**3GPP TSG-RAN WG3 #115R3-222931**

**Online, 21st Feb – 3rd March 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **.470** | **CR** | **0071** | **rev** | **8** | **Current version:** | **.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 |  | ME |  | Radio Access Network | **X** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Introduction of NR MBS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_MBS-Core | | | | |  | ***Date:*** | | | 04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | NR MBS Service is supported in release 17. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | NR MBS is introduced.  Rev 7: Capture R3-220710 agreed in RAN3#114bis-e  Rev 8: Capture R3-222894 agreed in RAN3#115e | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | NR MBS not supported in case of split gNB architecture. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.3, 5.2.x (new), 6.1.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev 7: Capture R3-220710 agreed in RAN3#114bis-e  Rev 8: Capture R3-222894 agreed in RAN3#115e | | | | | | | | |

***--------------------------------Start of the First Change-----------------------------***

3.3 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].

BH Backhaul

DRB Data Radio Bearers

F1-U F1 User plane interface

F1-C F1 Control plane interface

F1AP F1 Application Protocol

GTP-U GPRS Tunnelling Protocol

IAB Integrated Access and Backhauling

IP Internet Protocol

MBS Multicast/Broadcast Service

NR-MIB NR-Master Information Block

O&M Operation and Maintenance

PA Paging Area

PF Paging Frame

PO Paging Occasion

PTP Point to Point

PTM Point to Multipoint

QoS Quality of Service

RIM Remote Interference Management

RLC Radio Link Control

RRC Radio Resource Control

SCTP Stream Control Transmission Protocol

SRB Signalling Radio Bearers

SIB1 System Information Block 1

SIB10 System Information Block 10

SIB12 System Information Block 12

SIB13 System Information Block 13

SIB14 System Information Block 14

SL Sidelink

TNL Transport Network Layer

V2X Vehicle-to-Everything

***--------------------------------Start of the Next Change-----------------------------***

### 5.2.x NR MBS function

The multicast group paging function supports the sending of multicast group paging request to the gNB-DUs in order to group-page UEs that have joined the multicast MBS session.

***--------------------------------Start of the Next Change-----------------------------***

### 6.1.x NR MBS procedures

The F1 MBS procedures are listed below:

- Broadcast Context Setup;

Broadcast Context Release;

- Broadcast Context Modification;

- Broadcast Context Release (gNB-DU initiated);

- Multicast Group Paging procedure;

- Multicast Context Setup;

- Multicast Context Release;

- Multicast Context Modification;

- Multicast Context Release (gNB-DU initiated);

- Multicast Distribution Setup;

- Multicast Distribution Release.

***--------------------------------End of the Changes-----------------------------***