## 9.7 Message type

The Message type IE and its use are defined in 3GPP TS 24.007 [11]. Tables 9.7.1 and 9.7.2 define the value part of the message type IE used in the 5GS mobility management protocol and 5GS session management protocol.

Table 9.7.1: Message types for 5GS mobility management

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bits | | | | | | | | |  | |  |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | | Messages | |
|  |  |  |  |  |  |  |  |  | |  | |
| 0 | 1 | - | - | - | - | - | - |  | | 5GS mobility management messages | |
|  |  |  |  |  |  |  |  |  | |  | |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |  | | Registration request | |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | | Registration accept | |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |  | | Registration complete | |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |  | | Registration reject | |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | | Deregistration request (UE originating deRegistration) | |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |  | | Deregistration accept (UE originating deRegistration) | |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |  | | Deregistration request (UE terminated deRegistration) | |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |  | | Deregistration accept (UE terminated deRegistration) | |
|  |  |  |  |  |  |  |  |  | |  | |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | | Service request | |
| 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |  | | Service reject | |
| 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |  | | Service accept | |
|  |  |  |  |  |  |  |  |  | |  | |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |  | | Configuration update command | |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |  | | Configuration update complete | |
| 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |  | | Authentication request | |
| 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |  | | Authentication response | |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | | Authentication reject | |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |  | | Authentication failure | |
| 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |  | | Authentication result | |
| 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |  | | Identity request | |
| 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |  | | Identity response | |
| 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |  | | Security mode command | |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |  | | Security mode complete | |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |  | | Security mode reject | |
|  |  |  |  |  |  |  |  |  | |  | |
| 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |  | | 5GMM status | |
| 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |  | | Notification | |
| 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | | Notification response | |
| 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |  | | UL NAS transport | |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |  | | DL NAS transport | |
|  |  |  |  |  |  |  |  |  | |  | |

Table 9.7.2: Message types for 5GS session management

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bits | | | | | | | | |  | |  |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | | Messages | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | - | - | - | - | - | - |  | | 5GS session management messages | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |  | | PDU session establishment request | |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | | PDU session establishment accept | |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |  | | PDU session establishment reject | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |  | | PDU session authentication command | |
| 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |  | | PDU session authentication complete | |
| 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |  | | PDU session authentication result | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |  | | PDU session modification request | |
| 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |  | | PDU session modification reject | |
| 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |  | | PDU session modification command | |
| 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | | PDU session modification complete | |
| 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |  | | PDU session modification command reject | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |  | | PDU session release request | |
| 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |  | | PDU session release reject | |
| 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |  | | PDU session release command | |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |  | | PDU session release complete | |
|  |  |  |  |  |  |  |  |  | |  | |
| 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |  | | 5GSM status | |
|  |  |  |  |  |  |  |  |  | |  | |