

3.0基站产品测试 - 错误 #4781

Rel_3.1.5_Pre1T2版本16UE长保DU coredump

2026-01-23 16:38 - 郭 锁奇

状态:	审视	开始日期:	2026-01-23
优先级:	一般	计划完成日期:	
指派给:	周 立伟	% 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:	DU	目标解决问题版本:	Rel_3.1.5
发现问题版本:	Rel_3.1.5		
描述			
Rel_3.1.5_Pre1T2版本1D3U子帧配比上行双天线16UE上、下行udp灌包，CU coredump，定位后原因为RNTI最大个数配置。			

历史记录

#1 - 2026-01-26 15:16 - 郭 锁奇

Rel_3.1.5_Pre1T2版本1D3U子帧配比上行双天线16UE上、下行udp灌包，DU coredump，定位后原因为ue释放挂死。

#2 - 2026-01-29 21:00 - 韩 伟

- 状态从 新建 变更为 进行中

该问题已定位，挂死原因为ue释放流程中rel_trans定时器超时，访问待释放终端ueCb时，ueCb所在内存块已被释放，且内存已被其他点申请走，并进行了内存重写，因此挂死。

#3 - 2026-01-30 09:28 - 韩 伟

- 文件core_stack.png已添加

```
Program terminated with signal SIGSEGV, Segmentation fault.
#0 0x0000000000000000 in ?? ()
[Current thread is 1 (Thread 0x7dd46c2b70 (LWP 3940))]
(gdb) bt
#0 0x0000000000000000 in ?? ()
#1 0x00000000007a22ac in gnb_du::gnb_du_app_ue_msg_comm::send (this=this@entry=0x7d4629634, g_ue=g_ue@entry=0x7d54b9a830, msg=msg@entry=0x7d2984f134)
  at /home/zlw/du_push/gan/nr_hl_du/src/du_app/app_ue/build/../src/gnb_du_ue_msg_comm.cpp:234
#2 0x00000000007e4210 in gnb_ue_tmr::timer_expiry (tmrEvent=<optimized out>, cb=<optimized out>, this=<optimized out>)
  at /home/zlw/du_push/gan/nr_hl_du/src/du_app/app_ue/build/../src/gnb_du_ue_tmr.cpp:311
#3 app_ue_tmr_expiry (cb=<optimized out>, tmrEvent=<optimized out>) at /home/zlw/du_push/gan/nr_hl_du/src/du_app/app_ue/build/../src/gnb_du_ue_tmr.cpp:400
#4 0x0000000006alc44 in cmnTmrExpiry (cb=<optimized out>, timer=0x7d26cd164) at /home/zlw/du_push/gan/nr_hl_du/src/Sgnr_cmn/cmn_gcb_hdl.c:441
#5 0x0000000006alc44 in cmnTmrExpiry (tqCp=0xe3e4e8 <cmGcb+70680>, tg=0xe3e448 <cmGcb+70520>, func=func@entry=0x6alc00 <cmnTmrExpiry(unsigned long, cmTimer*)>)
  at /home/zlw/du_push/gan/nr_hl_du/src/cm_cmbdy5.c:521
#6 0x0000000006a2364 in cmnHdlCmTmr (tskInfo=0x7d32a2d030) at /home/zlw/du_push/gan/nr_hl_du/src/Sgnr_cmn/cmn_gcb_hdl.c:526
#7 0x0000000007cf480 in gnb_du::gnb_du_worker_thread_instance::process_message (this=0x7d24629f234, p_task=<optimized out>, priority=<optimized out>)
  at /home/zlw/du_push/gan/nr_hl_du/src/du_app/gnb_mgr/build/../src/gnb_du_worker_thread.cpp:512
#8 0x0000000000771370 in npp::thread_pool<gnb_du::gnb_du_worker_thread_instance, ssTskInfo>::thread_worker::run (this=0x45174700)
  at /home/zlw/du_push/gan/nr_hl_du/src/du_app/gnb_mgr/build/../../../../npp/include/npp_thread_pool.h:426
#9 0x0000000008fc544 in thread_start () at /home/zlw/du_push/npp/thread/build/../src/npp_sys_thread.cpp:338
#10 0x0000007f8144d7e4 in start_thread (arg=0x7fd90501df) at pthread_create.c:486
#11 0x0000007f8107f70c in thread_start () at ../sysdeps/unix/sysv/linux/aarch64/clone.S:78
```

调用栈信息如上

#4 - 2026-01-30 09:31 - 韩 伟

- 文件异常终端.png已添加

```
nsi_id = 0,
trans_stop_ind_pres = false,
--Type <RET> for more, q to quit, c to continue without paging--
cell_group_cfg = {
    <gnb_du::allocator> = {<No data fields>},
    members of gnb_du::du_ue_cell_group_cfg:
        ue_id = 17027,
        ue_mode = RGR_UE_CFG_SA_MODE,
        cell_group_id = 959905462,
        mac_cell_grp_cfg = {
            <gnb_du::allocator> = {<No data fields>},
            members of gnb_du::du_ue_mac_cell_group_cfg:
                mac_cell_group_cfg = {
                    drx_cfg = {
                        isDrxEnabled = 0 '\000',
                        onDurTmrCfg = {
                            tmrUnitTyp = 51 '3',
                            t = {
                                onDurTmrSubMs = 53 '5',
                                onDurTmrMs = 13877
                            }
                        },
                    },
                },
            },
        },
    },
};
```

解堆栈，发现异常时终端为17027

#5 - 2026-01-30 09:37 - 韩伟

- 文件rlf释放标记.png 已添加

- 文件 del_ue.png 已添加

但是实际该终端对应的ueCb已经被RLF释放：

#6 - 2026-01-30 09:37 - 韩伟

- 文件 rel_trans_event.png 已添加

所以在rel_trans定时器超时释放ueCb时异常：

```

(gdb) R *(gnb_du::gnb_du_message *) 0x7d2984f134
$3 = {
  <gnb_du::allocator> = {<No data fields>},
  members of gnb_du::gnb_du_message:
  _vptr.gnb_du_message = 0xa77ec0 <vtable for gnb_du::gnb_du_message+16>,
  ref_cnt = 0,
  msg_hdr = {
    poolId = 0,
    srcEntType = SS_CMN_TMR,
    dstEntType = SS_APP_UE,
    event = 123,
    reserved = 0,
    reserved1 = 0,
    reserved2 = 5720896438272,
    reserved3 = 0,
    msgLen = 668316976,
    startTick = 6994439831644274813,
    middleTick = 349610337894400,
    endTick = 281470681743360
  },
  msg = 0x7d26cdb134,
  trans_id = 0
}

```

#7 - 2026-01-30 09:41 - 韩伟

通过对代码分析，存在在竞争解决释放情况下提前删除ueCb，且rel_trans定时器不感知，且是在超时后去使用了已被释放的内存。针对此情况一方面增加rel_trans异常保护，另一方面对异常释放流程进行修改。修改已合入。

#8 - 2026-02-03 09:30 - 韩伟

- 状态从进行中变更为审视
- 指派给从韩伟变更为周立伟

文件

core_stack.png	49.1 KB	2026-01-30	韩伟
异常终端.png	15.7 KB	2026-01-30	韩伟
rif释放标记.png	34.6 KB	2026-01-30	韩伟
del_ue.png	32 KB	2026-01-30	韩伟
rel_trans_event.png	20.6 KB	2026-01-30	韩伟