**3GPP TSG-SA WG6 Meeting #45-bis-e S6-212495**

**e-meeting, 11th – 19th October 2021 (revision of S6-212384)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **0299** | **rev** | 2 | **Current version:** | **17.8.0** |  |
|  | | | | | | | | |
| *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 |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Introduction of subclauses to capture MC gateway UE function details | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung, Nokia, Nokia Shanghai Bell, BDBOS | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCGWUE | | | | |  | ***Date:*** | | | 2021-10-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | This CR introduces sub clauses to capture the details of functionalities and procedures for supporting MC gateway UE function. It provides the skeletal outline for this new section so that details can be filled. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | New section 11 and sub clauses are introduced to capture the relevant details.  Added descriptive text to Section 11.1 General.  Editor’s Note is added to specify that details are to be filled. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 11 (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \* \* \* \*

# 11 MC gateway UE

Editor's Note: This clause captures the sub clauses required for MC gateway UE function. Further sub clauses can be introduced on need basis.

## 11.1 General

An MC gateway UE enables MC service access for a MC service user residing on non-3GPP capable devices and for devices which are unable to host MC service clients. In order to be able to participate in a MC service, the MC gateway UE provides the following necessary functions to enable the MC service access for such MC clients:

- **MC gateway client to MC gateway association**: Authorised binding and use of non-3GPP based access with an MC service client. Indicate associated MC gateway clients when the MC gateway UE cannot serve the connected MC service clients (any longer).

- **3GPP transport resources**: Sharing of MC gateway UE 3GPP transport resources among the associated MC service clients.

- **MC client identification**: Independent MC service client identification, MC service client authorisation and MC service profile association.

- **Location Management**: Providing location management support for the associated MC clients to handle the location information and triggers related to 3GPP access network.

- **MC client communication integrity**: Ensure that signalling, media content and traffic attributes, e.g. priority and QoS, of communications between the MC system and MC service client remains unaltered.

The following functions are provided by the MC gateway client:

* **MC gateway association**: Allowing an MC gateway client to simultaneously bind to multiple MC gateway UEs.
* **MC service selection**: Choose between multiple MC gateway UEs for the required MC service capability.
* **MC service continuation**: Enables reselection of the MC gateway UE association while MC service continues.

## 11.2 Functional Model

### 11.2.1 General

Editor's Note: This clause will provide the general description for functional model.

## 11.3 Using identities behind the MC gateway UE

### 11.3.1 General

Editor's Note: This clause will provide the general description of using identities for identification of MC service devices and users behind an MC gateway UE.

## 11.4 Routing of data and signalling by the MC gateway UE

### 11.4.1 General

Editor's Note: This clause will capture the details of how the MC gateway UE handles the routing of data and signalling traffic.

## 11.5 Procedures and information flows

Editor's Note: This clause will capture the procedures and information flows for MC gateway UE function.

### 11.5.1 Connection authorisation mechanisms

Editor's Note: This clause will capture the procedures and information flows for connection authorisation.

### 11.5.2 3GPP access network related location information management

Editor's Note: This clause will capture the procedures and information flows for 3GPP related location information management.

### 11.5.3 MBMS support for MC clients residing on non-3GPP devices

Editor's Note: This clause will capture the procedures and information flows for MBMS support.

\* \* \* \* \* \* \* END CHANGES \* \* \* \* \* \* \*