

## B5G\_UE - 错误 #3217

L1c下发给Pucch的接口参数，ucipayload值错误，影响pucch上报ack

2025-04-23 15:52 - 王金伏

|   |     |         |            |
|---|-----|---------|------------|
| 状态:   | 已解决 | 开始日期:   | 2025-04-23 |
| 优先级:  | 普通  | 计划完成日期: |            |
| 指派给:  | 白瑞朋 | % 完成:   | 0%         |
| 类别:   |     | 预期时间:   | 0.00 小时    |
| 目标版本:                                       |     | 耗时:     | 0.00 小时    |
| 描述  |     |         |            |
| Lc1下发给Pucch的接口参数，ucipayload值错误，影响pucch上报ack |     |         |            |

### 历史记录

#1 - 2025-04-23 15:52 - 王金伏

- 主题从 Lc1 下发给Pucch的接口参数，ucipayload值错误，影响pucch上报ack 变更为 L1c 下发给Pucch的接口参数，ucipayload值错误，影响pucch上报ack

#2 - 2025-04-23 17:35 - 白瑞朋

- 状态从 新建 变更为 进行中

#### 【问题分析】

1.L1C计算ucipayload时，会先判断msg4的CRC结果，只有在CRC解对才会计算ucipayload，函数prep\_dlharq\_pucch\_forMsg4()，ue状态机是UE\_RA\_MSG4\_HARQ\_ACK；

2.分析msg4的PDSCH的CRC结果，发现解析msg4时没有存CRC结果，代码有缺失；

下一步

加上CRC结果存储代码，进行测试；

#3 - 2025-04-23 20:36 - 白瑞朋

#### 【问题解决】

ucipayload=128,基站可以解对PUCCH ACK。

#4 - 2025-04-24 10:55 - 白瑞朋

- 文件1.jpg 已添加

- 文件2.jpg 已添加

附代码流程

L1C状态机=UE\_RA\_MSG4\_HARQ\_ACK，调用prep\_dlharq\_pucch\_forMsg4()进行msg4 ACK的配置

```
1223:         break;
1224:     case UE_RA_MSG4_HARQ_ACK:
1225:         if(DL_HARQ_NOT_PREP == msg4_post_state)
1226:         {
1227:             prep_dlharq_pucch_forMsg4(curSlot);
1228:             msg4_post_state = DL_HARQ_PREP;
1229:         }
1230:     else if(DL_HARQ_PREP == msg4_post_state)
1231:     {
1232:         uint32_t pucch_send_slot;
1233:         uint32_t pucch_fill_slot;
1234:         SteUePucchRecpReq *pucchRecpReq;
1235:         SteUePucchRecpReq *pucch_Req;
1236:         //uint32_t pucch_adv_SlotIdx;
```

```

1642:   pucch.harqBitSize = 1;
1643:   // for msg4, only transmit the harq info
1644:   crcState = LOAD_EX_B(&phyDlRx->sPdschRxStruct[0].crcState);
1645:   if( crcState == CRC_SUCCESS )
1646:   {
1647:       // 最低位表示先调度的PDSCH 或 1<<7 (最高位表示先调度的PDSCH)
1648:       uciPayload = LOAD_EX_B(&ueCfg->recpReqInfo.pucchRecpReq[pucchSlotIdx].uciPayload);
1649:       uciPayload |= 1<<7; // 最低位表示先调度的PDSCH 或 1<<7 (最高位表示先调度的PDSCH)
1650:       STORE_EX_B(&ueCfg->recpReqInfo.pucchRecpReq[pucchSlotIdx].uciPayload, uciPayload);
1651:   }
1652:   //recpReqInfo.pucchnRecpReq[pucchSlotIdx].msg4HarqFlg = TRUE;
1653:   STORE_EX_W(&ueCfg->recpReqInfo.pucchRecpReq[pucchSlotIdx].msg4HarqFlg, TRUE); // [20250403]
1654:
1655:   /*参考协议38213:9.2.1: 计算rPUCCH*/

```

#5 - 2025-04-24 11:04 - 白瑞朋

- 文件3\_uci获取.jpg 已添加
- 文件4\_修改.jpg 已添加
- 状态从进行中变更为已解决

```

void lle_fill_pucch_info_to_phy( uint32_t slotIdx , SteUePucchRecpReq *pucchRecpReq )
{
    uint8_t idx;
    SteUciFormatEnum pucchFormatType ;

    uint32_t SlotAdvIdx = slotIdx % gMaxSlotNum ;
    uint32_t iCtx = get_ul_sf_ctx( SlotAdvIdx );
    PHYStateULTx *phyULTx = phy_gue_ul_get_ctx( ) ;

    PucchTxParaStruct *pucchTxPara = &phyULTx->sPucchTxPara;
    pucchFormat0ParaStruct *psPucchFormat0;
    pucchFormat1ParaStruct *psPucchFormat1;
    pucchFormat2ParaStruct *psPucchFormat2;
    pucchFormat3ParaStruct *psPucchFormat3;
    pucchFormat4ParaStruct *psPucchFormat4;

    pucchFormatType = LOAD_EX_W(&pucchRecpReq->frmtTyp); //pucchRecpReq->frmtTyp ;

    if(pucchFormatType == STE_PUCCH_FORMAT_0)
    {
        pucchTxPara->numPucchFrmt0 = 1 ;
        psPucchFormat0 = &pucchTxPara->sPucchFormat0Para[0];

        //psPucchFormat0->nRNTI = ueCfg->cRnti;
        //psPucchFormat0->nUEId = ueCfg->ueId;
        //psPucchFormat0->slotIdx = (SlotAdvIdx % cellCfg->numOfSlotsPerRadioFrame);
        psPucchFormat0->slotIdx = (SlotAdvIdx % LOAD_EX_S(&cellCfg->numOfSlotsPerRadioFrame));
        psPucchFormat0->intraSlotFhEn = LOAD_EX_B(&pucchRecpReq->freqHopFlag);
        psPucchFormat0->startingPrb = LOAD_EX_S(&pucchRecpReq->startRb);
        psPucchFormat0->secondHopPrb = LOAD_EX_S(&pucchRecpReq->secndHopPrb);
        psPucchFormat0->groupHoppingCfg = LOAD_EX_B(&pucchRecpReq->grpHopFlag); //????
        psPucchFormat0->nId = LOAD_EX_S(&pucchRecpReq->hoppingId);
        psPucchFormat0->lStart = LOAD_EX_B(&pucchRecpReq->strtSymb);
        psPucchFormat0->nSym = LOAD_EX_B(&pucchRecpReq->numSymb);
        /*这个需要根据pdsch_CRC或者 SR positive来确定,基站侧最大8位,最高位用来存最近调度的PDSCH的反馈
        STE保持和基站一致*/
        psPucchFormat0->uciPayload = LOAD_EX_B(&pucchRecpReq->uciPayload);
        psPucchFormat0->ucipayLoadLen = LOAD_EX_S(&pucchRecpReq->uciBitLen);

        psPucchFormat0->SR = LOAD_EX_B(&pucchRecpReq->u.f0.srPres);
        psPucchFormat0->csM0 = LOAD_EX_B(&pucchRecpReq->u.f0.cyclicShift);
    }
}

```

```

903
904
905 .....}
906 .....else if(DL_TB_IND == report_format)
907 .....{
908 ..... if(0 == tb_crc[ue_index])
909 ..... {
910
911 ..... decode_data1hdr_ptr = (L1MsgHdr_t *)g_cb_proc_dm_addr.bytebr_out_addr;
912 ..... decode_data1hdr_ptr->msgNum = 1;
913 ..... decode_data1hdr_ptr->cellIndex = g_phy_cell_cfg.cell_index;
914 ..... decode_data1hdr_ptr->rev = 0;
915
916 ..... decode_data1genrhdr_ptr = (L1GeneralMsgHdr_t *) (decode_data1hdr_ptr + 1);
917 ..... decode_data1genrhdr_ptr->msgId = FAPI_UE_DL_TB_IND;
918 ..... msg_length = addr_offset + sizeof(L1MsgHdr_t) + sizeof(L1GeneralMsgHdr_t);
919 ..... decode_data1genrhdr_ptr->msgSize = msg_length;
920
921 ..... wndlTbIndT *dl_tb_ind = (wndlTbIndT *) (decode_data1genrhdr_ptr + 1);
922 ..... dl_tb_ind->seqNum = FAPI_UE_DL_TB_IND;
923 ..... dl_tb_ind->SFN = sfn;
924 ..... dl_tb_ind->slot = slot;
925 ..... if(UE_ACTIVE == ueState)
926 ..... {
927 ..... dl_tb_ind->rntiType = C_RNTI_TYPE;
928 ..... dl_tb_ind->rnti = LOAD_EX_W(&ueCfg->cRnti);
929
930 ..... }
931 ..... else
932 ..... {
933 ..... dl_tb_ind->rntiType = TEMP_C_RNTI_TYPE;
934 ..... dl_tb_ind->rnti = LOAD_EX_W(&ueCfg->tcRnti);
935
936 ..... STORE_EX_B(&phyDLrx->sPdschRxStruct[0].crcState, CRC_SUCCESS); // [20250407]
937 ..... LOG_INFO_S("EEEE: crcState: %d \n", LOAD_EX_B(&phyDLrx->sPdschRxStruct[0].crcState));
938 ..... }
939 ..... dl_tb_ind->deviceId = dl_tb_ind->rnti;
940 ..... dl_tb_ind->taType = BIT6_TA;

```

## 文件

|             |         |            |     |
|-------------|---------|------------|-----|
| 1.jpg       | 78.1 KB | 2025-04-24 | 白瑞朋 |
| 2.jpg       | 144 KB  | 2025-04-24 | 白瑞朋 |
| 3_uci获取.jpg | 332 KB  | 2025-04-24 | 白瑞朋 |
| 4_修改.jpg    | 262 KB  | 2025-04-24 | 白瑞朋 |