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

**Online 17– 21 April 2023**

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

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| ***Title:*** | Description for the UE pre-configuration for Multicast MBS services | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | UEConfig5MBS | | | | |  | ***Date:*** | | | 2023-04-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | Stage-2 spec TS 23.247 states that:  *NOTE 3: The MBS Service related information, e.g. default PLMN ID, DNN and S-NSSAI can be pre-configured in the UE.*  Which indicates that, the information needed by the UE to receive Multicast services can be pre-configured in the UE. | | | | | | | | |
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| ***Summary of change:*** | | 1 -Updating the description of possible UE pre-configuration to include the Multicast services.  2- Removing the statement “selected for broadcast communication service” since the pre-configuration can exist for a list of PLMNs and not only for the single selected PLMN. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE pre-configuration for multicast is not complete. | | | | | | | | |
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| ***Clauses affected:*** | | 2, 4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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>.

[refyy] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

\*\*\*\*\* 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 a broadcast communication service is available, along with the associated user service description (USD) information for the MBS broadcast service. If TMGI and USD information for an MBS service is configured for the PLMN, the UE uses the information configured therein to acquire the broadcast communication service;

d) list of TMGI, on which the service announcement for broadcast or multicast communication service is available via broadcast along with the associated USD information for the MBS service announcement service. If TMGI and USD information for MBS service announcement is configured for a PLMN, the UE uses the information configured therein to acquire the service announcement for broadcast or multicast communication services provided by that PLMN; and

e) default DNN and S-NSSAI pair for PDU sessions that can be used to join MBS multicast sessions (as specified in 3GPP TS 24.501 [refyy]) for which no other information is available.

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