

## 2.0基站产品化测试 - 错误 #1866

### xn切换handover request信令ng-c-UE-reference信元异常

2024-06-11 14:35 - 席振斌

状态:	已关闭	开始日期:	2024-06-11
优先级:	低	计划完成日期:	
指派给:		% 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	FPGA板卡类型:	
发现问题版本:	Rel_2.1.14P	CPU类型:	
目标解决问题版本:	Rel_2.1.14P		

### 描述

The image shows a Wireshark capture of a network protocol. The main pane displays a packet list with the following details:

- GNBDCConfigurationUpdateAcknowledge
- XnSetupResponse[Malformed Packet]
- HandoverRequest, RRC Reconfiguration[Malformed Packet]

The packet details pane shows the structure of the HandoverRequest, RRC Reconfiguration:

- criticality: reject (0)
- value
  - GUAMI
    - plmn-ID: 00f110
      - Mobile Country Code (MCC): Unknown (1)
      - Mobile Network Code (MNC): Unknown (01)
      - amf-region-id: ca [bit length 8, 1100 1010 decimal value 202]
      - amf-set-id: fe00 [bit length 10, 6 LSB pad bits, 1111 1110 00... decimal value 1016]
      - amf-pointer: 00 [bit length 6, 2 LSB pad bits, 0000 00... decimal value 0]
- Item 4: id-UEContextInfoHORequest
  - ProtocolIE-Field
    - id: id-UEContextInfoHORequest (83)
    - criticality: reject (0)
    - value
      - UEContextInfoHORequest
        - ng-c-UE-reference: 335007451214
        - cp-TNL-info-source: endpointIPAddress (0)
          - endpointIPAddress: c0a83e0a [bit length 32, 1100 0000 1010 1000 0011 1110 0000 1010 decimal value 192.168.62.10]
          - TransportLayerAddress (IPv4): 192.168.62.10
        - ueSecurityCapabilities
          - nr-EncryptionAlgorithms: 7000 [bit length 16, 0111 0000 0000 0000 decimal value 28672]
            - 0... = spare\_bit0: False
            - ..1. .... = neal-128: True
            - ..1. .... = nea2-128: True
            - ..1. .... = nea3-128: True
          - nr-IntegrityProtectionAlgorithms: 7000 [bit length 16, 0111 0000 0000 0000 decimal value 28672]
            - 0... = spare\_bit0: False

### 历史记录

#1 - 2024-06-11 14:35 - 席振斌

- 状态从新建 变更为 进行中

#2 - 2024-06-12 09:34 - 席振斌

自测ok,转测试

#3 - 2024-06-12 09:35 - 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 王旭初

#4 - 2024-06-13 16:28 - 王旭初

- 文件 path\_switch\_request.png 已添加

- 文件 hand\_over\_request.png 已添加

- 状态从转测试 变更为 已解决

- 指派给 已删除 (王旭初)

使用测试版本, 分别观察handover\_request, 以及pathswith\_request的报文, 观察amf\_ue\_id, 均解析正确, 且解析的值保持一致。如下图均为2953

NGSetupResponse  
XnSetupRequest[Malformed Packet]  
F1SetupResponse SIB2 SIB3  
XnSetupResponse[Malformed Packet]  
GNBDCConfigurationUpdate, MIB, SIB1[UNKNOWN PER: 10.9 Unconstrained][Malformed Packet]  
GNBDCConfigurationUpdateAcknowledge

0 07000001... HandoverRequest, RRC Reconfiguration[Malformed Packet]  
0 00000001... UEContextSetupRequest, RRC Reconfiguration  
UEContextSetupResponse  
HandoverRequestAcknowledge, RRC Reconfiguration  
SNStatusTransfer  
ULRRMessageTransfer, RRC Reconfiguration Complete MAC=0xa0b41909

0600000... PathSwitchRequest  
0000099f... PathSwitchRequestAcknowledge  
UEContextRelease  
0 ULRRMessageTransfer, Measurement Report MAC=0xecf8d216  
0000099f... PathSwitchRequestAcknowledge  
0 ULRRMessageTransfer, Measurement Report MAC=0xb8b69658  
0 ULRRMessageTransfer, Measurement Report MAC=0xce5465ad  
0 ULRRMessageTransfer, Measurement Report MAC=0xb5b30562  
0 ULRRMessageTransfer, Measurement Report MAC=0x68fab6cd

Item 0: id-RAN-UE-NGAP-ID  
ProtocolIE-Field  
id: id-RAN-UE-NGAP-ID (85)  
criticality: reject (0)  
value  
RAN-UE-NGAP-ID: 0

Item 1: id-SourceAMF-UE-NGAP-ID  
ProtocolIE-Field  
id: id-SourceAMF-UE-NGAP-ID (100)  
criticality: reject (0)  
value  
AMF-UE-NGAP-ID: 2953

Item 2: id-UserLocationInformation  
ProtocolIE-Field  
id: id-UserLocationInformation (121)  
criticality: ignore (1)  
value  
UserLocationInformation: userLocationInformationNR (1)  
userLocationInformationNR  
nR-CGI  
pLMNIdentity: 00f110

0000 00 04 00 01 00 06 d4 7c 44 d6 b6 96 00 00 08 00 ..... | D...  
0010 45 02 00 88 00 1a 40 00 40 84 3c 53 c0 a8 3e 28 E..... | @<S  
0020 c0 a8 3e 0a 96 0c 0e 0c d5 fd 34 a4 00 00 00 00 -->... | @.4  
0030 00 03 00 67 c3 86 6a 1f 00 00 00 01 00 00 00 3c --g... | j  
0040 00 19 00 53 00 00 05 00 55 00 02 00 00 00 64 00 --S... | U...  
0050 03 20 0b 89 00 79 40 0f 40 00 f1 10 01 00 00 00 --y@... | @...  
0060 00 00 f1 10 00 00 01 00 77 40 09 1c 00 00 00 00 --... | @@...  
0070 00 00 00 00 00 4c 00 1f 01 00 01 0c 40 1f c0 a8 --L... | L...  
0080 44 28 06 00 00 02 00 09 00 02 0c 04 40 1f c0 a8 D(... | @...  
0090 28 06 00 00 04 00 05 00 ..... | (.....

malformedresponse  
XnSetupRequest[Malformed Packet]  
F1SetupResponse SIB2 SIB3  
XnSetupResponse[Malformed Packet]  
GNBDCConfigurationUpdate, MIB, SIB1[UNKNOWN PER: 10.9 Unconstrained][Malformed Packet]  
GNBDCConfigurationUpdateAcknowledge  
HandoverRequest, RRC Reconfiguration[Malformed Packet]  
UEContextSetupRequest, RRC Reconfiguration  
UEContextSetupResponse  
HandoverRequestAcknowledge, RRC Reconfiguration  
SNStatusTransfer  
ULRRMessageTransfer, RRC Reconfiguration Complete MAC=0xa0b41909

06000002... PathSwitchRequest  
0000099f... PathSwitchRequestAcknowledge  
UEContextRelease  
0 ULRRMessageTransfer, Measurement Report MAC=0xecf8d216  
0000099f... PathSwitchRequestAcknowledge  
0 ULRRMessageTransfer, Measurement Report MAC=0xb8b69658  
0 ULRRMessageTransfer, Measurement Report MAC=0xce5465ad  
0 ULRRMessageTransfer, Measurement Report MAC=0xb5b30562  
0 ULRRMessageTransfer, Measurement Report MAC=0x68fab6cd

Item 0: id-sourceNG-RANnodeUEXnAPIID  
ProtocolIE-Field

Item 1: id-Cause  
ProtocolIE-Field

Item 2: id-targetCellGlobalID  
ProtocolIE-Field

Item 3: id-GUAMI  
ProtocolIE-Field

Item 4: id-UEContextInfoHOREquest  
ProtocolIE-Field  
id: id-UEContextInfoHOREquest (83)  
criticality: reject (0)  
value  
UEContextInfoHOREquest  
ng-c-UE-reference: 2953  
cp-TNL-info-source: endpointIPAddress (0)  
ueSecurityCapabilities  
securityInformation  
ue-AMBR  
pdusessionResourcesToBeSetup-List: 2 Items  
rrc-Context [truncated]: 102206a3868040001d3d684c08000050120931600098350304d8061c9f863ca160704c020311804a8362eb04610d040883e50e

0070 30 01 0b 89 07 c0 c0 a8 3e 0a 0e 00 07 00 00 00 0..... | >...  
0080 00 00 00 0c a6 85 cc f2 8f cf 06 c8 b9 d3 92 6d --1... | .....  
0090 6a 6d 5d 42 a0 77 69 92 bb 53 f4 64 3b 21 ba 9b jm]B-wi... | -S;d;  
00a0 54 77 a6 04 00 80 00 01 04 01 40 20 03 02 01 01 Tw... | -@...  
00b0 f0 c0 a8 44 0a 00 00 09 9f 00 00 90 00 00 09 10 --D... | .....  
00c0 00 00 40 00 02 40 20 03 02 01 01 f0 c0 a8 44 0a --H... | @...  
00d0 00 00 09 a1 00 00 50 00 00 05 10 00 00 28 81 c1 --... | P...  
00e0 10 22 06 a3 86 80 40 00 1d 3d 68 4c 08 00 08 05 --... | @...hL...  
00f0 01 20 93 16 00 09 83 50 30 4d 80 61 cf 98 63 ca --... | P 0M:a  
0100 16 07 04 c0 20 31 18 04 a8 36 26 eb 04 61 0d 04 --1... | -68...  
0110 08 3e 50 08 b2 d9 31 54 34 39 f1 1c 7a 06 7d 81 -->P... | -IT 49...  
0120 3e 31 cf 98 63 ca 16 07 03 87 82 eb e2 fe 00 3a -->L... | .....  
0130 f8 bf 80 00 e4 07 00 1b 28 00 02 80 00 02 a0 d8 --... | .....  
0140 99 ac 11 84 34 10 20 f9 40 22 cb 64 c5 50 00 e7 --... | @...d...  
0150 c4 71 e8 19 f6 04 f8 c7 3e 61 8f 28 58 1c 0e 1e --... | @...a (X  
0160 0b af 8b f8 00 eb e2 fe 00 03 90 1c 00 6c a0 00 --... | .....  
0170 0a 00 00 0e 83 61 46 0e b0 46 10 00 40 83 e5 00 --... | aF...g  
0180 8b 2d 93 15 43 43 9f 11 c7 a0 67 d8 13 e3 1c f9 --CC... | -g...  
0190 86 3c a1 60 70 38 78 2e ee 3b e0 03 bb 8e f8 00 --<p8x... | ;...  
01a0 0e 00 70 2a 00 80 5a c1 18 43 41 02 0f 94 02 24 --p... | -Z...CA...  
01b0 b6 4c 55 05 0e 7c 47 1e 31 cf 98 63 ca 16 07 03 --LU... | -[G...I...c  
01c0 87 81 3f e0 f8 00 0f 3e 00 00 38 01 c0 a8 36 --?... | >@...  
01d0 00 0b 04 61 0d 04 08 3e 50 08 92 d9 31 54 14 19 --k... | -a...> P...j

#5 - 2024-08-19 17:57 - 王旭初  
- 状态从已解决变更为已关闭

文件	大小	日期	操作人
20240611-143311.jpg	584 KB	2024-06-11	席振斌
path_switch_request.png	88.9 KB	2024-06-13	王旭初
hand_over_request.png	128 KB	2024-06-13	王旭初