**3GPP TSG-CT WG4 Meeting #98eC4-20xxxx**

**E-Meeting, 02nd – 12th June 2020 *Revision of C4-203200***

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.244** | **CR** | **0438** | **rev** | **1** | **Current version:** | **16.3.1** |  |
|  | | | | | | | | |
| *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:*** | UE IP address pool based on IP version | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-06-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | UE IP address pool identity is provided by the SMF to UPF during PFCP Session Establishment if the UPF is configured to perform UE/PDU session IP Address allocation while multiple UE IP address pools are configured for the same DNN/APN.  TS 29.561 specifies the Framed-Pool AVP for UE IP address pool identity of IPv4 version, and Framed-Ipv6-Pool for UE IP address pool identity of IPv6 version. When the SMF receives the two AVPs,  it is not clear how the SMF provide the information to the UPF, espacially if the UE IP address pool identities of IPv4 address or IPv6 address  are different. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | UE IPv4 address Pool Identity and/or UE IPv6 address Pool Identity may be sent from SMF to the UPF;  Value part of Framed-Ipv6-Pool or Framed-Pool is copied into the UE IP address Pool Identity field. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | IP address allocation for dual stack connection with different IP address pool can not be supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.21.3, 7.5.2.2, 8.1.2, 8.2.128, 8.2.y(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

### 5.21.3 UE IP address/prefix allocation in the UP function

When performing UE IP address/prefix allocation in the UP function, the CP function shall request the UP function to allocate the UE IP address/prefix by:

- setting the CHOOSE flags (CHOOSE IPV4 and/or CHOOSE IPV6) in the UE IP Address IE of the PDR IE (see Table 7.5.2.2-1) or of the Traffic Endpoint (see Table 7.5.2.7-1); the IPv6 prefix length shall be indicated in the UE IP Address if an IPv6 prefix other than default /64 and other than for IPv6 prefix delegation (see clause 5.14) is to be assigned and the UPF indicated support of the IP6PL feature (see clause 8.2.25); and

- including the Network Instance IE to indicate the IP address pool from which the UE IP address/prefix is to be assigned.

- optionally including the UE IPv4 address Pool Identity and/or UE IPv6 address Pool Identity from which the UE IP address shall be allocated by the UP function.

The CP function may request the UP function to allocate the same UE IP address/prefix to several PDRs to be created within one single PFCP Session Establishment Request or PFCP Session Modification Request by:

- setting the CHOOSE flags (CHOOSE IPV4 and/or CHOOSE IPV6) in the UE IP Address IE of each PDR to be created with a new UE IP address/prefix;

or, if the UP function indicated support of the PDI optimization (see clause 8.2.25), by:

- including the UE IP Address IE only in the Create Traffic Endpoint IE and by setting the CHOOSE flags (CHOOSE IPV4 and/or CHOOSE IPV6) in the UE IP Address IE of this IE; and

- including the Traffic Endpoint ID in all the PDRs to be created with the same UE IP address.

If the PDR(s) is created successfully, the UP function shall return the UE IP address/prefix it has assigned to the PDR(s) or to the Traffic Endpoint(s) in the PFCP Session Establishment Response or PFCP Session Modification Response.

Upon receiving a request to delete a PFCP session, to remove a Traffic Endpoint, or to remove the last PDR associated with the UE IP address/prefix, the UP function shall release the UE IP address/prefix that was assigned to the PFCP session, to the Traffic Endpoint, or to the PDR.

\* \* \* Next Change \* \* \* \*

#### 7.5.2.2 Create PDR IE within PFCP Session Establishment Request

The Create PDR grouped IE shall be encoded as shown in Figure 7.5.2.2-1.

Table 7.5.2.2-1: Create PDR IE within PFCP Session Establishment Request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Octet 1 and 2 |  | Create PDR IE Type = 1(decimal) | | | | | |
| Octets 3 and 4 |  | Length = n | | | | | |
| Information elements | P | Condition / Comment | Appl. | | | | IE Type |
| Sxa | Sxb | Sxc | N4 |
| PDR ID | M | This IE shall uniquely identify the PDR among all the PDRs configured for that PFCP session. | X | X | X | X | PDR ID |
| Precedence | M | This IE shall indicate the PDR's precedence to be applied by the UP function among all PDRs of the PFCP session, when looking for a PDR matching an incoming packet. | - | X | X | X | Precedence |
| PDI | M | This IE shall contain the PDI against which incoming packets will be matched.  See Table 7.5.2.2-2. | X | X | X | X | PDI |
| Outer Header Removal | C | This IE shall be present if the UP function is required to remove one or more outer header(s) from the packets matching this PDR. | X | X | - | X | Outer Header Removal |
| FAR ID | C | This IE shall be present if the Activate Predefined Rules IE is not included or if it is included but it does not result in activating a predefined FAR, and if the MAR ID is not included.  When present this IE shall contain the FAR ID to be associated to the PDR. | X | X | X | X | FAR ID |
| URR ID | C | This IE shall be present if a measurement action shall be applied to packets matching this PDR.  When present, this IE shall contain the URR IDs to be associated to the PDR.  Several IEs within the same IE type may be present to represent a list of URRs to be associated to the PDR. | X | X | X | X | URR ID |
| QER ID | C | This IE shall be present if a QoS enforcement or QoS marking action shall be applied to packets matching this PDR.  When present, this IE shall contain the QER IDs to be associated to the PDR. Several IEs within the same IE type may be present to represent a list of QERs to be associated to the PDR. | - | X | X | X | QER ID |
| Activate Predefined Rules | C | This IE shall be present if Predefined Rule(s) shall be activated for this PDR. When present this IE shall contain one Predefined Rules name.  Several IEs with the same IE type may be present to represent multiple "Activate Predefined Rules" names. | - | X | X | X | Activate Predefined Rules |
| Activation Time | O | This IE may be present if the PDR activation shall be deferred. (NOTE 1) | - | X | X | X | Activation Time |
| Deactivation Time | O | This IE may be present if the PDR deactivation shall be deferred. (NOTE 1) | - | X | X | X | Deactivation Time |
| MAR ID | C | This IE shall be present if the PDR is provisioned to match the downlink traffic towards the UE for a PFCP session established for a MA PDU session. | - | - | - | X | MAR ID |
| Packet Replication and Detection Carry-On Information | C | This IE shall be present if the PDR is provisioned to match a broadcast packet. When present, it contains the information to instruct the UPF to replicate the packet and to carry-on the look-up of other PDRs of other PFCP sessions matching the packet (see clause 5.2.1). | - | - | - | X | Packet Replication and Detection Carry-On Information |
| IP Multicast Addressing Info | O | This IE may be present in an UL PDR controlling UL IGMP/MLD traffic (see  5.25).  When present, it shall contain a (range of) IP multicast address(es), and optionally source specific address(es), identifying a set of IP multicast flows. See Table 7.5.2.2-4.  Several IEs with the same IE type may be present to represent multiple IP multicast flows. | - | - | - | X | IP Multicast Addressing Info |
| UE IPv4 address Pool Identity | O | This IE may be present if UE IP Addresses Pools are configured in the UPF.  When present, this IE shall contain the identity of a UE IPv4 address Pool configured in the UPF. | - | X | - | X | UE IP address Pool Identity |
| UE IPv6 address Pool Identity | O | This IE may be present if UE IP Addresses Pools are configured in the UPF.  When present, this IE shall contain the identity of a UE IPv6 address Pool configured in the UPF. | - | X | - | X | UE IPv6 address Pool Identity |
| NOTE 1: When the Activation Time and Deactivation Time are not present, the PDR shall be activated immediately at receiving the message. | | | | | | | |

Table 7.5.2.2-2: PDI IE within PFCP Session Establishment Request

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Octet 1 and 2 | |  | | PDI IE Type = 2 (decimal) | | | | | | | | | | | |
| Octets 3 and 4 | |  | | Length = n | | | | | | | | | | | |
| Information elements | | P | | Condition / Comment | | Appl. | | | | | | | | IE Type | |
| Sxa | | Sxb | | Sxc | | N4 | |
| Source Interface | | M | | This IE shall identify the source interface of the incoming packet. | | X | | X | | X | | X | | Source Interface | |
| Local F-TEID | | O | | This IE shall not be present if Traffic Endpoint ID is present.  If present, this IE shall identify the local F-TEID to match for an incoming packet.  The CP function shall set the CHOOSE (CH) bit to 1 if the CP function requests the UP function to assign a local F-TEID to the PDR. | | X | | X | | - | | X | | F-TEID | |
| Network Instance | | O | | This IE shall not be present if Traffic Endpoint ID is present. It shall be present if the CP function requests the UP function to allocate a UE IP address/prefix and the Traffic Endpoint ID is not present.  If present, this IE shall identify the Network instance to match for the incoming packet. See NOTE 1, NOTE2. | | X | | X | | X | | X | | Network Instance | |
| Redundant Transmission Parameters | | O | | If present, this IE shall contain the information used for the reception of redundant uplink packets on N3/N9 interfaces. | | - | | - | | - | | X | | Redundant Transmission Parameters | |
| UE IP address | | O | | This IE shall not be present if Traffic Endpoint ID is present.  If present, this IE shall identify the source or destination IP address to match for the incoming packet. (NOTE 5).  The CP function shall set the CHOOSE IPV4 (CHV4) and/or the CHOOSE IPV6 (CHV6) bits to 1 if the UP function supports the allocation of UE IP address/ prefix and the CP function requests the UP function to assign a UE IP address/prefix to the PDR.  In the 5GC, several IEs with the same IE type may be present to represent multiple UE IP addresses, if the UPF indicated support of the IP6PL feature (see clause 5.21). | | - | | X | | X | | X | | UE IP address | |
| Traffic Endpoint ID | | C | | This IE may be present if the UP function has indicated the support of PDI optimization.  If present, this IE shall uniquely identify the Traffic Endpoint for that PFCP session.  Several IEs with the same IE type may be present to provision several Traffic Endpoints with different Traffic Endpoint IDs, from which the UPF may receive packets pertaining to the same service data flow, which is subject for the same FAR, QER and URR, if the UPF has indicated it supports MTE feature as specified in clause 8.2.25. See NOTE 6. | | X | | X | | X | | X | | Traffic Endpoint ID | |
| SDF Filter | | O | | If present, this IE shall identify the SDF filter to match for the incoming packet. Several IEs with the same IE type may be present to provision a list of SDF Filters. The full set of applicable SDF filters, if any, shall be provided during the creation or the modification of the PDI.  See NOTE 3. | | - | | X | | X | | X | | SDF Filter | |
| Application ID | | O | | If present, this IE shall identify the Application ID to match for the incoming packet. | | - | | X | | X | | X | | Application ID | |
| Ethernet PDU Session Information | | O | | This IE may be present to identify all the (DL) Ethernet packets matching an Ethernet PDU session (see clause 5.13.1). | | - | | - | | - | | X | | Ethernet PDU Session Information | |
| Ethernet Packet Filter | | O | | If present, this IE shall identify the Ethernet PDU to match for the incoming packet.  Several IEs with the same IE type may be present to represent a list of Ethernet Packet Filters.  The full set of applicable Ethernet Packet filters, if any, shall be provided during the creation or the modification of the PDI. | | - | | - | | - | | X | | Ethernet Packet Filter | |
| QFI | | O | | This IE shall not be present if Traffic Endpoint ID is present and the QFI(s) are included in the Traffic Endpoint.  If present, this IE shall identify the QoS Flow Identifier to match for the incoming packet.  Several IEs with the same IE type may be present to provision a list of QFIs. When present, the full set of applicable QFIs shall be provided during the creation or the modification of the PDI. | | - | | - | | - | | X | | QFI | |
| Framed-Route | | O | | This IE may be present for a DL PDR if the UPF indicated support of Framed Routing (see clause 8.2.25). If present, this IE shall describe a framed route.  Several IEs with the same IE type may be present to provision a list of framed routes. (NOTE 5) | | - | | X | | - | | X | | Framed-Route | |
| Framed-Routing | | O | | This IE may be present for a DL PDR if the UPF indicated support of Framed Routing (see clause 8.2.25). If present, this IE shall describe a framed route. | | - | | X | | - | | X | | Framed-Routing | |
| Framed-IPv6-Route | | O | | This IE may be present for a DL PDR if the UPF indicated support of Framed Routing (see clause 8.2.25). If present, this IE shall describe a framed IPv6 route.  Several IEs with the same IE type may be present to provision a list of framed IPv6 routes. (NOTE 5) | | - | | X | | - | | X | | Framed-IPv6-Route | |
| Source Interface Type | | O | | This IE may be present to indicate the 3GPP interface type of the source interface, if required by functionalities in the UP Function, e.g. for performance measurements. | | X | | X | | - | | X | | 3GPP Interface Type | |
| IP Multicast Addressing Info | | O | | This IE may be present in a DL PDR controlling DL IP multicast traffic (see clause 5.25).  When present, it shall contain a (range of) IP multicast address(es), and optionally source specific address(es), identifying a set of IP multicast flows. See Table 7.5.2.2-4.  Several IEs with the same IE type may be present to represent multiple IP multicast flows. | | - | | - | | - | | X | | IP Multicast Addressing Info | |
| NOTE 1: The Network Instance parameter is needed e.g. in the following cases:  - PGW/TDF UP function supports multiple PDNs with overlapping IP addresses;  - SGW UP function is connected to PGWs in different IP domains (S5/S8);  - PGW UP function is connected to SGWs in different IP domains (S5/S8);  - SGW UP function is connected to eNodeBs in different IP domains;  - UPF is connected to 5G-ANs in different IP domains;  - Separation of multiple 5G VN groups communication in the UPF.  NOTE 2: When a Local F-TEID is provisioned in the PDI, the Network Instance shall relate to the IP address of the F-TEID. Otherwise, the Network Instance shall relate to the UE IP address if provisioned or the destination IP address in the SDF filter if provisioned  NOTE 3: SDF Filter IE(s) shall not be present if Ethernet Packet Filter IE(s) is present.  NOTE 4: When several SDF filter IEs are provisioned, the UP function shall consider that the packets are matched if matching any SDF filter. The same principle shall apply for Ethernet Packet Filters and QFIs.  NOTE 5: If both the UE IP Address and the Framed-Route (or Framed-IPv6-Route) are present, the packets which are considered being matching the PDR shall match at least one of them.  NOTE 6: Maximum two Traffic Endpoint ID containing different Local TEIDs per PDI may be provisioned over the N4 interface for a PFCP session which is established for a PDU session subject for 5G to EPS mobility with N26 supported. Several Traffic Endpoint ID containing different UE IP Addresses may be provisioned over the N4 interface for a PFCP session if the UPF also indicated support of the IP6PL feature (see clause 5.21.1). | | | | | | | | | | | | | | | |

Table 7.5.2.2-3: Ethernet Packet Filter IE within PFCP Session Establishment Request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Octet 1 and 2 |  | Ethernet Packet Filter IE Type = 132 (decimal) | | | | | |
| Octets 3 and 4 |  | Length = n | | | | | |
| Information elements | P | Condition / Comment | Appl. | | | | IE Type |
| Sxa | Sxb | Sxc | N4 |
| Ethernet Filter ID | C | This shall be present if Bidirectional Ethernet filter is required. This IE shall uniquely identify an Ethernet Filter among all the Ethernet Filters provisioned for a given PFCP session. | - | - | - | X | Ethernet Filter ID |
| Ethernet Filter Properties | C | This IE shall be present when provisioning a bidirectional Ethernet Filter the first time (see clause 5.13.4). | - | - | - | X | Ethernet Filter Properties |
| MAC address | O | If present, this IE shall identify the MAC address.  This IE may be present up to 16 times. | - | - | - | X | MAC address |
| Ethertype | O | If present, this IE shall identify the Ethertype. | - | - | - | X | Ethertype |
| C-TAG | O | If present, this IE shall identify the Customer-VLAN tag. | - | - | - | X | C-TAG |
| S-TAG | O | If present, this IE shall identify the Service-VLAN tag. | - | - | - | X | S-TAG |
| SDF Filter | O | If packet filtering is required, for Ethernet frames with Ethertype indicating IPv4 or IPv6 payload, this IE shall describe the IP Packet Filter Set.  Several IEs with the same IE type may be present to represent a list of SDF filters. | - | - | - | X | SDF Filter |

Table 7.5.2.2-4: IP Multicast Addressing Info IE within PFCP Session Establishment Request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Octet 1 and 2 |  | IP Multicast Addressing Info IE Type = 188 (decimal) | | | | | |
| Octets 3 and 4 |  | Length = n | | | | | |
| Information elements | P | Condition / Comment | Appl. | | | | IE Type |
| Sxa | Sxb | Sxc | N4 |
| IP Multicast Address | M | This IE shall contain the IP multicast address(es) of the DL multicast flow(s) or indicate "any" IP multicast address. | - | - | - | X | IP Multicast Address |
| Source IP Address | O | When present, this IE shall contain the source specific IP address of the DL multicast flow.  Several IEs with the same IE type may be present to represent multiple source specific addresses.  If this IE is not present, this indicates "any" source IP address. | - | - | - | X | Source IP Address |

Table 7.5.2.2-5: Redundant Transmission Parameters IE in PDI

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Octet 1 and 2 |  | Redundant Transmission Parameters IE Type = 255 (decimal) | | | | | |
| Octets 3 and 4 |  | Length = n | | | | | |
| Information elements | P | Condition / Comment | Appl. | | | | IE Type |
| Sxa | Sxb | Sxc | N4 |
| Local F-TEID for Redundant Transmission | M | This IE shall identify the local F-TEID to match for an incoming packet for redundant transmission.  The CP function shall set the CHOOSE (CH) bit to 1 if it requests the UP function to assign a local F-TEID to the PDR. | - | - | - | X | F-TEID |
| Network Instance for Redundant Transmission | C | This IE shall be included if the Local F-TEID for Redundant Transmission uses a different network Instance than the Network Instance used for the Local F-TEID for the primary GTP-U tunnel. | - | - | - | X | Network Instance |

\* \* \* Next Change \* \* \* \*

### 8.1.2 Information Element Types

A PFCP message may contain several IEs. In order to have forward compatible type definitions for the PFCP IEs, all of them shall be TLV (Type, Length, Value) coded. PFCP IE type values are specified in the Table 8.1.2-1.

The 3rd column of this table specifies if the IE is either Extendable or has a variable length or a fixed length and a reference to the clause where the IE is specified:

- Fixed Length: the IE has a fixed set of fields, and a fixed number of octets;

- Variable Length: the IE has a fixed set of fields, and has a variable number of octets.  
For example, the last octets may be numbered similar to "5 to (n+4)". In this example, if the value of the length field, n, is 0, then the last field is not present;

- Extendable: the IE has a variable number of fields, and has a variable number of octets.  
The last fields are typically specified with the statement: "These octet(s) is/are present only if explicitly specified". The legacy receiving entity shall ignore the unknown octets.

The 4th column of this table indicates the number of fixed Octets the IE contained when the IE was first defined in the specification, which shall be an integer value reflecting the minimum length of fixed octets defined for the IE.

An IE of any of the above types may have a null length as specified in clause 5.6.3. This shall not be considered as an error by the receiving PFCP entity.

In order to improve the efficiency of troubleshooting, it is recommended that the IEs should be arranged in the signalling messages as well as in the grouped IEs, according to the order the IEs are listed in the message definition table or grouped IE definition table in clause 7. However the receiving entity shall be prepared to handle the messages with IEs in any order.

Within IEs, certain fields may be described as spare. These bits shall be transmitted with the value set to "0". To allow for future features, the receiver shall not evaluate these bits.

Table 8.1.2-1: Information Element Types

| IE Type value  (Decimal) | Information elements | Comment / Reference | Number of Fixed Octets |
| --- | --- | --- | --- |
| 0 | Reserved |  |  |
| 1 | Create PDR | Extendable / Table 7.5.2.2-1 | Not Applicable |
| 2 | PDI | Extendable / Table 7.5.2.2-2 | Not Applicable |
| 3 | Create FAR | Extendable / Table 7.5.2.3-1 | Not Applicable |
| 4 | Forwarding Parameters | Extendable / Table 7.5.2.3-2 | Not Applicable |
| 5 | Duplicating Parameters | Extendable / Table 7.5.2.3-3 | Not Applicable |
| 6 | Create URR | Extendable / Table 7.5.2.4-1 | Not Applicable |
| 7 | Create QER | Extendable / Table 7.5.2.5-1 | Not Applicable |
| 8 | Created PDR | Extendable / Table 7.5.3.2-1 | Not Applicable |
| 9 | Update PDR | Extendable / Table 7.5.4.2-1 | Not Applicable |
| 10 | Update FAR | Extendable / Table 7.5.4.3-1 | Not Applicable |
| 11 | Update Forwarding Parameters | Extendable / Table 7.5.4.3-2 | Not Applicable |
| 12 | Update BAR (PFCP Session Report Response) | Extendable / Table 7.5.9.2-1 | Not Applicable |
| 13 | Update URR | Extendable / Table 7.5.4.4 | Not Applicable |
| 14 | Update QER | Extendable / Table 7.5.4.5 | Not Applicable |
| 15 | Remove PDR | Extendable / Table 7.5.4.6 | Not Applicable |
| 16 | Remove FAR | Extendable / Table 7.5.4.7 | Not Applicable |
| 17 | Remove URR | Extendable / Table 7.5.4.8 | Not Applicable |
| 18 | Remove QER | Extendable / Table 7.5.4.9 | Not Applicable |
| 19 | Cause | Fixed / Clause 8.2.1 | 1 |
| 20 | Source Interface | Extendable / Clause 8.2.2 | 1 |
| 21 | F-TEID | Extendable / Clause 8.2.3 | 1 |
| 22 | Network Instance | Variable Length / Clause 8.2.4 | Not Applicable |
| 23 | SDF Filter | Extendable / Clause 8.2.5 | 2 |
| 24 | Application ID | Variable Length / Clause 8.2.6 | Not Applicable |
| 25 | Gate Status | Extendable / Clause 8.2.7 | 1 |
| 26 | MBR | Extendable / Clause 8.2.8 | 10 |
| 27 | GBR | Extendable / Clause 8.2.9 | 10 |
| 28 | QER Correlation ID | Extendable / Clause 8.2.10 | 4 |
| 29 | Precedence | Extendable / Clause 8.2.11 | 4 |
| 30 | Transport Level Marking | Extendable / Clause 8.2.12 | 2 |
| 31 | Volume Threshold | Extendable /Clause 8.2.13 | 1 |
| 32 | Time Threshold | Extendable /Clause 8.2.14 | 4 |
| 33 | Monitoring Time | Extendable /Clause 8.2.15 | 4 |
| 34 | Subsequent Volume Threshold | Extendable /Clause 8.2.16 | 1 |
| 35 | Subsequent Time Threshold | Extendable /Clause 8.2.17 | 4 |
| 36 | Inactivity Detection Time | Extendable /Clause 8.2.18 | 4 |
| 37 | Reporting Triggers | Extendable /Clause 8.2.19 | 2 |
| 38 | Redirect Information | Extendable /Clause 8.2.20 | 3 |
| 39 | Report Type | Extendable / Clause 8.2.21 | 1 |
| 40 | Offending IE | Fixed / Clause 8.2.22 | 2 |
| 41 | Forwarding Policy | Extendable / Clause 8.2.23 | 1 |
| 42 | Destination Interface | Extendable / Clause 8.2.24 | 1 |
| 43 | UP Function Features | Extendable / Clause 8.2.25 | 1 |
| 44 | Apply Action | Extendable / Clause 8.2.26 | 1 |
| 45 | Downlink Data Service Information | Extendable / Clause 8.2.27 | 1 |
| 46 | Downlink Data Notification Delay | Extendable / Clause 8.2.28 | 1 |
| 47 | DL Buffering Duration | Extendable / Clause 8.2.29 | 1 |
| 48 | DL Buffering Suggested Packet Count | Variable / Clause 8.2.30 | Not Applicable |
| 49 | PFCPSMReq-Flags | Extendable / Clause 8.2.31 | 1 |
| 50 | PFCPSRRsp-Flags | Extendable / Clause 8.2.32 | 1 |
| 51 | Load Control Information | Extendable / Table 7.5.3.3-1 | Not Applicable |
| 52 | Sequence Number | Fixed Length / Clause 8.2.33 | 4 |
| 53 | Metric | Fixed Length / Clause 8.2.34 | 1 |
| 54 | Overload Control Information | Extendable / Table 7.5.3.4-1 | Not Applicable |
| 55 | Timer | Extendable / Clause 8.2 35 | 1 |
| 56 | PDR ID | Extendable / Clause 8.2 36 | 2 |
| 57 | F-SEID | Extendable / Clause 8.2 37 | 9 |
| 58 | Application ID's PFDs | Extendable / Table 7.4.3.1-2 | Not Applicable |
| 59 | PFD context | Extendable / Table 7.4.3.1-3 | Not Applicable |
| 60 | Node ID | Extendable / Clause 8.2.38 | 1 |
| 61 | PFD contents | Extendable / Clause 8.2.39 | 2 |
| 62 | Measurement Method | Extendable / Clause 8.2.40 | 1 |
| 63 | Usage Report Trigger | Extendable / Clause 8.2.41 | 2 |
| 64 | Measurement Period | Extendable / Clause 8.2.42 | 4 |
| 65 | FQ-CSID | Extendable / Clause 8.2.43 | 1 |
| 66 | Volume Measurement | Extendable / Clause 8.2.44 | 1 |
| 67 | Duration Measurement | Extendable / Clause 8.2.45 | 4 |
| 68 | Application Detection Information | Extendable / Table 7.5.8.3-2 | Not Applicable |
| 69 | Time of First Packet | Extendable / Clause 8.2.46 | 4 |
| 70 | Time of Last Packet | Extendable / Clause 8.2.47 | 4 |
| 71 | Quota Holding Time | Extendable / Clause 8.2.48 | 4 |
| 72 | Dropped DL Traffic Threshold | Extendable / Clause 8.2.49 | 1 |
| 73 | Volume Quota | Extendable / Clause 8.2.50 | 1 |
| 74 | Time Quota | Extendable / Clause 8.2.51 | 4 |
| 75 | Start Time | Extendable / Clause 8.2.52 | 4 |
| 76 | End Time | Extendable / Clause 8.2.53 | 4 |
| 77 | Query URR | Extendable / Table 7.5.4.10-1 | Not Applicable |
| 78 | Usage Report (Session Modification Response) | Extendable / Table 7.5.5.2-1 | Not Applicable |
| 79 | Usage Report (Session Deletion Response) | Extendable / Table 7.5.7.2-1 | Not Applicable |
| 80 | Usage Report (Session Report Request) | Extendable / Table 7.5.8.3-1 | Not Applicable |
| 81 | URR ID | Extendable / Clause 8.2.54 | 4 |
| 82 | Linked URR ID | Extendable / Clause 8.2.55 | 4 |
| 83 | Downlink Data Report | Extendable / Table 7.5.8.2-1 | Not Applicable |
| 84 | Outer Header Creation | Extendable / Clause 8.2.56 | 2 |
| 85 | Create BAR | Extendable / Table 7.5.2.6-1 | Not Applicable |
| 86 | Update BAR (Session Modification Request) | Extendable / Table 7.5.4.11-1 | Not Applicable |
| 87 | Remove BAR | Extendable / Table 7.5.4.12-1 | Not Applicable |
| 88 | BAR ID | Extendable / Clause 8.2.57 | 1 |
| 89 | CP Function Features | Extendable / Clause 8.2.58 | 1 |
| 90 | Usage Information | Extendable / Clause 8.2.59 | 1 |
| 91 | Application Instance ID | Variable Length / Clause 8.2.60 | Not Applicable |
| 92 | Flow Information | Extendable / Clause 8.2.61 | 3 |
| 93 | UE IP Address | Extendable / Clause 8.2.62 | 1 |
| 94 | Packet Rate | Extendable / Clause 8.2.63 | 1 |
| 95 | Outer Header Removal | Extendable / Clause 8.2.64 | 1 |
| 96 | Recovery Time Stamp | Extendable / Clause 8.2.65 | 4 |
| 97 | DL Flow Level Marking | Extendable / Clause 8.2.66 | 1 |
| 98 | Header Enrichment | Extendable / Clause 8.2.67 | 1 |
| 99 | Error Indication Report | Extendable / Table 7.5.8.4-1 | Not Applicable |
| 100 | Measurement Information | Extendable / Clause 8.2.68 | 1 |
| 101 | Node Report Type | Extendable / Clause 8.2.69 | 1 |
| 102 | User Plane Path Failure Report | Extendable / Table 7.4.5.1.2-1 | Not Applicable |
| 103 | Remote GTP-U Peer | Extendable / Clause 8.2.70 | 1 |
| 104 | UR-SEQN | Fixed Length / Clause 8.2.71 | 4 |
| 105 | Update Duplicating Parameters | Extendable / Table 7.5.4.3-3 | Not Applicable |
| 106 | Activate Predefined Rules | Variable Length / Clause 8.2.72 | Not Applicable |
| 107 | Deactivate Predefined Rules | Variable Length / Clause 8.2.73 | Not Applicable |
| 108 | FAR ID | Extendable / Clause 8.2.74 | 4 |
| 109 | QER ID | Extendable / Clause 8.2.75 | 4 |
| 110 | OCI Flags | Extendable / Clause 8.2.76 | 1 |
| 111 | PFCP Association Release Request | Extendable / Clause 8.2.77 | 1 |
| 112 | Graceful Release Period | Extendable / Clause 8.2.78 | 1 |
| 113 | PDN Type | Extendable / Clause 8.2.79 | 1 |
| 114 | Failed Rule ID | Extendable / Clause 8.2.80 | 1 |
| 115 | Time Quota Mechanism | Extendable / Clause 8.2.81 | 1 |
| 116 | Reserved |  |  |
| 117 | User Plane Inactivity Timer | Extendable /Clause 8.2.83 | 4 |
| 118 | Aggregated URRs | Extendable / Table 7.5.2.4-2 | Not Applicable |
| 119 | Multiplier | Fixed / Clause 8.2.84 | 12 |
| 120 | Aggregated URR ID | Fixed / Clause 8.2.85 | 4 |
| 121 | Subsequent Volume Quota | Extendable / Clause 8.2.86 | 1 |
| 122 | Subsequent Time Quota | Extendable / Clause 8.2.87 | 4 |
| 123 | RQI | Extendable / Clause 8.2.88 | 1 |
| 124 | QFI | Extendable / Clause 8.2.89 | 1 |
| 125 | Query URR Reference | Extendable / Clause 8.2.90 | 4 |
| 126 | Additional Usage Reports Information | Extendable / Clause 8.2.91 | 2 |
| 127 | Create Traffic Endpoint | Extendable / Table 7.5.2.7 | Not Applicable |
| 128 | Created Traffic Endpoint | Extendable / Table 7.5.3.5 | Not Applicable |
| 129 | Update Traffic Endpoint | Extendable / Table 7.5.4.13 | Not Applicable |
| 130 | Remove Traffic Endpoint | Extendable / Table 7.5.4.14 | Not Applicable |
| 131 | Traffic Endpoint ID | Extendable / Clause 8.2.92 | 1 |
| 132 | Ethernet Packet Filter | Extendable / Table 7.5.2.2-3 | Not Applicable |
| 133 | MAC address | Extendable / Clause 8.2.93 | 1 |
| 134 | C-TAG | Extendable / Clause 8.2.94 | 3 |
| 135 | S-TAG | Extendable / Clause 8.2.95 | 3 |
| 136 | Ethertype | Extendable / Clause 8.2.96 | 2 |
| 137 | Proxying | Extendable / Clause 8.2.97 | 1 |
| 138 | Ethernet Filter ID | Extendable / Clause 8.2.98 | 4 |
| 139 | Ethernet Filter Properties | Extendable / Clause 8.2.99 | 1 |
| 140 | Suggested Buffering Packets Count | Extendable / Clause 8.2.100 | 1 |
| 141 | User ID | Extendable / Clause 8.2.101 | 1 |
| 142 | Ethernet PDU Session Information | Extendable / Clause 8.2.102 | 1 |
| 143 | Ethernet Traffic Information | Extendable / Table 7.5.8.3-3 | Not Applicable |
| 144 | MAC Addresses Detected | Extendable / Clause 8.2.103 | 7 |
| 145 | MAC Addresses Removed | Extendable / Clause 8.2.104 | 7 |
| 146 | Ethernet Inactivity Timer | Extendable / Clause 8.2.105 | 4 |
| 147 | Additional Monitoring Time | Extendable / Table 7.5.2.4-3 | Not Applicable |
| 148 | Event Quota | Extendable / Clause 8.2.112 | 4 |
| 149 | Event Threshold | Extendable / Clause 8.2.113 | 4 |
| 150 | Subsequent Event Quota | Extendable / Clause 8.2.106 | 4 |
| 151 | Subsequent Event Threshold | Extendable / Clause 8.2.107 | 4 |
| 152 | Trace Information | Extendable / Clause 8.2.108 | 7 |
| 153 | Framed-Route | Variable Length / Clause 8.2.109 | Not Applicable |
| 154 | Framed-Routing | Fixed Length / Clause 8.2.110 | 4 |
| 155 | Framed-IPv6-Route | Variable Length / Clause 8.2.111 | Not Applicable |
| 156 | Event Time Stamp | Extendable / Clause 8.2.114 | 4 |
| 157 | Averaging Window | Extendable /Clause 8.2.115 | 4 |
| 158 | Paging Policy Indicator | Extendable / Clause 8.2.116 | 1 |
| 159 | APN/DNN | Variable Length / Clause 8.2.117 | Not Applicable |
| 160 | 3GPP Interface Type | Extendable / Clause 8.2.118 | 1 |
| 161 | PFCPSRReq-Flags | Extendable / Clause 8.2.119 | 1 |
| 162 | PFCPAUReq-Flags | Extendable / Clause 8.2.120 | 1 |
| 163 | Activation Time | Extendable / Clause 8.2.121 | 4 |
| 164 | Deactivation Time | Extendable / Clause 8.2.122 | 4 |
| 165 | Create MAR | Extendable / Table 7.5.2.8-1 | Not Applicable |
| 166 | 3GPP Access Forwarding Action Information | Extendable / Table 7.5.2.8-2 | Not Applicable |
| 167 | Non-3GPP Access Forwarding Action Information | Extendable / Table 7.5.2.8-3 | Not Applicable |
| 168 | Remove MAR | Extendable / Table 7.5.4.15-1 | Not Applicable |
| 169 | Update MAR | Extendable / Table 7.5.4.16-1 | Not Applicable |
| 170 | MAR ID | Extendable / Clause 8.2.123 | 2 |
| 171 | Steering Functionality | Extendable / Clause 8.2.124 | 1 |
| 172 | Steering Mode | Extendable / Clause 8.2.125 | 1 |
| 173 | Weight | Fixed / Clause 8.2.126 | 1 |
| 174 | Priority | Extendable / Clause 8.2.127 | 1 |
| 175 | Update 3GPP Access Forwarding Action Information | Extendable / Table 7.5.4.16-2 | Not Applicable |
| 176 | Update Non 3GPP Access Forwarding Action Information | Extendable / Table 7.5.4.16-3 | Not Applicable |
| 177 | UE IP address Pool Identity | Extendable / Clause 8.2.128 | 2 |
| 178 | Alternative SMF IP Address | Extendable / Clause 8.2.129 | 1 |
| 179 | Packet Replication and Detection Carry-On Information | Extendable / Clause 8.2.130 | 1 |
| 180 | SMF Set ID | Extendable / Clause 8.2.131 | Not applicable |
| 181 | Quota Validity Time | Extendable / Clause 8.2.132 | 4 |
| 182 | Number of Reports | Fixed / Clause 8.2.133 | 2 |
| 183 | PFCP Session Retention Information (within PFCP Association Setup Request) | Extendable / Table 7.4.4.1-2 | 1 |
| 184 | PFCPASRsp-Flags | Extendable / Clause 8.2.134 | 1 |
| 185 | CP PFCP Entity IP Address | Extendable / Clause 8.2.135 | 1 |
| 186 | PFCPSEReq-Flags | Extendable / Clause 8.2.136 | 1 |
| 187 | User Plane Path Recovery Report | Extendable / Table 7.4.5.1.3-1 | Not Applicable |
| 188 | IP Multicast Addressing Info within PFCP Session Establishment Request | Extendable / Clause 7.5.2.2-4 | Not Applicable |
| 189 | Join IP Multicast Information IE within Usage Report | Extendable / Table 7.5.8.3-4 | Not Applicable |
| 190 | Leave IP Multicast Information IE within Usage Report | Extendable / Table 7.5.8.3-5 | Not Applicable |
| 191 | IP Multicast Address | Extendable / Clause 8.2.137 | 1 |
| 192 | Source IP Address | Extendable / Clause 8.2.138 | 1 |
| 193 | Packet Rate Status | Extendable / Clause 8.2.139 | 1 |
| 194 | Create Bridge Info for TSC | Extendable / Clause 8.2.140 | 1 |
| 195 | Created Bridge Info for TSC | Extendable / Table 7.5.3.6-1 | Not Applicable |
| 196 | DS-TT Port Number | Fixed Length / Clause 8.2.141 | 4 |
| 197 | NW-TT Port Number | Fixed Length / Clause 8.2.142 | 4 |
| 198 | TSN Bridge ID | Extendable / Clause 8.2.143 | 1 |
| 199 | Port Management Information for TSC IE within PFCP Session Modification Request | Extendable / Table 7.5.4.18-1 | Not Applicable |
| 200 | Port Management Information for TSC IE within PFCP Session Modification Response | Extendable / Table 7.5.5.3-1 | Not Applicable |
| 201 | Port Management Information for TSC IE within PFCP Session Report Request | Extendable / Table 7.5.8.5-1 | Not Applicable |
| 202 | Port Management Information Container | Variable Length / Clause 8.2.144 | Not Applicable |
| 203 | Clock Drift Control Information | Extendable / Table 7.4.4.1.2-1 | Not Applicable |
| 204 | Requested Clock Drift Information | Extendable / Clause 8.2.145 | 1 |
| 205 | Clock Drift Report | Extendable / Table 7.4.5.1.4-1 | Not Applicable |
| 206 | TSN Time Domain Number | Extendable / Clause 8.2.146 | 1 |
| 207 | Time Offset Threshold | Extendable / Clause 8.2.147 | 8 |
| 208 | Cumulative rateRatio Threshold | Extendable / Clause 8.2.148 | 4 |
| 209 | Time Offset Measurement | Extendable / Clause 8.2.149 | 8 |
| 210 | Cumulative rateRatio Measurement | Extendable / Clause 8.2.150 | 4 |
| 211 | Remove SRR | Extendable/ Table 7.5.4.19-1 | Not applicable |
| 212 | Create SRR | Extendable/ Table 7.5.2.9-1 | Not applicable |
| 213 | Update SRR | Extendable/ Table 7.5.4.21-1 | Not applicable |
| 214 | Session Report | Extendable / Table 7.5.8.7-1 | Not Applicable |
| 215 | SRR ID | Extendable / Clause 8.2.151 | 1 |
| 216 | Access Availability Control Information | Extendable / Table 7.5.2.9-2 | Not applicable |
| 217 | Requested Access Availability Information | Extendable / Clause 8.2.152 | 1 |
| 218 | Access Availability Report | Extendable / Table 7.5.8.6-2 | Not applicable |
| 219 | Access Availability Information | Extendable / Clause 8.2.153 | 1 |
| 220 | Provide ATSSS Control Information | Extendable / Table 7.5.2.10-1 | Not Applicable |
| 221 | ATSSS Control Parameters | Extendable / Table 7.5.3.7-1 | Not Applicable |
| 222 | MPTCP Control Information | Extendable / Clause 8.2.154 | 1 |
| 223 | ATSSS-LL Control Information | Extendable / Clause 8.2.155 | 1 |
| 224 | PMF Control Information | Extendable / Clause 8.2.156 | 1 |
| 225 | MPTCP Parameters | Extendable / Table 7.5.3.7-2 | Not Applicable |
| 226 | ATSSS-LL Parameters | Extendable / Table 7.5.3.7-3 | Not Applicable |
| 227 | PMF Parameters | Extendable / Table 7.5.3.7-4 | Not Applicable |
| 228 | MPTCP Address Information | Extendable / Clause 8.2.157 | 4 |
| 229 | UE Link-Specific IP Address | Extendable / Clause 8.2.158 | 1 |
| 230 | PMF Address Information | Extendable / Clause 8.2.159 | 1 |
| 231 | ATSSS-LL Information | Extendable / Clause 8.2.160 | 1 |
| 232 | Data Network Access Identifier | Variable Length / Clause 8.2.161 | Not applicable |
| 233 | UE IP address Pool Information | Extendable / Table 7.4.4.1-3 | Not Applicable |
| 234 | Average Packet Delay | Extendable / Clause 8.2.162 | 4 |
| 235 | Minimum Packet Delay | Extendable / Clause 8.2.163 | 4 |
| 236 | Maximum Packet Delay | Extendable / Clause 8.2.164 | 4 |
| 237 | QoS Report Trigger | Extendable / Clause 8.2.165 | 1 |
| 238 | GTP-U Path QoS Control Information | Extendable / Table 7.4.4.1.3-1 | Not Applicable |
| 239 | GTP-U Path QoS Report (PFCP Node Report Request) | Extendable / Table 7.4.5.1.5-1 | Not Applicable |
| 240 | QoS Information in GTP-U Path QoS Report | Extendable / Table 7.4.5.1.6-1 | Not Applicable |
| 241 | GTP-U Path Interface Type | Extendable / Clause 8.2.166 | 1 |
| 242 | QoS Monitoring per QoS flow Control Information | Extendable / Table 7.5.2.9-3 | Not applicable |
| 243 | Requested QoS Monitoring | Extendable / Clause 8.2.167 | 1 |
| 244 | Reporting Frequency | Extendable / Clause 8.2.168 | 1 |
| 245 | Packet Delay Thresholds | Extendable / Clause 8.2.169 | 1 |
| 246 | Minimum Wait Time | Extendable / Clause 8.2.170 | 4 |
| 247 | QoS Monitoring Report | Extendable / Table 7.5.8.6-3 | Not applicable |
| 248 | QoS Monitoring Measurement | Extendable / Clause 8.2.171 | 1 |
| 249 | MT-EDT Control Information | Extendable / Clause 8.2.172 | 1 |
| 250 | DL Data Packets Size | Extendable / Clause 8.2.173 | 2 |
| 251 | QER Control Indications | Extendable / Clause 8.2.174 | 1 |
| 252 | Packet Rate Status Report | Extendable / Table 7.5.7.1-2 | Not applicable |
| 253 | NF Instance ID | Fixed / Clause 8.2.175 | 16 |
| 254 | Ethernet Context Information | Extendable / Table 7.5.4.21-1 | Not Applicable |
| 255 | Redundant Transmission Parameters | Extendable / Table 7.5.2.2-5, Table 7.5.2.3-4 | Not Applicable |
| 256 | Updated PDR | Extendable / Table 7.5.9.3-1 | Not Applicable |
| x | UE IPv6 address Pool Identity | Extendable / Clause 8.2.y | 2 |
| z to 32767 | Spare. For future use. |  |  |
| 32768 to 65535 | Reserved for vendor specific IEs |  |  |

\* \* \* Next Change \* \* \* \*

### 8.2.128 UE IP address Pool Identity

The User Plane UE IP Pool Identity IE type shall be encoded as shown in Figure 8.2.128-1.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Bits | | | | | | | |  |
|  | Octets | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
|  | 1 to 2 | Type = 177 (decimal) | | | | | | | |  |
|  | 3 to 4 | Length = n | | | | | | | |  |
|  | 5 to 6 | UE IP address Pool Id Length | | | | | | | |  |
|  | 7 to k | UE IP address Pool Identity | | | | | | | |  |
|  | m to (n+4) | These octet(s) is/are present only if explicitly specified | | | | | | | |  |

Figure 8.2.128-1: UE IP address Pool Identity

Octets 7 to "k": The UE IP address Pool Identity shall be encoded as an OctetString (see the Framed-Ipv6-Pool and Framed-Pool in clause 12.6.3 of 3GPP TS 29.561 [49], the value part of Framed-Pool is copied into the UE IP address Pool Identity field of the UE IP address Pool Identity IE if the SMF receives the corresponding information from external server).

\* \* \* Next Change \* \* \* \*

### 8.2.y UE IPv6 address Pool Identity

The User Plane UE IPv6 Pool Identity IE type shall be encoded as shown in Figure 8.2.y-1.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Bits | | | | | | | |  |
|  | Octets | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
|  | 1 to 2 | Type = x (decimal) | | | | | | | |  |
|  | 3 to 4 | Length = n | | | | | | | |  |
|  | 5 to 6 | UE IPv6 address Pool Id Length | | | | | | | |  |
|  | 7 to k | UE IPv6 address Pool Identity | | | | | | | |  |
|  | m to (n+4) | These octet(s) is/are present only if explicitly specified | | | | | | | |  |

Figure 8.2.x-1: UE IPv6 address Pool Identity

Octets 7 to "k": The UE IPv6 address Pool Identity shall be encoded as an OctetString (see the Framed-Ipv6-Pool in clause 12.6.3 of 3GPP TS 29.561 [49], the value part of Framed-Ipv6-Pool is copied into the UE IPv6 address Pool Identity field of the UE IPv6 address Pool Identity IE if the SMF receives the corresponding information from external server).

\* \* \* End of Changes \* \* \* \*