**3GPP TSG-CT WG6 Meeting #112eC6-22xxxx**

**E-Meeting, 23th – 26th August 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.102** | **CR** | **0959** | **rev** | **1** | **Current version:** | **17.6.0** |  |
|  | | | | | | | | |
| *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 | **X** | ME | **X** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | 5G ProSe EFs update | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | OPPO | | | | | | | | | |
| ***Source to TSG:*** | CT6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | |  | ***Date:*** | | | 2022-6-27 |
|  |  | | | |  | |  | | |  |
| ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Based on 23.304, 24.555, the EFs for 5G ProSe should be updated to add the missing parameters and align with the figure and table numbers in 24.555.  No missing parameters added only internal document clarifications. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The EFs for 5G ProSe should be updated. More EFs details are to be updated instead of EFs themself. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The stage 2 requirements cannot be satisfied. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.4.11.16.4, 4.4.11.16.5, 4.4.11.16.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS/TR 24.555 CR 0013 | | |
| ***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 \* \* \* \*

##### 4.4.11.16.4 EF5G\_PROSE\_DC (5G ProSe configuration data for direct communication)

If service n°139 is "available" in the USIM Service Table and service n°2 is "available" in EF5G\_PROSE\_ST, this file shall be present. This EF contains 5G ProSe policy for direct communication. The format of the 5G ProSe policy for direct communication are specified in 3GPP TS 24.555 [115].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '4F03' | | Structure: Transparent | | | Optional | |
| SFI: '03' | | |  | | | |
| File size: X bytes bytes, (X ≥ 12) | | | Update activity: low | | | |
| Access Conditions:  READ PIN  UPDATE ADM  DEACTIVATE ADM  ACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| 1 to X | 5G ProSe configuration data for direct communication TLV objects | | | M | | X bytes |

The 5G ProSe configuration data for direct communication data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for direct communication Tag | 'A0' |
| Served by NG-RAN Tag | '80' |
| Not served by NG-RAN Tag | '81' |
| Privacy config Tag | '87' |
| 5G ProSe direct communication in NR-PC5 Tag | '88' |
| ProSe application to path preference mapping rules Tag | '89' |
| Validity timer Tag | '85' |
| ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules Tag | '91' |

The 5G ProSe configuration data for direct communication contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for direct communication Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer Tag | '85' | M | 1 |
| Length | 5 | M | Note 2 |
| Validity timer information | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | O | 1 |
| Length | X2 | O | Note 2 |
| Not served by NG-RAN information | -- | O | X2 |
| Privacy config Tag | '87' | O | 1 |
| Length | X3 | O | Note 2 |
| Privacy config information | -- | O | X3 |
| 5G ProSe direct communication in NR-PC5 Tag | '88' | O | 1 |
| Length | X4 | O | Note 2 |
| 5G ProSe direct communication in NR-PC5 information | -- | O | X4 |
| ProSe application to path preference mapping rules Tag | '89' | O | 1 |
| Length | X5 | O | Note 2 |
| ProSe application to path preference mapping rules information | -- | O | X5 |
| ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules Tag | '91' | O | 1 |
| Length | X6 | O | Note 2 |
| ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules information | -- | O | X6 |
| Note 1: This is the total size of the constructed TLV object.  Note 2: The length is coded according to ISO/IEC 8825-1 [35]. | | | |

- Validity timer Tag '85'

Contents:

The Validity timer information contains the timer for controlling the validity of 5G ProSe configuration data for direct communication.

Coding:

The Validity timer information is encoded as shown in figure 5.4.2.1 and table 5.4.2.1 of 3GPP TS 24.555 [115].

- Served by NG-RAN Tag '80'

Contents:

The Served by NG-RAN information contains 5G ProSe configuration parameters for direct communication when the UE is served by NG-RAN.

Coding:

The Served by NG-RAN information is encoded as shown in figures 5.4.2.2 to 5.4.2.4 and tables 5.4.2.2 to 5.4.2.4 of 3GPP TS 24.555 [115].

- Not served by NG-RAN Tag '81'

Contents:

The Not served by NG-RAN information contains 5G ProSe configuration parameters for direct communication when the UE is not served by NG-RAN.

Coding:

The Not served by NG-RAN information is encoded as shown in figures 5.4.2.5 to 5.4.2.10c and tables 5.4.2.5 to 5.4.2.10c of 3GPP TS 24.555 [115].

- Privacy config Tag '87'

Contents:

The Privacy config information contains configuration parameters for privacy configuration.

Coding:

The Privacy config information is encoded as shown in figures 5.4.2.11 to 5.4.2.15 and tables 5.4.2.11 to 5.4.2.15 of 3GPP TS 24.555 [115].

- 5G ProSe direct communication in NR-PC5 Tag '88'

Contents:

The 5G ProSe direct communication in NR-PC5 information contains configuration parameters for 5G ProSe direct communication in NR-PC5.

Coding:

The 5G ProSe direct communication in NR-PC5 information is encoded as shown in figures 5.4.2.16 to 5.4.2.38 and tables 5.4.2.16 to 5.4.2.38 of 3GPP TS 24.555 [115].

- ProSe application to path preference mapping rules Tag '89'

Contents:

The ProSe application to path preference mapping rules information contains a list of ProSe application to path preference mapping rules.

Coding:

The ProSe application to path preference mapping rules information is encoded as shown in figures 5.4.2.39 to 5.4.2.40 and tables 5.4.2.39 to 5.4.2.40 of 3GPP TS 24.555 [115].

- ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules Tag '91'

Contents:

The ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules information contains a list of ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules.

Coding:

The ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules information is encoded as shown in figures 5.4.2.41 to 5.4.2.42 and tables 5.4.2.41 to 5.4.2.42 of 3GPP TS 24.555 [115].

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

##### 4.4.11.16.5 EF5G\_PROSE\_U2NRU (5G ProSe configuration data for UE-to-network relay UE)

If service n°139 is "available" in the USIM Service Table and service n°3 is "available" in EF5G\_PROSE\_ST, this file shall be present. This EF contains 5G ProSe policy for UE-to-network relay UE. The format of the 5G ProSe policy for UE-to-network relay UE are specified in 3GPP TS 24.555 [115].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '4F04' | | Structure: Transparent | | | Optional | |
| SFI: '04' | | |  | | | |
| File size: X bytes bytes, (X ≥ 32) | | | Update activity: low | | | |
| Access Conditions:  READ PIN  UPDATE ADM  DEACTIVATE ADM  ACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| 1 to X | 5G ProSe configuration data for UE-to-network relay UE TLV objects | | | M | | X bytes |

The 5G ProSe configuration data for UE-to-network relay UE data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for UE-to-network relay UE Tag | 'A0' |
| Served by NG-RAN Tag | '80' |
| Not served by NG-RAN Tag | '81' |
| Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation Tag | '8A' |
| RSC info list Tag | '8B' |
| 5QI to PC5 QoS parameters mapping rules Tag | '8C' |
| ProSe identifier to ProSe application server address mapping rules Tag | '8D' |
| Validity timer Tag | '85' |
| User info ID for discovery Tag | '8E' |
| Privacy timer Tag | '92' |
| 5G PKMF addressing information Tag | '93' |

The 5G ProSe configuration data for UE-to-network relay UE contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for UE-to-network relay UE Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer Tag | '85' | M | 1 |
| Length | 5 | M | Note 2 |
| Validity timer information | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | M | 1 |
| Length | X2 | M | Note 2 |
| Not served by NG-RAN information | -- | M | X2 |
| Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation Tag | '8A' | M | 1 |
| Length | X3 | M | Note 2 |
| Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation information | -- | M | X3 |
| User info ID for discovery Tag | '8E' | M | 1 |
| Length | 6 | M | Note 2 |
| User info ID for discovery information | -- | M | 6 |
| RSC info list Tag | '8B' | M | 1 |
| Length | X4 | M | Note 2 |
| RSC info list information | -- | M | X4 |
| 5QI to PC5 QoS parameters mapping rules Tag | '8C' | M | 1 |
| Length | X5 | M | Note 2 |
| 5QI to PC5 QoS parameters mapping rules information | -- | M | X5 |
| ProSe identifier to ProSe application server address mapping rules Tag | '8D' | O | 1 |
| Length | X6 | O | Note 2 |
| ProSe identifier to ProSe application server address mapping rules information | -- | O | X6 |
| Privacy timer Tag | '92' | O | 1 |
| Length | X7 | O | Note 2 |
| Privacy timer information | -- | O | X7 |
| 5G PKMF addressing information Tag | '93' | O | 1 |
| Length | X8 | O | Note 2 |
| 5G PKMF addressing information information | -- | O | X8 |
| Note 1: This is the total size of the constructed TLV object.  Note 2: The length is coded according to ISO/IEC 8825-1 [35]. | | | |

- Validity timer Tag '85'

Contents:

The Validity timer information contains the timer for controlling the validity of 5G ProSe configuration data for UE-to-network relay UE.

Coding:

The Validity timer information is encoded as shown in figure 5.5.2.1 and table 5.5.2.1 of 3GPP TS 24.555 [115].

- Served by NG-RAN Tag '80'

Contents:

The Served by NG-RAN information contains 5G ProSe configuration parameters for UE-to-network relay UE when the UE is served by NG-RAN.

Coding:

The Served by NG-RAN information is encoded as shown in figures 5.5.2.2 to 5.5.2.4 and tables 5.5.2.2 to 5.5.2.4 of 3GPP TS 24.555 [115].

- Not served by NG-RAN Tag '81'

Contents:

The Not served by NG-RAN information contains 5G ProSe configuration parameters for UE-to-network relay UE when the UE is not served by NG-RAN.

Coding:

The Not served by NG-RAN information is encoded as shown in figures 5.5.2.5 to 5.5.2.11a and tables 5.5.2.5 to 5.5.2.11a of 3GPP TS 24.555 [115].

- Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation Tag '8A'

Contents:

The Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation information contains the default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation.

Coding:

The Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation information is encoded as shown in figure 5.5.2.11b and table 5.5.2.11b of 3GPP TS 24.555 [115].

- User info ID for discovery Tag '8E'

Contents:

The User info ID for discovery information contains the user info ID for 5G ProSe UE-to-network relay UE.

Coding:

The User info ID for discovery information is encoded as shown in figure 5.5.2.1 and table 5.5.2.1 of 3GPP TS 24.555 [115].

- RSC info list Tag '8B'

Contents:

The RSC info list information contains a list of RSCs related parameters.

Coding:

The RSC info list information is encoded as shown in figures 5.5.2.12 to 5.5.2.16 and tables 5.5.2.12 to 5.5.2.16 of 3GPP TS 24.555 [115].

- 5QI to PC5 QoS parameters mapping rules Tag '8C'

Contents:

The 5QI to PC5 QoS parameters mapping rules information contains a list of 5QI to PC5 QoS parameters mapping rules.

Coding:

The 5QI to PC5 QoS parameters mapping rules information is encoded as shown in figures 5.5.2.17 to 5.5.2.18 and tables 5.5.2.17 to 5.5.2.18 of 3GPP TS 24.555 [115].

- ProSe identifier to ProSe application server address mapping rules Tag '8D'

Contents:

The ProSe identifier to ProSe application server address mapping rules information contains a list of ProSe identifier to ProSe application server address mapping rules.

Coding:

The ProSe identifier to ProSe application server address mapping rules information is encoded as shown in figures 5.5.2.19 to 5.5.2.20 and tables 5.5.2.19 to 5.5.2.20 of 3GPP TS 24.555 [115].

- Privacy timer Tag '92'

Contents:

The Privacy timer information contains a binary encoded duration, in units of seconds, after which the UE shall change the source layer-2 ID self-assigned by the UE while performing transmission of 5G ProSe direct communication.

Coding:

The privacy timer information is encoded as shown in figures 5.5.2.1 and tables 5.5.2.1 of 3GPP TS 24.555 [115].

- 5G PKMF addressing information Tag '93'

Contents:

The 5G PKMF addressing information information contains a list of ProSe identifier to ProSe application server address mapping rules.

Coding:

The 5G PKMF addressing information information is encoded as shown in figures 5.5.2.21 to 5.5.2.23 and tables 5.5.2.21 of 3GPP TS 24.555 [115].

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

##### 4.4.11.16.6 EF5G\_PROSE\_RU (5G ProSe configuration data for remote UE)

If service n°139 is "available" in the USIM Service Table and service n°3 is "available" in EF5G\_PROSE\_ST, this file shall be present. This EF contains 5G ProSe policy for remote UE. The format of the 5G ProSe policy for remote UE are specified in 3GPP TS 24.555 [115].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '4F05' | | Structure: Transparent | | | Optional | |
| SFI: '05' | | |  | | | |
| File size: X bytes bytes, (X ≥ 29) | | | Update activity: low | | | |
| Access Conditions:  READ PIN  UPDATE ADM  DEACTIVATE ADM  ACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| 1 to X | 5G ProSe configuration data for remote UE TLV objects | | | M | | X bytes |

The 5G ProSe configuration data for remote UE data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for remote UE Tag | 'A0' |
| Served by NG-RAN Tag | '80' |
| Not served by NG-RAN Tag | '81' |
| Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information Tag | '8F' |
| RSC info list Tag | '8B' |
| N3IWF selection information for 5G ProSe layer-3 remote UE Tag | '90' |
| Validity timer Tag | '85' |
| User info ID for discovery Tag | '8E' |
| Privacy timer Tag | '92' |
| 5G PKMF addressing information Tag | '93' |

The 5G ProSe configuration data for remote UE contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for remote UE Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer Tag | '85' | M | 1 |
| Length | 5 | M | Note 2 |
| Validity timer information | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | M | 1 |
| Length | X2 | M | Note 2 |
| Not served by NG-RAN information | -- | M | X2 |
| Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information Tag | '8F' | M | 1 |
| Length | X3 | M | Note 2 |
| Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information information | -- | M | X3 |
| User info ID for discovery Tag | '8E' | M | 1 |
| Length | 6 | M | Note 2 |
| User info ID for discovery information | -- | M | 6 |
| RSC info list Tag | '8B' | M | 1 |
| Length | X4 | M | Note 2 |
| RSC info list information | -- | M | X4 |
| N3IWF selection information for 5G ProSe layer-3 remote UE Tag | '90' | O | 1 |
| Length | X5 | O | Note 2 |
| N3IWF selection information for 5G ProSe layer-3 remote UE information | -- | O | X5 |
| Privacy timer Tag | '92' | O | 1 |
| Length | 2 | O | Note 2 |
| Privacy timer information | -- | O | 2 |
| 5G PKMF addressing information Tag | '93' | O | 1 |
| Length | X6 | O | Note 2 |
| 5G PKMF addressing information information | -- | O | X6 |
| Note 1: This is the total size of the constructed TLV object.  Note 2: The length is coded according to ISO/IEC 8825-1 [35]. | | | |

- Validity timer Tag '85'

Contents:

The Validity timer information contains the timer for controlling the validity of 5G ProSe configuration data for remote UE.

Coding:

The Validity timer information is encoded as shown in figure 5.6.2.1 and table 5.6.2.1 of 3GPP TS 24.555 [115].

- Served by NG-RAN Tag '80'

Contents:

The Served by NG-RAN information contains 5G ProSe configuration parameters for remote UE when the UE is served by NG-RAN.

Coding:

The Served by NG-RAN information is encoded as shown in figures 5.6.2.2 to 5.6.2.4 and tables 5.6.2.2 to 5.6.2.4 of 3GPP TS 24.555 [115].

- Not served by NG-RAN Tag '81'

Contents:

The Not served by NG-RAN information contains 5G ProSe configuration parameters for remote UE when the UE is not served by NG-RAN.

Coding:

The Not served by NG-RAN information is encoded as shown in figures 5.6.2.5 to 5.6.2.11a and tables 5.6.2.5 to 5.6.2.11a of 3GPP TS 24.555 [115].

- Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information Tag '8F'

Contents:

The Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information information contains the default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information.

Coding:

The Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information information is encoded as shown in figures 5.6.2.11b and tables 5.6.2.11b of 3GPP TS 24.555 [115].

- User info ID for discovery Tag '8E'

Contents:

The User info ID for discovery information contains the user info ID for 5G ProSe remote UE.

Coding:

The User info ID for discovery information is encoded as shown in figure 5.6.2.1 and table 5.6.2.1 of 3GPP TS 24.555 [115].

- RSC info list Tag '8B'

Contents:

The RSC info list information contains a list of RSCs related parameters.

Coding:

The RSC info list information is encoded as shown in figures 5.6.2.12 to 5.6.2.16a and tables 5.6.2.12 to 5.6.2.16a of 3GPP TS 24.555 [115].

- N3IWF selection information for 5G ProSe layer-3 remote UE Tag '90'

Contents:

The N3IWF selection information for 5G ProSe layer-3 remote UE information contains two parts:

1) N3IWF identifier configuration (either FQDN or IP address) for 5G ProSe layer-3 remote UE; and

2) 5G ProSe layer-3 UE-to-network relay access node selection information.

Coding:

The N3IWF selection information for 5G ProSe layer-3 remote UE information is encoded as shown in figures 5.6.2.17 to 5.6.2.19 and tables 5.6.2.17 to 5.6.2.19 of 3GPP TS 24.555 [115].

- Privacy timer Tag '92'

Contents:

The Privacy timer information contains a binary encoded duration, in units of seconds, after which the UE shall change the source layer-2 ID self-assigned by the UE while performing transmission of 5G ProSe direct communication.

Coding:

The privacy timer information is encoded as shown in figures 5.6.2.1 and tables 5.6.2.1 of 3GPP TS 24.555 [115].

- 5G PKMF addressing information Tag '93'

Contents:

The 5G PKMF addressing information information contains a list of ProSe identifier to ProSe application server address mapping rules.

Coding:

The 5G PKMF addressing information information is encoded as shown in figures 5.5.2.21 to 5.5.2.23 and tables 5.5.2.21 of 3GPP TS 24.555 [115].

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