**3GPP TSG-CT WG1 Meeting #131-eC1-21abcd**

**Electronic meeting, 19 – 27 Aug 2021 *(was* C1-214586)**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.301** | **CR** | **3577** | **rev** | **1** | **Current version:** | **17.3.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **X** |

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| --- |
|  |
| ***Title:***  | Asignment of IEI values |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2021-08-23 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)...Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | A number of IEI values are not assigned in the version v17.3.0 of the TS 24.301 specification. Some of those IEI values correspond to IEs which are used in both TS 24.301 and TS 24.501. |
|  |  |
| ***Summary of change:*** | IEI values are assigned. |
|  |  |
| ***Consequences if not approved:*** | IEI values for a number of information elements (IE) not assigned which results in that those IEs cannot be implemented and their related functionality supported by the 3GPP system. |
|  |  |
| ***Clauses affected:*** | 8.2.1.1, 8.2.4.1, 8.2.15.1, 8.2.26.1, 8.2.29.1, 8.2.33.1 |
|  |  |
|  | **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 \* \* \* \*

#### 8.2.1.1 Message definition

This message is sent by the network to the UE to indicate that the corresponding attach request has been accepted. See table 8.2.1.1.

Message type: ATTACH ACCEPT

Significance: dual

Direction: network to UE

Table 8.2.1.1: ATTACH ACCEPT message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Attach accept message identity | Message type9.8 | M | V | 1 |
|  | EPS attach result | EPS attach result9.9.3.10 | M | V | 1/2 |
|  | Spare half octet | Spare half octet9.9.2.9 | M | V | 1/2 |
|  | T3412 value | GPRS timer9.9.3.16 | M | V | 1 |
|  | TAI list | Tracking area identity list9.9.3.33 | M | LV | 7-97 |
|  | ESM message container | ESM message container9.9.3.15 | M | LV-E | 5-n |
| 50 | GUTI | EPS mobile identity9.9.3.12 | O | TLV | 13 |
| 13 | Location area identification | Location area identification9.9.2.2 | O | TV | 6 |
| 23 | MS identity | Mobile identity9.9.2.3 | O | TLV | 7-10 |
| 53 | EMM cause | EMM cause9.9.3.9 | O | TV | 2 |
| 17 | T3402 value | GPRS timer9.9.3.16 | O | TV | 2 |
| 59 | T3423 value | GPRS timer9.9.3.16 | O | TV | 2 |
| 4A | Equivalent PLMNs | PLMN list9.9.2.8 | O | TLV | 5-47 |
| 34 | Emergency number list | Emergency number list9.9.3.37 | O | TLV | 5-50 |
| 64 | EPS network feature support | EPS network feature support9.9.3.12A | O | TLV | 3-4 |
| F- | Additional update result | Additional update result9.9.3.0A | O | TV | 1 |
| 5E | T3412 extended value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 6A | T3324 value | GPRS timer 29.9.3.16A | O | TLV | 3 |
| 6E | Extended DRX parameters | Extended DRX parameters9.9.3.46 | O | TLV | 3 |
| 65 | DCN-ID | DCN-ID9.9.3.48 | O | TLV | 4 |
| E- | SMS services status | SMS services status9.9.3.4B | O | TV | 1 |
| D- | Non-3GPP NW provided policies | Non-3GPP NW provided policies9.9.3.49 | O | TV | 1 |
| 6B | T3448 value | GPRS timer 29.9.3.16A | O | TLV | 3 |
| C- | Network policy | Network policy9.9.3.52 | O | TV | 1 |
| 6C | T3447 value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 7A | Extended emergency number list | Extended emergency number list9.9.3.37A | O | TLV-E | 7-65538 |
| 7C | Ciphering key data | Ciphering key data9.9.3.56 | O | TLV-E | 35-2291 |
| 66 | UE radio capability ID | UE radio capability ID9.9.3.60 | O | TLV | 3-n |
| B- | UE radio capability ID deletion indication | UE radio capability ID deletion indication9.9.3.61 | O | TV | 1 |
| 35 | Negotiated WUS assistance information | WUS assistance information9.9.3.62 | O | TLV | 3-n |
| 36 | Negotiated DRX parameter in NB-S1 mode | NB-S1 DRX parameter9.9.3.63 | O | TLV | 3 |
| 38 | Negotiated IMSI offset | IMSI offset9.9.3.64 | O | TLV | 4 |

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

#### 8.2.4.1 Message definition

This message is sent by the UE to the network in order to perform an attach procedure. See table 8.2.4.1.

Message type: ATTACH REQUEST

Significance: dual

Direction: UE to network

Table 8.2.4.1: ATTACH REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Attach request message identity | Message type9.8 | M | V | 1 |
|  | EPS attach type | EPS attach type9.9.3.11 | M | V | 1/2 |
|  | NAS key set identifier | NAS key set identifier9.9.3.21 | M | V | 1/2 |
|  | EPS mobile identity | EPS mobile identity9.9.3.12 | M | LV | 5-12 |
|  | UE network capability | UE network capability9.9.3.34 | M | LV | 3-14 |
|  | ESM message container | ESM message container9.9.3.15 | M | LV-E | 5-n |
| 19 | Old P-TMSI signature | P-TMSI signature9.9.3.26 | O | TV | 4 |
| 50 | Additional GUTI | EPS mobile identity9.9.3.12 | O | TLV | 13 |
| 52 | Last visited registered TAI | Tracking area identity9.9.3.32 | O | TV | 6 |
| 5C | DRX parameter | DRX parameter9.9.3.8 | O | TV | 3 |
| 31 | MS network capability | MS network capability9.9.3.20 | O | TLV | 4-10 |
| 13 | Old location area identification | Location area identification9.9.2.2 | O | TV | 6 |
| 9- | TMSI status | TMSI status9.9.3.31 | O | TV | 1 |
| 11 | Mobile station classmark 2 | Mobile station classmark 29.9.2.4 | O | TLV | 5 |
| 20 | Mobile station classmark 3 | Mobile station classmark 39.9.2.5 | O | TLV | 2-34 |
| 40 | Supported Codecs | Supported Codec List9.9.2.10 | O | TLV | 5-n |
| F- | Additional update type | Additional update type9.9.3.0B | O | TV | 1 |
| 5D | Voice domain preference and UE's usage setting | Voice domain preference and UE's usage setting9.9.3.44 | O | TLV | 3 |
| D- | Device properties | Device properties9.9.2.0A | O | TV | 1 |
| E- | Old GUTI type | GUTI type9.9.3.45 | O | TV | 1 |
| C-  | MS network feature support | MS network feature support9.9.3.20A | O | TV | 1 |
| 10 | TMSI based NRI container | Network resource identifier container9.9.3.24A | O | TLV | 4 |
| 6A | T3324 value | GPRS timer 29.9.3.16A | O | TLV | 3 |
| 5E | T3412 extended value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 6E | Extended DRX parameters | Extended DRX parameters9.9.3.46 | O | TLV | 3 |
| 6F | UE additional security capability | UE additional security capability9.9.3.53 | O | TLV | 6 |
| 6D | UE status | UE status9.9.3.54 | O | TLV | 3 |
| 17 | Additional information requested | Additional information requested9.9.3.55 | O | TV | 2 |
| 32 | N1 UE network capability | N1 UE network capability9.9.3.57 | O | TLV | 3-15 |
| 34 | UE radio capability ID availability | UE radio capability ID availability9.9.3.58 | O | TLV | 3 |
| 35 | Requested WUS assistance information | WUS assistance information9.9.3.62 | O | TLV | 3-n |
| 36 | DRX parameter in NB-S1 mode | NB-S1 DRX parameter9.9.3.63 | O | TLV | 3 |
| 38 | Requested IMSI offset | IMSI offset9.9.3.64 | O | TLV | 4 |

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

#### 8.2.15.1 Message definition

This message is sent by the UE to the network

- to initiate a CS fallback or 1xCS fallback call or respond to a mobile terminated CS fallback or 1xCS fallback request from the network; or

- to request the establishment of a NAS signalling connection and of the radio and S1 bearers for packet services, if the UE needs to provide additional information that cannot be provided via a SERVICE REQUEST message.

See table 8.2.15.1.

Message type: EXTENDED SERVICE REQUEST

Significance: dual

Direction: UE to network

Table 8.2.15.1: EXTENDED SERVICE REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Extended service request message identity | Message type9.8 | M | V | 1 |
|  | Service type | Service type9.9.3.27 | M | V | 1/2 |
|  | NAS key set identifier | NAS key set identifier9.9.3.21 | M | V | 1/2 |
|  | M-TMSI | Mobile identity9.9.2.3 | M | LV | 6 |
| B- | CSFB response | CSFB response9.9.3.5 | C | TV | 1 |
| 57 | EPS bearer context status | EPS bearer context status9.9.2.1 | O | TLV | 4 |
| D- | Device properties | Device properties9.9.2.0A | O | TV | 1 |
| 29 | UE request type | UE request type9.9.3.65 | O | TLV | 3 |
| 28 | Paging restriction | Paging restriction9.9.3.66 | O | TLV | 3-5 |

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

#### 8.2.26.1 Message definition

This message is sent by the network to the UE to provide the UE with EPS mobility management related data in response to a tracking area update request message. See table 8.2.26.1.

Message type: TRACKING AREA UPDATE ACCEPT

Significance: dual

Direction: network to UE

Table 8.2.26.1: TRACKING AREA UPDATE ACCEPT message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Tracking area update accept message identity | Message type9.8 | M | V | 1 |
|  | EPS update result | EPS update result9.9.3.13 | M | V | 1/2 |
|  | Spare half octet | Spare half octet9.9.2.9 | M | V | 1/2 |
| 5A | T3412 value | GPRS timer9.9.3.16 | O | TV | 2 |
| 50 | GUTI | EPS mobile identity9.9.3.12 | O | TLV | 13 |
| 54 | TAI list | Tracking area identity list9.9.3.33 | O | TLV | 8-98 |
| 57 | EPS bearer context status | EPS bearer context status9.9.2.1 | O | TLV | 4 |
| 13 | Location area identification | Location area identification9.9.2.2 | O | TV | 6 |
| 23 | MS identity | Mobile identity9.9.2.3 | O | TLV | 7-10 |
| 53 | EMM cause | EMM cause9.9.3.9 | O | TV | 2 |
| 17 | T3402 value | GPRS timer9.9.3.16 | O | TV | 2 |
| 59 | T3423 value | GPRS timer9.9.3.16 | O | TV | 2 |
| 4A | Equivalent PLMNs | PLMN list9.9.2.8 | O | TLV | 5-47 |
| 34 | Emergency number list | Emergency number list9.9.3.37 | O | TLV | 5-50 |
| 64 | EPS network feature support | EPS network feature support9.9.3.12A | O | TLV | 3-4 |
| F- | Additional update result | Additional update result9.9.3.0A | O | TV | 1 |
| 5E | T3412 extended value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 6A | T3324 value | GPRS timer 29.9.3.16A | O | TLV | 3 |
| 6E | Extended DRX parameters | Extended DRX parameters9.9.3.46 | O | TLV | 3 |
| 68 | Header compression configuration status | Header compression configuration status9.9.4.27 | O | TLV | 4 |
| 65 | DCN-ID | DCN-ID9.9.3.48 | O | TLV | 4 |
| E- | SMS services status | SMS services status9.9.3.4B | O | TV | 1 |
| D- | Non-3GPP NW policies | Non-3GPP NW provided policies9.9.3.49 | O | TV | 1 |
| 6B | T3448 value | GPRS timer 29.9.3.16A | O | TLV | 3 |
| C- | Network policy | Network policy9.9.3.52 | O | TV | 1 |
| 6C | T3447 value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 7A | Extended emergency number list | Extended emergency number list9.9.3.37A | O | TLV-E | 7-65538 |
| 7C | Ciphering key data | Ciphering key data9.9.3.56 | O | TLV-E | 35-2291 |
| 66 | UE radio capability ID | UE radio capability ID9.9.3.60 | O | TLV | 3-n |
| B- | UE radio capability ID deletion indication | UE radio capability ID deletion indication9.9.3.61 | O | TV | 1 |
| 35 | Negotiated WUS assistance information | WUS assistance information9.9.3.62 | O | TLV | 3-n |
| 36 | Negotiated DRX parameter in NB-S1 mode | NB-S1 DRX parameter9.9.3.63 | O | TLV | 3 |
| 38 | Negotiated IMSI offset | IMSI offset9.9.3.64 | O | TLV | 4 |

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

#### 8.2.29.1 Message definition

The purposes of sending the tracking area update request by the UE to the network are described in clause 5.5.3.1. See table 8.2.29.1.

Message type: TRACKING AREA UPDATE REQUEST

Significance: dual

Direction: UE to network

Table 8.2.29.1: TRACKING AREA UPDATE REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Tracking area update request message identity | Message type9.8 | M | V | 1 |
|  | EPS update type | EPS update type9.9.3.14 | M | V | 1/2 |
|  | NAS key set identifier | NAS key set identifier9.9.3.21 | M | V | 1/2 |
|  | Old GUTI  | EPS mobile identity9.9.3.12 | M | LV | 12 |
| B- | Non-current native NAS key set identifier | NAS key set identifier9.9.3.21 | O | TV | 1 |
| 8- | GPRS ciphering key sequence number | Ciphering key sequence number9.9.3.4a | O | TV | 1 |
| 19 | Old P-TMSI signature | P-TMSI signature9.9.3.26 | O | TV | 4 |
| 50 | Additional GUTI | EPS mobile identity9.9.3.12 | O | TLV | 13 |
| 55 | NonceUE | Nonce9.9.3.25 | O | TV | 5 |
| 58 | UE network capability | UE network capability9.9.3.34 | O | TLV | 4-15 |
| 52 | Last visited registered TAI | Tracking area identity9.9.3.32 | O | TV | 6 |
| 5C | DRX parameter | DRX parameter9.9.3.8 | O | TV | 3 |
| A- | UE radio capability information update needed | UE radio capability information update needed9.9.3.35 | O | TV | 1 |
| 57 | EPS bearer context status | EPS bearer context status9.9.2.1 | O | TLV | 4 |
| 31 | MS network capability | MS network capability9.9.3.20 | O | TLV | 4-10 |
| 13 | Old location area identification | Location area identification9.9.2.2 | O | TV | 6 |
| 9- | TMSI status | TMSI status9.9.3.31 | O | TV | 1 |
| 11 | Mobile station classmark 2 | Mobile station classmark 29.9.2.4 | O | TLV | 5 |
| 20 | Mobile station classmark 3 | Mobile station classmark 39.9.2.5 | O | TLV | 2-34 |
| 40 | Supported Codecs | Supported Codec List9.9.2.10 | O | TLV | 5-n |
| F- | Additional update type | Additional update type9.9.3.0B | O | TV | 1 |
| 5D | Voice domain preference and UE's usage setting | Voice domain preference and UE's usage setting9.9.3.44 | O | TLV | 3 |
| E- | Old GUTI type | GUTI type9.9.3.45 | O | TV | 1 |
| D- | Device properties | Device properties9.9.2.0A | O | TV | 1 |
| C- | MS network feature support  | MS network feature support9.9.3.20A | O | TV | 1 |
| 10 | TMSI based NRI container | Network resource identifier container9.9.3.24A | O | TLV | 4 |
| 6A | T3324 value | GPRS timer 29.9.3.16 | O | TLV | 3 |
| 5E | T3412 extended value | GPRS timer 39.9.3.16B | O | TLV | 3 |
| 6E | Extended DRX parameters | Extended DRX parameters9.9.3.46 | O | TLV | 3 |
| 6F | UE additional security capability | UE additional security capability9.9.3.53 | O | TLV | 6 |
| 6D | UE status | UE status9.9.3.54 | O | TLV | 3 |
| 17 | Additional information requested | Additional information requested9.9.3.55 | O | TV | 2 |
| 32 | N1 UE network capability | N1 UE network capability9.9.3.57 | O | TLV | 3-15 |
| 34 | UE radio capability ID availability | UE radio capability ID availability9.9.3.58 | O | TLV | 3 |
| 35 | Requested WUS assistance information | WUS assistance information9.9.3.62 | O | TLV | 3-n |
| 36 | DRX parameter in NB-S1 mode | NB-S1 DRX parameter9.9.3.63 | O | TLV | 3 |
| ABC | Requested IMSI offset | IMSI offset9.9.3.64 | O | TLV | 4 |
| 29 | UE request type | UE request type9.9.3.65 | O | TLV | 3 |
| 28 | Paging restriction | Paging restriction9.9.3.66 | O | TLV | 3-5 |

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

#### 8.2.33.1 Message definition

This message is sent by the UE to the network when the UE is using EPS services with control plane CIoT EPS optimization. See table 8.2.33.1.

Message type: CONTROL PLANE SERVICE REQUEST

Significance: dual

Direction: UE to network

Table 8.2.33.1: CONTROL PLANE SERVICE REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Protocol discriminator | Protocol discriminator9.2 | M | V | 1/2 |
|  | Security header type | Security header type9.3.1 | M | V | 1/2 |
|  | Control plane service request message identity | Message type9.8 | M | V | 1 |
|  | Control plane service type | Control plane service type9.9.3.47 | M | V | 1/2 |
|  | NAS key set identifier | NAS key set identifier9.9.3.21 | M | V | 1/2 |
| 78 | ESM message container | ESM message container9.9.3.15 | O | TLV-E | 3-n |
| 67 | NAS message container | NAS message container9.9.3.22 | O | TLV | 4-253 |
| 57 | EPS bearer context status | EPS bearer context status9.9.2.1 | O | TLV | 4 |
| D- | Device properties | Device properties9.9.2.0A | O | TV | 1 |
| 29 | UE request type | UE request type9.9.3.65 | O | TLV | 3 |
| 28 | Paging restriction | Paging restriction9.9.3.66 | O | TLV | 3-5 |

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