**3GPP TSG-WG SA2 Meeting #164S2-240xxxx**

**Maastricht, NL, 19th Aug – 23rd Aug, 2024 (revision of S2-240xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.501** | **CR** | **XXXX** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | On the configuration of MWAB | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | VMR\_Ph2 | | | | |  | ***Date:*** | | | 2024-08-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As the work item VMR\_Ph2 was approved in SP#104 meeting therefore it is the time to introduce the features to the related specifications.    On the configuration of MWAB, based on the conclusion, it is proposed to have the following aspects addressed:  1. it is the configuration or URSP at the MWAB-UE to determine how to use the PDU session for the MWAB operation.  2. the configuration includes Cell ID, TAC, gNB ID, AMF address and optionally the associated area, but the details need to be coordinated with SA5 and RAN3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding new clauses to support the configuration of the MWAB. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The configuration regarding MWAB is not clear. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.X (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 (All Text New) \* \* \* \*

## 5.X Support for Mobile gNB with Wireless Access Backhauling (MWAB)

### 5.X.Y1 Configuration of the MWAB

#### 5.X.Y1.1 Configuration of the MWAB-UE

When receiving the request from MWAB-gNB, the MWAB-UE manages the PDU session(s) for the MWAB operation based on the configuration by the HPLMN of MWAB-UE. The configuration of the MWAB-UE can be Local Configuration, or provisioned using existing URSP rules (e.g., the proper DNN, S-NSSAI, and the SSC Mode).

#### 5.X.Y1.2 Configuration of the MWAB-gNB

The MWAB-gNB's configurations (e.g., Cell ID/TAC, AMF address) are managed by OAM of the PLMN it serves. Based on location information of MWAB-gNB, the OAM server provides configuration parameters to the MWAB-gNB via the PDU Session of the MWAB-UE. The configuration pramaters include Cell ID, TAC, gNB ID, AMF address and optionally the associated geographical information.

The MWAB-gNB uses the Cell ID and TAC in the SIB message based on its location information and received MWAB configuration parameters. And MWAB-gNB may further manage the N2 connection with the AMFs it is configured with.

Editor's Note: Details of the configuration information needs the coordination with SA5 and RAN3.

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