**3GPP TSG-CT WG1 Meeting #141eC1-23xxxx**

**Online 17– 21 April 2023**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction for the pre-configuration of the service announcement information | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | UEConfig5MBS | | | | |  | ***Date:*** | | | 2023-04-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The current description of UE pre-configuration for broadcast/multicast services refers to spec TS 26.346 that was used for MBMS. But actually referring to TS 26.346 is not correct, since SA4 group has established another specification -which is TS 26.517- that defines the Service Announcement used for MBS services on 5GS.  See the following from TS 26.517: *5 MBS User Service Announcement**5.0 Overview* *MBS User Service Announcement is needed in order to advertise MBS User Services in advance of, and potentially during, the MBS User Service Sessions described. MBS User Service Announcement (as defined in clauses 4.5.7 and 4.5.8 of TS 26.502 [3]) is provided by means of an MBS User Service Description, the syntax of which is defined in this clause.*  Also see the syntax and examples for Service Announcement given in Annex A and Annex B of TS 26.517 for more information. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Referring to the correct spec TS 26.517 and doing needed corrections.  Stating in a NOTE that, TS 26.346 specifies the session description and parameters based on SDP, to ensure that correct implementation is developed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Wrong configuration for Service Announcement parameters remain in the spec due to referring to wrong specifications. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, 4, 6.11, 6.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.003: "Numbering, addressing and identification".

[3] 3GPP TS 23.247: "Architectural enhancements for 5G multicast-broadcast services; Stage 2".

[4] 3GPP TS 26.346: "Multimedia Broadcast/Multicast Service (MBMS); Protocols and Codecs".

[5] 3GPP TS 38.101-1: "NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone".

[6] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception; Part 2: Range 1 Standalone".

[7] IETF RFC 3629: "UTF-8, a transformation format of ISO 10646".

[8] OMA-ERELD-DM-V1\_2: "Enabler Release Definition for OMA Device Management".

[9] "Unicode 6.3.0, Unicode Standard Annex #15; Unicode Normalization Forms", September 2013. <http://www.unicode.org>.

[refxx] 3GPP TS 26.517: "5G Multicast-Broadcast User Services; Protocols and Formats".

\*\*\*\*\* Next change \*\*\*\*\*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

DNN Data Network Name

MBS Multicast/Broadcast Services

S-NSSAI Single Network Slice Selection Assistance Information

TMGI Temporary Mobile Group Identity

USD User Service Description

SDP Session Description Protocol

\*\*\*\*\* Next change \*\*\*\*\*

# 4 General description

A UE can support multicast and broadcast service (MBS) that is a point-to-multipoint service in which data is transmitted from a single source entity to multiple recipients either to all users in a broadcast service area (MBS broadcast communication), or to users in a multicast group (MBS multicast communication) as defined in 3GPP TS 23.247 [3]. The UE may support pre-configuration of information for services using MBS.

If the UE is pre-configured with information related to services using MBS, the UE can discover and receive data for services by using the provisioned configuration.

The UE pre-configuration contains a list of PLMNs in which for each PLMN, the following information is configured:

a) PLMN ID of the PLMN for which the configuration applies;

b) RAN information based on NR-ARFCN on which the broadcast communication service is available;

c) list of TMGI, on which the broadcast communication service is available, each associated with user service description (USD) information (see 3GPP TS 26.517 [refxx]) for the MBS broadcast service. If TMGI and USD information for the MBS user service is configured for the PLMN selected for broadcast communication service, the UE uses the information configured therein to acquire the broadcast communication service;

d) list of TMGI, on which the service announcement for broadcast communication service is available along with the associated USD information (see 3GPP TS 26.517 [refxx]) for the MBS user service announcement service. If TMGI and USD information for MBS user service announcement is configured for a PLMN selected for broadcast communication service, the UE uses the information configured therein to acquire the service announcement for broadcast communication service; and

e) PDU session information based on DNN and S-NSSAI pair associated with an MBS session.

\*\*\*\*\* Next change \*\*\*\*\*

## 6.11 *<X>*/PLMNList/*<X>*/TMGIConfiguration/TMGIListForSA/*<X>*/USD

The USD leaf provides MBS service announcement information for MBS service announcement service for broadcast communication service.

- Occurrence: ZeroOrOne

- Format: chr

- Access Types: Get, Replace

- Values: <USD>

The format of the USD is defined in 3GPP TS 26.517 [refxx].

NOTE: 3GPP TS 26.346 [4] specifies the session description and parameters based on SDP.

\*\*\*\*\* Next change \*\*\*\*\*

## 6.15 *<X>*/PLMNList/*<X>*/TMGIConfiguration/TMGIListForService/*<X>*/USD

The USD leaf provides the MBS user service announcement information for the MBS service corresponding to the broadcast communication service.

- Occurrence: ZeroOrOne

- Format: chr

- Access Types: Get, Replace

- Values: <USD>

The format of the USD is defined in 3GPP TS 26.517 [refxx].

NOTE: 3GPP TS 26.346 [4] specifies the session description and parameters based on SDP.

\*\*\*\*\* End of changes \*\*\*\*\*