3GPP TSG-RAN WG3 Meeting #121 R3-234647

**Toulouse, France, 21 – 25 Aug, 2023**

Agenda Item: 10.2.3

Source: Huawei

Title: (TP for SON BLCR for TS 36.423): Remaining issues for RACH optimisation

Document for: other

# Introduction

This document contains a TP for SON BLCR for TS36.423.

# TP for SON BLCR for TS 36.423

*Start of the change*

8.3.16 Access and Mobility Indication

8.3.16.1 General

The purpose of the Access and Mobility Indication procedure is to transfer Access and Mobility related information between E-UTRAN nodes.

8.3.16.2 Successful Operation



**Figure 8.3.16.2-1: Access and Mobility Indication. Successful operation – eNB-initiated**



**Figure 8.3.16.2-2: Access and Mobility Indication. Successful operation – eNB-initiated**

The eNB initiates the procedure by sending the ACCESS AND MOBILITY INDICATION message sent to the en-gNB.

The eNB1 initiates the procedure by sending the ACCESS AND MOBILITY INDICATION message sent to the eNB2.

If the *PSCell List Container* IE is included in the ACCESS AND MOBILITY INDICATION message, the eNB2 may use it to identify the en-gNB to which the *RA Report Container* IE should be forwarded.

8.3.16.3 Abnormal Conditions

Not applicable.

*Start of the next change*

#### 9.1.2.50 ACCESS AND MOBILITY INDICATION

This message is sent by the eNB to the eNB/en-gNB to transfer access and mobility related information.

Direction: eNB → en-gNB, eNB1 → eNB2.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.3.1 |  | YES | reject |
| **NR RA Report List** |  | *0..1* |  |  | YES | ignore |
| **>NR RA Report List Item** |  | *1 .. <maxnoofRAReports>* |  |  | EACH | ignore |
| >>NR RA Report Container | M |  | OCTET STRING | *RA-ReportList-r16* IE as defined in subclause 6.2.2 in TS 38.331 [10]. | – |  |
| >>UE Assistant Identifier | O |  | en-gNB UE X2AP ID9.2.100 |  | – |  |
| >>PSCell List Container | O |  | OCTET STRING | *[FFS – Name to be decided by RAN2]* IE as defined in subclause *[FFS – to be decided by RAN2]* in TS 36.331 [9]. | YES | ignore |

|  |  |
| --- | --- |
| Range bound | Explanation |
| *maxnoofRAReports* | Maximum no. of RA Reports, the maximum value is 64. |

 *next change*

#### 9.1.2.x RACH INDICATION

This message is sent by the en-gNB to inform the MeNB node that one or more RA reports are available at the UE.

Direction: en-gNB → MeNB.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.13 |  | YES | ignore |
| **RA Report Indication List** |  | *1* |  |  | YES | reject |
| **>RA Report Indication List Item** |  | *1 .. <maxnoofRAReportIndications>* |  |  | - |  |
| >>RA Report Retrieval UE ID | M |  | eNB UE X2AP ID9.2.24 | Indicate the UE ID need to retrieve RA Report. | - |  |
| ~~>>MeNB UE X2AP ID Extension~~ | ~~O~~ |  | ~~Extended eNB UE X2AP ID~~~~9.2.86~~ | ~~Allocated at the MeNB eNB~~ | ~~-~~ |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofRAReportIndications | Maximum number of RA Report indications in the message. Value is FFS. |

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

RaReportIndicationList ::= SEQUENCE (SIZE(1..maxnoofRAReportIndications)) OF RaReportIndicationList-Item

RaReportIndicationList-Item ::= SEQUENCE {

 RA-Report-Retrieval-UE-ID UE-X2AP-ID,

 iE-Extensions ProtocolExtensionContainer { {RaReportIndicationList-Item-ExtIEs} } OPTIONAL,

 ...

}

RaReportIndicationList-Item-ExtIEs X2AP-PROTOCOL-EXTENSION::= {

 ...

}

*End of the change*