**3GPP TSG-SA5 Meeting #137-e *S5-213227***

**Online, , 10th May 2021 - 19th May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.313** | **CR** | **-** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network |  |

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| ***Title:***  |  Rel-17 Input to DraftCR 28.313 MLB procedure |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eSON\_5G |  | ***Date:*** | 2021-04-30 |
|  |  |  |  |  |
| ***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 canbe 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)* |
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| ***Reason for change:*** | This contribution proposes to add the load balancing optimization procedure for to DraftCR 28.313. |
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| ***Summary of change:*** | Add the load balancing optimization procedure. |
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| ***Consequences if not approved:*** | The load balancing optimization function would not be clear. |
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| ***Clauses affected:*** | 8.2.X |
|  |  |
|  | **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 ...  |
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| ***Other comments:*** | **Input to DraftCR to 28.313 for capturing Rel-17 MLB procedure** |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st modified section** |

##### 7.1.x.2.x Policy information

Table 7.1.x.2.x-1: LBO policy

| Policy parameter | Definition | Legal Values |
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| LBO Allowed | This attribute indicates if load balancing is allowed or prohibited from source cell to target cell. See attribute isMLBAllowed in TS 28.541 [13]. | BooleanOn, off |

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| **2nd modified section** |

# 8 SON procedures

## 8.2 Distributed SON management

### 8.2.x LBO(Load Balancing Optimisation)

Figure 8.2.x-1 depicts a procedure that describes how D-SON management function can manage the LBO function.



Figure 8.2.x-1: The management of distributed LBO procedure

1. The D-SON management function consumes the Producer of provisioning MnS with *modifyMOIAttributes* operation to configure the LBO policy for NR cell(s).

1.a The MnS of provisioning sets the LBO policy at the D-LBO LBO function (NOTE)

2. The D-SON management function consumes the Producer of provisioning MnS with *modifyMOIAttributes* operation to enable the D-LBO function for NR cell(s).

2.a The MnS of provisioning enables the D-LBO LBO function (NOTE).

3. The D-LBO function determines it is necessary to optimize the load distribution by executing the LBO actions.

4. The D-LBO function reports the LBO parameters (e.g. the handover and/or cell reselection parameters and/or isLBallowed parameters) changes to Producer of provisioning MnS.

5. The Producer of provisioning MnS sends a notification *notifyMOIAttributeValueChange* to D-SON management function to indicate the LBO parameters have been changed.

6. The D-SON management function collects LBO related performance measurements.

7. The D-SON management function analyzes the measurements to evaluate the LBO performance.

8. The D-SON management function consumes the MnS of NF provisioning with *modifyMOIAttributes* operation to update the LBO parameters (e.g. the handover and/or cell reselection parameters and/or isLBallowed parameters) of the NR cell or its neighbors. The MnS of provisioning update the LBO parameters at the D-LBO function (NOTE).

NOTE: The interface between MnS of provisioning and D-LBO function is not subject to standardization.

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| **End of modified section** |