**3GPP TSG-CT WG6 Meeting #111eC6-22xxxx**

**E-Meeting, 17th – 20th May 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **31.102** | **CR** | **0949** | **rev** | **1** | **Current version:** | **17.5.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | 5G ProSe EFs update |
|  |  |
| ***Source to WG:*** | OPPO |
| ***Source to TSG:*** | CT6 |
|  |  |
| ***Work item code:*** | 5G\_ProSe |  | ***Date:*** | 2022-4-19 |
|  |  |  |  |  |
| ***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:*** | Based on stage 2 TS 23.304 and TS 33.503, the configuration in UICC were updated.Therefore, the corresponding update to UICC EFs for 5G ProSe is needed.Also TS 24.554 and 24.555 have done the update in CT1#135e meeting. |
|  |  |
| ***Summary of change:*** | Add the upated configuration parameters to EFs for 5G ProSe. |
|  |  |
| ***Consequences if not approved:*** | The stage 2 requirements cannot be satisfied. |
|  |  |
| ***Clauses affected:*** | 4.4.11.16.3, 4.4.11.16.4, 4.4.11.16.5, 4.4.11.16.6, Annex D |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS/TR 24.555 CR 0001, 0003  |
| ***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 \* \* \* \*

##### 4.4.11.16.3 EF5G\_PROSE\_DD (5G ProSe configuration data for direct discovery)

If service n°139 is "available" in the USIM Service Table and service n°1 is "available" in EF5G\_PROSE\_ST, this file shall be present. This EF contains 5G ProSe policy for direct discovery. The format of the 5G ProSe policy for direct discovery are specified in 3GPP TS 24.555 [115].

|  |  |  |
| --- | --- | --- |
| Identifier: '4F02' | Structure: Transparent | Optional |
| SFI: '02' |  |
| File size: X bytes, (X ≥ 26) | 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 discovery TLV objects | M | X bytes |

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

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for direct discovery Tag | 'A0' |
|  Served by NG-RAN Tag | '80' |
|  Not served by NG-RAN Tag | '81' |
|  ProSe identifiers Tag | '82' |
|  ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag | '83' |
|  Group member discovery parameters Tag | '84' |
|  Validity timer Tag | '85' |
|  ProSe direct discovery UE ID Tag | '86' |

The 5G ProSe configuration data for direct discovery contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for direct discovery 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 |
| ProSe direct discovery UE ID Tag | '86' | M | 1 |
| Length | 3 | M | Note 2 |
| ProSe direct discovery UE ID information | -- | M | 3 |
| ProSe identifiers Tag | '82' | M | 1 |
| Length | X3 | M | Note 2 |
| ProSe identifiers information | -- | M | X3 |
| ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag | '83' | M | 1 |
| Length | X4 | M | Note 2 |
| ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules information | -- | M | X4 |
| Group member discovery parameters Tag | '84' | O | 1 |
| Length | X5 | O | Note 2 |
| Group member discovery parameters information | -- | O | X5 |
| 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 discovery.

Coding:

The Validity timer information is encoded as shown in figure 5.3.2.1 and table 5.3.2.1 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 discovery when the UE is served by NG-RAN.

Coding:

The Served by NG-RAN information is encoded as shown in figures 5.3.2.2 to 5.3.2.5 and tables 5.3.2.2 to 5.3.2.5 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 discovery when the UE is not served by NG-RAN.

Coding:

The Not served by NG-RAN information is encoded as shown in figures 5.3.2.6 to 5.3.2.11a and tables 5.3.2.6 to 5.3.2.11a of 3GPP TS 24.555 [115].

- ProSe direct discovery UE ID

Contents:

The ProSe direct discovery UE ID information contains ProSe direct discovery UE ID for restricted direct discovery.

Coding:

The ProSe direct discovery UE ID information is encoded as shown in figure 5.3.2.1 and table 5.3.2.1 of 3GPP TS 24.555 [115].

- ProSe identifiers Tag '82'

Contents:

The ProSe identifiers information contains ProSe application identifiers to be used for direct discovery.

Coding:

The ProSe identifiers information is encoded as shown in figure 5.3.2.14 and table 5.3.2.14 of 3GPP TS 24.555 [115].

- ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag '83'

Contents:

The ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules information contains a list of ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules.

Coding:

The ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules information is encoded as shown in figures 5.3.2.15 to 5.3.2.16 and tables 5.3.2.15 to 5.3.2.16 of 3GPP TS 24.555 [115].

- Group member discovery parameters Tag '84'

Contents:

The Group member discovery parameters information contains group member discovery parameters.

Coding:

The Group member discovery parameters information is encoded as shown in figures 5.3.2.12 to 5.3.2.13 and tables 5.3.2.12 to 5.3.2.13 of 3GPP TS 24.555 [115].

\* \* \* Next 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. .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 5.4.2.15 to 5.4.2.38 and tables 5.4.2.15 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 | '8F' | 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 '86'

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 5.5.2.11 and tables 5.5.2.5 to 5.5.2.11 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 5.5.2.11a and table 5.5.2.11a 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 |
| 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 5.6.2.11 and tables 5.6.2.5 to 5.6.2.11 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 5.6.2.11a and tables 5.6.2.11a 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].

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

Annex D (informative):
Tags defined in 31.102

|  |  |  |
| --- | --- | --- |
| Tag | Name of Data Element | Usage |
| '43' | Full name for network IEI | PLMN Network Name (EFPNN) |
| '45' | Short name for network IEI | PLMN Network Name (EFPNN) |
| '53' | MBMS Data Object | AUTHENTICATE command parameter, in MBMS security context |
| '53' | MBMS operation response Data ObjectThe following tags are encapsulated within '53''DB' successful MBMS operation tag | Response to AUTHENTICATE command, in MBMS security context |
| '73' | Key Derivation Data ObjectThe following tags are encapsulated within '73''80' Local Key Establishment Control tag'81' Counter limit tag'82' Request MAC tag'83' NAF\_ID tag'84' Terminal\_ID tag'85' Terminal\_appli\_ID\_tag'86' UICC\_appli\_ID tag'87' RANDx tag'A0' Key Identifier tag | AUTHENTICATE command parameter, in Local Key Establishment security context |
| '73' | Key Derivation Operation Response ObjectThe following tags are encapsulated within '73''80' Local Key Establishment Control tag'82' Request MAC tag | Response to AUTHENTICATE command, in Local Key Establishment security context |
| '73' | Key Availability Check Data ObjectThe following tags are encapsulated within '73''80' Local Key Establishment Control tag'A0' Key Identifier tag | AUTHENTICATE command parameter in Local Key Establishment security context |
| '80' | NAF\_ID tag | GBA NAF List (EFGBANL) |
| '80' | NAF Key Centre address tag | NAF Key Centre Address (EFNAFKCA) |
| '80' | Icon Tag (Icon link is URI) | Service Provider Name Icon (EFSPNI) |
| '80' | Reauthentication Identity tag | WLAN Reauthentication Identity (EFWRI) |
| '80' | NAS signalling priority Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '80' | MMS Implementation tag | MMS User Preference (EFMMSUP)Multimedia Messages List (EFMML) |
| '80' | IARI TLV TAG | UICC IARI (EFUICCIARI) |
| '80' | Graphics CSG Type tag (Icon link is URI) | CSG Type (EFCSGT) |
| '80' | HNB Name tag | Home NodeB Name (EFHNBN) |
| '80' | PLMN Additional information tag | PLMN Network Name (EFPNN) |
| '80' | ICE Free Format Label tag | In Case of Emergency – Free Format (EFICE-FF) |
| '80' | HPLMN ProSe Function tag | Address of the HPLMN ProSe Function (EFPROSEFUNC) |
| '80' | ProSe Group Counter | Counter for ProSe group (EFPROSE\_GC) |
| '80' | ProSe ServerAddress tag | Server address for usage information reports (EFPROSE\_UIRC) |
| '80' | Home ePDG Identifier TLV | Home ePDG Identifier (EFePDGId) |
| '80' | ePDG Selection Information TLV | ePDG Selection Information (EFePDGSelection) |
| '80' | Emergency ePDG Identifier TLV | Emergency ePDG Identifier (EFePDGIdEm) |
| '80' | ePDG Selection Information for Emergency Services TLV | ePDG Selection Information for Emergency Services (EFePDGSelectionEm) |
| '80' | XCAP\_conn\_params\_policy TLV TAG | EFXCAPConfigData |
| '80' | Serving network name TLV tag | EFTN3GPPSNN |
| '80' | IMS configuration data encoding | EFIMSConfigData |
| '81' | IMS configuration data | EFIMSConfigData |
| '80' | KAUSF tag | EF5GAUTHKEYS |
| '80' | Protection Scheme Identifier List data object tag | Protection Scheme Identifier List (EFSUCI\_Calc\_Info) |
| '80' | Network Specific Identifier TLV data object tag | SUPI as Network Access Identifier (EFSUPI\_NAI) |
| '80' | SOR-CMCI data object tag | EFSOR-CMCI |
| '81' | Global Line Identifier Tag TLV data object tag | SUPI as Network Access Identifier (EFSUPI\_NAI) |
| '82' | Global Cable Identifier TLV data object tag | SUPI as Network Access Identifier (EFSUPI\_NAI) |
| '80' | MuD\_and\_MiD\_configuration\_data encoding | EFMuDMiDConfigData |
| '81' | MuD\_and\_MiD\_configuration\_data | EFMuDMiDConfigData |
| '81' | B-TID tag | GBA NAF List (EFGBANL) |
| '81' | Icon Tag (Icon link is record number) | Service Provider Name Icon (EFSPNI) |
| '81' | Master key tag | WLAN Reauthentication Identity (EFWRI) |
| '81' | Time Stamp counter tag | MBMS User Key (EFMUK) |
| '81' | MMS User preference profile name tag | MMS User Preference (EFMMSUP) |
| '81' | Login Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '81' | NMO I Behaviour Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '81' | Graphics CSG Type tag (Icon link is record number) | CSG Type (EFCSGT) |
| '81' | ICE Free Format Content tag | In Case of Emergency – Free Format (EFICE-FF) |
| '81' | MM File Identifier / SFI tag | Multimedia Messages List (EFMML) |
| '81' | ProSe CollectionPeriod tag | Collection Period Parameter (EFPROSE\_UIRC) |
| '82' | Counter tag | WLAN Reauthentication Identity (EFWRI) |
| '82' | MMS User Preference information tag | MMS User Preference (EFMMSUP) |
| '82' | Password Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '82' | Attach with IMSI Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '82' | MM Content Data Object Tag | Multimedia Messages List (EFMML) |
| '82' | ProSe ReportingWindow tag | Reporting Window Parameter (EFPROSE\_UIRC) |
| '82' | KSEAF for non-3GPP access tag | EF5GAUTHKEYS |
| '80' | Home Network Public Key Identifier tag | Home Network Public Key Identifier (EFSUCI\_Calc\_Info) |
| '81' | KSEAF for 3GPP access tag | EF5GAUTHKEYS |
| '83' | Data Destination Address Range Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '83' | Minimum Periodic Search Timer Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '83' | MM Size tag | Multimedia Messages List (EFMML) |
| '83' | SOR counter tag | EF5GAUTHKEYS |
| '84' | UE parameter update counter tag | EF5GAUTHKEYS |
| '83' | ProSe ReportGroupParameters tag | Reporting Parameter for Goups (EFPROSE\_UIRC) |
| '81' | Home Network Public Key tag | Home Network Public Key(EFSUCI\_Calc\_Info) |
| '84' | Bearer Description Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '84' | Extended access barring Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '84' | MM Status tag | Multimedia Messages List (EFMML) |
| '84' | ProSe ReportTimeStampsFirstTransmissionAndReception tag | Reporting Parameter (EFPROSE\_UIRC) |
| '85' | Timer T3245 Behaviour Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '85' | MM Alpha Identifier tag | Multimedia Messages List (EFMML) |
| '85' | ProSe ReportDataTransmitted tag | Reporting Parameter for transmitted Data (EFPROSE\_UIRC) |
| '86' | Override NAS signalling low priority Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '86' | ProSe ReportDataReceived tag | Reporting Parameter for received Data (EFPROSE\_UIRC) |
| '86' | PLMN-ID tag | PLMN-ID (EF5GS 3GPP Access NAS Security Context)  |
| '87' | Override Extended access barring Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '87' | ProSe ReportTimeStampsOutOfCoverage tag | Reporting Parameter (EFPROSE\_UIRC) |
| '88' | Fast First Higher Priority PLMN Search Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '88' | ProSe ReportLocationInCoverage tag | Reporting Parameter (EFPROSE\_UIRC) |
| '89' | Text CSG Type tag | CSG Type (EFCSGT) |
| '89' | E-UTRA Disabling Allowed for EMM cause #15 Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '89' | ProSe ReportRadioParameters tag | Reporting Parameter for Radio Parameters (EFPROSE\_UIRC) |
| '8A' | SM RetryWaitTime Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8B' | SM RetryAtRATChange Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8C' | Default\_DCN\_ID Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8D' | Exception Data Reporting Allowed Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8E' | RLOSPreferredPLMNList Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8F' | RLOSAllowedMCCList Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '90' | No E-UTRA Disabling In 5GS Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| 'A0' | MUK ID tagThe following tags are encapsulated within 'A0''80' MUk IDr tag'82' MUk IDi tag | MBMS User Key (EFMUK) |
| 'A0' | EPS NAS security Context tagThe following tags are encapsulated within 'A0''80' Key set identifier KSIASME Tag'81' ASME key (KASME) Tag'82' Uplink NAS count Tag'83' Downlink NAS count Tag'84' Identifiers of selected NAS integrity and encryption algorithms Tag | EPS NAS Security Context (EFEPSPSC) |
| 'A0' | CSG List TLV object tagThe following tags are encapsulated within 'A0''80' PLMN tag'81' CSG Information tag | Allowed CSG List (EFACSGL) |
| 'A0' | GSM cell informationThe following tags are encapsulated within 'A0': '80' GSM Camping Frequency Information data object '81' GSM Neighbour Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A0' | Operator CSG List TLV object TagThe following tags are encapsulated within 'A0' '80' PLMN Tag '81' CSG Information Tag '82' CSG Display indicator tag | Operator CSG Lists (EFOCSGL) |
| 'A0' | ProSe Discovery monitoring parametersThe following tags are encapsulated within 'A0': '80' PLMN tag '81' RFU '82' Model tag | ProSe Monitoring Parameters (EFPROSE\_MON) |
| 'A0' | ProSe Discovery announcing parametersThe following tags are encapsulated within 'A0': '80' PLMN tag '81' Range tag '82' Model tag | ProSe Announcing Parameters (EFPROSE\_ANN) |
| 'A0' | ProSe Policy parametersThe following tags are encapsulated within 'A0': '80' ProSe Layer-2 Group ID tag '81' ProSe UE ID tag '82' ProSe Group IP multicast address tag '83' Address type tag '84' Ipv4 address as source tag '85' Group related security tag '86' Application Layer Group ID tag | ProSe Policy Parameters (EFPROSE\_POLICY) |
| 'A0' | ProSe PLMN Parameters tagThe following tags are encapsulated within 'A0''80' PLMN tag'81' Direct communication authorisation tag | ProSe PLMN Parameters (EFPROSE\_PRMN) |
| 'A0' | ProSe Direct Communication parameters tagThe following tags are encapsulated within 'A0' '80' Geographical Area – Polygon tag '81' Radio parameters tag | ProSe Direct Communication Radio Parameters (EF PROSE\_RADIO\_COM) |
| 'A0' | ProSe Radio parameters tagThe following tags are encapsulated within 'A0' '80' Geographical Area – Polygon tag '81' Radio parameters tag | ProSe Direct Discovery Monitoring Radio Parameters (EFPROSE\_RADIO\_MON) |
| 'A0' | ProSe Radio parameters tagThe following tags are encapsulated within 'A0' '80' Geographical Area – Polygon tag '81' Radio parameters tag | ProSe Direct Discovery Announcing Radio Parameters (EFPROSE\_RADIO\_ANN) |
| 'A0' | ACDC OS tag | ACDC List (EFACDC\_LIST) |
| 'A0' | ACDC App Id tagThe following tags are encapsulated within 'A0' '80' ACDC category tag '81' OS App Id tag | ACDC OS Configuration (EFACDC\_OS\_CONFIG) |
| 'A0' | Group member discovery parameters tagThe following tags are encapsulated within 'A0' '80' User Info ID tag '81' Discovery Group ID tag '82' Application Layer Group ID tag | ProSe Group Member Discovery Parameters (EFPROSE\_GM\_DISCOVERY) |
| 'A0' | ProSe Relay Parameters tagThe following tags are encapsulated within 'A0' '80' PLMN tag '81' Relay type tag | ProSe Relay Parameters (EFPROSE\_RELAY) |
| 'A0' | Remote UE parameters tagThe following tags are encapsulated within 'A0' '80' Relay Service Code tag '81' User Info ID of Relay tag '82' IP Versions tag '83' Security content tag | ProSe Relay Discovery Parameters (EFPROSE\_RELAY\_DISCOVERY) |
| 'A0' | TMGI List Tag | TV Configuration (EFTVCONFIG) |
| 'A0' | USD Tag | TV User Service Description (EFTVUSD) |
| 'A0' | XCAP\_conn\_params\_policy part tagThe following tags are encapsulated within 'A0''81' AccessForXCAPTag'82' Number of XCAP connection parameters policy part TLV's Tag'A1' XCAP connection parameters policy part tag | EFXCAPConfigData |
| 'A0' | EARFCN List tagThe following tags are encapsulated within 'A0' '80' EARFCN tag '81' Geographical Area – Polygon tag | EARFCN list for MTC/NB-IOT UEs (EFEARFCNList) |
| 'A0' | 5GS 3GPP access NAS security Context tag or 5GS non-3GPP access NAS security Context tagThe following tags are encapsulated within 'A0''80' ngKSITag'81' KAMF Tag'82' Uplink NAS count Tag'83' Downlink NAS count Tag'84' Identifiers of selected NAS integrity and encryption algorithms Tag'85' Identifiers of selected EPS NAS integrity and encryption algorithms for use after mobility to EPS Tag | 5GS 3GPP Access NAS Security Context (EF5GS3GPPSNSC) or5GS non-3GPP Access NAS Security Context (EF5GSN3GPPSNSC) |
| 'A0' | Protection Scheme Identifier List data object tag | Protection Scheme Identifier List (EFSUCI\_Calc\_Info) |
| 'A0' | V2X data policy over PC5 data object tagThe following tags are encapsulated within 'A0' '80' Served by E-UTRA or served by NR Tag '81' Not Served by E-UTRA or not served by NR Tag '82' V2X service identifier to Tx profiles mapping rules Tag '83' Privacy config Tag '84' V2X communication over PC5 in E-UTRA Tag '85' V2X communication over PC5 in NR Tag | V2X data policy over PC5 (EFV2XP\_PC5) |
| 'A0' | V2X data policy over Uu\_data object tagThe following tags are encapsulated within 'A0' '80' V2X service identifier to PDU session parameters mapping rules Tag '81' PLMN infos Tag | V2X data policy over PC5 (EFV2XP\_Uu) |
| 'A0' | 5G ProSe configuration data for direct discovery TagThe following tags are encapsulated within 'A0' '80' Served by NG-RAN Tag '81' Not served by NG-RAN Tag '82' ProSe identifiers Tag '83' ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag '84' Group member discovery parameters Tag '85' Validity timer Tag '86' ProSe direct discovery UE ID Tag | 5G ProSe configuration data for direct discovery (EF5G\_PROSE\_DD) |
| 'A0' | 5G ProSe configuration data for direct communication TagThe following tags are encapsulated within 'A0' '80' Served by NG-RAN Tag '81' Not served by NG-RAN Tag '87' Privacy config Tag '88' 5G ProSe direct communication in NR-PC5 Tag '89' ProSe application to path preference mapping rules Tag '85' Validity timer Tag '91'….ProSe identifiers to NR Tx profile for broadcast and groupcast mapping rules Tag | 5G ProSe configuration data for direct communication (EF5G\_PROSE\_DC) |
| 'A0' | 5G ProSe configuration data for UE-to-network relay UE TagThe following tags are encapsulated within 'A0' '80' Served by NG-RAN Tag '81' Not served by NG-RAN Tag '8A' Default destination layer-2 IDs for sending the discovery signalling for announcement and additional information and for receiving the discovery signalling for solicitation Tag '8B' RSC info list Tag '8C' 5QI to PC5 QoS parameters mapping rules Tag '8D' ProSe identifier to ProSe application server address mapping rules Tag '85' Validity timer Tag '8E' User info ID for discovery Tag '92' Privacy timer Tag '93' 5G PKMF addressing information Tag | 5G ProSe configuration data for UE-to-network relay UE (EF5G\_PROSE\_U2NRU) |
| 'A0' | 5G ProSe configuration data for remote UE TagThe following tags are encapsulated within 'A0' '80' Served by NG-RAN Tag '81' Not served by NG-RAN Tag '8F' Default destination layer-2 IDs for sending the discovery signalling for solicitation and for receiving the discovery signalling for announcement and additional information Tag '8B' RSC info list Tag '90' N3IWF selection information for 5G ProSe layer-3 remote UE Tag '85' Validity timer Tag '8E' User info ID for discovery Tag '92' Privacy timer Tag '93' 5G PKMF addressing information Tag | 5G ProSe configuration data for remote UE (EF5G\_PROSE\_RU) |
|  |  |  |
| 'A1' | XCAP connection parameters policy part tagThe following tags are encapsulated within 'A0''81' AccessTag'82' Application nameTag'83' Provider ID Tag'84' URI Tag'85' XCAP Aithentication User Name Tag'86' XCAP Authentication password Tag'87'…XCAP Authentication type Tag'88'…Address type Tag'89'…Address Tag'8A'…PDP Authentication type Tag'8B'…PDP Authentication Name Tag | EFXCAPConfigData |
| 'A1' | FDD cell informationThe following tags are encapsulated within 'A1': '80' FDD Intra Frequency Information data object '81' FDD Inter Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A1' | Relay parameters tagThe following tags are encapsulated within 'A0' '80' Relay Service Code tag '81' PDN type tag '82' APN tag '83' ProSe Relay UE ID tag '84' Security content tag | ProSe Relay Discovery Parameters (EFPROSE\_RELAY\_DISCOVERY) |
| 'A1' | EARFCN List Tag | TV Configuration (EFTVCONFIG) |
| 'A1' | SUCI TLV data object tag | Response to GET IDENTITY |
| 'A1' | Home Network Public Key List data objectThe following tags are encapsulated under 'A1''80' Home Network Public Key Identifier tag'81' Home Network Public Key tag | Home Network Public Key List(EFSUCI\_Calc\_Info) |
| 'A2' | TDD frequency informationThe following tags are encapsulated within 'A2': '80' TDD Intra Frequency Information data object '81' TDD Inter Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A3' | Service provider display informationThe following tags are encapsulated within 'A3': '80' Service provider PLMN list  | Service Provider Display Information (EFSPDI) |
| 'A8' | Indicator for type 1 EFs (amount of records equal to master EF)The following tags are encapsulated within 'A8': 'C0' EFADN data object 'C1' EFIAP data object 'C3' EFSNE data object 'C4' EFANR data object 'C5' EFPBC data object 'C6' EFGRP data object 'C9' EFUID data object 'CA' EFEMAIL data object 'CC' EFPURI data object | Phone Book Reference File (EFPBR) |
| 'A9' | Indicator for type 2 EFs (EFs linked via the index administration file)The following tags are encapsulated within 'A9': 'C3' EFSNE data object 'C4' EFANR data object 'CA' EFEMAIL data object 'CC' EFPURI data object | Phone Book Reference File (EFPBR) |
| 'AA' | Indicator for type 3 EFs (EFs addressed inside an object using a record identifier as a pointer)The following tags are encapsulated within 'AA': 'C2' EFEXT1 data object 'C7' EFAAS data object 'C8' EFGAS data object 'CB' EFCCP1 data object | Phone Book Reference File (EFPBR) |
| 'AB' | MMS Connectivity Parameters:The following are encapsulated under 'AB': '80' MMS Implementation Tag '81' MMS Relay/Server Tag '82' Interface to core network and bearer Tag'83' Gateway Tag'84' Reserved for 3GPP2: MMS Authentication Mechanism Tag'85' Reserved for 3GPP2: MMS Authentication User Name Tag | MMS Connectivity Parameters (EFMMSICP / EFMMSUCP) |
| 'DB' | Successful 3G authentication | Response to AUTHENTICATE |
| 'DB' | Successful VGCS/VBS operation authentication tag | Response to AUTHENTICATE |
| 'DB' | Successful GBA operation tag | Response to AUTHENTICATE |
| 'DC' | Synchronisation failure | Response to AUTHENTICATE |
| 'DD' | Access Point Name | APN Control List (EFACL) |
| 'DD' | GBA Security Context Bootstrapping Mode tag | AUTHENTICATE command parameter, in GBA security context |
| 'DE' | GBA Security Context NAF Derivation Mode tag | Response to AUTHENTICATE |

NOTE: the value 'FF' is an invalid tag value. For ASN.1 tag assignment rules see ISO/IEC 8825-1 [35]

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