
- 指派给从 席振斌 变更为 孙浩
- #6 - 2025-04-15 15:41 - 孙浩
- 文件 #3217 问题单验证-0415.rar 已添加
- 状态从转测试 变更为 已解决
基于 Rel_3.0.1_Pre1T2 版本, 替换立伟提供 du 包, 振斌提供 cu 包, mate30 与 vivo 手机 vonr 中可多次同频 xn 切换, 通话不中断, 切换流程完整, 问题解决。
- #7 - 2025-04-21 16:42 - 孙浩
- 状态从已解决 变更为 已关闭
在 Rel_3.0.1_Pre1T3 版本, mate30 与 vivo 手机 vonr 中可多次同频 xn 切换, 通话不中断, 切换流程完整, 问题可关闭。

文件

切换抓包.png	130 KB	2025-04-10	孙浩
cu 日志打印.png	148 KB	2025-04-10	孙浩
mate30 手机一直上报 A3 事件但不触发切换-0410.rar	1.56 MB	2025-04-10	孙浩
#3217 问题单验证-0415.rar	975 KB	2025-04-15	孙浩