**3GPP TSG-RAN WG3 Meeting #121 R3-23xxxx**

**21-25 August 2023, Toulouse, France**

Agenda Item: 16.4

Source: CATT

Title: (TP for SL relay 38.473) Introduction of path release in Multi-path

Document for: other

1. Introduction

This contribution supports path release in intra-DU multi path scenario.

1. TP for 38.473

### 8.3.3 UE Context Release (gNB-CU initiated)

#### 8.3.3.1 General

The purpose of the UE Context Release procedure is to enable the gNB-CU to order the release of the UE-associated logical connection or candidate cells in conditional handover or conditional PSCell addition or conditional PSCell change. The procedure uses UE-associated signalling.

#### 8.3.3.2 Successful Operation



Figure 8.3.3.2-1: UE Context Release (gNB-CU initiated) procedure. Successful operation

The gNB-CU initiates the procedure by sending the UE CONTEXT RELEASE COMMAND message to the gNB-DU.

<<<Unchanged part is skipped>>>

If the *Positioning Context Reservation Indication* IE is included in the UE CONTEXT RELEASE COMMAND message, the gNB-DU shall not release the positioning context including the SRS configuration for the UE.

If the *Path Release Information* IE is included in the UE CONTEXT RELEASE COMMAND message, the gNB-DU shall consider it as a direct or indirect path release procedure for SL Relay Multi-path scenario.

**Interactions with UE Context Setup procedure:**

The UE Context Release procedure may be performed before the UE Context Setup procedure to release an existing UE-associated logical F1-connection and related resources in the gNB-DU, e.g. when gNB-CU rejects UE access it shall trigger UE Context Release procedure with the cause value of UE rejection.

#### 9.2.2.5 UE CONTEXT RELEASE COMMAND

This message is sent by the gNB-CU to request the gNB-DU to release the UE-associated logical F1 connection or candidate cells in conditional handover or conditional PSCell addition or conditional PSCell change.

Direction: gNB-CU → gNB-DU

| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.3.1.1 |  | YES | reject |
| gNB-CU UE F1AP ID | M |  | 9.3.1.4 |  | YES | reject |
| gNB-DU UE F1AP ID | M |  | 9.3.1.5 |  | YES | reject |
| Cause | M |  | 9.3.1.2 |  | YES | ignore |
| RRC-Container | O |  | 9.3.1.6 | Includes the *DL-DCCH-Message* IE as defined in subclause 6.2 of TS 38.331 [8] encapsulated in a PDCP PDU, or the *DL-CCCH-Message* IE as defined in subclause 6.2 of TS 38.331 [8]. | YES | ignore |
| SRB ID | C- ifRRCContainer |  | 9.3.1.7 | The gNB-DU sends the RRC message on the indicated SRB. | YES | ignore |
| old gNB-DU UE F1AP ID | O |  | 9.3.1.5 | Include it if RRCReestablishmentRequest is not accepted | YES | ignore |
| Execute Duplication | O |  | ENUMERATED (true, ...) | This IE may be sent only if duplication has been configured for the UE.  | YES | ignore |
| RRC Delivery Status Request | O |  | ENUMERATED (true, …) | Indicates whether RRC DELIVERY REPORT procedure is requested for the RRC message. | YES | ignore |
| **Candidate Cells To Be Cancelled List** |  | *0 .. <maxnoofCellsinCHO>* |  |  | YES | reject |
| >Target Cell ID | M |  | NR CGI9.3.1.12 |  | - | - |
| Positioning Context Reservation Indication | O |  | ENUMERATED (True,...) |  | YES | ignore |
| CG-SDT Kept Indicator | O |  | ENUMERATED (true, ...) |  | YES | ignore |
| Path Release Information | O |  | 9.3.1.x |  | YES | ignore |

9.3.1.x Path Release Information

This IE provides information for path release.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** |
| CHOICE *Path Release Information* | M |  |  |  |
|  >*Indirect Path Release* |  |  |  |  |
| >>Target Relay UE ID | M |  | BIT STRING (SIZE(24)) | Corresponds to information provided in the *targetRelayUE-Identity* contained in the *SL-PathSwitchConfig* IE, defined in TS 38.331 [8] |
|  >*Direct Path Release* |  |  |  |  |
| >>PCell ID | M |  | NR CGI 9.3.1.12 |  |