**3GPP SA3LI#89 *s3i230309***

**25-28 April 2023, Washington, DC (US)**

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

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| ***Title:***  |  |
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| ***Source to WG:*** | SA3-LI (Ericsson, OTD\_US, Nokia, Nokia Shanghai Bell) |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | 7 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | The current description of parameter ePS5GSComboInfo requires to include the parameter to provide detailed information about PDN associated with PDU Sessions when the SMFPDUSessionEstablishment xIRI message is used to report the activation of a PDN connection under 4G.Instead, looking at also the information included in the parameter, it shall be included when a PDU session is handled under 5G coverage and reports information about the associated PDN connection.The current description of parameters nBIFOMSupport and restorationOfPDNConnectionsSupport refer only to Create Session Request Message, while the parameter can also be included in a Session Modification Request and shall be reported also in that case. |
|  |  |
| ***Summary of change:*** | The current text is corrected. |
|  |  |
| ***Consequences if not approved:*** | Missing or wrong information would be sent to the LEMF. |
|  |  |
| ***Clauses affected:*** | 6.2.3.2.2, 6.2.3.2.3, 6.2.3.2.4, 6.2.3.2.5, 6.3.3.2.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | S3i230241 |

##### \*\*\* FIRST CHANGE \*\*\*

##### 6.2.3.2.2 PDU session establishment

The IRI-POI in the SMF shall generate an xIRI containing an SMFPDUSessionEstablishment record when the IRI-POI present in the SMF detects that a single-access PDU session has been established for the target UE. The IRI-POI present in the SMF shall generate the xIRI for the following events:

- For a non-roaming scenario, the SMF (or for a roaming scenario, V-SMF in the VPLMN), sends the N1 NAS message (via AMF) PDU SESSION ESTABLISHMENT ACCEPT to the UE and the 5G Session Management (5GSM) state within the SMF is changed to PDU SESSION ACTIVE (see TS 24.501 [13]). If SMF receives a Npcf\_SMPolicyControl\_Create response from the PCF for the target UE in response to Npcf\_SMPolicyControl\_Create request sent by SMF to PCF including PCC rules which traffic control policy data contains either a routeToLocs IE or trafficSteeringPolIdDl IE and/or trafficSteeringPolIdUl IE, SMF includes them in the xIRI. These PCC rules correspond to policies that influence the target UE’s traffic flows (see TS 29.513 [88] clause 5.5.3).

- For a home-routed roaming scenario, the SMF in the HPLMN (i.e. H-SMF) sends the N16: Nsmf\_PDU\_Session\_Create response message with n1SmInfoToUe IE containing the PDU SESSION ESTABLISHMENT ACCEPT (see TS 29.502 [16]).

Table 6.2.3-1: Payload for SMFPDUSessionEstablishment record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI associated with the PDU session (e.g. as provided by the AMF in the associated Nsmf\_PDU\_Session\_CreateSMContext service operation). Shall be present except for PEI-only unauthenticated emergency sessions (see NOTE). | C |
| sUPIUnauthenticated | Shall be present if a SUPI is present in the message and set to “true” if the SUPI has not been authenticated, or “false” if it has been authenticated. | C |
| pEI | PEI associated with the PDU session if available (see NOTE). | C |
| gPSI | GPSI associated with the PDU session if available (see NOTE). | C |
| pDUSessionID | PDU Session ID See TS 24.501 [13] clause 9.4. | M |
| gTPTunnelID | Contains the F-TEID identifying the UPF endpoint of the GTP tunnel used to encapsulate the traffic derived from the UL NG-U UP TNL Information (see TS 38.413 clause 9.3.4.1), as defined in TS 29.244 [15] clause 8.2.3. Non-GTP encapsulation is for further study. | M |
| pDUSessionType | Identifies selected PDU session type, see TS 24.501 [13] clause 9.11.4.11. | M |
| sNSSAI | Slice identifiers associated with the PDU session, if available. See TS 23.003 [19] clause 28.4.2 and TS 23.501 [2] clause 5.15.2. | C |
| uEEndpoint | UE endpoint address(es) assigned to the PDU Session if available (see TS 29.244 [15] clause 5.21). | C |
| non3GPPAccessEndpoint | UE's local IP address used to reach the N3IWF, TNGF or TWIF, if available. IP addresses are given as 4 octets (for IPv4) or 16 octets (for IPv6) with the most significant octet first (network byte order). | C |
| location | Location information provided by the AMF or present in the context at the SMF, if available. | C |
| dNN | Data Network Name requested by the target UE, as defined in TS 23.003[19] clause 9A and described in TS 23.502 [4] clause 4.3.2.2. Shall be given in dotted-label presentation format as described in TS 23.003 [19] clause 9.1. | M |
| aMFID | Identifier of the AMF associated with the target UE, as defined in TS 23.003 [19] clause 2.10.1 if available. | C |
| hSMFURI | URI of the Nsmf\_PDUSession service of the selected H-SMF, if available. See TS 29.502 [16] clause 6.1.6.2.2. | C |
| requestType | Type of request as described in TS 24.501 [13] clause 9.11.3.47 provided within the Nsmf\_PDU\_Session\_CreateSMContext Request (TS 29.502 [16]) message shall be reported.In the case where the network does not support Multi Access (MA) PDU sessions, but receives a MA PDU session request, a request type of “Initial request” shall be reported.In the case where the network does not provide a request type value for a non-MA PDU session, a request type of “initial request”, according to TS 24.501 [13] clause 6.4.1.2 shall be reported. | M |
| accessType | Access type associated with the session (i.e. 3GPP or non-3GPP access) if provided by the AMF (see TS 24.501 [13] clause 9.11.2.1A). | C |
| rATType | RAT Type associated with the access if provided by the AMF as part of session establishment (see TS 23.502 [4] clause 4.3.2). Values given as per TS 29.571 [17] clause 5.4.3.2. | C |
| sMPDUDNRequest | Contents of the SM PDU DN Request container, if available, as described in TS 24.501 [13] clause 9.11.4.15. | C |
| uEEPSPDNConnection | This IE shall be present, if available, during an EPS to 5GS Idle mode mobility or handover using the N26 interface. If present, it shall contain the EPS bearer context(s) information present in the uEEPSPDNConnection parameter of the intercepted SmContextCreateData message. (see TS 29.502 [16] clause 6.1.6.2.2). | C |
| ePS5GSComboInfo | Provides detailed information about PDN Connections associated with the reported PDU Session. Shall be included if the AMF has selected a SMF+PGW-C to serve the PDU session. This parameter shall include the additional IEs in Table 6.2.3-1A, if present. | C |
| selectedDNN | Shall be present if a DNN other than the UE requested DNN is selected for the PDU Session. Shall be given in dotted-label presentation format as described in TS 23.003 [19] clause 9.1. | C |
| servingNetwork | PLMN ID of the serving core network operator, and, for a Non-Public Network (NPN), the NID that together with the PLMN ID identifies the NPN. Shall be present if this IE is in the SMContextCreateData or PDUSessionCreateData message sent to the SMF or the PDU Session Context or SM Context at the SMF (see TS 29.502 [16] clauses 6.1.6.2.2, 6.1.6.2.9 and 6.1.6.2.39). | C |
| oldPDUSessionID | Shall be present if this IE is in the SMContextCreateData or PDUSessionCreateData message sent to the SMF or the PDU Session Context or SM Context at the SMF (see TS 29.502 [16] clauses 6.1.6.2.2, 6.1.6.2.9 and 6.1.6.2.39). | C |
| handoverState | Indicates whether the PDU Session Establishment being reported was due to a handover. Shall be present if this IE is in the SMContextCreatedData sent by the SMF (see TS 29.502 [16] clause 6.1.6.2.3). | C |
| gTPTunnelInfo | Contains the information for the User Plane GTP Tunnels for the PDU Session (see TS 29.502 [16] clauses 6.1.6.2.2, 6.1.6.2.9 and 6.1.6.2.39). See Table 6.2.3-1B. | M |
| pCCRules | Set of PCC rules related to traffic influence. Each PCC rule influences the routing of a given traffic flow. If several flows are concerned, then several PCC rules shall be handled by the SMF. Traffic influence policies are originated by an AF. PCF translates these rules into PCC rules for traffic influence. The payload of a PCC rule for traffic influence is defined in Table 6.2.3-1E. | C |
| ePSPDNConnectionEstablishment | Provides details about PDN Connections when the SMFPDUSessionEstablishment xIRI message is used to report PDN Connection establishment. See Table 6.3.3-1 and clause 6.3.3.2.2. | C |
| NOTE: At least one of the SUPI, PEI or GPSI fields shall be present. |

Table 6.2.3-1A: Payload for ePS5GSComboInfo

|  |  |  |
| --- | --- | --- |
| ePSInterworkingIndication | Indicates whether and how the PDU Session may be moved to EPS. Shall be derived from the EpsInterworkingIndication associated with the PDU Session at the SMF+PGW-C(see TS 29.502 [16] clause 6.1.6.3.11). | M |
| ePSSubscriberIDs | Includes the Subscriber Identities associated with the EPS PDN Connection in the UE Context sent from the MME to the AMF or known in the context at the SMF+PGW-C.See TS 29.274 [87] clause 7.2.1 and TS 23.502 [4] clause 4.11.1.  | M |
| ePSPdnCnxInfo | Shall be present if there are any EPS PDN connections associated to the PDU Session in the SM Context or PDU Session Context at the SMF+PGW-C. Contains information about the EPS PDN connection associated with the PDU Session. See TS 29.502 [16] clause 6.1.6.2.31. | C |
| ePSBearerInfo | Shall be present if there are any EPS Bearers associated to the PDU Session in the SM Context or PDU Session Context at the SMF+PGW-C. Contains information about the EPS Bearer context(s) associated with the PDU Session. See TS 29.502 [16] clause 6.1.6.2.4. | C |

Table 6.2.3-1B: gTPTunnelInfo field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| fiveGSGTPTunnels | Shall include the 5GS GTP Tunnels (See Table 6.2.3-1C) when the xIRI message is used to report PDU Session related events. | C |
| ePSGTPTunnels | Shall include the information for the User Plane GTP Tunnels for the bearer context if present in the Request or Response (see TS 29.274 [87] clauses 7.2.2, 7.2.4 and 8.15) or known at the context at the SGW or PGW (see TS 23.401 [50] clause 5.6.4) when the xIRI message is used to report PDN Connection related events. See Table 6.3.3-6. | C |

Table 6.2.3-1C: fiveGSGTPTunnels field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| uLNGUUPTunnelInformation | Shall include the F-TEID for the UPF endpoint of the NG-U transport bearer (See TS 38.413 [23] clause 9.3.4.1). | C |
| additionalULNGUUPTunnelInformation | Shall include the F-TEID for the UPF endpoint of any additional NG-U transport bearers (See TS 38.413 [23] clause 9.3.4.1). | C |
| dLRANTunnelInformation | Shall include the RAN tunnel and QOS Flow information for the PDU Session (See TS 29.502 [16] clause 6.1.6.2.39 and TS 38.413 [23] clause 9.3.4.1). See Table 6.2.3-1D. | C |

Table 6.2.3-1D: dLRANTunnelInformation field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| dLQOSFlowTunnelInformation | Shall include the F-TEID NG-RAN endpoint of the NG-U transport bearer together with associated QoS flows (See TS 38.413 [23] clause 9.3.4.2 and TS 29.502 [16] clause 6.1.6.2.39). | C |
| additionalDLQOSFlowTunnelInformation | Shall include the F-TEID NG-RAN endpoint of any additional NG-U transport bearers together with associated QoS flows (See TS 38.413 [23] clause 9.3.4.2 and TS 29.502 [16] clause 6.1.6.2.39). | C |
| redundantDLQOSFlowTunnelInformation | Shall include the F-TEID NG-RAN endpoint of redundant NG-U transport bearers together with associated QoS flows (See TS 38.413 [23] clause 9.3.4.2 and TS 29.502 [16] clause 6.1.6.2.39). | C |
| additionalredundantDLQOSFlowTunnelInformation | Shall include the F-TEID NG-RAN endpoint of any additional redundant NG-U transport bearers together with associated QoS flows (See TS 38.413 [23] clause 9.3.4.2 and TS 29.502 [16] clause 6.1.6.2.39). | C |

Each PCC rule for traffic influence has the payload defined in Table 6.2.3-1E.

Table 6.2.3-1E: Payload of PCCrule for traffic influence

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| pCCRuleID | Policy rule identifier. This IE is defined in TS 29.512 [89], table 5.6.2.6-1. | M |
| appId | Identifies an application (NOTE 1). This IE is defined in TS 29.512 [89], table 5.6.2.6-1 (NOTE 1), if available. | C  |
| pFD | Packet flow description (PFD) associated with the appId. It is defined in TS 29.551 [94] table 5.6.2.5-1 (NOTE 1). | C |
| flowInfos | A set of flow information, if available. A flow information is an Ethernet or IP flow packet filter information (NOTE 1). This IE is defined in TS 29.512 [89], table 5.6.2.6-1 (NOTE 1). FlowInfos may be IP flow or Ethernet flow. IP flow is specified in TS 29.214, section 5.3.8 [92]. Ethernet Flow is specified in TS 29.514 [91] Table 5.6.2.17-1. | C |
| appReloc | Indicates that the application cannot be relocated once a location of the application is selected by the 5GC when it is included and set to "true". The default value is "false". | C |
| simConnInd | Indication of simultaneous connectivity temporarily maintained for the source and target PSA (PDU Session Anchor). If it is included and set to "true", temporary simultaneous connectivity should be kept. The default value "false" applies, if the IE is not present. This IE is defined in TS 29.512 [89], table 5.6.2.9-1. | C |
| simConnTerm | Indication of the minimum time interval to be considered for inactivity of the traffic routed via the source PSA during the edge re-location procedure. It may be included when the "simConnInd" attribute is set to true. This IE is defined in TS 29.512 [89], table 5.6.2.9-1. | C |
| maxAllowedUpLat | Indicates the target user plane latency in units of milliseconds used by SMF to decide whether edge relocation is needed to ensure that the user plane latency does not exceed the value. This IE is defined in TS 29.512 [89], table 5.6.2.9-1. | C |
| routeToLocs | A set of traffic routes. A traffic route provides information to route to/from a DNAI. This IE is defined in TS 29.512 [89], table 5.6.2.9-1 (NOTE 2). | C |
| trafficSteeringPolIdDl | Traffic steering policy for downlink traffic at the SMF, if available. This IE is defined in TS 29.512 [89], table 5.6.2.9-1 (NOTE 2). | C |
| trafficSteeringPolIdUl | Traffic steering policy for downlink traffic at the SMF, if available. This IE is defined in TS 29.512 [89], table 5.6.2.9-1 (NOTE 2). | C |
| sourceDNAI | No longer used in present version of the present document. | C  |
| targetDNAI | No longer used in present version of the present document. | C |
| dNAIChangeType | No longer used in present version of the present document. | C |
| sourceUEIPAddress | No longer used in present version of the present document. | C |
| targetUEIPAddress | No longer used in present version of the present document. | C |
| eASIPReplaceInfos  | Contains EAS IP replacement information for a Source and a Target EAS, if available. This IE is defined in TS 29.571 [17], table 5.4.4.79. | C |
| NOTE 1: Either appId/pFD or flowInfos shall be supplied.NOTE 2: TrafficSteeringPolIdDl attribute and/or trafficSteeringPolIdUl attribute and routeToLocs attribute are mutually exclusive. |

##### \*\*\* NEXT CHANGE \*\*\*

##### 6.2.3.2.3 PDU session modification

The IRI-POI in the SMF shall generate an xIRI containing an SMFPDUSessionModification record when the IRI-POI present in the SMF detects that a single-access PDU session has been modified for the target UE. The IRI-POI present in the SMF shall generate the xIRI for the following events:

- For a non-roaming scenario, the SMF (or for a roaming scenario, V-SMF in the VPLMN), receives the N1 NAS message (via AMF) PDU SESSION MODIFICATION COMMAND COMPLETE from the UE and the 5GSM state within the SMF is returned to PDU SESSION ACTIVE (see TS 24.501 [13]). This applies to the following two cases:

- UE initiated PDU session modification.

- Network (VPLMN) initiated PDU session modification.

- For a non-roaming scenario, the SMF (or for a roaming scenario, V-SMF in the VPLMN), sends the N1 NAS message (via AMF) PDU SESSION ESTABLISHMENT ACCEPT to the UE and the 5GSM state within the SMF remains in the PDU SESSION ACTIVE (see TS 24.501 [13]). This applies to the following case:

- Handover from one access type to another access type happens (e.g. 3GPP to non-3GPP).

- For a home-routed roaming scenario, the SMF in the HPLMN (i.e. H-SMF) receives the N16: Nsmf\_PDU\_Session\_Update response message with n1SmInfoFromUe IE containing the PDU SESSION MODIFICATION COMMAND COMPLETE (see TS 29.502 [16]). This applies to the following three cases:

- UE initiated PDU session modification.

- Network (VPLMN) initiated PDU session modification.

- Network (HPLMN) initiated PDU session modification.

- For a home-routed roaming scenario, the SMF in the HPLMN (i.e. H-SMF) sends the N16: Nsmf\_PDU\_Session\_Create response message with n1SmInfoToUe IE containing the PDU SESSION ESTABLISHMENT ACCEPT (see TS 29.502 [16]) while it had received a N16 Nsmf\_PDU\_Session\_Create request message with an existing PDU Session Id with access type being changed. This applies to the following case:

- Handover from one access type to another access type happens (e.g. 3GPP to non-3GPP).

- For a non-roaming scenario, SMF sends a Npcf\_SMPolicyControlUpdateNotify response to the PCF for the target UE in response to an Npcf\_SMPolicyControlUpdateNotify request sent by PCF to SMF including PCC rules which traffic control policy data contains either a routeToLocs IE or trafficSteeringPolIdDl IE and/or trafficSteeringPolIdUl IE. These PCC rules correspond to policies that influence the target UE’s traffic flows (see TS 29.513 [88] clause 5.5.3).

- For a non-roaming scenario, SMF sends a Nsmf\_EventExposure\_Notify request to the NEF or AF for the target UE for the event "UP Path Change" related to a corresponding subscription from AF (see TS 29.508 [90] clause 4.2.2).

- For a non-roaming scenario, SMF sends a Nsmf\_EventExposure\_AppRelocationInfo response to the NEF or AF for the target UE in response to Nsmf\_EventExposure\_AppRelocationInfo request sent by NEF or AF to SMF (see TS 29.508 [90] clause 4.2.5).

- For a non-roaming scenario, SMF receives a Nnef\_PFDManagement\_Fetch response from the NEF for the target UE in response to Nnef\_PFDManagement\_Fetch request sent by SMF to NEF (see TS 29.551 [94] clause 4.2.2).

Table 6.2.3-2: Payload for SMFPDUSessionModification record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI associated with the PDU session (e.g. as provided by the AMF in the associated Nsmf\_PDU\_Session\_CreateSMContext service operation). Shall be present except for PEI-only unauthenticated emergency sessions. | C |
| sUPIUnauthenticated | Shall be present if a SUPI is present in the message and set to “true” if the SUPI was not authenticated, or “false” if it has been authenticated. | C |
| pEI | PEI associated with the PDU session if available. | C |
| gPSI | GPSI associated with the PDU session if available. | C |
| sNSSAI | Slice identifier associated with the PDU session, if available. See TS 23.003 [19] clause 28.4.2 and TS 23.501 [2] clause 5.15.2. | C |
| non3GPPAccessEndpoint | UE's local IP address used to reach the N3IWF, TNGF or TWIF, if available. IP addresses are given as 4 octets (for IPv4) or 16 octets (for IPv6) with the most significant octet first (network byte order). | C |
| location | Location information provided by the AMF or present in the context at the SMF, if available. | C |
| requestType | For both a UE- as well as a network-requested PDU session the POI (SMF) shall set the request type parameter to "modification request". | M |
| accessType | Access type associated with the session (i.e. 3GPP or non-3GPP access) if provided by the AMF (see TS 24.501 [13] clause 9.11.2.1A). | C |
| rATType | RAT type associated with the access, if available. Values given as per TS 29.571 [17] clause 5.4.3.2. | C |
| pDUSessionID | PDU Session ID See TS 24.501 [13] clause 9.4. This parameter is conditional only for backwards compatibility. | C |
| ePS5GSComboInfo | Provides detailed information about PDN Connections associated with the reported PDU Session. Shall be included when the AMF has selected a SMF+PGW-C to serve the PDU session. This parameter may include the additional IEs in Table 6.2.3-1A, when available. | C |
| uEEndpoint | UE IP address(es) assigned to the PDU Session if available (See TS 29.244 [15] clause 5.21). | C |
| servingNetwork | Shall be present if this IE is in the SMContextUpdateData, HsmfUpdateData or message sent to the SMF or the PDU Session Context or SM Context at the SMF (see TS 29.502 [16] clauses 6.1.6.2.3, 6.1.6.2.11 and 6.1.6.2.39). | C |
| handoverState | Indicates whether the PDU Session Modification being reported was due to a handover. Shall be present if this IE is in the SMContextUpdatedData or sent by the SMF (see TS 29.502 [16] clause 6.1.6.2.3). | C |
| gTPTunnelInfo | Contains the information for the User Plane GTP Tunnels for the PDU Session (see TS 29.502 [16] clauses 6.1.6.2.2, 6.1.6.2.9 and 6.1.6.2.39). See Table 6.2.3-1B. | M |
| pCCRules | Set of PCC rules related to traffic influence. Each PCC rule influences the routing of a given traffic flow. If several flows are concerned, then several PCC rules shall be handled by the SMF. Traffic influence policies are orginated by an AF. PCF translates these rules into PCC rules for traffic influence. The payload of a PCC rule for traffic influence is defined in Table 6.2.3-1E. | C |
| ePSPDNConnectionModification | Provides details about PDN Connections when the SMFPDUSessionModification xIRI message is used to report PDN Connection Modification. See Table 6.3.3-8 and clause 6.3.3.2.3. | C |
| uPPathChange | Notification of the UPPathChange event, if available. This IE is defined in TS 29.508 [90], Table 5.6.2.5-1. | C |
| pFDDataForApp | Represents the packet flow descriptions (PFDs) for an application identifier (AppId), if available. This IE is defined in TS 29.551 [94], Table 5.6.2.2-1. | C |

Table 6.2.3-2A: Payload of UPPathChange

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sourceDNAI | Source DNAI, if the DNAI has changed. DNAI represents the location of applications towards which the traffic routing should apply.  | C  |
| targetDNAI | Target DNAI if the DNAI has changed.  | C |
| dNAIChangeType | Type of a DNAI change. Possible values are "early", "late" and "earlyAndLate" notification of UP path reconfiguration.  | C |
| sourceUEIPAddress | The IPv4 Address of the served UE for the source DNAI, if available.  | C |
| targetUEIPAddress | The IPv4 Address of the served UE for the target DNAI, if available. | C |
| sourceTrafficRouting | N6 traffic routing information for the source DNAI, if available. | C |
| targetTrafficRouting | N6 traffic routing information for the target DNAI, if available. | C |
| mACAddress | The MAC address of the served UE, if available. | C |

Table 6.2.3-2B: Payload of PFDDataForApp

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| appId | Identifier of an application | M  |
| pFDs | PFDs for an application identifier, if available. PFD is defined in TS 29.551 [94], Table 5.6.2.5-1. | C |

Table 6.2.3-2C: Payload of PFD

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| pFDId | PFD identifier | M  |
| pFDflowDescription | Represents a set of 3-tuple with protocol, server IP address and server port for UL/DL application traffic, if available. | C |
| uRLs | Represents a set of URL, if available. | C |
| domainNames | Represents a set of FQDN, if available. | C |
| dnProtocol | Indicates the additional protocol and protocol field for domain names to be matched, if available. This IE is defined in 29.122 [63], Table 5.14.2.2.4-1. | C |

##### \*\*\* NEXT CHANGE \*\*\*

##### 6.2.3.2.4 PDU session release

The IRI-POI in the SMF shall generate an xIRI containing an SMFPDUSessionRelease record when the IRI-POI present in the SMF detects that a single-access PDU session has been released. The IRI-POI present in the SMF shall generate the xIRI for the following events:

- For a non-roaming scenario, the SMF (or for a roaming scenario, V-SMF in the VPLMN), receives the N1 NAS message (via AMF) PDU SESSION RELEASE COMMAND COMPLETE from the UE and the 5GSM state within the SMF is changed to PDU SESSION INACTIVE (see TS 24.501 [13]). This applies to the following two cases:

- UE initiated PDU session release.

- Network initiated PDU session release.

- For a non-roaming scenario, the SMF (or for a roaming scenario, V-SMF in the VPLMN), receives the N1 NAS message (via AMF) PDU SESSION MODIFICATION COMMAND REJECT from the UE with the cause value #43 indicating an invalid PDU Session ID and the 5GSM state within the SMF is changed to PDU SESSION INACTIVE (see TS 24.501 [13]). This applies to the case where the UE rejects a PDU SESSION MODIFICATION COMMAND as it finds that the indicated PDU session ID is invalid. The 5GSM state is changed to PDU SESSION INACTIVE within the SMF.

- For a home-routed roaming scenario, the SMF in the HPLMN (i.e. H-SMF) receives the N16: Nsmf\_PDU\_Session\_Update response message with n1SmInfoFromUe IE containing the PDU SESSION RELEASE COMMAND COMPLETE (see TS 29.502 [16]) from the V-SMF. This applies to the following three cases:

- UE initiated PDU session release.

- Network (VPLMN) initiated PDU session release.

- Network (HPLMN) initiated PDU session release.

- For a home-routed roaming scenario, the SMF in the HPLMN (i.e. H-SMF) receives the N16: Nsmf\_PDU\_Session\_Update response message with n1SmInfoFromUe IE containing the PDU SESSION MODIFICATION COMMAND REJECT (see TS 29.502 [16]) from the V-SMF with the cause value #43 indicating an Invalid PDU Session ID.

Table 6.2.3-3: Payload for SMFPDUSessionRelease record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI associated with the PDU session. | M |
| pEI | PEI associated with the PDU session if available. | C |
| gPSI | GPSI associated with the PDU session if available. | C |
| pDUSessionID | PDU Session ID as assigned by the AMF. | M |
| timeOfFirstPacket | Time of first packet for the PDU session. | C |
| timeOfLastPacket | Time of last packet for the PDU session. | C |
| uplinkVolume | Number of uplink octets for the PDU session. | C |
| downlinkVolume | Number of downlink octets for the PDU session. | C |
| location | Location information, if available. | C |
| cause | Indicates the NF Service Consumer cause for the requested PDU session release (see TS 29.502 [16] clause 6.1.6.3.8 for enumerated cause information). Include if known. | C |
| ePS5GSComboInfo | Provides detailed information about PDN Connections associated with the reported PDU Session. This parameter may include the additional IEs in Table 6.2.3-1A, when available. | C |
| nGAPCause | Indicates the NGAP cause for the requested SM context release (see TS 29.502 [16] clause 6.1.6.2.6). Shall be derived as described in TS 29.571 [17] clause 5.4.4.12. | C |
| fiveGMMCause | Indicates the 5GMM cause for a PDU Session released due to any 5GMM failure (see 29.502 [16] clause 6.1.6.2.6). Shall be sent as an integer derived as described in TS 29.571 [17] clause 5.4.2. | C |
| pCCRuleIDs | PCC rule IDs of the PCC rules related to traffic influence that are associated to the PDU session and active at the time the PDU session is released. | C |
| ePSPDNConnectionRelease | Provides details about PDN Connections when the SMFPDUSessionRelease xIRI message is used to report PDN Connection Release. See Table 6.3.3-13 and clause 6.3.3.2.4. | C |

##### \*\*\* NEXT CHANGE \*\*\*

##### 6.2.3.2.5 Start of interception with an established PDU session

The IRI-POI in the SMF shall generate an xIRI containing an SMFStartOfInterceptionWithEstablishedPDUSession record when the IRI-POI present in the SMF detects that a single-access PDU session has already been established for the target UE when interception starts.

In a non-roaming scenario, the IRI-POI in the SMF (or in a roaming scenario, the IRI-POI in the V-SMF in the VPLMN) shall generate the xIRI containing the SMFStartOfInterceptionWithEstablishedPDUSession record when it detects that a new interception for a UE is activated (i.e. provisioned by the LIPF) for the following case:

- The 5GSM state within the SMF for that UE is 5GSM: PDU SESSION ACTIVE or PDU SESSION MODIFICATION PENDING.

NOTE: The above trigger happens when the SMF (V-SMF in VPLMN) had not sent an N1 NAS message PDU SESSION RELEASE COMMAND to the UE for a PDU session and the SMF (V-SMF in the VPLMN) had previously sent an N1 NAS message PDU SESSION ESTABLISHMENT ACCEPT to that UE for the same PDU session.

In a home-routed roaming scenario, the IRI-POI in the H-SMF shall generate the xIRI containing the SMFStartOfInterceptionWithEstablishedPDUSession record when it detects that a new interception for a UE is activated (i.e. provisioned by the LIPF) for the following case:

- The H-SMF had not sent a Nsmf\_PDU\_Session\_Update Request (n1SmInfoToUe: PDU SESSION RELEASE COMMAND) to the V-SMF for a PDU session and H-SMF had previously sent a Nsmf\_PDU\_Session\_Create response (n1SmInfoToUE: PDU SESSION ESTABLISHMENT ACCEPT) to the V-SMF for that PDU session.

The IRI-POI in the SMF shall generate the xIRI containing the SMFStartOfInterceptionWithEstablishedPDUSession record for each of the PDU sessions (that meets the above criteria) associated with the newly identified target UEs.

Table 6.2.3-4: Payload for SMFStartOfInterceptionWithEstablishedPDUSession record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI associated with the PDU session (e.g. as provided by the AMF in the associated Nsmf\_PDU\_Session\_CreateSMContext service operation). Shall be present except for PEI-only unauthenticated emergency sessions. | C |
| sUPIUnauthenticated | Shall be present if a SUPI is present in the message and set to “true” if the SUPI has not been authenticated, or “false” if it has been authenticated. | C |
| pEI | PEI associated with the PDU session if available. | C |
| gPSI | GPSI associated with the PDU session if available. | C |
| pDUSessionID | PDU Session ID as assigned by the AMF, as defined in TS 24.007 [14] clause 11.2.3.1b. | M |
| gTPTunnelID | Contains the F-TEID identifying the UPF endpoint of the GTP tunnel used to encapsulate the traffic derived from the UL NG-U UP TNL Information (see TS 38.413 clause 9.3.4.1), as defined in TS 29.244 [15] clause 8.2.3. Non-GTP encapsulation is for further study. | M |
| pDUSessionType | Identifies selected PDU session type, see TS 24.501 [13] clause 9.11.4.11. | M |
| sNSSAI | Slice identifier associated with the PDU session, if available. See TS 23.003 [19] clause 28.4.2 and TS 23.501 [2] clause 5.15.2. | C |
| uEEndpoint | UE endpoint address(es) if available. IP addresses are given as 4 octets (for IPv4) or 16 octets (for IPv6) with the most significant octet first (network byte order). MAC addresses are given as 6 octets with the most significant octet first (see TS 29.244 [15] clause 5.21). | C |
| non3GPPAccessEndpoint | UE's local IP address used to reach the N3IWF, TNGF or TWIF, if available. IP addresses are given as 4 octets (for IPv4) or 16 octets (for IPv6) with the most significant octet first (network byte order). | C |
| location | Location information provided by the AMF at session establishment or present in the context at the SMF, if available. | C |
| dNN | Data Network Name associated with the target traffic, as defined in TS 23.003 [19] clause 9A and described in TS 23.502 [4] clause 4.3.2.2. Shall be given in dotted-label presentation format as described in TS 23.003 [19] clause 9.1. | M |
| aMFID | Identifier of the AMF associated with the target UE, as defined in TS 23.003 [19] clause 2.10.1, if available. | C |
| hSMFURI | URI of the Nsmf\_PDUSession service of the selected H-SMF, if available. See TS 29.502 [16] clause 6.1.6.2.2. | C |
| requestType | Type of request as initially set within the PDU SESSION ESTABLISHMENT as described in TS 24.501 [13] clause 9.11.3.47.If the initial value is no longer available the request type shall be set to “existing PDU session”. | M |
| accessType | Access type associated with the session (i.e. 3GPP or non-3GPP access) if provided by the AMF (see TS 24.501 [13] clause 9.11.2.1A). | C |
| rATType | RAT type associated with the access if provided by the AMF as part of session establishment (see TS 23.502 [4] clause 4.3.2). Values given as per TS 29.571 [17] clause 5.4.3.2. | C |
| sMPDUDNRequest | Contents of the SM PDU DN request container, if available, as described in TS 24.501 [13] clause 9.11.4.15. | C |
| timeOfSessionEstablishment | Time at which the session establishment occurred, if available. Shall be given qualified with time zone information (i.e. as UTC or offset from UTC, not as local time). | C |
| ePS5GSComboInfo | Provides detailed information about PDN Connections associated with the reported PDU Session. Shall be included when the AMF has selected a SMF+PGW-C to serve the PDU session. This parameter may include the additional IEs in table 6.2.3-1A, if available. | C |
| uEEPSPDNConnection | This IE shall be present, if available, during an EPS to 5GS Idle mode mobility or handover using the N26 interface. If present, it shall contain the EPS bearer context(s) information present in the uEEPSPDNConnection parameter of the intercepted SmContextCreateData message. (see TS 29.502 [16] clause 6.1.6.2.2). | C |
| servingNetwork | Indicates the serving core network operator PLMN, and for an SNPN, the NID. Shall be present if present in the PDU Session Context or SM Context at the SMF (see TS 29.502 [16] clause 6.1.6.2.39). | C |
| gTPTunnelInfo | Contains the information for the User Plane GTP Tunnels for the PDU Session (see TS 29.502 [16] clauses 6.1.6.2.2, 6.1.6.2.9 and 6.1.6.2.39). See Table 6.2.3-1B. | M |
| pCCRules | Set of PCC rules related to traffic influence. Each PCC rule influences the routing of a given traffic flow. If several flows are concerned, then several PCC rules shall be handled by the SMF. Traffic influence policies are orginated by an AF. PCF translates these rules into PCC rules for traffic influence. The payload of a PCC rule for traffic influence is defined in Table 6.2.3-1E. | C |
| ePSStartOfInterceptionWithEstablishedPDNConnection | Provides details about PDN Connections when the SMFStartOfInterceptionWithEstablishedPDUSession xIRI message is used to report the start of interception on a target who already has existing PDN Connections. See Table 6.3.3-14 and clause 6.3.3.2.5. | C |
| pFDDataForApps | Represents a set of associations between application identifier and packet flow descriptions (PFDs). | C |

The IRI-POI present in the SMF generating an xIRI containing a SMFStartOfInterceptionWithEstablishedPDUSession record shall set the Payload Direction field in the PDU header to *not applicable* (Direction Value 5, see ETSI TS 103 221-2 [8] clause 5.2.6).

##### \*\*\* NEXT CHANGE \*\*\*

##### 6.3.3.2.3 PDU Session Modification message reporting PDU session modification, PDN Connection modification or inter-system handover

The IRI-POI in the SMF+PGW-C shall generate an xIRI containing an SMFPDUSessionModification record (see clause 6.2.3.2.3) when the IRI-POI present in the SMF+PGW-C detects that a single-access PDU Session or PDN Connection has been modified for the target UE. The IRI-POI present in the SMF+PGW-C shall generate the xIRI for the following events:

- The SMF+PGW-C modifies an existing PDN Connection in the target UE context of the SMF+PGW-C (see TS 23.401 [50] clause 5.7.4).

- The SMF+PGW-C modifies an existing PDU Session context or SM Context for the target UE (see TS 29.502 [16] clause 5.2.2.3 and clause 5.2.2.8).

- The SMF+PGW-C transfers an existing PDU Session to EPS (see TS 23.502 [4] clauses 4.11.1.2.1 and 4.11.2.2).

- The SMF+PGW-C transfers an existing PDN Connection to 5GS (see TS 23.502 [4] clauses 4.11.1.2.2 and 4.11.2.3).

When the SMFPDUSessionModification record (see clause 6.2.3.2.3) is used to report the modification of a PDN Connection:

- The ePSPDNConnectionModification field shall be populated with the information in Table 6.3.3-8.

- If there is no SUPI associated to the SM context for the target UE, the SUPI field of the SMFPDUSessionModification record shall be populated with the value of the IMSI from the target UE context.

- If there is no PDU Session ID present in the PCO of the request or response messages or associated to the context for the PDN connection, the pDUSessionID field of the SMFPDUSessionModification record shall be populated with the EBI of the default bearer for the PDN Connection.

- If there is no 5G UP tunnel present in the context associated to the PDN Connection, the gTPTunnelID field of the SMFPDUSessionModification record shall be populated with the F-TEID for the PGW S5 or S8 interface for the default bearer of the PDN Connection.

Table 6.3.3-8: Payload for ePSPDNConnectionModification Field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| ePSSubscriberIDs | EPS Subscriber Identities associated with the PDN connection (e.g. as provided by the MME or SGW in the associated network message or as associated with the PDN connection in the context known at the NF). The IMSI shall be present except for unauthenticated emergency sessions. | M |
| iMSIUnauthenticated | Shall be present if an IMSI is present in the ePSSubscriberIDs and set to “true” if the IMSI has not been authenticated, or “false” if it has been authenticated. | C |
| defaultBearerID | Shall contain the EPS Bearer Identity of the default bearer associated with the PDN connection. | M |
| gTPTunnelInfo | Contains the information for the Control Plane GTP Tunnels present in the network message or known in the context at the SGW or PGW. See Table 6.2.3-1B. If the gTPTunnelInfo received in the network message is different than the gTPTunnelInfo in the context for the PDN Connection, this message shall be populated with the new information. | C |
| pDNConnectionType | Identifies selected PDN session type, see TS 29.274 [13] clause 8.34. | M |
| uEEndpoints | UE endpoint address(es) if available. Derived from the PDN Address portion of the PDN Address Allocation parameter (see TS 29.274 [87] clause 8.14) present in the network message or the IP Address associated to the PDN Connection in the context known at the NF (see TS 23.401 [50] clauses 5.7.3 and 5.7.4). | C |
| non3GPPAccessEndpoint | UE's local IP address used to reach the ePDG, if present in the network message (see TS 29.274 [87], clauses 7.2.4, 7.2.7 and 7.2.16) or known at the context at the SGW or PGW. | C |
| location | Location information present in the network message (see TS 29.274 [87], clause 8.21) or known in the context at the SGW or PGW. | C |
| additionalLocation | Additional location information present in the network message, known in the context at the SGW or PGW, or known at the MDF. | C |
| aPN | Access Point Name associated with the PDN connection present in the network message (see TS 29.274 [87] clause 8.6) or known at the context at the SGW or PGW (see TS 23.401 [50] clause 5.6.4), as defined in TS 23.003[19] clause 9.1. | M |
| requestType | Type of request as derived from the Request Type described in TS 24.301 [50] clause 9.9.4.14 and TS 24.008 [93] clause 10.5.6.17, if available. | C |
| accessType | Access type associated with the PDN connection (i.e. 3GPP or non-3GPP access). | C |
| rATType | RAT Type associated with the PDN connection. Shall be present if included in the network message (see TS 29.274 [87] clauses 7.2.3, 7.2.4, 7.2.7, 7.2.8, 7.2.9, 7.2.10, 7.2.15 and 7.2.16) or known at the context at the SGW or PGW (see TS 23.401 [50] clause 5.6.4). | C |
| protocolConfigurationOptions | Shall be present if the network message (see TS 29.274 [87]) contains the Protocol Configuration Options, Additional Protocol Configuration Options or extended Protocol Configuration Options IE. See Table 6.3.3-4. | C |
| servingNetwork | Shall be present if this IE is in the network message or the context for the PDN connection at the SGW/PGW. | C |
| sMPDUDNRequest | Contents of the SM PDU DN Request container, if available, as described in TS 24.501 [13] clause 9.11.4.15. | C |
| bearerContextsCreated | Shall include a list of the Bearer Contexts created if the event that resulted in the generation of the message was the activation of a dedicated Bearer. Shall contain the contents of the Bearer Context field of the Create Bearer Response message (see TS 29.274 [87] clause 7.2.4). See Table 6.3.3-2.  | C |
| bearerContextsModified | Shall include a list of the Bearer Contexts modified if the event that resulted in the generation of the message was the modification of an existing bearer. Shall contain the contents of the Bearer Contexts Modified field of the Modify Bearer Response message (see TS 29.274 [87] clause 7.2.8) or the Bearer Contexts within the Update Bearer Response message (see TS 29.274 [87] clause 7.2.16). See Table 6.3.3-9.  | M |
| bearerContextsMarkedForRemoval | Shall include a list of the Bearer Contexts to be removed if the event that resulted in the generation of the message included the removal of an existing bearer. (see TS 29.274 [87] clause 7.2.8 and 7.2.10). See Table 6.3.3-3. | C |
| bearersDeleted | Shall include a list of the Bearers to be deleted if the event that resulted in the generation of the message included a Delete Bearer Request or Response. (see TS 29.274 [87] clauses 7.2.9 and 7.2.10). See Table 6.3.3-10 | C |
| indicationFlags | Shall be included if the Indication Flags field is present in the network message (see TS 29.274 [87] clauses 7.2.3, 7.2.4, 7.2.7, 7.2.8, 7.2.9, 7.2.10, 7.2.15 and 7.2.16). The value of this parameter shall be set to the value of the Indication IE (see TS 29.274 [87] clause 8.12) starting with octet 5. | C |
| handoverIndication | Shall be present if the Handover Indication is set to 1 in the Modify Bearer Request (see TS 29.274 [87] clauses 7.2.7 and 8.12). | C |
| nBIFOMSupport | Shall be present if the NBIFOM Support Indication is set to 1 in the message that triggered the generation of the xIRI or known at the context (see TS 29.274 [87] clauses 7.2.1, 7.2.7 and 8.12). | C |
| fiveGSInterworkingInfo | Shall be present if the 5GS Interworking Indication is present in the Create Session Request (see TS 29.274 [87] clauses 7.2.1 and 8.12). See Table 6.3.3-5. | C |
| cSRMFI | Shall be present if the Create Session Request Message Forwarded Indication (CSRMFI) is present in the Create Session Request (see TS 29.274 [87] clauses 7.2.1 and 8.12). Indicates the Create Session Request message has been forwarded by a PGW. | C |
| restorationOfPDNConnectionsSupport | Shall be present if the Restoration of PDN connection after an PGW-C/SMF Change Support Indication is present in the message that triggered the generation of the xIRI or known at the context (see TS 29.274 [87] clauses 7.2.1, 7.2.7 and 8.12). | C |
| pGWChangeIndication | Shall be present if the PGW Change Indication is present in the Create Session Request (see TS 29.274 [87] clauses 7.2.1 and 8.12). | C |
| pGWRNSI | Shall be present if the PGW Redirection due to mismatch with Network Slice subscribed by the UE Support Indication is present in the Create Session Request (see TS 29.274 [87] clauses 7.2.1 and 8.12). | C |

Table 6.3.3-9: Payload for bearerContextsModified Field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| ePSBearerID | Shall include the EPS bearer ID for the EPS Bearer (See TS 29.274 [87] clauses 7.2.7, 7.2.8, 7.2.15 and 7.2.16). | M |
| cause | Shall indicate whether the bearer handling was successful and if not, it gives information on the reason (See TS 29.274 [87] clauses 7.2.7, 7.2.8, 7.2.15 and 7.2.16). Sent as an integer cause value (see TS 29.274 [87] Table 8.4-1) | M |
| gTPTunnelInfo | Contains the information for the User Plane GTP Tunnels for the bearer context if present in the Request or Response (see TS 29.274 [87] clauses 7.2.7, 7.2.8, 7.2.15, 7.2.16 and 8.15) or known at the context at the SGW or PGW (see TS 23.401 [50] clause 5.6.4). See Table 6.2.3-1B. | C |
| bearerQOS | Shall include the QOS information for the bearer if present in the Request or Response (see TS 29.274 [87] clauses 7.2.7, 7.2.8, 7.2.15, 7.2.16 and 8.15) or known at the context at the SGW or PGW (see TS 23.401 [50] clause 5.6.4). See Table 6.3.3-7. | C |
| protocolConfigurationOptions | Shall be present if the Bearer Context reported (see TS 29.274 [87] clauses 7.2.7, 7.2.8, 7.2.15, 7.2.16 and 8.15) contains the Protocol Configuration, Additional Protocol Configuration Options or extended Protocol Configuration Options IE. See Table 6.3.3-4. | C |

Table 6.3.3-10: Payload for bearersDeleted Field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| linkedEPSBearerID | Shall include the EBI for the default bearer associated with the PDN being disconnected if all bearers belonging to a PDN connection are being released (See TS 29.274 [87] clause 7.2.9). | C |
| ePSBearerIDs | Shall include a list of the EPS Bearer IDs to be deleted if only some of the EPS Bearers belonging to a PDN Connection are being released(See TS 29.274 [87] clause 7.2.9). | C |
| protocolConfigurationOptions | Shall be present if the Delete Bearer Request or Response reported (see TS 29.274 [87] clauses 7.2.9) contains the Protocol Configuration, Additional Protocol Configuration Options or extended Protocol Configuration Options IE. See Table 6.3.3-4. | C |
| cause | Shall indicate the reason the EPS Bearers are being deleted (See TS 29.274 [87] clause 7.2.9). Sent as an integer cause value (see TS 29.274 [87] Table 8.4-1) | C |
| deleteBearerResponse | Shall contain information from the Delete Bearer Response (See TS 29.274[87] clause 7.2.10). See Table 6.3.3-11. | M |

Table 6.3.3-11: Payload for deleteBearerResponse Field

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| cause | Indicates whether the bearers requested for deletion were successfully deleted (See TS 29.274 [87] clause 7.2.10). | M |
| linkedEPSBearerID | Shall include the EBI for the default bearer associated with the PDN being disconnected if all bearers belonging to a PDN connection are being released (See TS 29.274 [87] clause 7.2.10). | C |
| bearerContexts | Shall include a list of the EPS Bearer Contexts requested for deletion along with details on whether they were successfully deleted. Shall be included if only some of the EPS Bearers belonging to a PDN Connection are being released(See TS 29.274 [87] clause 7.2.10). See Table 6.3.3-12. | C |
| protocolConfigurationOptions | Shall be present if the Delete Bearer Request or Response reported (see TS 29.274 [87] clauses 7.2.9) contains the Protocol Configuration, Additional Protocol Configuration Options or extended Protocol Configuration Options IE. See Table 6.3.3-4. | C |

Table 6.3.3-12: Payload for bearerContexts Field in deleteBearerResponse

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| cause | Indicates whether the bearers requested for deletion were successfully deleted (See TS 29.274 [87] clause 7.2.10). | M |
| ePSBearerID | Shall include the EBI for the bearer (See TS 29.274 [87] clause 7.2.10). | M |
| protocolConfigurationOptions | Shall be present if the Delete Bearer Request or Response reported (see TS 29.274 [87] clauses 7.2.9) contains the Protocol Configuration, Additional Protocol Configuration Options or extended Protocol Configuration Options IE. See Table 6.3.3-4. | C |
| rANNASCause | Shall be present if the RAN/NAS Release Cause is present in the delete session response bearer context (see TS 29.274 [87] clause 7.2.10). Shall be sent as an Octet String encoded as specified in TS 29.274 [87] clause 8.103. | C |

##### \*\*\* END OF CHANGES \*\*\*