**3GPP TSG-RAN WG3 Meeting #122R3-23xxxx**

**Chicago, IL, U.S.A., November 13th – 17th 2023**

Agenda Item: 13.2.

Source: Ericsson

Title: (TP for mIAB BL CR for TS 38.423): IAB-node De-registration Handling

Document for: Agreement

# TP for QoE BL CR for TS 38.413

-------------------------------------------Start of changes-------------------------------------------

8.1 List of NGAP Elementary Procedures

In the following tables, all EPs are divided into Class 1 and Class 2 EPs (see subclause 3.1 for explanation of the different classes):

**Table 8.1-1: Class 1 procedures**

**Table 8.1-2: Class 2 procedures**

|  |  |
| --- | --- |
| **Elementary Procedure** | **Message** |
| Downlink RAN Configuration Transfer | DOWNLINK RAN CONFIGURATION TRANSFER |
| Downlink RAN Status Transfer | DOWNLINK RAN STATUS TRANSFER |
| Downlink NAS Transport | DOWNLINK NAS TRANSPORT |
| Error Indication | ERROR INDICATION |
| Uplink RAN Configuration Transfer | UPLINK RAN CONFIGURATION TRANSFER |
| Uplink RAN Status Transfer | UPLINK RAN STATUS TRANSFER |
| Handover Notification | HANDOVER NOTIFY |
| Initial UE Message | INITIAL UE MESSAGE |
| NAS Non Delivery Indication | NAS NON DELIVERY INDICATION |
| Paging | PAGING |
| PDU Session Resource Notify | PDU SESSION RESOURCE NOTIFY |
| Reroute NAS Request | REROUTE NAS REQUEST |
| UE Context Release Request | UE CONTEXT RELEASE REQUEST |
| Uplink NAS Transport | UPLINK NAS TRANSPORT |
| AMF Status Indication | AMF STATUS INDICATION |
| PWS Restart Indication | PWS RESTART INDICATION |
| PWS Failure Indication | PWS FAILURE INDICATION |
| Downlink UE Associated NRPPa Transport | DOWNLINK UE ASSOCIATED NRPPA TRANSPORT |
| Uplink UE Associated NRPPa Transport | UPLINK UE ASSOCIATED NRPPA TRANSPORT |
| Downlink Non UE Associated NRPPa Transport | DOWNLINK NON UE ASSOCIATED NRPPA TRANSPORT |
| Uplink Non UE Associated NRPPa Transport | UPLINK NON UE ASSOCIATED NRPPA TRANSPORT |
| Trace Start | TRACE START |
| Trace Failure Indication | TRACE FAILURE INDICATION |
| Deactivate Trace | DEACTIVATE TRACE |
| Cell Traffic Trace | CELL TRAFFIC TRACE |
| Location Reporting Control | LOCATION REPORTING CONTROL |
| Location Reporting Failure Indication | LOCATION REPORTING FAILURE INDICATION |
| Location Report | LOCATION REPORT |
| UE TNLA Binding Release | UE TNLA BINDING RELEASE REQUEST |
| UE Radio Capability Info Indication | UE RADIO CAPABILITY INFO INDICATION |
| RRC Inactive Transition Report | RRC INACTIVE TRANSITION REPORT |
| Overload Start | OVERLOAD START |
| Overload Stop | OVERLOAD STOP |
| Secondary RAT Data Usage Report | SECONDARY RAT DATA USAGE REPORT |
| Uplink RIM Information Transfer | UPLINK RIM INFORMATION TRANSFER |
| Downlink RIM Information Transfer | DOWNLINK RIM INFORMATION TRANSFER |
| Retrieve UE Information | RETRIEVE UE INFORMATION |
| UE Information Transfer | UE INFORMATION TRANSFER |
| RAN CP Relocation Indication | RAN CP RELOCATION INDICATION |
| Connection Establishment Indication | CONNECTION ESTABLISHMENT INDICATION |
| AMF CP Relocation Indication | AMF CP RELOCATION INDICATION |
| Handover Success | HANDOVER SUCCESS |
| Uplink RAN Early Status Transfer | UPLINK RAN EARLY STATUS TRANSFER |
| Downlink RAN Early Status Transfer | DOWNLINK RAN EARLY STATUS TRANSFER |
| Multicast Group Paging | MULTICAST GROUP PAGING |
| Broadcast Session Release Required | BROADCAST SESSION RELEASE REQUIRED |
| IAB-node Release Status Notification | IAB-NODE RELEASE STATUS NOTIFICATION |

>>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<<<<

-------------------------------------------Next change-------------------------------------------

8.3.x IAB-node Release Status Notification

8.3.x.1 General

The purpose of the IAB-node Release Status Notification procedure is to indicate to the AMF whether the F1 interface towards an IAB-MT has been released. The procedure uses UE-associated signalling.

8.3.x.2 Successful Operation

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**Figure 8.3.x.2-1: IAB-node Release Status Notification: successful operation**

If the value of the *IAB-node Release Status* IE in the IAB-NODE RELEASE STATUS INDICATION message, is set to “F1-released” the AMF shall, if supported, understand that it may de-register the IAB-MT indicated therein, as defined in TS 38.401 [2]. If the value of the *IAB-node Release Status* IE in the IAB-NODE RELEASE STATUS INDICATION message, is set to “F1-not-released” the AMF shall, if supported, understand that it may not de-register the IAB-MT indicated therein, as defined in TS 38.401 [2].

>>>>>>>>>>>>>>>>>>Unchanged parts are skipped<<<<<<<<<<<<<<<<<<

-------------------------------------------Next change-------------------------------------------

9.2.2.8 IAB-NODE RELEASE STATUS INDICATION

This message is sent by the NG-RAN node to indicate to the AMF whether the F1 interface towards the IAB-MT has been released.

Direction: NG-RAN node → AMF

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| AMF UE NGAP ID | M |  | 9.3.3.1 |  | YES | ignore |
| RAN UE NGAP ID | M |  | 9.3.3.2 |  | YES | ignore |
| IAB-node Release Status | M |  | ENUMERATED (f1-released, f1-not-released…) |  | YES | ignore |

-------------------------------------------End of changes-------------------------------------------