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| **Change Request** | | | | | | | |
| **Document** | **ORAN-WG3.E2SM-RC** | **ver** | **01.03.01** | **CR** | **QCM-0001** | **rev** | **1** | |

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| --- | --- | --- | --- |
| ***Title:*** | E1AP Spec Number Reference Correction | | |
| ***Source to WG:*** | Qualcomm | | |
| ***Target WG :*** | **WG3** | | |
| ***Category:*** | **D** | ***CR Creation Date*** | 2022.09.08 |
|  | *Use one of the following* ***categories****:* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)* ***F*** *(correction)’*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | |

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| --- | --- |
| ***Reason for Change:*** | 3GPP transferred the technical contents of E1AP 38.463 to 37.483, effective for release 17 |
| ***Summary of change:*** | Change to ref [21] |
| ***Consequences if not aproved:*** | Ref [21] no longer valid |

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| ***Clauses affected:*** | 2, 8.1, 8.4, 8.5 | | | | |
|  | **Y** | **N** |  | |  |
| ***Other specs*** |  | **Y** | Other core specifications: | <fill in related CRs if “Y”> | |
| ***affected:*** |  | **x** | Test specifications: | <fill in related CRs if “Y”> | |
| ***(show related CRs)*** |  | **X** | O&M Specifications: | <fill in related CRs if “Y”> | |
| ***Supporting material:*** |  | | | | |
| ***Other comments:*** | xxx | | | | |

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| ***Status:*** | **Open** | ***CR Closed Date:*** | <CR closed date> |
| ***Outcome:*** | **Approved** or **Rejected** or **Deferred** | ***Duplication:*** | <dupl. CR number> |
| ***Outcome explanation:*** | <document editor provides the explanation of the outcome, especially justifying a “rejected” outcome (duplicate CR is a valid reason for rejection) > | | |

\*\*\*\*\*\*\*\*\*\* FIRST MODIFIED SECTION \*\*\*\*\*\*\*\*\*\*

# 2 References

[1] 3GPP TR 21.905: “Vocabulary for 3GPP Specifications”.

[2] O-RAN Working Group 3, Near-Real-time RAN Intelligent Controller, Architecture & E2 General Aspects and Principles (E2GAP)

[3] ORAN Working Group 3, Near-Real-time RAN Intelligent Controller, E2 Application Protocol (E2AP).

[4] O-RAN Working Group 3, Near-Real-time RAN Intelligent Controller, E2 Service Model (E2SM)

[5] 3GPP TR 25.921: "Guidelines and principles for protocol description and error handling".

[6] ITU-T Recommendation X.680 (2002-07): "Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation".

[7] ITU-T Recommendation X.681 (2002-07): "Information technology – Abstract Syntax Notation One (ASN.1): Information object specification".

[8] ITU-T Recommendation X.691 (2002-07): "Information technology - ASN.1 encoding rules - Specification of Packed Encoding Rules (PER) "

[9] Reserved

[10] TS 38.410: “NG-RAN; NG general aspects and principles”.

[11] TS 38.413: “NG-RAN; NG Application Protocol (NGAP)”.

[12] Reserved

[13] TS 36.413: “E-UTRAN; S1 Application Protocol (S1AP)”.

[14] TS 38.420: “NG-RAN; Xn general aspects and principles”.

[15] TS 38.423: “NG-RAN; Xn Application Protocol (XnAP)”.

[16] TS 36.420: “E-UTRAN; X2 general aspects and principles”.

[17] TS 36.423: “E-UTRAN; X2 Application Protocol (X2AP)”.

[18] TS 38.470: “NG-RAN; F1 general aspects and principles”.

[19] TS 38.473: “NG-RAN; F1 Application Protocol (F1AP)”.

[20] TS 38.460: “NG-RAN; E1 general aspects and principles”.

[21] TS 37.483: “NG-RAN; E1 Application Protocol (E1AP)”.

[22] TS 38.331: “NR; Radio Resource Control (RRC) Protocol Specification”.

[23] TS 36.331: “E-UTRA; Radio Resource Control (RRC) Protocol Specification”.

[24] TS 38.323: “NR; Packet Data Convergence Protocol (PDCP) specification”.

[25] TS 38.322: “NR; Radio Link Control (RLC) protocol specification”.

[26] TS 38.321: “NR; Medium Access Control (MAC) protocol specification”.

[27] TS 25.321: “Medium Access Control (MAC) protocol specification”.

[28] TS 28.552: “Management and orchestration 5G performance measurements”.

[29] Reserved

[30] IETF RFC 5905 (2010-06): “Network Time Protocol Version 4: Protocol and Algorithms Specification”

[31] TS 37.340: “E-UTRA and NR Multiconnectivity Stage 2”.

\*\*\*\*\*\*\*\*\*\* END OF MODIFIED SECTION\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*\*\*\*\*\*\*

## 8.1 RAN parameters for Event Trigger

The RAN Parameters pertaining to “Event Trigger” that are used across multiple service styles are listed here. All RAN Parameters defined in section 8.1 may also be used to define Policy Condition, see also section 8.5.

8.1.1 Common RAN Parameters

This section contains the common set of RAN parameters that can be accessed via RAN parameters defined in each service style across multiple services.

#### 8.1.1.5 NG-RAN Data Radio Bearer

The following RAN Parameters are associated with the NG-RAN data radio bearer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 14001 | 5QI | ELEMENT | FALSE | *5QI* IE in TS 37.483 [21] Section 9.3.1.27 or TS 37.483 [21] Section 9.3.1.28 |  |
| 14002 | Packet Delay Budget | ELEMENT | FALSE | *Packet Delay Budget* IE in TS 37.483 [21] Section 9.3.1.47 |  |
| 14003 | Packet Error Rate | ELEMENT | FALSE | *Packet Error Rate* IE in TS 37.483 [21] Section 9.3.1.48 |  |
| 14004 | NG-RAN DRB Allocation and Retention Priority | STRUCTURE |  |  | *NG-RAN Allocation and Retention Priority* IE in TS 37.483 [21] Section 9.3.1.29 |
| 14005 | >Priority Level | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 14006 | >Pre-emption Capability | ELEMENT | FALSE | *Pre-emption Capability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 14007 | >Pre-emption Vulnerability | ELEMENT | FALSE | *Pre-emption Vulnerability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 14008 | Priority Level of the mapped QoS flows | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.51 |  |
| 14009 | QoS parameters for GBR flows in NG-RAN Bearer | STRUCTURE |  |  | *GBR QoS Flow Information* IE in TS 37.483 [21] Section 9.3.1.30 |
| 14010 | >Maximum Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14011 | >Guaranteed Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14012 | >Maximum Packet Loss Rate Downlink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14013 | >Maximum Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14014 | >Guaranteed Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14015 | >Maximum Packet Loss Rate Uplink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14016 | QoS Monitoring Enable Request | ELEMENT | FALSE | *QoS Monitoring Request* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 14017 | QoS Monitoring Reporting Frequency | ELEMENT | FALSE | *QoS Monitoring Reporting Frequency* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 14018 | QoS Monitoring Disabled | ELEMENT | FALSE | *QoS Monitoring Disabled* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 14019 | Reflective QoS Mapping | ELEMENT | FALSE | *RDI* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 14101 | List of cell groups to be added | LIST |  |  | *Cell Group To Add* IE in TS 37.483 [21] Section 9.3.3.11 |
| 14102 | >Cell group item | STRUCTURE |  |  | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 |
| 14103 | >>Cell Group ID | ELEMENT | TRUE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 14104 | >>Cell Group | STRUCTURE |  | 8.1.1.7 |  |
| 14201 | SDAP Configuration | STRUCTURE |  |  | *SDAP Configuration* IE in TS 37.483 [21] Section 9.3.1.39 |
| 14202 | >PDU Session ID | ELEMENT | TRUE | *PDU-SessionID* IE in TS 38.331 [22] Sec 6 |  |
| 14203 | >Default DRB | ELEMENT | FALSE | *Default DRB* IE in TS 37.483 [21] Section 9.3.1.39 |  |
| 14210 | >PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 14301 | PDCP Configuration | STRUCTURE |  |  | *PDCP Configuration* IE in TS 37.483 [21] Section 9.3.1.38 |
| 14302 | >RLC mode | ELEMENT | FALSE | *RLC mode* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14303 | >PDCP Duplication | ELEMENT | FALSE | *PDCP Duplication* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14304 | >UL Data Split Threshold | ELEMENT | FALSE | *UL Data Split Threshold* IE in TS 37.483 [21] Section 9.3.1.43 |  |
| 14305 | >PDCP Re-establishment | ELEMENT | FALSE | *PDCP Re-establishment* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14306 | >PDCP Data Recovery | ELEMENT | FALSE | *PDCP Data Recovery* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14307 | >Out-of-Order Delivery | ELEMENT | FALSE | *Out of Order Delivery* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14308 | >PDCP Status Report Indication | ELEMENT | FALSE | *PDCP Status Report Indication* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14309 | >Number of PDCP duplication | ELEMENT | FALSE | *Additional PDCP duplication Information* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14310 | >UL More than one RLC | STRUCTURE |  |  | *moreThanOneRLC* IE in TS 38.331 [22] Section 6 |
| 14311 | >>Primary Path | STRUCTURE |  |  | *primaryPath* IE in TS 38.331 [22] Section 6 |
| 14312 | >>>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 |  |
| 14313 | >>>Logical Channel ID | ELEMENT | FALSE | *logicalChannelIdentity* IE in TS 38.331 [22] Sec 6 |  |
| 14314 | >UL More than two RLC | STRUCTURE |  |  | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 |
| 14315 | >>Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 |  |
| 14316 | >>Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 |  |

#### 8.1.1.6 QoS flow

The following RAN Parameters are associated with the NG-RAN QoS flow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 15001 | 5QI | ELEMENT | FALSE | *5QI* IE in TS 37.483 [21] Section 9.3.1.27 or TS 37.483 [21] Section 9.3.1.28 |  |
| 15002 | Packet Delay Budget | ELEMENT | FALSE | *Packet Delay Budget* IE in TS 37.483 [21] Section 9.3.1.47 |  |
| 15003 | Packet Error Rate | ELEMENT | FALSE | *Packet Error Rate* IE in TS 37.483 [21] Section 9.3.1.48 |  |
| 15004 | NG-RAN DRB Allocation and Retention Priority | STRUCTURE |  |  | *NG-RAN Allocation and Retention Priority* IE in TS 37.483 [21] Section 9.3.1.29 |
| 15005 | >Priority Level | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 15006 | >Pre-emption Capability | ELEMENT | FALSE | *Pre-emption Capability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 15007 | >Pre-emption Vulnerability | ELEMENT | FALSE | *Pre-emption Vulnerability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 15008 | Priority Level of the mapped QoS flows | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.51 |  |
| 15009 | QoS parameters for GBR flows in NG-RAN Bearer | STRUCTURE |  |  | *GBR QoS Flow Information* IE in TS 37.483 [21] Section 9.3.1.30 |
| 15010 | >Maximum Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15011 | >Guaranteed Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15012 | >Maximum Packet Loss Rate Downlink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15013 | Maximum Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15014 | >Guaranteed Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15015 | >Maximum Packet Loss Rate Uplink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15016 | QoS Monitoring Enable Request | ELEMENT | FALSE | *QoS Monitoring Request* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 15017 | QoS Monitoring Reporting Frequency | ELEMENT | FALSE | *QoS Monitoring Reporting Frequency* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 15018 | QoS Monitoring Disabled | ELEMENT | FALSE | *QoS Monitoring Disabled* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 15019 | Reflective QoS Mapping | ELEMENT | FALSE | *RDI* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 15020 | Redundant QoS Flow Indicator | ELEMENT | FALSE | *Redundant QoS Flow Indicator* IE in TS 37.483 [21] Section 9.3.1.74 |  |

#### 8.1.1.7 Cell Group

The following RAN Parameters are associated with the NR cell group item.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 15502 | UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 15503 | RAT Type | ELEMENT | FALSE | *RAT Type* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 15504 | Number of Tunnels | ELEMENT | FALSE | *Number of Tunnels* IE in TS 37.483 [21] Section 9.3.1.11 |  |

#### 8.1.1.11 E2 Node

The following RAN Parameters are associated with the E2 node.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 17001 | CHOICE E2 Node Component Type | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.26 |
| 17010 | >NG-RAN gNB | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17011 | >>Global gNB ID | STRUCTURE |  |  | TS 38.413 [11] Section 9.3.1.6 |
| 17012 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 17013 | >>>CHOICE *gNB ID* | STRUCTURE |  |  | *gNB ID* IE in TS 38.413 [11] Section 9.3.1.6 |
| 17014 | >>>>*gNB ID* | STRUCTURE |  |  | *gNB ID* IE in TS 38.413 [11] Section 9.3.1.6 |
| 17015 | >>>>>gNB ID | ELEMENT | FALSE | *gNB ID* IE *in* TS 38.413 [11] Section 9.3.1.6 |  |
| 17016 | >>List of NR served cells | LIST |  |  | *List of Served Cells NR* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17017 | >>>Served NR cell item | STRUCTURE |  |  | Individual cell item in the *List of Served Cells* NR |
| 17028 | >>>>Served NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17018 | >>Count of list of NR served cells | ELEMENT | FALSE | INTEGER (1..16384) |  |
| 17019 | >>List of NR neighbor cells | LIST |  |  | *Neighbor Information* IE in TS 38.423 [15] Section 9.2.2.13 |
| 17020 | >>>NR neighbor cell item | STRUCTURE |  |  | Individual cell item in the *Neighor Information* IE NR |
| 17031 | >>>>Neighbor NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17021 | >>Number of RRC connections | ELEMENT | FALSE | *Number of RRC connections* IE in TS 38.423 [15] Section 9.2.2.57 |  |
| 17022 | >>gNB Performance Measurements | STRUCTURE |  | 8.1.1.15 |  |
| 17050 | >en-gNB | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17051 | >>Global en-gNB ID | STRUCTURE |  |  | TS 36.423 [17] Section 9.2.112 |
| 17052 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 |  |
| 17053 | >>>CHOICE *en-gNB ID* | STRUCTURE |  | *en-gNB ID* IE in TS 36.423 [17] Section 9.2.112 |  |
| 17054 | >>>>*en-gNB ID* | STRUCTURE |  | *en-gNB ID* IE in TS 36.423 [17] Section 9.2.112 |  |
| 17055 | >>>>>en-gNB ID | ELEMENT | FALSE | *en-gNB ID* IE in TS 36.423 [17] Section 9.2.112 |  |
| 17056 | >>List of served NR cells | LIST |  |  | *List of Served Cells NR* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17057 | >>>Served NR cell item | STRUCTURE |  |  | Individual cell item in the *List of Served Cells NR* IE |
| 17068 | >>>>Served NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17058 | >>Count of list of NR served cells | ELEMENT | FALSE | INTEGER (1..16384) |  |
| 17059 | >>List of NR neighbour cells | LIST |  |  | *Neighbor Information* IE in TS 38.423 [15] Section 9.2.2.13 |
| 17060 | >>>NR neighbor cell item | STRUCTURE |  |  | Individual cell item in *Neighbor Information* IE |
| 17065 | >>>>NR neighbor cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17061 | >>gNB Performance Measurements | STRUCTURE |  | 8.1.1.15 | *gNB Measurements* IE in Sec 8.1.1.15 |
| 17070 | >ng-eNB | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17071 | >>ng-eNB ID | STRUCTURE |  |  | *ng-eNB ID* IE TS 38.413 [11] Section 9.2.2.2 |
| 17072 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.1.6 |  |
| 17073 | >>>CHOICE *ng-eNB ID* | STRUCTURE |  |  | *Ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |
| 17074 | >>>>Macro *ng-eNB ID* | STRUCTURE |  |  | *Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |
| 17075 | >>>>>Macro *ng-eNB ID* | ELEMENT | FALSE | *Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |  |
| 17076 | >>>>Short Macro *ng-eNB ID* | STRUCTURE |  |  | *Short Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |
| 17077 | >>>>>Short Macro *ng-eNB ID* | ELEMENT | FALSE | *Short Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |  |
| 17078 | >>>>Long Macro *ng-eNB ID* | STRUCTURE |  |  | *Long Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |
| 17079 | >>>>>Long Macro *ng-eNB ID* | ELEMENT | FALSE | *Long Macro ng-eNB ID* IE in TS 38.413 [11] Section 9.2.2.2 |  |
| 17080 | >>List of E-UTRA served cells | LIST |  |  | *List of Served Cells E-UTRA* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17081 | >>>Served E-UTRA cell item | STRUCTURE |  |  | Individual cell item in *List of Served Cells E-UTRA* IE |
| 17092 | >>>>Served E-UTRA cell | STRUCTURE |  | 8.1.1.2 |  |
| 17082 | >>Count of list of E-UTRA served cells | ELEMENT | FALSE | INTEGER (0..16384) |  |
| 17083 | >>List of E-UTRA neighbor cells | LIST |  |  | *Neighbor Information E-UTRA* IE in TS 38.423 [15] Section 9.2.2.14 |
| 17084 | >>>E-UTRA neighbor cell item | STRUCTURE |  |  | Individual cell item in *Neighbor Information E-UTRA* IE |
| 17095 | >>>>E-UTRA neighbor cell | STRUCTURE |  | 8.1.1.2 |  |
| 17085 | >>Number of RRC connections | ELEMENT | FALSE | *Number of RRC connections* IE in TS 38.423 [15] Section 9.2.2.57 |  |
| 17086 | >>eNB Performance Measurements | STRUCTURE |  | 8.1.1.18 |  |
| 17100 | >NG-RAN gNB CU-CP | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17101 | >>Global gNB CU-CP ID | STRUCTURE |  |  | TS 38.413 [11] Section 9.3.1.6 |
| 17102 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 17103 | >>>CHOICE *gNB ID* | STRUCTURE |  |  | *gNB ID* IE in TS 38.413 [11] Section 9.3.1.6 |
| 17104 | >>>>*gNB ID* | STRUCTURE |  |  | *gNB ID* IE in TS 38.413 [11] Section 9.3.1.6 |
| 17105 | >>>>>gNB ID | ELEMENT | FALSE | *gNB ID* IE *in* TS 38.413 [11] Section 9.3.1.6 |  |
| 17107 | >>List of activated NR cells | LIST |  |  | *Cells to be Activated List* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17108 | >>>NR cell item | STRUCTURE |  |  | *Cells to be Activated Item* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17109 | >>>>NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17110 | >>>>Available PLMN List | LIST |  |  | *Available PLMN List* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17111 | >>>>>PLMN Item | STRUCTURE |  |  | *Available PLMN Item IEs* IE in TS 38.473 [19] Section 9.3.1.65 |
| 17112 | >>>>>>PLMN ID | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 17113 | >>List of de-activated NR cells | LIST |  |  | *Cells to be Deactivated List* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17114 | >>>NR cell item | STRUCTURE |  |  | Individual cell item in *Cells to be Deactivated List* IE |
| 17515 | >>>>NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17115 | >>List of barred NR cells | LIST |  |  | *Cells to be barred List* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17116 | >>>NR cell item | STRUCTURE |  |  | Individual cell item in *Cells to be barred List* IE |
| 17517 | >>>>NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17117 | >>Count of list of NR served cells | ELEMENT | FALSE | INTEGER (0..16384) |  |
| 17118 | >>List of NR neighbor cells | LIST |  |  | *Neighbour Cell Information List* IE in TS 38.473 [19] Section 9.2.1.10 |
| 17119 | >>>NR neighbor cell item | STRUCTURE |  |  | Individual Cell Item in *Neighbour Cell Information List* IE |
| 17520 | >>>>NR neighbor cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17120 | >>Number of RRC connected UEs | ELEMENT | FALSE | *Number of RRC connections* IE in TS 38.423 [15] Section 9.2.2.57 |  |
| 17121 | >>gNB CU-CP Performance Measurements | STRUCTURE |  | 8.1.1.12 |  |
| 17130 | >NG-RAN gNB DU | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17132 | >>gNB-DU ID | ELEMENT | FALSE | *gNB-DU ID* IE in TS 38.473 [19] Section 9.3.1.9 |  |
| 17133 | >>List of NR served cells | LIST |  |  | *List of Served Cells NR*  IE in TS 38.423 [15] Section 9.1.3.1 |
| 17134 | >>>Served NR cell item | STRUCTURE |  |  | Individual cell item in *List of Served Cells* NR IE |
| 17535 | >>>>Served NR cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17135 | >>gNB DU Measurements | STRUCTURE |  | 8.1.1.14 |  |
| 17140 | >NG-RAN gNB CU-UP | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17141 | >>gNB CU-UP ID | ELEMENT | TRUE | *gNB-CU-UP ID* IE in TS 37.483 [21] Section 9.3.1.15 |  |
| 17142 | >>gNB CU-UP Capacity | ELEMENT | FALSE | *gNB-CU-UP Capacity* IE in TS 37.483 [21] Section 9.3.1.56 |  |
| 17143 | >>gNB CU-UP Performance Measurements | STRUCTURE |  | 8.1.1.13 |  |
| 17150 | >eNB | STRUCTURE |  |  | O-RAN WG3 E2AP Section 9.2.27 |
| 17151 | >>eNB ID | STRUCTURE |  |  | *eNB ID* IE TS 36.423 [17] Section 9.2.2.2 |
| 17152 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 |  |
| 17153 | >>>CHOICE *eNB ID* | STRUCTURE |  |  | *Global eNB ID* IE in TS 36.423 [17] Section 9.2.22 |
| 17154 | >>>>Macro eNB ID | STRUCTURE |  |  | *Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |
| 17155 | >>>>>Macro eNB ID | ELEMENT | FALSE | *Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |  |
| 17156 | >>>>Home eNB ID | STRUCTURE |  |  | *Home eNB ID* IE in TS 36.423 [17] Section 9.2.22 |
| 17157 | >>>>>Home eNB ID | ELEMENT | FALSE | *Home eNB ID* IE in TS 36.423 [17] Section 9.2.22 |  |
| 17158 | >>>>Short Macro eNB ID | STRUCTURE |  |  | *Short Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |
| 17159 | >>>>>Short Macro eNB ID | ELEMENT | FALSE | *Short Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |  |
| 17160 | >>>>Long Macro eNB ID | STRUCTURE |  |  | *Long Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |
| 17161 | >>>>>Long Macro eNB ID | ELEMENT | FALSE | *Long Macro eNB ID* IE in TS 36.423 [17] Section 9.2.22 |  |
| 17162 | >>List of E-UTRA served cells | LIST |  |  | *List of Served Cells E-UTRA* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17163 | >>>Served E-UTRA cell item | STRUCTURE |  |  | Individual cell item in *List of Served Cells E-UTRA* IE |
| 17564 | >>>>Served E-UTRA cell | STRUCTURE |  | 8.1.1.2 |  |
| 17164 | >>Count of list of E-UTRA served cells | ELEMENT | FALSE | INTEGER (0..16384) |  |
| 17165 | >>List of E-UTRA neighbor cells | LIST |  |  | *Neighbor Information E-UTRA* IE in TS 38.423 [15] Section 9.2.2.14 |
| 17166 | >>>E-UTRA neighbor cell item | STRUCTURE |  |  | Individual cell item in *Neighbor Information E-UTRA* IE |
| 17567 | >>>>E-UTRA neighbor cell | STRUCTURE |  | 8.1.1.2 |  |
| 17167 | >>Number of RRC connected UEs | ELEMENT | FALSE | *Number of RRC connections* IE in TS 38.423 [15] Section 9.2.2.57 |  |
| 17168 | >>List of NR neighbor cells | LIST |  |  | *Neighbor Information* IE in TS 38.423 [15] Section 9.2.2.13 |
| 17169 | >>>NR neighbor cell item | STRUCTURE |  |  | Individual cell item in *Neighbor Information* IE |
| 17570 | >>>>NR neighbor cell | STRUCTURE |  | 8.1.1.1 |  |
| 17170 | >>eNB Performance Measurements | STRUCTURE |  | 8.1.1.18 |  |
| 17200 | TAI Support List | LIST |  |  | *TAI Support List* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17201 | >TAI Support Item | STRUCTURE |  |  | *TAI Support Item* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17202 | >>TAC | ELEMENT | FALSE | *TAC* IE in TS 38.423 [15] Section 9.2.2.5 |  |
| 17203 | >>List of Broadcast PLMNs | LIST |  |  | *Broadcast PLMNs* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17204 | >>>Broadcast PLMN Item | STRUCTURE |  |  | *Broadcast PLMNs* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17205 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 17206 | >>>TAI Slice Support List | LIST |  |  | *TAI Slice Support List* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17207 | >>>>Slice Support Item | STRUCTURE |  |  | *Slice Support Item* IE in TS 38.423 [15] Section 9.2.3.20 |
| 17208 | >>>>>S-NSSAI | STRUCTURE |  |  | *S-NSSAI* IE in TS 38.473 [19] Section 9.3.1.38 |
| 17209 | >>>>>>SST | ELEMENT | TRUE | *SST* IE in TS 38.473 [19] Section 9.3.1.38 |  |
| 17210 | >>>>>>SD | ELEMENT | FALSE | *SD* IE in TS 38.473 [19] Section 9.3.1.38 |  |
| 17211 | >>>Count of TAI Slice Support List | ELEMENT | FALSE | INTEGER (0..1024) |  |
| 17212 | >>>NR CGI Support List | LIST |  |  | *List of Served Cells NR* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17213 | >>>>NR CGI Cell Support Item | STRUCTURE |  |  | Individual cell item in *List of Served Cells NR* IE |
| 17614 | >>>>>NR CGI Cell | STRUCTURE |  | *NR Cell* IE in 8.1.1.1 |  |
| 17214 | >>>E-UTRA CGI Support List | LIST |  |  | *List of Served Cells E-UTRA* IE in TS 38.423 [15] Section 9.1.3.1 |
| 17215 | >>>>E-UTRA CGI Cell Support Item | STRUCTURE |  |  | Individual cell item in *List of Served Cells E-UTRA* IE |
| 17616 | >>>>>E-UTRA CGI | STRUCTURE |  | *E-UTRA Cell* IE in 8.1.1.2 |  |
| 17216 | >>>QoS Parameters Support List | LIST |  |  | *QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.12 |
| 17217 | >>>>QoS Parameters Support Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.12 |
| 17218 | >>>>>CHOICE QoS Parameters Support Item | STRUCTURE |  |  |  |
| 17219 | >>>>>>NG-RAN QoS Support Item | STRUCTURE |  | 8.1.1.6 |  |
| 17221 | >>>>>>E-UTRA QoS Support Item | STRUCTURE |  | 8.1.1.9 |  |
| 17223 | >>Count of list of broadcast PLMNs | ELEMENT | FALSE | INTEGER (0..12) |  |
| 17224 | Count of TAI Support List | ELEMENT | FALSE | INTEGER (0..256) |  |

#### 8.1.1.17 UE Context Information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 21501 | Master Node | STRUCTURE |  | 8.1.1.11 |  |
| 21502 | >gNB Measurements | STRUCTURE |  | 8.1.1.15 |  |
| 21503 | CHOICE Primary Cell of MCG | STRUCTURE |  |  |  |
| 21504 | >NR Cell | STRUCTURE |  | 8.1.1.1 | For NR SpCell |
| 21505 | >E-UTRA Cell | STRUCTURE |  | 8.1.1.2 | For E-UTRA PCell |
| 21506 | List of Secondary Cells of MCG | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 21507 | >SCell Item | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 21508 | >>CHOICE SCell | STRUCTURE |  |  |  |
| 21509 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 | For NR SCell |
| 21510 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 | For E-UTRA SCell |
| 21511 | Secondary Node | STRUCTURE |  | 8.1.1.11 |  |
| 21512 | >gNB Measurements | STRUCTURE |  | 8.1.1.15 |  |
| 21513 | CHOICE Primary Cell of SCG | STRUCTURE |  |  | *PSCell* IE as defined in TS 38.331 [22] or the structure defined in TS 38.473 [19] clause 9.2.2.1 |
| 21514 | >NR Cell | STRUCTURE |  | 8.1.1.1 |  |
| 21515 | >E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  |
| 21516 | List of Secondary Cells of SCG | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 21517 | >SCell Item | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 21518 | >>CHOICE SCell | STRUCTURE |  |  |  |
| 21519 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 |  |
| 21520 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  |
| 21521 | List of PDU Sessions | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 21522 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 21543 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 21523 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 21524 | >>List of DRBs | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 21525 | >>>DRB Item | STRUCTURE |  |  |  |
| 21546 | >>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 21547 | >>>>DRB | STRUCTURE |  | 8.1.1.5 |  |
| 21526 | >>>>List of QoS flows mapped to DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 21527 | >>>>>QoS Flow Item | STRUCTURE |  |  |  |
| 21548 | >>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 21549 | >>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 21528 | List of Neighbor cells | LIST |  |  | *measResultNeighCells* IE in TS 38.331 [22] | |
| 21529 | >Neighbor Cell Item | STRUCTURE |  |  |  | |
| 21530 | >>CHOICE Neighbor Cell | STRUCTURE |  |  |  | |
| 21531 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 | *MeasResultNR* IE in TS 38.331 [22] | |
| 21532 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 | *MeasResultEUTRA* IE in TS 38.331 [22] | |

#### 8.1.1.18 eNB Measurements

*Editor’s Note: FFS*

### 8.1.2 RAN Parameters for Call Process Breakpoint

#### 8.1.2.0 Call process type IDs

The RAN Parameters for the Event Trigger style 2 are defined based on the following call process type.

|  |  |  |
| --- | --- | --- |
| **Call Process Type ID** | **Call Process Type** | **RAN Parameters** |
| 1 | UE Context Management | Defined in Section 8.1.2.1 |
| 2 | Bearer Context Management | Defined in Section 8.1.2.2 |
| 3 | Mobility Management | Defined in Section 8.1.2.3 |
| 4 | Multi-RAT Dual Connectivity Management | Defined in Section 8.1.2.4 |
| 5 | Radio Resource Control Management | Defined in Section 8.1.2.5 |
| 6 | PDU Session Management | Defined in Section 8.1.2.6 |

#### 8.1.2.1 UE Context Management

The RAN Parameters for the call process type of “UE Context Management” are defined as follows.

##### 8.1.2.1.1 UE Context Setup

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter xID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | ***Semantics Description*** |
| 25001 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25002 | >CHOICE *Primary Cell* | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on*Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25003 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR Cell* IE in TS 38.423 [15] clause 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25063 | >>E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25004 | List of secondary cells to be setup | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25005 | >Secondary cell to be setup Item | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 25006 | >>CHOICE Secondary cell | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 25007 | >>>NR SCell | STRUCTURE |  | 8.1.1.1 |  |
| 25008 | >>>E-UTRA SCell | STRUCTURE |  | 8.1.1.2 |  |
| 25009 | >>>Scell UL Configured | ELEMENT | FALSE | *Cell UL Configured* IE in TS 38.473 [19] clause 9.3.1.33 |  |
| 25010 | Number of secondary cells to be setup | ELEMENT | FALSE | INTEGER (1..32) | Count of list of secondary cells to be setup |
| 25011 | List of DRBs for setup | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25012 | >DRB item for setup | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25033 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 25034 | >>CHOICE *DRB Type* | STRUCTURE |  |  | The individual DRB could either be an NG-RAN DRB or a E-UTRA DRB |
| 25035 | >>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 25036 | >>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 25013 | >List of QoS flows for setup | LIST |  |  | This is the list of QoS flows multiplexed to an NG-RAN DRB. The structuring is based on *QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25014 | >>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25045 | >>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.12 |  |
| 25046 | >>>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 25015 | List of PDU sessions for setup | LIST |  |  | ***PDU Session Resource Setup Request List* IE in TS 38.413 Section 9.2.1.1** |
| 25016 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resource Setup Item* IE in TS 38.413 Section 9.2.1.1 |
| 25057 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 25058 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 25017 | >>List of QoS flows for setup | LIST |  |  | *QoS Flow Setup Request Item* IE in TS 38.413 Section 9.3.4.1 |
| 25018 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Setup Request Item* IE in TS 38.413 Section 9.3.4.1 |
| 25019 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 25020 | >>>>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 25021 | Number of DRBs for setup | ELEMENT | FALSE | INTEGER (0..64) | Count of list of DRBs for setup |
| 25022 | UE Aggregate Maximum Bit Rate | STRUCTURE |  |  | *UE Aggregate Maximum Bit Rate* IE in TS 36.423 [17] Section 9.2.12 |
| 25023 | >UE Aggregate Maximum Bit Rate Downlink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Downlink* IE in TS 36.423 [17] clause 9.2.12 |  |
| 25024 | >UE Aggregate Maximum Bit Rate Uplink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Uplink* IE in TS 36.423 [17] clause 9.2.12 |  |

##### 8.1.2.1.2 UE Context Modification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | ***Semantics Description*** |
| 25101 | Primary Cell ID | | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25102 | >CHOICE *Primary Cell* | | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on *Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25103 | >>NR SpCell | | STRUCTURE |  | 8.1.1.1 | *NR* IE in TS 38.423 [15] clause 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25104 | >>E-UTRA PCell | | STRUCTURE |  | 8.1.1.2 | *E-UTRA* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25105 | List of secondary cells to be setup | | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25106 | >Secondary cell to be setup Item | | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 25107 | >>CHOICE Secondary cell | | STRUCTURE |  |  | *Scell To Be Setup Item* IEs IE in TS 38.473 [19] clause 9.2.2.1 |
| 25108 | >>>NR SCell | | STRUCTURE |  | 8.1.1.1 |  |
| 25109 | >>>E-UTRA SCell | | STRUCTURE |  | 8.1.1.2 |  |
| 25110 | >>>Scell UL Configured | | ELEMENT | FALSE | *Cell UL Configured* IEin TS 38.473 [19] [Q] clause 9.3.1.33 |  |
| 25111 | Number of secondary cells to be setup | | ELEMENT | FALSE | INTEGER (1..32) | Count of list of secondary cells to be setup |
| 25112 | List of Scells to be removed | | LIST |  |  | *SCell To Be Removed List* IE in TS 38.473 [19] clause 9.2.2.7 |
| 25113 | >Scell to be removed Item | | STRUCTURE |  |  | *SCell to Be Removed Item IEs* IE in TS 38.473 [19] clause 9.2.2.7 |
| 25114 | >>CHOICE Secondary cell | | STRUCTURE |  |  | A UE can have either NR Cells as secondary cells or E-UTRA cells as secondary cells. |
| 25115 | >>>NR SCell | | STRUCTURE |  | 8.1.1.1 |  |
| 25116 | >>>E-UTRA SCell | | STRUCTURE |  | 8.1.1.2 |  |
| 25117 | >>>Scell UL Configured | | ELEMENT | FALSE | *Cell UL Configured* IEin TS 38.473 [19] [Q] clause 9.3.1.33 |  |
| 25118 | Number of secondary cells to be removed | | ELEMENT | FALSE | INTEGER (1..32) | Count of list of secondary cells to be removed |
| 25119 | List of DRBs for setup | | LIST |  |  | DRB to Be Setup List IE in TS 38.473 [19] clause 9.2.2.1 |
| 25120 | >DRB item for setup | | STRUCTURE |  |  | DRB to Be Setup Item IE in TS 38.473 [19] clause 9.2.2.1 |
| 25161 | >>DRB ID | | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 25162 | >>CHOICE *DRB Type* | | STRUCTURE |  |  | DRB could either be an NG-RAN DRB or a E-UTRA DRB |
| 25163 | >>>NG-RAN DRB | | STRUCTURE |  | 8.1.1.5 |  |
| 25164 | >>>E-UTRA DRB | | STRUCTURE |  | 8.1.1.9 |  |
| 25121 | >>List of QoS flows for setup | | LIST |  |  | This is the list of QoS flows multiplexed to an NG-RAN DRB for setup. The structuring is based on *QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25122 | >>>QoS flow Item | | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25166 | >>>>QoS flow Identifier | | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.12 |  |
| 25167 | >>>>QoS flow | | STRUCTURE |  | 8.1.1.6 |  |
| 25123 | List of PDU sessions for setup | | LIST |  |  | *PDU Session Resource Setup Request List* IE in TS 38.413 Section 9.2.1.1 |
| 25124 | >PDU Session Item | | STRUCTURE |  |  | *PDU Session Resource Setup Item* IE in TS 38.413 Section 9.2.1.1 |
| 25175 | >>PDU Session ID | | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 25176 | >>PDU Session | | STRUCTURE |  | 8.1.1.16 |  |
| 25125 | >>List of QoS flows for setup | | LIST |  |  | *QoS Flow Setup Request Item* IE in TS 38.413 Section 9.3.4.1 |
| 25126 | >>>QoS flow Item | | STRUCTURE |  |  | *QoS Flow Setup Request Item* IE in TS 38.413 Section 9.3.4.1 |
| 25177 | >>>>QoS flow Identifier | | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 25178 | >>>>QoS flow | | STRUCTURE |  | 8.1.1.6 |  |
| 25127 | List of DRBs to be modified | | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25128 | >DRB item for modification | | STRUCTURE |  | 8.1.1.5 | *DRB to Be Setup Item* IE in TS 38.473 [19] clause 9.2.2.1 |
| 25129 | >>List of QoS flows remapped | | LIST |  |  | This is the list of QoS flows remapped to an NG-RAN DRB. The structuring is based on *QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25130 | >>>QoS flow Item | | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.12 |
| 25181 | >>>>QoS flow Identifier | | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [12] Section 9.3.1.12 |  |
| 25182 | >>>>QoS flow | | STRUCTURE |  | 8.1.1.6 |  |
| 25131 | List of PDU sessions for modification | | LIST |  |  | For modification of PDU sessions. The structuring is based on *PDU Session Resource Modify Request List* IE in TS 38.413 Section 9.2.1.5 |
| 25132 | >PDU Session Item | | STRUCTURE |  |  | *PDU Session Resource Modify Request Item* IE in TS 38.413 Section 9.2.1.5 |
| 25183 | >>PDU Session ID | | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 25184 | >>PDU Session | | STRUCTURE |  | 8.1.1.16 |  |
| 25133 | >>List of QoS flows remapped | | LIST |  |  | Modified list of QoS flows within the PDU Session. Structuring is based on *QoS Flow Add or Modify Request List* IE in TS 38,413 Section 9.3.4.3 |
| 25134 | >>>QoS flow Item | | STRUCTURE |  |  | *QoS Flow Add or Modify Request Item* IE in TS 38.413 Section 9.3.4.3 |
| 25185 | >>>>QoS flow identifier | | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 25186 | >>>>QoS flow | | STRUCTURE |  | 8.1.1.6 |  |
| 25135 | Number of DRBs to be modified | | ELEMENT | FALSE |  | Count of list of DRBs to be modified |
| 25136 | List of DRBs to be released | | LIST |  |  | *DRB To Be Released List* IE in TS 38.473 [19] Section 9.2.2.7 |
| 25137 | >DRB item for release | | STRUCTURE |  |  | *DRB To Be Released Item* IE in TS 38.473 [19] Section 9.2.2.7 |
| 25188 | >>DRB ID | | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 25189 | >>CHOICE *DRB Type* | | STRUCTURE |  |  | DRB could either be an NG-RAN DRB or a E-UTRA DRB |
| 25190 | >>>NG-RAN DRB | | STRUCTURE |  | 8.1.1.5 |  |
| 25191 | >>>E-UTRA DRB | | STRUCTURE |  | 8.1.1.9 |  |
| 25138 | Number of DRBs to be released | | ELEMENT | FALSE |  | Count of list of DRBs to be released |
| 25139 | UE Aggregate Maximum Bit Rate | | STRUCTURE |  |  | *UE Aggregate Maximum Bit Rate* IE in TS 36.423 [17] Section 9.2.12 |
| 25140 | >UE Aggregate Maximum Bit Rate Downlink | | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Downlink* IE in TS 36.423 [17] clause 9.2.12 |  |
| 25141 | >UE Aggregate Maximum Bit Rate Uplink | | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Uplink* IE in TS 36.423 [17] clause 9.2.12 |  |
| 25151 | | Target Cell ID | STRUCTURE |  |  | This is for the target cell of the UE for HO. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25152 | | >CHOICE *Target Cell* | STRUCTURE |  |  | The target cell could either be a target NR primary cell or a target LTE primary cell. The structuring is based on *Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25153 | | >>Target NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR* IE in TS 38.423 [15] clause 9.2.3.25 |
| 25154 | | >>Target E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA* IE in TS 38.423 [15] clause 9.2.3.25 |

##### 8.1.2.1.3 UE Context Release

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | ***Semantics Description*** |
| 25201 | List of candidate cells to be cancelled | LIST |  |  | *Candidate Cells To Be Cancelled List* IE in TS 38.473 [19] Section 9.2.2.4 |
| 25202 | >Candidate cell to be cancelled Item | STRUCTURE |  |  | *Candidate Cell to be Cancelled Item* IE in TS 38.473 [19] Section 9.2.2.4 |
| 25203 | >>CHOICE Candidate cell | STRUCTURE |  |  | *Candidate Cell to be Cancelled Item* IE in TS 38.473 [19] Section 9.2.2.4 |
| 25204 | >>>NR SCell | STRUCTURE |  | 8.1.1.1 |  |
| 25205 | >>>E-UTRA SCell | STRUCTURE |  | 8.1.1.2 |  |

#### 8.1.2.2 Bearer Context Management

The RAN Parameters for the call process type of “Bearer Context Management” are defined as follows.

##### 8.1.2.2.1 Bearer Context Setup

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 26101 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 26102 | CHOICE *DRB Type* | STRUCTURE |  |  | DRB could either be an NG-RAN DRB or a E-UTRA DRB |
| 26103 | >NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 26104 | >E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 26105 | List of QoS Flows to be setup in DRB | LIST |  |  | This is the list of QoS flows multiplexed to an NG-RAN DRB for setup. The structuring is based on *QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.12 |
| 26106 | >QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] clause 9.3.1.12 |
| 26107 | >>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] clause 9.3.1.24 |  |
| 26108 | >>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 26109 | Count of list of QoS Flows to be setup in DRB | ELEMENT | FALSE | INTEGER (0..64) |  |
| 26110 | Cell Group List to Add | STRUCTURE |  |  | *CellGroupList* IE in TS 37.483 [21] Section 9.3.1.11 |
| 26111 | >Cell Group Item | STRUCTURE |  |  |  |
| 26122 | >>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 |  |
| 26123 | >>Cell Group | STRUCTURE |  | 8.1.1.7 |  |
| 26112 | Logical Channel ID | ELEMENT | FALSE | *LogicalChannelIdentity* IE in TS 38.331 [22] clause 6 |  |
| 26113 | Channel Access Priority | ELEMENT | FALSE | *channelAccessPriority* IE in TS 38.331 [22] |  |
| 26114 | L2 Bearer State Information | STRUCTURE |  | 8.1.1.8 |  |
| 26115 | Count of cell group list to be added | ELEMENT | FALSE | INTEGER (0..4) |  |

##### 8.1.2.2.2 Bearer Context Modification

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | | **RAN Parameter Definition** | | **Semantics Description** |
| 26201 | DRB ID | ELEMENT | TRUE | | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 | |  |
| 26202 | CHOICE *DRB Type* | STRUCTURE |  | |  | | DRB could either be an NG-RAN DRB or a E-UTRA DRB |
| 26203 | >NG-RAN DRB | STRUCTURE |  | | 8.1.1.1 | |  |
| 26204 | >E-UTRA DRB | STRUCTURE |  | | 8.1.1.2 | |  |
| 26205 | Logical Channel ID | ELEMENT | TRUE | | *LogicalChannelIdentity* IE in TS 38.331 [22] clause 6 | |  |
| 26206 | CHOICE RLC-Config | STRUCTURE |  | |  | | *RLC-Config* IE in TS 38.331 [22] |
| 26207 | >AM | STRUCTURE | |  | |  | *am* IE in TS 38.331 [22] |
| 26208 | >>UL AM RLC | STRUCTURE | |  | |  | *ul-AM-RLC* IE in TS 38.331 [22] |
| 26209 | >>>Poll Retransmit | ELEMENT | | FALSE | | *t-PollRetransmit* IE in TS 38.331 [22] |  |
| 26210 | >>>Max Retransmission Threshold | ELEMENT | | FALSE | | *maxRetxThreshold* IE in TS 38.331 [22] |  |
| 26211 | >>>Poll PDU | ELEMENT | | FALSE | | *pollPDU* IE in TS 38.331 [22] |  |
| 26212 | >>>Poll Byte | ELEMENT | | FALSE | | *pollByte* IE in TS 38.331 [22] |  |
| 26213 | >>DL AM RLC | STRUCTURE | |  | |  | *dl-AM-RLC* IE in TS 38.331 [22] |
| 26214 | >>>Reassembly | ELEMENT | | FALSE | | *t-Reassembly* IE in TS 38.331 [22] |  |
| 26215 | >>>Status Prohibit | ELEMENT | | FALSE | | *t-StatusProhibit* IE in TS 38.331 [22] |  |
| 26216 | >UM Bi-directional | STRUCTURE | |  | |  | *um-Bi-Directional* IE in TS 38.331 [22] |
| 26217 | >>UL UM RLC | ELEMENT | | FALSE | |  | *UL-UM-RLC* IE in TS 38.331 [22] |
| 26218 | >>DL UM RLC | STRUCTURE | |  | |  | *DL-UM-RLC* IE in TS 38.331 [22] |
| 26219 | >>>Reassembly | ELEMENT | | FALSE | | *t-Reassembly* IE in TS 38.331 [22] |  |
| 26220 | >UM Uni-directional UL | STRUCTURE | |  | |  | *um-Uni-Directional-UL* IE in TS 38.331 [22] |
| 26221 | >>UL UM RLC | ELEMENT | | FALSE | | *ul-UM-RLC* IE in TS 38.331 [22] |  |
| 26222 | >UM Uni-directional DL | ELEMENT | | FALSE | |  | *um-Uni-Directional-DL* IE in TS 38.331 [22] |
| 26223 | >DL UM RLC | STRUCTURE | |  | |  | *dl-UM-RLC* IE in TS 38.331 [22] |
| 26224 | >>Reassembly | ELEMENT | | FALSE | | *t-Reassembly* IE in TS 38.331 [22] |  |
| 26225 | List of QoS Flows to be setup in DRB | LIST |  | |  | | *Flow Mapping Information* IE in TS 37.483 [21] clause 9.3.1.26 |
| 26226 | >QoS Flow Item | STRUCTURE |  | |  | | *QoS Flow Item* IE in TS 37.483 [21] clause 9.3.1.12 |
| 26227 | >>QoS Flow Identifier | ELEMENT | TRUE | | *QoS Flow Identifier* IE in TS 37.483 [21] clause 9.3.1.24 | |  |
| 26228 | >>QoS Flow | STRUCTURE |  | | 8.1.1.6 | |  |
| 26229 | List of QoS Flows to be modified in DRB | LIST |  | |  | | *Flow Mapping Information* IE in TS 37.483 [21] clause 9.3.1.26 |
| 26230 | >QoS Flow Item | STRUCTURE |  | |  | | *QoS Flow Item* IE in TS 37.483 [21] clause 9.3.1.12 |
| 26231 | >>QoS Flow Identifier | ELEMENT | TRUE | | *QoS Flow Identifier* IE in TS 37.483 [21] clause 9.3.1.24 | |  |
| 26232 | >>QoS Flow | STRUCTURE |  | | 8.1.1.6 | |  |
| 26233 | List of Cell Groups to Add | LIST |  | |  | | *Cell Group List* IE in TS 37.483 [21] Section 9.3.1.11 |
| 26234 | >Cell Group Item | STRUCTURE |  | |  | |  |
| 26255 | >>Cell Group ID | ELEMENT | TRUE | | *cellGroup* IE in TS 38.331 [22] Section 6 | |  |
| 26256 | >>Cell Group | STRUCTURE |  | | 8.1.1.7 | |  |
| 26235 | List of Cell Groups To Modify/Update | LIST |  | |  | | *Cell Group List* IE in TS 37.483 [21] Section 9.3.1.11 |
| 26236 | >Cell Group Item | STRUCTURE |  | |  | |  |
| 26257 | >>Cell Group ID | ELEMENT | TRUE | | *cellGroup* IE in TS 38.331 [22] Section 6 | |  |
| 26258 | >>Cell Group | STRUCTURE |  | | 8.1.1.7 | |  |
| 26237 | List of Cell Groups To Delete | LIST |  | |  | | *Cell Group List* IE in TS 37.483 [21] Section 9.3.1.11 |
| 26238 | >Cell Group Item | STRUCTURE |  | |  | |  |
| 26259 | >>Cell Group ID | ELEMENT | TRUE | | *cellGroup* IE in TS 38.331 [22] Section 6 | |  |
| 26260 | >>Cell Group | STRUCTURE |  | | 8.1.1.7 | |  |
| 26239 | Logical Channel ID | ELEMENT | FALSE | | *LogicalChannelIdentity* IE in TS 38.331 [22] clause 6 | |  |
| 26240 | Channel Access Priority | ELEMENT | FALSE | | *channelAccessPriority* IE in TS 38.331 [22] | |  |
| 26241 | L2 State Information | STRUCTURE |  | | 8.1.1.8 | |  |
| 26242 | Data Report Usage List | LIST |  | |  | | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.44 |
| 26243 | >Data Report Usage Item | STRUCTURE |  | |  | | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.44 |
| 26244 | >>Start Timestamp | ELEMENT | FALSE | | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.44 | |  |
| 26245 | >>End Timestamp | ELEMENT | FALSE | | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.44 | |  |
| 26246 | >>Usage Count DL | ELEMENT | FALSE | | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.44 | |  |
| 26247 | >>Usage Count UL | ELEMENT | FALSE | | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.44 | |  |

##### 8.1.2.2.3 Bearer Context Release

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 26301 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] clause 9.3.1.16 |  |
| 26302 | PDCP DL Count | ELEMENT | FALSE | *PDCP DL Count* IE in TS 37.483 [21] Section 9.2.2.11 |  |
| 26303 | PDCP UL Count | ELEMENT | FALSE | *PDCP UL Count* IE in TS 37.483 [21] Section 9.2.2.11 |  |
| 26304 | Release Cause | STRUCTURE |  |  | *Cause* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26305 | >CHOICE Cause Group | STRUCTURE |  |  | *Cause Group* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26306 | >>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26307 | >>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26308 | >>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26309 | >>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26310 | >>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26311 | >>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26312 | >>Miscellaneous | STRUCTURE |  |  | *Misc* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26313 | >>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |

#### 8.1.2.3 Mobility Management

The RAN Parameters for the call process type of “Mobility Management” are defined as follows.

##### 8.1.2.3.1 Handover Preparation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 27101 | Event AN and inter-RAT B1 mobility thresholds | STRUCTURE |  | *Connectivity and Mobility Event Thresholds* IE in clause 8.1.1.10 |  |
| 27102 | List of Serving cells | LIST |  |  | *MeasResultServMOList* IE in TS 38.331 [22] |
| 27103 | >Serving Cell Item | STRUCTURE |  |  | *MeasResultServMO* IE in TS 38.331 [22] |
| 27104 | >>Serving Cell Index | ELEMENT | TRUE | *servCellID* IE in TS 38.331 [22] |  |
| 27105 | >>CHOICE Serving Cell | STRUCTURE |  |  | *MeasResultServMO* IE in TS 38.331 [22] |
| 27106 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 |  |
| 27107 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  |
| 27108 | >>CHOICE Best Neighboring Cell | STRUCTURE |  |  | *measResultBestNeighCell* IE in TS 38.331 [22] |
| 27109 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 |  |
| 27110 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  |
| 27113 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 27114 | >CHOICE *Primary Serving Cell* | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on*Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 27115 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR* IE in TS 38.423 [15] clause 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 |
| 27116 | >>LTE E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA* IE in TS 38.423 [15] clause 9.2.3.25 |
| 27117 | List of Secondary cells | LIST |  |  | *SCell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27118 | >Secondary Cell Item | STRUCTURE |  |  | *SCell To Be Setup Item IEs* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27119 | >>Secondary Cell Index | ELEMENT | FALSE |  | SCellIndex IE in TS 38.473 [19] Section 9.2.2.1 |
| 27120 | >>CHOICE Secondary Cell | STRUCTURE |  |  | *SCell To Be Setup Item IEs* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27121 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 |  |
| 27122 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  |
| 27123 | List of Neighbor cells | LIST |  |  | *measResultNeighCells* IE in TS 38.331 [22] |
| 27124 | >Neighbor Cell Item | STRUCTURE |  |  | *measResultNeighCells* IE in TS 38.331 [22] |
| 27125 | >>CHOICE Neighbor Cell | STRUCTURE |  |  | *measResultNeighCells* IE in TS 38.331 [22] |
| 27126 | >>>NR Cell | STRUCTURE |  | 8.1.1.1 | *MeasResultNR* IE in TS 38.331 [22] |
| 27127 | >>>E-UTRA Cell | STRUCTURE |  | 8.1.1.2 | *MeasResultEUTRA* IE in TS 38.331 [22] |
| 27128 | Target Primary Cell ID | STRUCTURE |  |  | *Target Cell Global ID* IE in TS 38.423 [15] Section 9.2.3.25 |
| 27129 | >CHOICE Target Cell | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 27130 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR* IE in TS 38.423 [15] Section 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 |
| 27131 | >>LTE E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 27132 | List of Candidate Target cells for conditional HO | LIST |  |  | *Candidate SpCell List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27133 | >Candidate Target cell Item | STRUCTURE |  |  | *Candidate SpCell Item I****E****s* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27134 | >>CHOICE Candidate Target Cell | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 27135 | >>>NR SpCell candidate | STRUCTURE |  | 8.1.1.1 | *NR* IE in TS 38.423 [15] clause 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 |
| 27136 | >>>LTE E-UTRA PCell candidate | STRUCTURE |  | 8.1.1.2 | *E-UTRA* IE in TS 38.423 [15] clause 9.2.3.25 |
| 27137 | >>Estimated Arrival Probability | ELEMENT | FALSE | *Estimated Arrival Probability* IE in TS 38.423 [15] Section 9.1.1.1 |  |
| 27138 | List of PDU Sessions for Handover | LIST |  |  | This is the list of PDU sessions of the UE that are subject to handover. The structuring is based on *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27139 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27140 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 27141 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 27142 | >>List of QoS flows in the PDU Session | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27143 | >>>QoS Flow Item | LIST |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27144 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 27145 | >>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 27146 | >>List of DRBs for Handover | LIST |  |  | This is the list of DRBs corresponding to the PDU session to be handed over. The structuring is based on *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.7 |
| 27147 | >>>DRB Item for Handover | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.7 |
| 27148 | >>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 27149 | >>>>CHOICE *DRB Type* | STRUCTURE |  |  |  |
| 27150 | >>>>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 27151 | >>>>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 27152 | >>>>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 27153 | >>>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 27154 | >>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 27155 | >>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 27175 | List of DRBs for Handover | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27176 | >DRB Item for Handover | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27177 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 27178 | >>CHOICE *DRB Type* | STRUCTURE |  |  |  |
| 27179 | >>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 27180 | >>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 27181 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 27182 | >>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 27183 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 27184 | >>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |

##### 8.1.2.3.2 Handover Cancel

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 27201 | Event AN and inter-RAT B1 mobility thresholds | STRUCTURE |  | *Connectivity and Mobility Event Thresholds* IE in clause 8.1.1.10 |  | |
| 27209 | List of candidate cells to be cancelled list | LIST |  |  | *Candidate Cells To Be Cancelled List* IE in TS 38.473 [19] Section 9.2.2.4 | |
| 27210 | >Candidate cell to be cancelled item | STRUCTURE |  |  | *Candidate Cells To Be Cancelled List* IE in TS 38.473 [19] Section 9.2.2.4 | |
| 27211 | >>Target cell ID | STRUCTURE |  |  | *Target Cell ID* IE in TS 38.473 [19] Section 9.2.2.4 | |
| 27212 | >>>CHOICE Target cell ID | STRUCTURE |  |  | *Target Cell ID* IE in TS 38.473 [19] Section 9.2.2.4 | |
| 27213 | >>>>NR Cell | STRUCTURE |  | 8.1.1.1 |  | |
| 27214 | >>>>LTE E-UTRA Cell | STRUCTURE |  | 8.1.1.2 |  | |
| 27215 | Cause for canceling HO or CHO | STRUCTURE |  |  | *Cause* IE in TS 38.423 [15] Section 9.1.1.6 | |
| 27216 | >CHOICE *Cause Group* | STRUCTURE |  |  | *Cause Group* IE in TS 38.423 [15] Section 9.2.3.2 | |
| 27217 | >>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 38.423 [15] Section 9.2.3.2 | |
| 27218 | >>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 38.423 [15] Section 9.2.3.2 |  | |
| 27219 | >>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 38.423 [15] Section 9.2.3.2 | |
| 27220 | >>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 38.423 [15] Section 9.2.3.2 |  | |
| 27221 | >>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 38.423 [15] Section 9.2.3.2 | |
| 27222 | >>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 38.423 [15] Section 9.2.3.2 |  | |
| 27223 | >>Misc | STRUCTURE |  |  | *Misc* IE in TS 38.423 [15] Section 9.2.3.2 | |
| 27224 | >>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 38.423 [15] Section 9.2.3.2 |  | |

##### 8.1.2.3.3 Handover Resource Allocation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 27301 | Event AN and inter-RAT B1 mobility thresholds | STRUCTURE |  | *Connectivity and Mobility Event Thresholds* IE in clause 8.1.1.10 |  |
| 27302 | Handover Type | ELEMENT | FALSE | *Handover Type* IE in TS 38.413 [11] Section 9.3.1.22 |  |
| 27303 | List of PDU Sessions for Handover | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27304 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27305 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 27306 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 27307 | >>List of QoS flows in the PDU Session | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27308 | >>>QoS Flow Item | LIST |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 27309 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 27310 | >>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 27311 | >>List of DRBs for Handover | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27312 | >>>DRB Item for Handover | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27313 | >>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 27314 | >>>>CHOICE *DRB Type* | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27315 | >>>>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 27316 | >>>>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 27317 | >>>>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 27318 | >>>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 27319 | >>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 27320 | >>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 27321 | List of DRBs for Handover | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27322 | >DRB Item for Handover | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27323 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 27324 | >>CHOICE *DRB Type* | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 27325 | >>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  |
| 27326 | >>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  |
| 27327 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 27328 | >>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 27329 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 27330 | >>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  |
| 27331 | Allowed S-NSSAI | LIST |  |  | *Allowed S-NSSAI* IE in TS 38.413 [11] Section 9.3.1.31 |
| 27332 | >Allowed S-NSSAI Item | STRUCTURE |  |  | *Allowed S-NSSAI Item* IE in TS 38.413 [11] Section 9.3.1.31 |
| 27333 | >>S-NSSAI | STRUCTURE |  |  | *S-NSSAI* IE in TS 38.413 [11] Section 9.3.1.24 |
| 27334 | >>>SST | ELEMENT | TRUE | *SST* IE in TS 38.413 [11] Section 9.3.1.24 |  |
| 27335 | >>>SD | ELEMENT | FALSE | *SD* IE in TS 38.413 [11] Section 9.3.1.24 |  |
| 27336 | Mobility Restriction List | STRUCTURE |  |  | *Mobility Restriction List* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27337 | >Serving PLMN | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 27338 | >List of Equivalent PLMNs | LIST |  |  | *Equivalent PLMNs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27339 | >>Equivalent PLMN Item | STRUCTURE |  |  |  |
| 27340 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 27341 | >RAT Restrictions | LIST |  |  | *RAT Restrictions* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27342 | >>RAT Restriction Item | STRUCTURE |  |  |  |
| 27343 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 27344 | >>>RAT Restriction Information | ELEMENT | FALSE | *RAT Restriction Information* IE in TS 38.413 [11] Section 9.3.1.85 |  |
| 27345 | >Forbidden Area Information | LIST |  |  | *Forbidden Area Information* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27346 | >>Forbidden Area | STRUCTURE |  |  | *Forbidden Area Information* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27347 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 27348 | >>>List of Forbidden TACs | LIST |  |  | *Forbidden TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27349 | >>>>Forbidden TAC Item | STRUCTURE |  |  | *Forbidden TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27350 | >>>>>TAC | ELEMENT | FALSE | *TAC* IE in TS 38.413 [11] Section 9.3.3.10 |  |
| 27351 | >Service Area Information | LIST |  |  | *Service Area Information* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27352 | >>Service Area | STRUCTURE |  |  | *Service Area Information* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27353 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.413 [11] Section 9.3.3.5 |  |
| 27364 | >>>List of allowed TACs | LIST |  |  | *Allowed TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27365 | >>>>Allowed TAC Item | STRUCTURE |  |  | *Allowed TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27366 | >>>>>TAC | ELEMENT | FALSE | *TAC* IE in TS 38.413 [11] Section 9.3.3.10 |  |
| 27367 | >>>List of Not allowed TACs | LIST |  |  | *Not Allowed TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27368 | >>>>Not Allowed TAC Item | STRUCTURE |  |  | *Not Allowed TACs* IE in TS 38.413 [11] Section 9.3.1.85 |
| 27369 | >>>>>TAC | ELEMENT | FALSE | *TAC* IE in TS 38.413 [11] Section 9.3.3.10 |  |

#### 8.1.2.4 Multi-RAT Dual Connectivity Management

The RAN Parameters for the call process type of “Multi-RAT Dual Connectivity Management” are defined as follows.

##### 8.1.2.4.1 SN Addition

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 28101 | Event AN and inter-RAT B1 mobility thresholds | STRUCTURE |  | *Connectivity and Mobility Event Thresholds* IE in clause 8.1.1.10 |  |
| 28102 | Secondary Node | STRUCTURE |  | 8.1.1.11 |  | |
| 28103 | CHOICE *PDCP Change Indication* | STRUCTURE |  |  | *PDCP Change Indication* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28104 | >From S-NG-RAN Node | STRUCTURE |  |  | *From S-NG-RAN Node* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28105 | >>Indication from S-NG-RAN node to M-NG-RAN node | ELEMENT | FALSE | *Indication from S-NG-RAN node to M-NG-RAN node* IE in TS 38.423 [15] Section 9.2.3.74 |  | |
| 28106 | >From M-NG-RAN Node | STRUCTURE |  |  | *From M-NG-RAN Node* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28107 | >>Indication from M-NG-RAN node to S-NG-RAN node | ELEMENT | FALSE | *Indication from M-NG-RAN node to S-NG-RAN node* IE in TS 38.423 [15] Section 9.2.3.74 |  | |
| 28108 | Secondary Node UE Aggregate Maximum Bit Rate | STRUCTURE |  |  | *UE Aggregate Maximum Bit Rate* IE in TS 36.423 [17] Section 9.2.12 | |
| 28109 | >UE Aggregate Maximum Bit Rate Downlink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Downlink* IE in TS 36.423 [17] clause 9.2.12 |  | |
| 28110 | >UE Aggregate Maximum Bit Rate Uplink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Uplink* IE in TS 36.423 [17] clause 9.2.12 |  | |
| 28111 | List of PDU sessions to be added | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28112 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28113 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  | |
| 28114 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  | |
| 28115 | >>CHOICE *PDU Session Setup Info* | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28116 | >>>SN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28118 | >>>>List of QoS flows to be setup | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28119 | >>>>>QoS flow Item to be setup | STRUCTURE |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28120 | >>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28121 | >>>>>>QoS flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28122 | >>>>Count of QoS flows to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28123 | >>>MN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – MN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28125 | >>>>List of DRBs to be setup | LIST |  |  | *DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28126 | >>>>>DRB Item to be setup | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28127 | >>>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  | |
| 28128 | >>>>>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  | |
| 28129 | >>>>>>List of QoS flows to be setup | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28130 | >>>>>>>QoS flow Item to be setup | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28131 | >>>>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28132 | >>>>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28133 | >>>>>>Count of list of QoS flows to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28134 | >>>>Count of list of DRBs to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28135 | Count of list of PDU sessions to be added | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28136 | List of E-RABs to be added | LIST |  |  | *E-RABs To Be Added List* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28137 | >E-RAB Item | STRUCTURE |  |  | *E-RABs To Be Added Item* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28138 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  | |
| 28139 | >>E-RAB | STRUCTURE |  | 8.1.1.9 |  | |
| 28140 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 | |
| 28141 | >>>PDCP at SgNB | ELEMENT | FALSE | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28142 | >>>MCG resources | ELEMENT | FALSE | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28143 | >>>SCG resources | ELEMENT | FALSE | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28144 | >>CHOICE Resource Configuration | STRUCTURE |  |  | *Resource Configuration* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28145 | >>>PDCP present in SN | STRUCTURE |  |  | *PDCP Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28146 | >>>>Maximum MCG admittable E-RAB Level QoS parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28147 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28148 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28149 | >>>PDCP not present in SN | STRUCTURE |  |  | *PDCP Not Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28150 | >>>>Requested SCG E-RAB Level QoS Parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28151 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28152 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28153 | Count of list of E-RABs to be added | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28154 | List of SN-terminated DRBs | LIST |  |  | *Available DRB IDs* IE in TS 38.423 [15] Section 9.1.2.1 | |
| 28155 | >SN-terminated DRB item | STRUCTURE |  |  |  | |
| 28156 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  | |
| 28157 | >>CHOICE *DRB Type* | STRUCTURE |  |  |  | |
| 28158 | >>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  | |
| 28159 | >>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  | |
| 28160 | Count of list of SN-terminated DRBs | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28161 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 | |
| 28162 | >CHOICE Primary Cell | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on*Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 | |
| 28163 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR Cell* IE in TS 38.423 [15] clause 9.2.3.25 or *SpCell ID* IE in TS 38.473 [19] clause 9.2.2.1 | |
| 28164 | >>LTE PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA Cell* IE in TS 38.423 [15] clause 9.2.3.25 | |

##### 8.1.2.4.2 SN Modification and deletion

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 28201 | Event AN and inter-RAT B1 mobility thresholds | STRUCTURE |  | *Connectivity and Mobility Event Thresholds* IE in clause 8.1.1.10 | Event AN and inter-RAT B1 mobility thresholds | |
| 28202 | Secondary Node | STRUCTURE |  | 8.1.1.11 |  | |
| 28205 | CHOICE *PDCP Change Indication* | STRUCTURE |  |  | *PDCP Change Indication* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28206 | >From S-NG-RAN Node | STRUCTURE |  |  | *From S-NG-RAN Node* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28207 | >>Indication from S-NG-RAN node to M-NG-RAN node | STRUCTURE |  | *Indication from S-NG-RAN node to M-NG-RAN node* IE in TS 38.423 [15] Section 9.2.3.74 |  | |
| 28208 | >From M-NG-RAN Node | STRUCTURE |  |  | *From M-NG-RAN Node* IE in TS 38.423 [15] Section 9.2.3.74 | |
| 28209 | >>Indication from M-NG-RAN node to S-NG-RAN node | STRUCTURE |  | *Indication from M-NG-RAN node to S-NG-RAN node* IE in TS 38.423 [15] Section 9.2.3.74 |  | |
| 28210 | Secondary Node UE Aggregate Maximum Bit Rate | STRUCTURE |  |  | *UE Aggregate Maximum Bit Rate* IE in TS 36.423 [17] Section 9.2.12 | |
| 28211 | >UE Aggregate Maximum Bit Rate Downlink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Downlink* IE in TS 36.423 [17] clause 9.2.12 |  | |
| 28212 | >UE Aggregate Maximum Bit Rate Uplink | ELEMENT | FALSE | *UE Aggregate Maximum Bit Rate Uplink* IE in TS 36.423 [17] clause 9.2.12 |  | |
| 28213 | List of PDU sessions to be added | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28214 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28215 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  | |
| 28216 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  | |
| 28217 | >>CHOICE *PDU Session Setup Info* | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28218 | >>>SN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28219 | >>>>List of QoS flows to be setup | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28220 | >>>>>QoS flow Item to be setup | STRUCTURE |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28221 | >>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28222 | >>>>>>QoS flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28223 | >>>>Count of QoS flows to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28224 | >>>MN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – MN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28225 | >>>>List of DRBs to be setup | LIST |  |  | *DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28226 | >>>>>DRB Item to be setup | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28227 | >>>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  | |
| 28228 | >>>>>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  | |
| 28229 | >>>>>>List of QoS flows to be setup | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28230 | >>>>>>>QoS flow Item to be setup | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28231 | >>>>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28232 | >>>>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28233 | >>>>>>Count of list of QoS flows to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28234 | >>>>Count of list of DRBs to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28235 | Count of list of PDU sessions to be added | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28236 | List of PDU sessions to be modified | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28237 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28238 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  | |
| 28239 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  | |
| 28240 | >>CHOICE *PDU Session Modification Info* | STRUCTURE |  |  |  | |
| 28241 | >>>SN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28242 | >>>>List of QoS flows to be modified | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28243 | >>>>>QoS flow Item to be modified | STRUCTURE |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 | |
| 28244 | >>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28245 | >>>>>>QoS flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28246 | >>>>Count of QoS flows to be modified | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28247 | >>>MN terminated PDU session | STRUCTURE |  |  | *PDU Session Resource Setup Info – MN terminated* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28248 | >>>>List of DRBs to be modified | LIST |  |  | *DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28249 | >>>>>DRB Item to be modified | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28250 | >>>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  | |
| 28251 | >>>>>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  | |
| 28252 | >>>>>>List of QoS flows to be modified | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28253 | >>>>>>>QoS flow Item to be setup | STRUCTURE |  |  | QoS Flow Item IE in TS 38.423 [15] Section 9.2.1.15 | |
| 28254 | >>>>>>>>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 38.423 [15] Section 9.2.3.10 |  | |
| 28255 | >>>>>>>>QoS Flow | STRUCTURE |  | 8.1.1.6 |  | |
| 28256 | >>>>>>Count of list of QoS flows to be setup | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28257 | >>>>Count of list of DRBs to be modified | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28258 | >>MR-DC Usage Information | STRUCTURE |  |  | *MR-DC Usage Information* IE in TS 37.483 [21] Section 9.3.1.63 | |
| 28259 | >>>Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Section 9.3.1.63 |  | |
| 28260 | >>>PDU Session Timed Report List | LIST |  |  | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 28261 | >>>>MR-DC Data Usage Report Item | STRUCTURE |  |  | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 28262 | >>>>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28263 | >>>>>End Timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28264 | >>>>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28265 | >>>>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28266 | >>MR-DC Usage for QoS flows | LIST |  |  | *Data Usage Per QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.63 | |
| 28267 | >>>QoS Flow Item | STRUCTURE |  |  | *Data Usage Per QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.63 | |
| 28268 | >>>>QoS flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 37.483 [21] Section 9.3.1.24 |  | |
| 28269 | >>>>Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Section 9.3.1.63 |  | |
| 28270 | >>>>QoS Flow Timed Report List | LIST |  |  | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 28271 | >>>>>MR-DC Data Usage Report Item | STRUCTURE |  |  | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 28272 | >>>>>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28273 | >>>>>>End timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28274 | >>>>>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28275 | >>>>>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 28276 | Count of list of PDU sessions to be modified | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28277 | List of PDU sessions to be released | LIST |  |  | *PDU Session Resources To Be Released List* IE in TS 38.423 [15] Section 9.1.2.14 | |
| 28278 | >PDU Session Item | STRUCTURE |  |  | *PDU Session List With Cause* IE in TS 38.423 [15] Section 9.2.1.26 | |
| 28279 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  | |
| 28280 | >>PDU Session | STRUCTURE |  | 8.1.1.16 |  | |
| 26281 | >>Release Cause | STRUCTURE |  |  | *Cause* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26282 | >>>CHOICE Cause Group | STRUCTURE |  |  | *Cause Group* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26283 | >>>>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26284 | >>>>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26285 | >>>>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26286 | >>>>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26287 | >>>>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26288 | >>>>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 26289 | >>>>Miscellaneous | STRUCTURE |  |  | *Misc* IE in TS 37.483 [21] Section 9.3.1.2 |
| 26290 | >>>>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 28291 | Count of list of PDU sessions to be released | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28292 | List of E-RABs to be added | LIST |  |  | *E-RABs To Be Added List* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28293 | >E-RAB Item | STRUCTURE |  |  | *E-RABs To Be Added Item* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28294 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  | |
| 28295 | >>E-RAB | STRUCTURE |  | 8.1.1.9 |  | |
| 28296 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 | |
| 28297 | >>>PDCP at SgNB | STRUCTURE |  | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28298 | >>>MCG resources | STRUCTURE |  | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28299 | >>>SCG resources | STRUCTURE |  | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28300 | >>CHOICE Resource Configuration | STRUCTURE |  |  | *Resource Configuration* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28301 | >>>PDCP present in SN | STRUCTURE |  |  | *PDCP Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28302 | >>>>Maximum MCG admittable E-RAB Level QoS parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28303 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28304 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28305 | >>>PDCP not present in SN | STRUCTURE |  |  | *PDCP Not Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28306 | >>>>Requested SCG E-RAB Level QoS Parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28307 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28308 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28309 | Count of list of E-RABs to be added | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28310 | List of E-RABs to be modified | LIST |  |  | *E-RABs To Be Modified List* IE in TS 36.423 [17] Section 9.1.4.5 | |
| 28311 | >E-RAB Item | STRUCTURE |  |  | *E-RABs To Be Modified Item* IE in TS 36.423 [17] Section 9.1.4.5 | |
| 28312 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  | |
| 28313 | >>E-RAB | STRUCTURE |  | 8.1.1.9 |  | |
| 28314 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 | |
| 28315 | >>>PDCP at SgNB | STRUCTURE |  | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28316 | >>>MCG resources | STRUCTURE |  | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28317 | >>>SCG resources | STRUCTURE |  | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28318 | >>CHOICE Resource Configuration | STRUCTURE |  |  | *Resource Configuration* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28319 | >>>PDCP present in SN | STRUCTURE |  |  | *PDCP Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28320 | >>>>Maximum MCG admittable E-RAB Level QoS parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28321 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28322 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28323 | >>>PDCP not present in SN | STRUCTURE |  |  | *PDCP Not Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28324 | >>>>Requested SCG E-RAB Level QoS Parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28325 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28326 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28327 | Count of list of E-RABs to be modified | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28328 | List of E-RABs to be released | LIST |  |  | *E-RABs To Be Released List* IE in TS 36.423 [17] Section 9.1.4.5 | |
| 28329 | >E-RAB Item | STRUCTURE |  |  | *E-RABs To Be Released Item* IE in TS 36.423 [17] Section 9.1.4.5 | |
| 28330 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  | |
| 28331 | >>E-RAB | STRUCTURE |  | 8.1.1.9 |  | |
| 28332 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 | |
| 28333 | >>>PDCP at SgNB | ELEMENT | FALSE | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28334 | >>>MCG resources | ELEMENT | FALSE | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28335 | >>>SCG resources | ELEMENT | FALSE | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  | |
| 28336 | >>CHOICE Resource Configuration | STRUCTURE |  |  | *Resource Configuration* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28337 | >>>PDCP present in SN | STRUCTURE |  |  | *PDCP Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28338 | >>>>Maximum MCG admittable E-RAB Level QoS parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28339 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28340 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28341 | >>>PDCP not present in SN | STRUCTURE |  |  | *PDCP Not Present in SN* IE in TS 36.423 [17] Section 9.1.4.1 | |
| 28342 | >>>>Requested SCG E-RAB Level QoS Parameters | STRUCTURE |  | 8.1.1.9 |  | |
| 28343 | >>>>RLC Mode | ELEMENT | FALSE | *RLC Mode* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28344 | >>>>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 36.423 [17] Section 9.1.4.1 |  | |
| 28345 | Count of list of E-RABs to be released | ELEMENT | FALSE | INTEGER (0..256) |  | |
| 28346 | List of SN-terminated DRBs to be modified or released | LIST |  |  | *Additional DRB IDs* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28347 | >SN-terminated DRB item | STRUCTURE |  |  | *Additional DRB IDs* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28358 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  | |
| 28348 | >>CHOICE *DRB Type* | STRUCTURE |  |  | *Additional DRB IDs* IE in TS 38.423 [15] Section 9.1.2.5 | |
| 28349 | >>>NG-RAN DRB | STRUCTURE |  | 8.1.1.5 |  | |
| 28350 | >>>E-UTRA DRB | STRUCTURE |  | 8.1.1.9 |  | |
| 28351 | Count of list of SN-terminated DRBs | ELEMENT | FALSE | INTEGER (0..64) |  | |
| 28352 | Primary Cell ID | STRUCTURE |  |  | *SpCell ID IE* in TS 38.473 [19] clause 9.2.2.1 | |
| 28353 | >CHOICE Primary Cell | STRUCTURE |  |  | *SpCell ID IE* in TS 38.473 [19] clause 9.2.2.1 | |
| 28354 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 |  | |
| 28355 | >>LTE PCell | STRUCTURE |  | 8.1.1.2 |  | |

#### 8.1.2.6 PDU Session Management

The RAN Parameters for the call process type of “PDU Session Management” are defined as follows.

##### 8.1.2.6.1 PDU Session Resource Setup

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 30001 | PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 30002 | PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 30003 | List of QoS Flows to be setup | LIST |  |  | *QoS Flow Setup Request List* IE in TS 38.413 [11] Section 9.3.4.1 |
| 30004 | >QoS flow setup request item | STRUCTURE |  |  | *QoS Flow Setup Request Item* IE in TS 38.413 [11] Section 9.3.4.1 |
| 30005 | >>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 30006 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 30010 | List of QoS Flows failed to be setup | LIST |  |  | *QoS Flow Failed To Setup List* IE in TS 38.413 [11] Section 9.3.4.2 |
| 30011 | >QoS flow item failed for setup | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.413 [11] Section 9.3.1.13 |
| 30012 | >>QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 30013 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 30014 | >>Cause | STRUCTURE |  |  | *Cause* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30015 | >>>CHOICE *Cause group* | STRUCTURE |  |  | *Cause Group* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30016 | >>>>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30017 | >>>>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 30018 | >>>>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30019 | >>>>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 30020 | >>>>NAS | STRUCTURE |  |  | *NAS* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30021 | >>>>>NAS Cause | ELEMENT | FALSE | *NAS Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 30022 | >>>>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30023 | >>>>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 30024 | >>>>Miscellaneous | STRUCTURE |  |  | *Misc* IE in TS 38.413 [11] Section 9.3.1.2 |
| 30025 | >>>>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 30031 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 30032 | >CHOICE *Primary Cell* | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on*Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 30033 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 30034 | >>E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA Cell* IE in TS 38.423 [15] clause 9.2.3.25 |

##### 8.1.2.6.2 PDU Session Resource Modification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 31001 | PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 |  |
| 31002 | PDU Session | STRUCTURE |  | 8.1.1.16 |  |
| 31003 | List of QoS Flows to add or modify | LIST |  |  | *QoS Flow Add or Modify Request List IE* in TS 38.413 [11] Section 9.3.4.3 |
| 31004 | >QoS flow add or modify request item | STRUCTURE |  |  | *QoS Flow Add or Modify Request Item* IE in TS 38.413 [11] Section 9.3.4.3 |
| 31005 | >QoS Flow Indicator | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 31006 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 31012 | List of QoS Flows failed to be added or modified | LIST |  |  | *QoS Flow Failed To Add or Modify List* IE in TS 38.413 [11] Section 9.3.4.2 |
| 31013 | >QoS flow item failed to be added or modified | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.413 [11] Section 9.3.1.13 |
| 31014 | >>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 31015 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 31016 | >>Cause | STRUCTURE |  |  | *Cause* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31017 | >>>CHOICE *Cause group* | STRUCTURE |  |  | *Cause Group* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31018 | >>>>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31019 | >>>>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31020 | >>>>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31021 | >>>>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 31022 | >>>>NAS | STRUCTURE |  |  | *NAS* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31023 | >>>>>NAS Cause | ELEMENT | FALSE | *NAS Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31024 | >>>>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31025 | >>>>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31026 | >>>>Miscellaneous | STRUCTURE |  |  | *Misc* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31027 | >>>>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31031 | List of QoS Flows to be released | LIST |  |  | *QoS Flow To Release List* IE in TS 38.413 [11] Section 9.3.4.2 |
| 31032 | >QoS flow item to be released | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.413 [11] Section 9.3.1.13 |
| 31033 | >>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.413 [11] Section 9.3.1.51 |  |
| 31034 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  |
| 31035 | >>Cause | STRUCTURE |  |  | *Cause* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31036 | >>>CHOICE *Cause group* | STRUCTURE |  |  | *Cause Group* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31037 | >>>>Radio Network Layer | STRUCTURE |  |  | *Radio Network Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31038 | >>>>>Radio Network Layer Cause | ELEMENT |  | *Radio Network Layer Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31039 | >>>>Transport Layer | STRUCTURE |  |  | *Transport Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31040 | >>>>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 |  |
| 31041 | >>>>NAS | STRUCTURE |  |  | *NAS* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31042 | >>>>>NAS Cause | ELEMENT | FALSE | *NAS Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31043 | >>>>Protocol | STRUCTURE |  |  | *Protocol* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31044 | >>>>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31045 | >>>>Miscellaneous | STRUCTURE |  |  | *Misc* IE in TS 38.413 [11] Section 9.3.1.2 |
| 31046 | >>>>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 38.413 [11] Section 9.3.1.2 |  |
| 31051 | MR-DC Usage Information | STRUCTURE |  |  | *MR-DC Usage Information* IE in TS 37.483 [21] Section 9.3.1.63 |
| 31052 | >Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Section 9.3.1.63 |  |
| 31053 | >PDU Session Timed Report List | LIST |  |  | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 |
| 31054 | >>MR-DC Data Usage Report Item | STRUCTURE |  |  | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 |
| 31055 | >>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31075 | >>>End Timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31056 | >>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31057 | >>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31061 | MR-DC Usage for QoS flows | LIST |  |  | *Data Usage Per QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.63 |
| 31062 | >QoS Flow Item | STRUCTURE |  |  | *Data Usage Per QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.63 |
| 31063 | >>QoS flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 37.483 [21] Section 9.3.1.24 |  |
| 31064 | >>Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Sec 9.3.1.63 |  |
| 31065 | >>QoS Flow Timed Report List | LIST |  |  | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 |
| 31066 | >>>MR-DC Data Usage Report Item | STRUCTURE |  |  | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 |
| 31067 | >>>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31068 | >>>>End timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31069 | >>>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31070 | >>>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  |
| 31081 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 31082 | >CHOICE Primary Cell | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on *Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 31083 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 31084 | >>E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA Cell* IE in TS 38.423 [15] clause 9.2.3.25 |

##### 8.1.2.6.3 PDU Session Resource Release

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | | **Semantics Description** |
| 32001 | PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.413 [11] Section 9.3.1.50 | |  |
| 32002 | PDU Session | STRUCTURE |  | 8.1.1.16 | |  |
| 32011 | Cause | STRUCTURE |  |  | | *Cause* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32012 | >CHOICE *Cause group* | STRUCTURE |  |  | | *Cause Group* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32013 | >>Radio Network Layer | STRUCTURE |  |  | | *Radio Network Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32014 | >>>Radio Network Layer Cause | ELEMENT | FALSE | *Radio Network Layer Cause* IE in TS 38.413 [11] Section 9.3.1.2 | |  |
| 32015 | >>Transport Layer | STRUCTURE |  |  | | *Transport Layer* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32016 | >>>Transport Layer Cause | ELEMENT | FALSE | *Transport Layer Cause* IE in TS 37.483 [21] Section 9.3.1.2 | |  |
| 32017 | >>NAS | STRUCTURE |  |  | | *NAS* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32018 | >>>NAS Cause | ELEMENT | FALSE | *NAS Cause* IE in TS 38.413 [11] Section 9.3.1.2 | |  |
| 32019 | >>Protocol | STRUCTURE |  |  | | *Protocol* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32020 | >>>Protocol Cause | ELEMENT | FALSE | *Protocol Cause* IE in TS 38.413 [11] Section 9.3.1.2 | |  |
| 32021 | >>Miscellaneous | STRUCTURE |  |  | | *Misc* IE in TS 38.413 [11] Section 9.3.1.2 |
| 32022 | >>>Miscellaneous Cause | ELEMENT | FALSE | *Miscellaneous Cause* IE in TS 38.413 [11] Section 9.3.1.2 | |  |
| 32031 | MR-DC Usage Information | STRUCTURE |  |  | | *MR-DC Usage Information* IE in TS 37.483 [21] Section 9.3.1.63 |
| 32032 | >Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Section 9.3.1.63 | |  |
| 32033 | >PDU Session Timed Report List | LIST |  |  | | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 |
| 32034 | >>MR-DC Data Usage Report Item | STRUCTURE |  |  | | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 |
| 32035 | >>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 | |  |
| 32036 | >>>End Timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 | |  |
| 32037 | >>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32038 | >>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32041 | MR-DC Usage for QoS flows | LIST |  |  | *Data Usage Per QoS Flow List* IE in TS 37.483 [21] Section 9.3.1.63 | |
| 32042 | >QoS Flow Item | STRUCTURE |  |  | *Data Usage Per QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.63 | |
| 32043 | >>QoS flow Indicator | ELEMENT | TRUE | *QoS Flow Indicator* IE in TS 37.483 [21] Sec 9.3.1.24 |  | |
| 32054 | >>QoS flow | STRUCTURE |  | 8.1.1.6 |  | |
| 32044 | >>Secondary RAT Type | ELEMENT | FALSE | *Secondary RAT Type* IE in TS 37.483 [21] Section 9.3.1.63 |  | |
| 32045 | >>QoS Flow Timed Report List | LIST |  |  | *Data Usage Report List* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 32046 | >>>MR-DC Data Usage Report Item | STRUCTURE |  |  | *Data Report Usage Item* IE in TS 37.483 [21] Section 9.3.1.64 | |
| 32047 | >>>>Start Timestamp | ELEMENT | FALSE | *Start timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32048 | >>>>End timestamp | ELEMENT | FALSE | *End timestamp* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32049 | >>>>Usage Count UL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32050 | >>>>Usage Count DL | ELEMENT | FALSE | *Usage count DL* IE in TS 37.483 [21] Section 9.3.1.64 |  | |
| 32061 | Primary Cell ID | STRUCTURE |  |  | This is for the primary serving cell of the UE. The structuring of this parameter is based on *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 | |
| 32062 | >CHOICE Primary Cell | STRUCTURE |  |  | The primary cell could either be an NR primary cell or an LTE primary cell. The structuring is based on *Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 | |
| 32063 | >>NR SpCell | STRUCTURE |  | 8.1.1.1 | *NR Cell* IE in TS 38.423 [15] clause 9.2.3.25 | |
| 32064 | >>E-UTRA PCell | STRUCTURE |  | 8.1.1.2 | *E-UTRA Cell* IE in TS 38.423 [15] clause 9.2.3.25 | |

## 8.4 RAN Parameters for Control Actions

8.4.1 Approach

The approach for RAN parameters associated with Control service is provided in Section 8.0.

### 8.4.2 Radio Bearer Control

#### 8.4.2.1 DRB QoS Configuration

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to DRB QoS Configuration, such as *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 2 | 5QI | ELEMENT | FALSE | *5QI* IE in TS 37.483 [21] Section 9.3.1.27 or TS 37.483 [21] Section 9.3.1.28 |  |
| 3 | Packet Delay Budget | ELEMENT | FALSE | *Packet Delay Budget* IE in TS 37.483 [21] Section 9.3.1.47 |  |
| 4 | Packet Error Rate | STRUCTURE |  |  | *Packet Error Rate* IE in TS 37.483 [21] Section 9.3.1.48 |
| 5 | >Scalar factor | ELEMENT | FALSE | *Scalar* IE in TS 37.483 [21] Section 9.3.1.48 |  |
| 6 | >Exponent factor | ELEMENT | FALSE | *Exponent* IE in TS 37.483 [21] Section 9.3.1.48 |  |
| 7 | NG-RAN DRB Allocation and Retention Priority | STRUCTURE |  |  | *NG-RAN Allocation and Retention Priority* IE in TS 37.483 [21] Section 9.3.1.29 |
| 8 | >Priority Level | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 9 | >Pre-emption Capability | ELEMENT | FALSE | *Pre-emption Capability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 10 | >Pre-emption Vulnerability | ELEMENT | FALSE | *Pre-emption Vulnerability* IE in TS 37.483 [21] Section 9.3.1.29 |  |
| 11 | Priority Level of the mapped QoS flows | ELEMENT | FALSE | *Priority Level* IE in TS 37.483 [21] Section 9.3.1.51 |  |
| 12 | QoS parameters for GBR flows in NG-RAN Bearer | STRUCTURE |  |  | *GBR QoS Flow Information* IE in TS 37.483 [21] Section 9.3.1.30 |
| 13 | >Maximum Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 14 | >Guaranteed Flow Bit Rate Downlink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 15 | >Maximum Packet Loss Rate Downlink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 16 | >Maximum Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 17 | >Guaranteed Flow Bit Rate Uplink | ELEMENT | FALSE | *Bit Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 18 | >Maximum Packet Loss Rate Uplink | ELEMENT | FALSE | *Packet Loss Rate* IE in TS 37.483 [21] Section 9.3.1.30 |  |
| 19 | QoS Monitoring Enable Request | ELEMENT | FALSE | *QoS Monitoring Request* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 20 | QoS Monitoring Reporting Frequency | ELEMENT | FALSE | *QoS Monitoring Reporting Frequency* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 21 | QoS Monitoring Disabled | ELEMENT | FALSE | *QoS Monitoring Disabled* IE in TS 37.483 [21] Section 9.3.1.26 |  |
| 22 | Reflective QoS Mapping | ELEMENT | FALSE | *RDI* IE in TS 37.483 [21] Section 9.3.1.26 |  |

#### 8.4.2.2 QoS flow mapping configuration

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to QoS flow mapping Configuration, such as *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 1 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 2 | List of QoS Flows to be modified in DRB | LIST |  |  | *Flow Mapping Information* IE in TS 37.483 [21] Section 9.3.1.26 |
| 3 | >QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.12 |
| 4 | >>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.24 |  |
| 5 | >>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 37.483 [21] Section 9.3.1.60 |  |

#### 8.4.2.3 Logical channel configuration

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to Logical channel Configuration, such as *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related RRC messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | DRB ID | ELEMENT | TRUE | *DRB-Identity* IE in TS 38.331 [22] Section 6 |  |
| 2 | Logical Channel ID | ELEMENT | FALSE | *LogicalChannelIdentity* IE in TS 38.331 [22] Section 6 |  |
| 3 | List of cell groups to be added | LIST |  |  | *Cell Group To Add* IE in TS 37.483 [21] Section 9.3.3.11 |
| 4 | >Cell group item | STRUCTURE |  |  | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 |
| 5 | >>Cell Group ID | ELEMENT | TRUE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 6 | >>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 37.483 [21] Section 9.3.1.33 |  |
| 7 | List of cell groups to be modified | LIST |  |  | *Cell Group To Modify* IE in TS 37.483 [21] Section 9.3.1.11 |
| 8 | >Cell group item | STRUCTURE |  |  | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 |
| 9 | >>Cell Group ID | ELEMENT | TRUE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 10 | >>UL Configuration | ELEMENT | FALSE | *UL Configuration* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 11 | List of cell groups to be removed | LIST |  |  | *Cell Group To Remove* IE in TS 37.483 [21] Section 9.3.1.11 |
| 12 | >Cell group item | STRUCTURE |  |  | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 |
| 13 | >>Cell Group ID | ELEMENT | FALSE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 14 | Uplink Specific Parameters | STRUCTURE |  |  | *ul-SpecificParameters* IE in TS 38.331 [22] Section 6 |
| 15 | >Priority | ELEMENT | FALSE | *priority* IE in TS 38.331 [22] Section 6 |  |
| 16 | >Prioritized Bit rate | ELEMENT | FALSE | *prioritisedBitRate* IE in TS 38.331 [22] Section 6 |  |
| 17 | >Bucket Size Duration | ELEMENT | FALSE | *bucketSizeDuration* IE in TS 38.331 [22] Section 6 |  |
| 18 | >List of Allowed Serving Cells | LIST |  |  | *allowedServingCells* IE in TS 38.331 [22] Section 6 |
| 19 | >>Allowed Serving Cell Item | STRUCTURE |  |  |  |
| 20 | >>>Serving Cell Index | ELEMENT | FALSE | *ServCellIndex* IE in TS 38.331 [22] Section 6 |  |
| 21 | >List of Allowed SCS Configuration | LIST |  |  | *allowedSCS-List* IE in TS 38.331 [22] Section 6 |
| 22 | >>Allowed SCS Configuration Item | STRUCTURE |  |  |  |
| 23 | >>Subcarrier Spacing Configuration | ELEMENT | FALSE | *SubCarrierSpacing* IE in TS 38.331 [22] Section 6 |  |
| 24 | >Maximum PUSCH Duration | ELEMENT | FALSE | *maxPUSCH-Duration* IE in TS 38.331 [22] Sec 6 |  |
| 25 | >Configured Grant Type 1 Allowed | ELEMENT | FALSE | *configuredGrantTypeAllowed* IE in TS 38.331 [22] Section 6 |  |
| 26 | >Logical Channel SR – Mask | ELEMENT | FALSE | *logicalChannelSR-Mask* IE in TS 38.331 [22] Section 6 |  |
| 27 | >Logical Channel SR – Delay Timer Applied | ELEMENT | FALSE | *logicalChannelSR-DelayTimerApplied* IE in TS 38.331 [22] Sec 6 |  |
| 28 | >Bit Rate Query Prohibit Timer | ELEMENT | FALSE | *bitRateQueryProhibitTimer* IE in TS 38.331 [22] Section 6 |  |
| 29 | >RLC re-establishment | ELEMENT | FALSE | *reestablishRLC* IE in TS 38.331 [22] |  |
| 30 | >Logical Channel Group | ELEMENT | FALSE | *logicalChannelGroup* IE in TS 38.331 [22] |  |

#### 8.4.2.4 Radio Bearer Admission Control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to Radio Bearer Admission Control, such as *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics description** |
| 1 | DRB Identity | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 2 | List of cell groups to be added | LIST |  |  | *Cell Group To Add* IE in TS 37.483 [21] Section 9.3.3.11 |
| 3 | >Cell group item | STRUCTURE |  |  | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 |
| 4 | >>Cell Group ID | ELEMENT | TRUE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 |  |
| 5 | SDAP Configuration | STRUCTURE |  |  | *SDAP Configuration* IE in TS 37.483 [21] Section 9.3.1.39 |
| 6 | >PDU Session ID | ELEMENT | FALSE | *PDU-SessionID* IE in TS 38.331 [22] Sec 6 |  |
| 7 | >Default DRB | ELEMENT | FALSE | *Default DRB* IE in TS 37.483 [21] Section 9.3.1.39 |  |
| 8 | PDCP Configuration | STRUCTURE |  |  | *PDCP Configuration* IE in TS 37.483 [21] Section 9.3.1.38 |
| 9 | >RLC mode | ELEMENT | FALSE | *RLC mode* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 10 | >PDCP Duplication | ELEMENT | FALSE | *PDCP Duplication* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 11 | >UL Data Split Threshold | ELEMENT | FALSE | *UL Data Split Threshold* IE in TS 37.483 [21] Section 9.3.1.43 |  |
| 12 | >PDCP Re-establishment | ELEMENT | FALSE | *PDCP Re-establishment* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 13 | >PDCP Data Recovery | ELEMENT | FALSE | *PDCP Data Recovery* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 14 | >Out-of-Order Delivery | ELEMENT | FALSE | *Out of Order Delivery* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 15 | >PDCP Status Report Indication | ELEMENT | FALSE | *PDCP Status Report Indication* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 16 | >Number of PDCP duplication | ELEMENT | FALSE | *Additional PDCP duplication Information* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 17 | >UL More than one RLC | STRUCTURE |  |  | *moreThanOneRLC* IE in TS 38.331 [22] Section 6 |
| 18 | >>Primary Path | STRUCTURE |  |  | *primaryPath* IE in TS 38.331 [22] Section 6 |
| 19 | >>>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 |  |
| 20 | >>>Logical Channel ID | ELEMENT | FALSE | *logicalChannel* IE in TS 38.331 [22] Sec 6 |  |
| 21 | >UL More than two RLC | STRUCTURE |  |  | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 |
| 22 | >>Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 |  |
| 23 | >>Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 |  |
| 17 | >DL More than one RLC | STRUCTURE |  |  | *moreThanOneRLC* IE in TS 38.331 [22] Section 6 |
| 18 | >>Primary Path | STRUCTURE |  |  | *primaryPath* IE in TS 38.331 [22] Section 6 |
| 19 | >>>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 |  |
| 20 | >>>Logical Channel ID | ELEMENT | FALSE | *logicalChannel* IE in TS 38.331 [22] Sec 6 |  |
| 21 | >DL More than two RLC | STRUCTURE |  |  | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 |
| 22 | >>Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 |  |
| 23 | >>Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 |  |

#### 8.4.2.5 DRB Termination Control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to DRB Termination change, such as *Dual Connectivity Secondary Node Modification (MN/SN initiated)*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Param** | **RAN Parameter definition** | **Semantics Description** |
| 1 | List of DRBs to be modified to SN-Termination | LIST |  |  | *DRBs To Be Modified* IE in TS 38.423 [15] Section 9.2.1.11 |
| 2 | >DRB Item to be modified to SN-Termination | STRUCTURE |  |  | *DRBs To Be Modified Item* IE in TS 38.423 [15] Section 9.2.1.11 |
| 3 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 4 | >>Logical Channel ID | ELEMENT | FALSE | *LCID* IE in TS 38.423 [15] Section 9.2.3.70 |  |
| 5 | >>RLC Status | ELEMENT | FALSE | *RLC Status* IE in TS 38.423 [15] Section 9.2.3.80 |  |
| 6 | >>List of QoS flows to be modified to SN-Termination | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 7 | >>>QoS flow item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 8 | >>>>QoS flow ID | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.1.15 |  |
| 9 | >>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.1.15 |  |
| 10 | List of DRBs to be modified to MN-Termination | LIST |  |  | *DRBs To Be Modified* IE in TS 38.423 [15] Section 9.2.1.9 |
| 11 | >DRB Item to be modified to MN-Termination | STRUCTURE |  |  | *DRBs To Be Modified Item* IE in TS 38.423 [15] Section 9.2.1.9 |
| 12 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 13 | >>Logical Channel ID | ELEMENT | FALSE | *LCID* IE in TS 38.423 [15] Section 9.2.3.70 |  |
| 14 | >>RLC Status | ELEMENT | FALSE | *RLC Status* IE in TS 38.423 [15] Section 9.2.3.80 |  |
| 15 | >>List of QoS flows to be modified to SN-Termination | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 16 | >>>QoS flow item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 17 | >>>>QoS flow ID | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.1.15 |  |
| 18 | >>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.1.15 |  |

#### 8.4.2.6 DRB Split Ratio Control

Upon receiving the *RIC Control Request* message, in the presence of *Downlink PDCP Data Split* IE, the E2 node shall split the downlink PDCP traffic between the Master Node and Secondary Node over the X2/Xn interface based on the recommended ratio. In the presence of *Uplink PDCP Data Split Threshold* IE, the E2 node shall invoke procedures related to DRB Split Ratio Control, such as *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 2 | Uplink PDCP Data Split Threshold | ELEMENT | FALSE | *UL Data Split Threshold* IE in TS 37.483 [21] Section 9.3.1.43 |  |
| 3 | Downlink PDCP Data Split | ELEMENT | FALSE | INTEGER (0..100) Defined in Section 9.4.2 | Indicates the percentage of PDCP traffic that the MN has to split with the SN |

#### 8.4.2.7 PDCP Duplication Control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to PDCP Duplication Control, such as *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *DRB ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 2 | PDCP Duplication | ELEMENT | FALSE | *PDCP Duplication* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 3 | UL More Than One RLC | STRUCTURE |  |  | *moreThanOneRLC* IE in TS 38.331 [22] |
| 4 | >Primary Path | STRUCTURE |  |  | *primaryPath* IE in TS 38.331 [22] Section 6 |
| 5 | >>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 |  |
| 6 | >>Logical Channel ID | ELEMENT | FALSE | *logicalChannel* IE in TS 38.331 [22] Sec 6 |  |
| 7 | UL More Than Two RLC | STRUCTURE |  |  | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 |
| 8 | >Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 |  |
| 9 | >Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 |  |
| 10 | PDCP Duplication Activation | ELEMENT | FALSE | *Duplication Activation* IE in TS 37.483 [21] Section 9.3.1.38 |  |
| 11 | Number of PDCP duplication | ELEMENT | FALSE | *Additional PDCP duplication Information* IE in TS 37.483 [21] Section 9.3.1.38 |  |

### 8.4.4 Connected Mode Mobility Control

#### 8.4.4.1 Handover Control

Upon receiving the *RIC Control Request* message, in the case of Xn/X2 or NG or inter-RAT handovers, the E2 node shall invoke procedures, such as *Handover Preparation* related to UE Mobility Management, *Bearer Context Modification, UE Context Modification*, *RRC Message Transfer*, etc. In the case of intra-gNB or F1 handover, the E2 node shall invoke procedures, such as *UE Context Modification*, *RRC Message Transfer*, etc. The E2 node includes the IEs corresponding to one or more of parameters described below in the related interface messages. If the *Target Primary Cell ID* IE is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure* message.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 1 | Target Primary Cell ID | STRUCTURE |  |  | *Target Cell Global ID* IE in TS 38.423 [15] Section 9.2.3.25 |
| 2 | >CHOICE Target Cell | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 3 | >>NR Cell | STRUCTURE |  |  | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 4 | >>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 |  |
| 5 | >>E-UTRA Cell | STRUCTURE |  |  | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 6 | >>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 |  |
| 7 | List of PDU sessions for handover | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 8 | >PDU session Item for handover | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 9 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 10 | >>List of QoS flows in the PDU session | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 11 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 12 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 13 | List of DRBs for handover | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 14 | >DRB item for handover | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 15 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 16 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 17 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 18 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 19 | List of Secondary cells to be setup | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 20 | >Secondary cell Item to be setup | STRUCTURE |  |  | *Scell To Be Setup Item Ies* IE in TS 38.473 [19] Section 9.2.2.1 |
| 21 | >>Secondary cell ID | ELEMENT | FALSE | *Scell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |

#### 8.4.4.2 Conditional Handover Control

Upon receiving the *RIC Control Request* message, in the case of Xn/X2 or NG or inter-RAT conditional handovers, the E2 node shall invoke procedures, such as *Handover Preparation* related to UE Mobility Management, *Bearer Context Modification, UE Context Modification*, *RRC Message Transfer*, etc. involving the candidate target cells (note that there is only one *Handover Preparation* in the case of NG or inter-RAT handovers). In the case of intra-gNB or F1 conditional handover, the E2 node shall invoke procedures, such as *UE Context Modification*, *RRC Message Transfer*, etc. The E2 node includes the IEs corresponding to one or more of parameters described below in the related interface messages. If the *Target Cell* IE is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure* message.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Param** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | List of Candidate target primary cells | LIST |  |  | *Candidate SpCell List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 2 | >Candidate target primary cell item | STRUCTURE |  |  | *Candidate SpCell Item IEs* IE in TS 38.473 [19] Section 9.2.2.1 |
| 3 | >>CHOICE Target Cell | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 4 | >>>NR | STRUCTURE |  |  | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 5 | >>>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 |  |
| 6 | >>>E-UTRA | STRUCTURE |  |  | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 7 | >>>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 |  |
| 8 | >>Estimated Arrival Probability | ELEMENT | FALSE |  |  |
| 9 | List of PDU sessions for handover | LIST |  |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 10 | >PDU session Item for handover | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 11 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 12 | >>List of QoS flows in the PDU session | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 13 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 14 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 15 | Candidate target primary cell global ID for NG handover | STRUCTURE |  |  | *Target Cell ID* IE in TS 38.413 [11] Section 9.3.1.73 |
| 16 | >CHOICE *Target Cell* | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 17 | >>NR Cell | STRUCTURE |  |  | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 18 | >>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 |  |
| 19 | >>E-UTRA Cell | STRUCTURE |  |  | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 20 | >>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 |  |
| 21 | List of DRBs for handover | LIST |  |  | *DRB To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 22 | >DRB item for handover | STRUCTURE |  |  | *DRB To Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 23 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 24 | >>List of QoS flows in the DRB | LIST |  |  | *Flows Mapped To DRB Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 25 | >>>QoS flow Item | STRUCTURE |  |  |  |
| 26 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.473 [19] Section 9.3.1.63 |  |
| 27 | List of Secondary cells to be setup | LIST |  |  | *SCell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 28 | >Secondary cell Item to be setup | STRUCTURE |  |  | *SCell To Be Setup Item IEs* IE in TS 38.473 [19] Section 9.2.2.1 |
| 29 | >>Secondary cell ID | ELEMENT | FALSE | *SCell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |

#### 8.4.4.3 DAPS Handover Control

Upon receiving the *RIC Control Request* message, in the case of Xn/X2 DAPS handovers, the E2 node shall invoke procedures, such as *Handover Preparation* related to UE Mobility Management, *Bearer Context Modification, UE Context Modification*, *RRC Message Transfer*, etc. In the case of intra-gNB or F1 DAPS handover, the E2 node shall invoke procedures, such as *UE Context Modification*, *RRC Message Transfer*, etc. The E2 node includes the IEs corresponding to one or more of parameters described below in the related interface messages. If the *Target Primary Cell ID* IE is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure* message.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Param** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | Target Primary Cell ID | STRUCTURE |  |  | *Target Cell Global ID* IE in TS 38.423 [15] Section 9.2.3.25 |
| 2 | >CHOICE *Target Cell* | STRUCTURE |  |  | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 |
| 3 | >>NR Cell | STRUCTURE |  |  | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 4 | >>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 |  |
| 5 | >>E-UTRA Cell | STRUCTURE |  |  | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 6 | >>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 |  |
| 7 | List of DRBs subject to DAPS handover | LIST |  |  | *Source DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.17 |
| 8 | >DRB item for handover | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 9 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 10 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 11 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 12 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 13 | >>>>QoS flow mapping indication | ELEMENT | FALSE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 14 | List of DRBs subject to handover without DAPS | LIST |  |  | *Source DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.17 |
| 15 | >DRB item for handover | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 16 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 17 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 18 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 19 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 20 | >>>>QoS flow mapping indication | ELEMENT | FALSE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 21 | List of PDU Sessions subject for handover | LIST |  |  | *PDU Session Resources To Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 22 | >PDU Session Item | STRUCTURE |  |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 23 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.1.1 |  |
| 24 | >>List of DRBs subject to DAPS handover | LIST |  |  | *Source DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.17 |
| 25 | >>>DRB item for handover | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 26 | >>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 27 | >>>>List of QoS flows in the DRB | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 28 | >>>>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 29 | >>>>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 30 | >>>>>>QoS flow mapping indication | ELEMENT | FALSE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 31 | >>List of DRBs subject to handover without DAPS | LIST |  |  | *Source DRB to QoS Flow Mapping List* IE in TS 38.423 [15] Section 9.2.1.17 |
| 32 | >>>DRB item for handover | STRUCTURE |  |  | *DRB to QoS Flow Mapping Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 33 | >>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.423 [15] Section 9.2.3.33 |  |
| 34 | >>>>List of QoS flows in the DRB | LIST |  |  | *QoS Flows List* IE in TS 38.423 [15] Section 9.2.1.15 |
| 35 | >>>>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.1.15 |
| 36 | >>>>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 37 | >>>>>>QoS flow mapping Indication | ELEMENT | FALSE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.79 |  |

### 8.4.5 Radio Access Control

#### 8.4.5.1 UE admission control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to UE admission control, such as *PDU Session Management*, *Bearer Context Management*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | | **RAN Parameter Definition** | **Semantics Description** |
| 1 | Primary Cell ID | STRUCTURE |  | |  | *Target Cell Global ID* IE in TS 38.423 [15] clause 9.2.3.25 |
| 2 | >CHOICE *Primary Cell* | STRUCTURE |  | |  | *Target Cell* IE in TS 38.423 [15] clause 9.2.3.25 |
| 3 | >>NR Cell | STRUCTURE |  | |  | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 4 | >>>NR CGI | ELEMENT | FALSE | | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 |  |
| 5 | >>E-UTRA Cell | STRUCTURE |  | |  | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 6 | >>>E-UTRA CGI | ELEMENT | FALSE | | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 |  |
| 7 | List of PDU sessions for admission | LIST |  | |  | *PDU Session Resources To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 8 | >PDU session Item for admission | STRUCTURE |  | |  | *PDU Session Resources To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 9 | >>PDU Session ID | ELEMENT | TRUE | | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 10 | >>List of DRBs for admission | LIST |  | |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 11 | >>>DRB item for admission | STRUCTURE |  | |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 12 | >>>>DRB ID | ELEMENT | TRUE | | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 13 | >>>>List of QoS flows in the DRB | LIST |  | |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 14 | >>>>>QoS flow Item | STRUCTURE |  | |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 15 | >>>>>>QoS flow Identifier | ELEMENT | TRUE | | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |
| 16 | >>>>>>QoS flow mapping indication | ELEMENT | TRUE | | *QoS Flow Mapping Indication* IE in TS 37.483 [21] Section 9.3.1.60 |  |
| 17 | >>>List of cell groups to be added | LIST |  |  | | *Cell Group To Add* IE in TS 37.483 [21] Section 9.3.3.11 | |
| 18 | >>>>Cell group item | STRUCTURE |  |  | | *Cell Group Item* IE in TS 37.483 [21] Section 9.3.1.11 | |
| 19 | >>>>>Cell Group ID | ELEMENT | TRUE | *Cell Group ID* IE in TS 37.483 [21] Section 9.3.1.11 | |  | |
| 20 | >>>SDAP Configuration | STRUCTURE |  |  | | *SDAP Configuration* IE in TS 37.483 [21] Section 9.3.1.39 | |
| 21 | >>>Default DRB | ELEMENT | FALSE | *Default DRB* IE in TS 37.483 [21] Section 9.3.1.39 | |  | |
| 22 | >>>PDCP Configuration | STRUCTURE |  |  | | *PDCP Configuration* IE in TS 37.483 [21] Section 9.3.1.38 | |
| 23 | >>>RLC mode | ELEMENT | FALSE | *RLC mode* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 24 | >>>PDCP Duplication | ELEMENT | FALSE | *PDCP Duplication* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 25 | >>>UL Data Split Threshold | ELEMENT | FALSE | *UL Data Split Threshold* IE in TS 37.483 [21] Section 9.3.1.43 | |  | |
| 26 | >>>PDCP Re-establishment | ELEMENT | FALSE | *PDCP Re-establishment* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 27 | >>>PDCP Data Recovery | ELEMENT | FALSE | *PDCP Data Recovery* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 28 | >>>Out-of-Order Delivery | ELEMENT | FALSE | *Out of Order Delivery* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 29 | >>>PDCP Status Report Indication | ELEMENT | FALSE | *PDCP Status Report Indication* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 30 | >>>Number of PDCP duplication | ELEMENT | FALSE | *Additional PDCP duplication Information* IE in TS 37.483 [21] Section 9.3.1.38 | |  | |
| 31 | >>>UL More than one RLC | STRUCTURE |  |  | | *moreThanOneRLC* IE in TS 38.331 [22] Section 6 | |
| 32 | >>>>Primary Path | STRUCTURE |  |  | | *primaryPath* IE in TS 38.331 [22] Section 6 | |
| 33 | >>>>>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 | |  | |
| 34 | >>>>>Logical Channel ID | ELEMENT | FALSE | *logicalChannel* IE in TS 38.331 [22] Sec 6 | |  | |
| 35 | >>>UL More than two RLC | STRUCTURE |  |  | | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 | |
| 36 | >>>>Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 | |  | |
| 37 | >>>>Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 | |  | |
| 38 | >>>DL More than one RLC | STRUCTURE |  |  | | *moreThanOneRLC* IE in TS 38.331 [22] Section 6 | |
| 39 | >>>>Primary Path | STRUCTURE |  |  | | *primaryPath* IE in TS 38.331 [22] Section 6 | |
| 49 | >>>>>Cell Group ID | ELEMENT | TRUE | *cellGroup* IE in TS 38.331 [22] Section 6 | |  | |
| 50 | >>>>>Logical Channel ID | ELEMENT | FALSE | *logicalChannel* IE in TS 38.331 [22] Sec 6 | |  | |
| 51 | >>>DL More than two RLC | STRUCTURE |  |  | | *moreThanTwoRLC-DRB-r16* IE in TS 38.331 [22] Section 6 | |
| 52 | >>>>Split Secondary Path | ELEMENT | FALSE | *splitSecondaryPath* IE in TS 38.331 [22] Sec 6 | |  | |
| 53 | >>>>Duplication State | ELEMENT | FALSE | *duplicationState* IE in TS 38.331 [22] Sec 6 | |  | |
| 54 | List of Secondary cells to be setup | LIST |  | |  | *Scell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 55 | >Secondary cell Item to be setup | STRUCTURE |  | |  | *Scell To Be Setup Item Ies* IE in TS 38.473 [19] Section 9.2.2.1 |
| 56 | >>Secondary cell ID | ELEMENT | FALSE | | *Scell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |

### 8.4.6 Dual Connectivity Control

#### 8.4.6.1 DC Secondary Node Addition Control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to DC Secondary Node Addition Control, such as *Dual Connectivity Secondary Node Addition*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages. If the *Secondary Node ID* is missing in the *RIC Control Request* message, the E2 node will send a *RIC Control Failure*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | Secondary Node ID | STRUCTURE |  |  | *Global NG-RAN Node ID* IE in TS 38.423 [15] Section 9.2.2.3 |
| 2 | >CHOICE Secondary Node Type | STRUCTURE |  |  |  |
| 3 | >>Secondary Node gNB | STRUCTURE |  |  | *Global ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.1 |
| 4 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 |  |
| 5 | >>>gNB ID | ELEMENT | FALSE | *gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 |  |
| 6 | >>Secondary Node ng-eNB | STRUCTURE |  |  | *Global ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 |
| 7 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 |  |
| 8 | >>>ng-eNB ID | ELEMENT | FALSE | *Long Macro ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 |  |
| 9 | >>Secondary Node en-gNB | STRUCTURE |  |  | *en-gNB* IE in TS 36.423 [17] Sec |
| 10 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 |  |
| 11 | >>>en-gNB ID | ELEMENT | FALSE | *Global en-gNB ID* IE in TS 36.423 [17] Section 9.2.4 |  |
| 12 | List of PDU Sessions to be Added | LIST |  |  | *PDU Session Resources To Be Added List* IE in TS 38.423 [15] Section 9.1.2.1 |
| 13 | >PDU Session to be Added Item | STRUCTURE |  |  | *PDU Session Resources To Be Added Item* IE in TS 38.423 [15] Section 9.1.2.1 |
| 14 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 15 | >>PDU Session Resource Setup Info – SN-Terminated | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN Terminated* IE in TS 38.423 [15] Section 9.2.1.5 |
| 16 | >>>QoS Flow To Be Setup List | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.5 |
| 17 | >>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flows To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.5 |
| 18 | >>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 19 | >>>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 20 | >>>Default DRB allowed | ELEMENT | FALSE | *Default DRB Allowed* IE in TS 38.423 [15] Section 9.2.3.93 |  |
| 21 | >>PDU Session Resource Setup Info – MN-Terminated | STRUCTURE |  |  | *PDU Session Resource Setup Info – SN Terminated* IE in TS 38.423 [15] Section 9.2.1.7 |
| 22 | >>>DRBs To Be Setup List | STRUCTURE |  |  | *DRBs To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.7 |
| 23 | >>>>DRB To Be Setup Item | STRUCTURE |  |  | *DRBs To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.7 |
| 24 | >>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 25 | >>>>>QoS Flow To Be Setup List | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.5 |
| 26 | >>>>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 38.423 [15] Section 9.2.3.10 |
| 27 | >>>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 28 | >>>>>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 29 | List of SN-terminated DRB IDs | LIST |  |  | *Additional DRB IDs* IE in TS 38.423 [15] Section 9.2.1.29 |
| 30 | >SN-Terminated DRB Item | STRUCTURE |  |  |  |
| 31 | >>DRB Identity | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 32 | List of E-RABs to be Added | LIST |  |  | *E-RABs To Be Added List* IE in TS 36.423 [17] Section 9.1.4.1 |
| 33 | >E-RAB to be Added Item | STRUCTURE |  |  | *E-RABs To Be Added Item* IE in TS 36.423 [17] Section 9.1.4.1 |
| 34 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  |
| 35 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 |
| 36 | >>>PDCP at SgNB | ELEMENT | FALSE | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  |
| 37 | >>>MCG Resources | ELEMENT | FALSE | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  |
| 38 | >>>SCG Resources | ELEMENT | FALSE | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  |

#### 8.4.6.2 DC Secondary Node Modification Control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to DC Secondary Node Modification Control, such as *Dual Connectivity Secondary Node Modification*, *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 1 | Secondary Node | STRUCTURE |  |  | *Global NG-RAN Node ID* IE in TS 38.423 [15] Section 9.2.2.3 |
| 2 | CHOICE Secondary Node Type | STRUCTURE |  |  |  |
| 3 | >Secondary Node gNB | STRUCTURE |  |  | *Global gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 |
| 4 | >>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 |  |
| 5 | >>gNB ID | ELEMENT | FALSE | *gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 |  |
| 6 | >Secondary Node ng-eNB | STRUCTURE |  |  | *Global ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 |
| 7 | >>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 |  |
| 8 | >>ng-eNB ID | ELEMENT | FALSE | *Long Macro ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 |  |
| 9 | >Secondary Node en-gNB | STRUCTURE |  |  | *en-gNB* IE in TS 36.423 [17] Sec |
| 10 | >>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 |  |
| 11 | >>en-gNB ID | ELEMENT | FALSE | *Global en-gNB ID* IE in TS 36.423 [17] Section 9.2.4 |  |
| 12 | List of PDU Session Resources to be modified | LIST |  |  | PDU Session Resources To Be Modified List IE in TS 38.423 [15] Section 9.1.2.5 |
| 13 | >PDU Session Resource to be Modified Item | STRUCTURE |  |  | PDU Session Resources To Be Modified Item IE in TS 38.423 [15] Section 9.1.2.5 |
| 14 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 15 | >>PDU Session Resource Modification Info – SN-Terminated | STRUCTURE |  |  | PDU Session Resource Modification Info – SN Terminated IE in TS 38.423 [15] Section 9.2.1.9 |
| 16 | >>>QoS Flows To Be Setup List | LIST |  |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.9 |
| 17 | >>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flows To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.9 |
| 18 | >>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 19 | >>>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 20 | >>>>>Redundant QoS Flow Indicator | ELEMENT | FALSE |  |  |
| 21 | >>>QoS Flows To Be Modified List | LIST |  |  | *QoS Flows To Be Modified List* IE in TS 38.423 [15] Section 9.2.1.9 |
| 22 | >>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flows To Be Modified Item* IE in TS 38.423 [15] Section 9.2.1.9 |
| 23 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 24 | >>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 25 | >>>>Redundant QoS Flow Indicator | ELEMENT | FALSE | *Redundant QoS Flow Indicator* IE in TS 38.423 [15] Section 9.2.3.118 |  |
| 26 | >>>QoS Flows To Be Released List | LIST |  |  | *QoS Flows To Be Released List* IE in TS 38.423 [15] Section 9.2.1.9 |
| 27 | >>>>QoS Flow Item | STRUCTURE |  |  | *QoS Flow With Cause Item* IE in TS 38.423 [15] Section 9.2.1.4 |
| 28 | >>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 29 | >>>Default DRB allowed | ELEMENT | FALSE | *Default DRB Allowed* IE in TS 38.423 [15] Section 9.2.3.93 |  |
| 30 | >>PDU Session Resource Modification Info – MN-Terminated | STRUCTURE |  |  | *PDU Session Resource Modification Info – MN Terminated* IE in TS 38.423 [15] Section 9.2.1.11 |
| 31 | >>>DRBs to be setup list | LIST |  |  | *DRBs To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.11 |
| 32 | >>>>DRBs to be setup item | STRUCTURE |  |  | *DRBs To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.11 |
| 33 | >>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 34 | >>>>>DRB QoS | STRUCTURE |  |  |  |
| 35 | >>>>>PDCP Duplication Activation | ELEMENT | TRUE | *Duplication Activation* IE in TS 37.483 [21] Section 9.2.3.71 |  |
| 36 | >>>>>QoS Flows Mapped to DRB List | LIST |  |  | *QoS Flows Mapped to DRB List* IE in TS 37.483 [21] Section 9.2.1.11 |
| 37 | >>>>>>QoS Flows Mapped to DRB Item | STRUCTURE |  |  | *QoS Flows Mapped To DRB Item* IE in TS 37.483 [21] Section 9.2.1.11 |
| 38 | >>>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 39 | >>>>>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 40 | >>>DRBs to be modified list | LIST |  |  | *DRBs To Be Modified List* IE in TS 37.483 [21] Section 9.2.1.11 |
| 41 | >>>>DRB to be modified item | STRUCTURE |  |  | *DRBs To Be Modified Item* IE in TS 37.483 [21] Section 9.2.1.11 |
| 42 | >>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 43 | >>>>>DRB QoS | STRUCTURE |  |  |  |
| 44 | >>>>>PDCP Duplication Configuration | ELEMENT | FALSE | *PDCP Duplication Configuration* IE in TS 37.483 [21] Section 9.2.3.86 |  |
| 45 | >>>>>PDCP Duplication Activation | ELEMENT | FALSE | *Duplication Activation* IE in TS 37.483 [21] Section 9.2.3.71 |  |
| 46 | >>>>>QoS Flows Mapped to DRB List | LIST |  |  | *Flow Mapping Information* IE in TS 37.483 [21] Section 9.3.1.26 |
| 47 | >>>>>>QoS Flows Mapped to DRB Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 48 | >>>>>>>QoS Flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 49 | >>>>>>>QoS Flow Mapping Indication | ELEMENT | FALSE | *QoS Flow Mapping Indication* IE in TS 38.423 [15] Section 9.2.3.79 |  |
| 50 | >>>DRBs to be released list | LIST |  |  | *DRBs To Be Released List* IE in TS 38.423 [15] Section 9.2.1.28 |
| 51 | >>>>DRB to be released item | STRUCTURE |  |  | *DRBs To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.11 |
| 52 | >>>>>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 37.483 [21] Section 9.3.1.16 |  |
| 53 | List of PDU Session Resources to be deleted | LIST |  |  | *PDU Session Resources To Be Released List* IE in TS 38.423 [15] Section 9.1.2.5 |
| 54 | >PDU Session Resource to be deleted Item | STRUCTURE |  |  | *PDU Session Resource To Be Released Item* IE |
| 55 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 |  |
| 56 | List of E-RABs to be Modified | LIST |  |  | *E-RABs To Be Modified List* IE in TS 36.423 [17] Section 9.1.4.5 |
| 57 | >E-RAB to be Modified Item | STRUCTURE |  |  | *E-RAB To Be Modified Item* IE in TS 36.423 [17] Section 9.1.4.5 |
| 58 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  |
| 59 | >>EN-DC Resource Configuration | STRUCTURE |  |  | *EN-DC Resource Configuration* IE in TS 36.423 [17] Section 9.2.108 |
| 60 | >>>PDCP at SgNB | ELEMENT | FALSE | *PDCP at SgNB* IE in TS 36.423 [17] Section 9.2.108 |  |
| 61 | >>>MCG Resources | ELEMENT | FALSE | *MCG resources* IE in TS 36.423 [17] Section 9.2.108 |  |
| 62 | >>>SCG Resources | ELEMENT | FALSE | *SCG resources* IE in TS 36.423 [17] Section 9.2.108 |  |
| 63 | List of E-RABs to be Released | LIST |  |  | *E-RABs To Be Released List* IE in TS 36.423 [17] Section 9.1.4.5 |
| 64 | >E-RAB to be Released Item | STRUCTURE |  |  | *E-RABs To Be Released Item* IE in TS 36.423 [17] Section 9.1.4.5 |
| 65 | >>E-RAB ID | ELEMENT | TRUE | *E-RAB ID* IE in TS 36.423 [17] Section 9.2.23 |  |

#### 8.4.6.3 PSCell Change control for Secondary Cell Group

Upon receiving the *RIC Control Request* message, in the case of intra-SN PSCell change, the E2 node shall invoke procedures related to PSCell Change Control, such as *Dual Connectivity Secondary Node Modification*, *UE Context Modification*, *RRC Message Transfer*, etc. In the case of inter-SN PSCell change, the E2 node shall invoke procedures such as *Dual Connectivity Secondary Node Release* (MN/SN-initiated) or *SN Change* (only SN-initiated), *Bearer Context Modification*, *UE Context Modification*, *RRC Message Transfer*, etc. The E2 node then includes the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | | Semantics Description |
| 1 | Target PSCell ID | STRUCTURE |  |  | | *Target Cell Global ID* IE in TS 38.423 [15] Section 9.2.3.25 |
| 2 | >CHOICE Target Cell | STRUCTURE |  |  | | *Target Cel*l IE in TS 38.423 [15] Section 9.2.3.25 |
| 3 | >>NR Cell | STRUCTURE |  |  | | *NR* IE in TS 38.423 [15] Section 9.2.3.25 |
| 4 | >>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 | |  |
| 5 | >>E-UTRA Cell | STRUCTURE |  |  | | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 |
| 6 | >>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 | |  |
| 7 | Secondary Node ID | STRUCTURE |  |  | | *Global NG-RAN Node ID* IE in TS 38.423 [15] Section 9.2.2.3 |
| 8 | >CHOICE Secondary Node Type | STRUCTURE |  |  | |  |
| 9 | >>Secondary Node gNB | STRUCTURE |  |  | | *Global gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 |
| 10 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 | |  |
| 11 | >>>gNB ID | ELEMENT | FALSE | *gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 | |  |
| 12 | >>Secondary Node ng-eNB | STRUCTURE |  |  | | *Global ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 |
| 13 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 | |  |
| 14 | >>>ng-eNB ID | ELEMENT | FALSE | *Long Macro ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 | |  |
| 15 | >>Secondary Node en-gNB | STRUCTURE |  |  | | *en-gNB* IE in TS 36.423 [17] Sec |
| 16 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 | |  |
| 17 | >>>en-gNB ID | ELEMENT | FALSE | *Global en-gNB ID* IE in TS 36.423 [17] Section 9.2.4 | |  |
| 18 | PDU Session SN Change Required List | LIST |  |  | | *PDU Session SN Change Required List* IE in TS 38.423 [15] Section 9.1.2.11 |
| 19 | >PDU Session SN Change Required Item | STRUCTURE |  |  | | *PDU Session SN Change Required Item* IE in TS 38.423 [15] Section 9.1.2.11 |
| 20 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 | |  |
| 21 | >>List of QoS flows in the PDU session | LIST |  | |  | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 22 | >>>QoS flow Item | STRUCTURE |  | |  | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 23 | >>>>QoS Flow Identifier | ELEMENT | TRUE | | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 |  |
| 24 | List of DRBs for PSCell handover | LIST |  |  | | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 25 | >DRB item for PSCell handover | STRUCTURE |  |  | | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 26 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 | |  |
| 27 | >>List of QoS flows in the DRB | LIST |  |  | | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 28 | >>>QoS flow Item | STRUCTURE |  |  | | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 29 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 | |  |

#### 8.4.6.4 DC Secondary Node Change Control

Upon receiving the RIC Control Request message, the E2 node shall invoke procedures such as Dual Connectivity Secondary Node Release (MN/SN-initiated) or SN Change (only SN-initiated), Bearer Context Modification, UE Context Modification, RRC Message Transfer, etc. and includes the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | | Semantics Description | |
| 1 | Target PSCell ID | STRUCTURE |  |  | | *Target Cell Global ID* IE in TS 38.423 [15] Section 9.2.3.25 | |
| 2 | >CHOICE Target Cell | STRUCTURE |  |  | | *Target Cell* IE in TS 38.423 [15] Section 9.2.3.25 | |
| 3 | >>NR Cell | STRUCTURE |  |  | | *NR* IE in TS 38.423 [15] Section 9.2.3.25 | |
| 4 | >>>NR CGI | ELEMENT | FALSE | *NR CGI* IE in TS 38.423 [15] Section 9.2.2.7 | |  | |
| 5 | >>E-UTRA Cell | STRUCTURE |  |  | | *E-UTRA* IE in TS 38.423 [15] Section 9.2.3.25 | |
| 6 | >>>E-UTRA CGI | ELEMENT | FALSE | *E-UTRA CGI* IE in TS 38.423 [15] Section 9.2.2.8 | |  | |
| 7 | Target Secondary Node ID | STRUCTURE |  |  | | *Target S-NG-RAN node ID* IE in TS 38.423 [15] Section 9.1.2.11 | |
| 8 | >CHOICE Target Secondary Node Type | STRUCTURE |  |  | |  | |
| 9 | >>Secondary Node gNB | STRUCTURE |  |  | | *Global gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 | |
| 10 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 | |  | |
| 11 | >>>gNB ID | ELEMENT | FALSE | *gNB ID* IE in TS 38.423 [15] Section 9.2.2.1 | |  | |
| 12 | >>Secondary Node ng-eNB | STRUCTURE |  |  | | *Global ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 | |
| 13 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 38.423 [15] Section 9.2.2.4 | |  | |
| 14 | >>>ng-eNB ID | ELEMENT | FALSE | *Long Macro ng-eNB ID* IE in TS 38.423 [15] Section 9.2.2.2 | |  | |
| 15 | >>Secondary Node en-gNB | STRUCTURE |  |  | | *en-gNB* IE in TS 36.423 [17] Sec | |
| 16 | >>>PLMN Identity | ELEMENT | FALSE | *PLMN Identity* IE in TS 36.423 [17] Section 9.2.4 | |  | |
| 17 | >>>en-gNB ID | ELEMENT | FALSE | *Global en-gNB ID* IE in TS 36.423 [17] Section 9.2.4 | |  | |
| 18 | PDU Session SN Change Required List | LIST |  |  | | *PDU Session SN Change Required List* IE in TS 38.423 [15] Section 9.1.2.11 | |
| 19 | >PDU Session SN Change Required Item | STRUCTURE |  |  | | *PDU Session SN Change Required Item* IE in TS 38.423 [15] Section 9.1.2.11 | |
| 20 | >>PDU Session ID | ELEMENT | TRUE | *PDU Session ID* IE in TS 38.423 [15] Section 9.2.3.18 | |  | |
| 21 | >>List of QoS flows in the PDU session | LIST |  | |  | | *QoS Flows To Be Setup List* IE in TS 38.423 [15] Section 9.2.1.1 |
| 22 | >>>QoS flow Item | STRUCTURE |  | |  | | *QoS Flow To Be Setup Item* IE in TS 38.423 [15] Section 9.2.1.1 |
| 23 | >>>>QoS Flow Identifier | ELEMENT | TRUE | | *QoS Flow Identifier* IE in TS 38.423 [15] Section 9.2.3.10 | |  |
| 24 | List of DRBs for PSCell handover | LIST |  |  | | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 | |
| 25 | >DRB item for PSCell handover | STRUCTURE |  |  | | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 | |
| 26 | >>DRB ID | ELEMENT | TRUE | *DRB ID* IE in TS 38.473 [19] Section 9.3.1.8 | |  | |
| 27 | >>List of QoS flows in the DRB | LIST |  |  | | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 | |
| 28 | >>>QoS flow Item | STRUCTURE |  |  | | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 | |
| 29 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 | |  | |

### 8.4.7 Carrier Aggregation Control

#### 8.4.7.1 Secondary cell Addition control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to Secondary cell Addition Control, such as *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RAN Parameter ID | RAN Parameter | RAN Parameter Value Type | Key Flag | RAN Parameter Definition | Semantics Description |
| 1 | List of secondary cells to be setup | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 2 | >Secondary cell to be setup Item | STRUCTURE |  |  | *Scell To Be Setup Item Ies* IE in TS 38.473 [19] Section 9.2.2.1 |
| 3 | >>Scell Cell Global ID | ELEMENT | FALSE | *Scell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |
| 4 | >>Scell UL Configured | ELEMENT | FALSE | *Cell UL Configured* IE in TS 38.473 [19] Section 9.3.1.33 |  |
| 5 | List of DRBs to be served using SCells | LIST |  |  | *DRB to Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 6 | >DRB item | STRUCTURE |  |  | *DRB to Be Setup Item* IE in TS 38.473 [19] Section 9.2.2.1 |
| 7 | >>DRB ID | ELEMENT | TRUE | DRB ID IE in TS 38.473 [19] Section 9.3.1.8 |  |
| 8 | >>List of QoS flows in the DRB | LIST |  |  | *QoS Flows Information To Be Setup* IE in TS 37.483 [21] Section 9.3.3.2 |
| 9 | >>>QoS flow Item | STRUCTURE |  |  | *QoS Flow Item* IE in TS 37.483 [21] Section 9.3.1.25 |
| 10 | >>>>QoS flow Identifier | ELEMENT | TRUE | *QoS Flow Identifier* IE in TS 37.483 [21] Section 9.3.1.25 |  |

#### 8.4.7.2 Secondary cell Modification control

Upon receiving the *RIC Control Request* message, the E2 node shall invoke procedures related to Secondary cell Modification Control, such as *UE Context Management*, *RRC Message Transfer*, etc. and include the IEs corresponding to one or more of parameters described below in the related interface messages.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 1 | List of secondary cells to be setup | LIST |  |  | *Scell To Be Setup List* IE in TS 38.473 [19] Section 9.2.2.1 |
| 2 | >Secondary cell to be setup Item | STRUCTURE |  |  | *Scell To Be Setup Item Ies* IE in TS 38.473 [19] Section 9.2.2.1 |
| 3 | >>Scell Global ID | ELEMENT | FALSE | *Scell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |
| 4 | >>Scell UL Configured | ELEMENT | FALSE | *Cell UL Configured* IE in TS 38.473 [19] Section 9.3.1.33 |  |
| 5 | List of Scells to be removed | LIST |  |  | *SCell To Be Removed List* IE in TS 38.473 [19] Section 9.2.2.7 |
| 6 | >Scell to be removed Item | STRUCTURE |  |  | *SCell to Be Removed Item IEs* IE in TS 38.473 [19] Section 9.2.2.7 |
| 7 | >>Scell Global ID | ELEMENT | FALSE | *Scell ID* IE in TS 38.473 [19] Section 9.2.2.1 |  |

#### 8.5.2.6 DRB Split Ratio Control

##### 8.5.2.6.1 Control action

The RAN parameters associated with this policy type are listed in Section 8.4.2.6 Table 1.

##### 8.5.2.6.2 Offset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **RAN Parameter ID** | **RAN Parameter** | **RAN Parameter Value Type** | **Key Flag** | **RAN Parameter Definition** | **Semantics Description** |
| 101 | Uplink PDCP Data Split Threshold offset | ELEMENT | FALSE | INTEGER | *UL Data Split Threshold* IE in TS 37.483 [21] Section 9.3.1.43 |
| 102 | Downlink PDCP Data Split | ELEMENT | FALSE | INTEGER | *Downlink PDCP Data Split* IE in 8.4.2.6 |

\*\*\*\*\*\*\*\*\*\* END OF MODIFIED SECTION\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\* END OF MODIFIED SECTION\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\* NEXT MODIFIED SECTION \*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\* END OF MODIFIED SECTION\*\*\*\*\*\*\*\*\*\*