**3GPP TSG-RAN WG3 Meeting #116-e R3-223205**

**E-meeting, 09 May – 19 May 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **37.473** | **CR** | **0015** | **rev** | **<Rev#>** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | W1AP CR for ACL remaining issues | | | | | | | | | |
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| ***Source to WG:*** | Huawei, Deutsche Telekom, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-05-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | If a new E-RAB setup request is received for a UE during DC, the master node needs to transfer the new source IP allocated for the new E-RAB to the eNB-DU over W1AP in UE Context Modification Request message. | | | | | | | | |
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| ***Summary of change:*** | | * The MN’s IP address is forwarded to the eNB-DU over W1AP in UE Context Modification Request message | | | | | | | | |
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| ***Consequences if not approved:*** | | ACL function is not workable for new E-RABs setup during an ongoing EN-DC.  Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has limited impact under funtional point of view. | | | | | | | | |
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| ***Clauses affected:*** | | 8.3.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS38.413CR0791  TS38.473CR0879  TS37.483CR0008  TS36.413CR1880  TS36.423CR1694  TS38.423CR0804 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<<<<<<<<<<<<<<<<<<<< Changes Begin>>>>>>>>>>>>>>>>>>>>

### 8.3.4 UE Context Modification (ng-eNB-CU initiated)

#### 8.3.4.1 General

The purpose of the UE Context Modification procedure is to modify the established UE Context, e.g., establishing, modifying and releasing radio resources. This procedure is also used to command the ng-eNB-DU to stop data transmission for the UE for mobility (see TS 38.401 [4]). The procedure uses UE-associated signalling.

#### 8.3.4.2 Successful Operation



Figure 8.3.4.2-1: UE Context Modification procedure. Successful operation

The UE CONTEXT MODIFICATION REQUEST message is initiated by the ng-eNB-CU.

Upon reception of the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall perform the modifications, and if successful reports the update in the UE CONTEXT MODIFICATION RESPONSE message.

If the *SpCell ID* IE is included in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall replace any previously received value and regard it as a reconfiguration with sync as defined in TS 36.331 [2]. If the *ServCellIndex* IE is included in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall take this into account for the indicated SpCell.

If the *SCell To Be Setup List* IE or *SCell To Be Removed List* IE is included in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall act as specified in TS 38.401 [4]. If the *SCell To Be Setup List* IE is included in the UE CONTEXT MODIFICATION REQUEST message and the indicated SCell(s) are already setup, the ng-eNB-DU shall replace any previously received value.

If the *DRX Cycle* IE is contained in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall use the provided value from the ng-eNB-CU.

If the *SRB To Be Setup List* IE is contained in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall act as specified in the TS 38.401 [4], and replace any previously received value.

If the *DRB To Be Setup List* IE is contained in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall act as specified in the TS 38.401 [4].

If the UE CONTEXT MODIFICATION REQUEST message contains the *RRC-Container* IE, the ng-eNB-DU shall send the corresponding RRC message to the UE.

The ng-eNB-CU shall include the *DRB Information* IE in the UE CONTEXT MODIFICATION REQUEST message.

The ng-eNB-DU shall report to the ng-eNB-CU, in the UE CONTEXT MODIFICATION RESPONSE message, the result for all the requested or modified DRBs and SRBs in the following way:

- A list of DRBs which are successfully established shall be included in the *DRB Setup List* IE;

- A list of DRBs which failed to be established shall be included in the *DRB Failed to be Setup List* IE;

- A list of DRBs which are successfully modified shall be included in the *DRB Modified List* IE;

- A list of DRBs which failed to be modified shall be included in the *DRB Failed to be Modified List* IE;

- A list of SRBs which failed to be established shall be included in the *SRB Failed to be Setup List* IE.

When the ng-eNB-DU reports the unsuccessful establishment of a DRB or SRB, the cause value should be precise enough to enable the ng-eNB-CU to know the reason for the unsuccessful establishment.

If the *SCell Failed To Setup List* IE is contained in the UE CONTEXT MODIFICATION RESPONSE message, the ng-eNB-CU shall regard the corresponding SCell(s) failed to be established with an appropriate cause value for each SCell failed to setup.

If the *C-RNTI* IE is included in the UE CONTEXT MODIFICATION RESPONSE, the ng-eNB-CU shall consider that the C-RNTI has been allocated by the ng-eNB-DU for this UE context.

The UE Context Modify Procedure is not used to configure SRB0.

If the *UL PDU Session Aggregate Maximum Bit Rate* IE is included in the *QoS Flow Level QoS Parameters* IE contained in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall replace the received UL PDU Session Aggregate Maximum Bit Rate and use it as specified in TS 23.501 [8].

If the *ng-eNB-DU UE Aggregate Maximum Bit Rate Uplink* IE is included in the UE CONTEXT MODIFICATION REQUEST message, the ng-eNB-DU shall:

- replace the previously provided ng-eNB-DU UE Aggregate Maximum Bit Rate Uplink with the new received ng-eNB-DU UE Aggregate Maximum Bit Rate Uplink;

- use the received ng-eNB-DU UE Aggregate Maximum Bit Rate Uplink for non-GBR Bearers for the concerned UE.

The *UL PDU Session Aggregate Maximum Bit Rate* IE shall be sent if *DRB to Be Setup List* IE is included and the ng-eNB-CU has not previously sent it. The ng-eNB-DU shall store and use the received ng-eNB-DU UE Aggregate Maximum Bit Rate Uplink.

For MN in NGEN-DC, if the *SCG Indicator* IE is included in the UE CONTEXT MODIFICATION REQUEST message and it is set to “released”, the ng-eNB-DU shall, if applicable, consider the SCG is removed.

If the Source Transport Layer Address IE is included in the QoS Flow Level QoS Parameters IE contained in the UE CONTEXT MODIFICATION REQUEST message, then the ng-eNB-DU shall, if supported, use it as part of its ACL functionality configuration actions, if such ACL functionality is deployed.

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