

### 3.0基站产品测试 - 错误 #5350

当邻区存在无法连接成功时，会导致sctp线程卡断1s左右

2026-06-01 14:59 - 杨杨乐

状态:	已解决	开始日期:	2026-06-01
优先级:	一般	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	目标解决问题版本:	Rel_3.3.1
发现问题版本:	Rel_3.2.1		
描述			

#### 历史记录

#1 - 2026-06-01 15:56 - 杨杨乐

- 状态从新建变更为进行中

#2 - 2026-06-15 17:33 - 杨杨乐

- 状态从进行中变更为审视

#### 【问题原因】

- 1、本基站配置了邻基站
- 2、邻基站的服务器启动了，但是cu未启动
- 3、本基站会阻塞式连接邻基站，产生1s的卡顿
- 4、终端接入时会产生1s的卡顿

#### 【修改方案】

- 1、本基站连接邻基站修改为非阻塞
- 2、连接的动作放到线程中

#### 【回归方法和注意事项】

- 1、如下三种场景测试下多次UE接入，是否有某条信令卡顿1s，如果没有则没有问题
    - 1.1、配置邻基站，邻基站服务器启动，cu不启动
    - 1.2、配置邻基站，邻基站服务器启动，cu也启动
    - 1.3、配置邻基站，邻基站服务器不启动
  - 2、测试下正常的XN切换
- 如果上面的都可以正常做业务，则关闭该问题单

#3 - 2026-06-15 17:34 - 杨杨乐

- 状态从审视变更为转测试

- 指派给从杨杨乐变更为王旭初

#4 - 2026-06-17 13:56 - 王旭初

- 指派给从王旭初变更为孙浩

#5 - 2026-06-17 15:24 - 孙浩

- 文件终端随机接入流程.png 已添加

- 文件235-1455.pcap 已添加

- 文件236-1500.pcap 已添加

- 状态从转测试变更为已解决

基于3.2.2pre1T4版本，替换sys\_config\_arm\_ul.txt文件、gnb\_cu包后验证如下场景，均符合预期：

- > 场景1：“配置邻基站，邻基站服务器不启动”情况下，终端可多次随机接入，信令无卡顿1s的现象，符合预期；
- > 场景2：“配置邻基站，邻基站服务器启动，cu不启动”情况下，终端可多次随机接入，信令无卡顿1s的现象，符合预期；
- > 场景3：“配置邻基站，邻基站服务器启动，cu也启动”情况下，终端可多次随机接入，信令无卡顿1s的现象，符合预期；

> 场景4：可多次正常xn切换，符合预期；

235-1455.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)

ftap || ngap || sdap || nr-rrc || xnap

No.	Time	Source	Source port	Destination	Destination port	Protocol	C-RNTI	Info	DU-UE	CU-UE	UE-NGAP	measId	5G-TMSI	MSIN	fiveC
210	14:57:57.684360	192.168.68.235	38412	192.168.68.13	38412	NGAP		UEContextReleaseComplete			0				
215	14:57:59.078483	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC	17018	InitialULRRCCMessageTransfer, RRC Setup Request	1						
216	14:57:59.079717	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RRC		DLRRCCMessageTransfer, RRC Setup	1	1					
217	14:57:59.126398	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, RRC Setup Complete, Registration request, Reg-	1	1			2897 (0...		
218	14:57:59.127608	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		InitialUEMessage, Registration request, Registration request			1			2897 (0...	
219	14:57:59.129085	192.168.68.13	38412	192.168.68.235	38412	NGAP/NAS-5..		DownlinkNASTransport, Identity request			1				
220	14:57:59.129409	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RR		DLRRCCMessageTransfer, DL Information Transfer, Identity request MAC-	1	1					
221	14:57:59.146371	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, UL Information Transfer, Identity response MA-	1	1				000000012	
222	14:57:59.146797	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		UplinkNASTransport, Identity response			1			000000012	
223	14:57:59.149953	192.168.68.13	38412	192.168.68.235	38412	NGAP/NAS-5..		DownlinkNASTransport, Authentication request			1				
224	14:57:59.150259	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RR		DLRRCCMessageTransfer, DL Information Transfer, Authentication reque-	1	1					
225	14:57:59.266403	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, UL Information Transfer, Authentication respo-	1	1					
226	14:57:59.266871	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		UplinkNASTransport, Authentication response			1				
227	14:57:59.269188	192.168.68.13	38412	192.168.68.235	38412	NGAP/NAS-5..		DownlinkNASTransport, Security mode command			1				
228	14:57:59.269826	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RR		DLRRCCMessageTransfer, DL Information Transfer, Security mode comman-	1	1					
229	14:57:59.286370	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, UL Information Transfer, Security mode comple-	1	1				2897 (0...	
230	14:57:59.286641	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		UplinkNASTransport, Security mode complete, Registration request			1			2897 (0...	
231	14:57:59.291892	192.168.68.13	38412	192.168.68.235	38412	NGAP/NAS-5..		InitialContextSetupRequest, Registration accept			1			2898 (0...	
232	14:57:59.293043	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RRC		DLRRCCMessageTransfer, Security Mode Command MAC=0x9613f03	1	1					
233	14:57:59.306353	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC		ULRRCCMessageTransfer, Security Mode Complete MAC=0x10bfa9a6	1	1					
234	14:57:59.307086	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RRC		DLRRCCMessageTransfer, UE Capability Enquiry MAC=0x96faa085	1	1					
235	14:57:59.334731	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC		ULRRCCMessageTransfer, UE Capability Information MAC=0x0df63604	1	1					
236	14:57:59.335503	192.168.68.235	38412	192.168.68.13	38412	NGAP		UERadioCapabilityInfoIndication			1				
237	14:57:59.335566	192.168.68.235	38472	192.168.68.235	38473	FIAP		UEContextSetupRequest	1	1					
238	14:57:59.336437	192.168.68.235	38473	192.168.68.235	38472	FIAP		UEContextSetupResponse	1	1					
239	14:57:59.336914	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RR		DLRRCCMessageTransfer, RRC Reconfiguration, Registration accept MAC-	1	1				1,2,3 2898 (0...	
240	14:57:59.366379	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC		ULRRCCMessageTransfer, RRC Reconfiguration Complete MAC=0x67cfc5b3	1	1					
241	14:57:59.366439	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, UL Information Transfer, Registration complet-	1	1					
243	14:57:59.367022	192.168.68.235	38412	192.168.68.13	38412	NGAP		InitialContextSetupResponse			1				
244	14:57:59.367292	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		UplinkNASTransport, Registration complete			1				
246	14:57:59.446355	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC		ULRRCCMessageTransfer, Measurement Report MAC=0x3e4f2f31	1	1			2		
251	14:58:00.406367	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RR		ULRRCCMessageTransfer, UL Information Transfer, UL NAS transport, PD-	1	1					
252	14:58:00.406682	192.168.68.235	38412	192.168.68.13	38412	NGAP/NAS-5..		UplinkNASTransport, UL NAS transport, PDU session establishment req-			1				
253	14:58:00.414480	192.168.68.13	38412	192.168.68.235	38412	NGAP/NAS-5..		PDUSessionResourceSetupRequest, DL NAS transport, PDU session estab-			1				
254	14:58:00.421738	192.168.68.235	38472	192.168.68.235	38473	FIAP		UEContextModificationRequest	1	1					
255	14:58:00.422696	192.168.68.235	38473	192.168.68.235	38472	FIAP		UEContextModificationResponse	1	1					
256	14:58:00.431315	192.168.68.235	38472	192.168.68.235	38473	FIAP/NR RR		DLRRCCMessageTransfer, RRC Reconfiguration, DL NAS transport, PDU se-	1	1					
257	14:58:00.446362	192.168.68.235	38473	192.168.68.235	38472	FIAP/NR RRC		ULRRCCMessageTransfer, RRC Reconfiguration Complete MAC=0x6585e485	1	1					
258	14:58:00.447080	192.168.68.235	38412	192.168.68.13	38412	NGAP		PDUSessionResourceSetupResponse			1				

终端注册完成用时289ms

文件

终端随机接入流程.png	173 KB	2026-06-17	孙浩
235-1455.pcap	408 KB	2026-06-17	孙浩
236-1500.pcap	140 KB	2026-06-17	孙浩