**3GPP TSG-RAN WG3 Meeting #129 R3-255814**

**Bengaluru, India, 25 – 29 August 2025**

**Agenda Item: 10.2**

**Source: ZTE Corporation, Samsung**

**Title: (TP for SON BLCR for 38.423) MRO for others**

**Document for: Discussion and Approval**

# 1 Introduction

This contribution provides TP for TS38.423 relate to MRO for CHO with Candidate SCG(s) based on agreements achieved in RAN3#129.

# 2 TP to TS38.423

<<<<<<<<<<<<<<<<<<<< START OF CHANGES >>>>>>>>>>>>>>>>>>>>

#### 9.1.3.17 HANDOVER REPORT

This message is sent by NG-RAN node1 to NG-RAN node2 to report a handover failure event, or other critical mobility problem.

Direction: NG-RAN node 1 → NG-RAN node 2.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.2.3.1 |  | YES | ignore |
| Handover Report Type | M |  | ENUMERATED (HO too early, HO to wrong cell, Inter-system ping-pong. …, Too Late CHO with candidate SCG) |  | YES | ignore |
| Handover Cause | M |  | Cause9.2.3.2 | Indicates handover cause employed for handover from NG-RAN node 2.The IE is ignored if the Handover Report Type is set to “Too Late CHO with candidate SCG”. | YES | ignore |
| Source cell CGI | M |  | Global NG-RAN Cell Identity9.2.2.27 | NG-RAN CGI of source cell for handover procedure (in NG-RAN node 2). | YES | ignore |
| Target cell CGI | M |  | Global NG-RAN Cell Identity9.2.2.27 | NG-RAN CGI of target cell for handover procedure (in NG-RAN node 1).If the Handover Report Type is set to “Inter-system ping-pong”, it contains the target cell of the inter system handover from the other system to NG-RAN node 1 cell. If the Handover Report Type is set to “Too Late CHO with candidate SCG”, it is the suitable cell in the NG-RAN node 2. | YES | ignore |
| Re-establishment cell CGI | C-ifHandoverReportType HoToWrongCell |  | Global Cell Identity9.2.2.73 | CGI of cell where UE attempted re-establishment or where UE successfully re- connected after the failure | YES | ignore |
| Target cell in E-UTRAN | C-ifHandoverReportType Intersystempingpong |  | OCTET STRING | Encoded according to *Global Cell ID* in the *Last Visited E-UTRAN Cell Information* IE, as defined in TS 36.413 [31] | YES | ignore |
| Source cell C-RNTI | O |  | BIT STRING (SIZE (16)) | C-RNTI allocated at the source NG-RAN node (in NG-RAN node 2) | YES | ignore |
| Mobility Information | O |  | BIT STRING (SIZE (32)) | Information provided in the HANDOVER REQUEST message or in the SN STATUS TRANSFER message from NG-RAN node 2. | YES | ignore |
| UE RLF Report Container | O |  | UE RLF Report9.2.2.59 | The *UE RLF Report Container* IE received in the FAILURE INDICATION message. | YES | ignore |
| CHO Configuration | O |  | 9.2.2.76 |  | YES | ignore |
| Target cell C-RNTI | O |  | BIT STRING (SIZE (16)) | C-RNTI allocated at the target NG-RAN node. | YES | ignore |
| Time Since Failure | O |  | INTEGER (0.. 172800, ...) | Corresponds to the *TimeSinceFailure* IE received from the UE in RLF Report as defined in TS 36.331 [14]. | YES | ignore |

|  |  |
| --- | --- |
| Condition | Explanation |
| ifHandoverReportType HoToWrongCell | This IE shall be present if the *Handover Report Type* IE is set to the value "HO to wrong cell" |
| ifHandoverReportType Intersystempingpong | This IE shall be present if the *Handover Report Type* IE is set to the value "Inter-system ping-pong" |

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

#### 9.1.3.xx SCG Failure Indication

This message is sent by NG-RAN node1 to NG-RAN node2 to report a SCG failure event that occurred while CHO with candidate SCG was configured.

Direction: NG-RAN node 1 → NG-RAN node 2.

| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| Message Type | M |  | 9.2.3.1 |  | YES | ignore |
| Target NG-RAN node UE XnAP ID | M |  | NG-RAN node UE XnAP ID9.2.3.16 | Allocated at the candidate target NG-RAN node | YES | ignore |
| SCG Failure Report Container | M |  | OCTET STRING | Includes the *SCGFailureInformation* message as defined in TS 38.331 [10] | YES | ignore |

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

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-- SCG FAILURE INDICATION

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SCGFailureIndication ::= SEQUENCE {

 protocolIEs ProtocolIE-Container {{ SCGFailureIndication-IEs}},

 ...

}

SCGFailureIndication-IEs XNAP-PROTOCOL-IES ::= {

 { ID id-TargetNG-RANnodeUEXnAPID CRITICALITY ignore TYPE NG-RANnodeUEXnAPID PRESENCE mandatory}|

 { ID id-SCGFailureReportContainer CRITICALITY ignore TYPE SCGFailureReportContainer PRESENCE mandatory},

 ...

}

 <<<<<<<<<<<<<<<<<<<< End Change >>>>>>>>>>>>>>>>>>>>