**3GPP TSG-SA5 Meeting #137e *S5-213408***

**e-meeting 10th - 19th May 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **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:***  | CHO requirements |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | E\_HOO |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***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 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | Add requirements for the development of management of CHO. |
|  |  |
| ***Summary of change:*** | Specification level requrements for CHO management added. |
|  |  |
| ***Consequences if not approved:*** |  |
|  |  |
| ***Clauses affected:*** | 3.3, 6.1.1.X, 6.4.1.X, 6.4.1.X.1, 6.4.1.X.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |   |
|  |  |
| ***Other comments:*** | This is input to the Rel-17 28.313 draft CR for WI E\_HOO. |
|  |  |
| ***This CR's revision history:*** | S5-206212 |

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| **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].

ANR Automatic Neighbour Relation

CHO Conditional Handover

NCR Neighbour Cell Relation

NG-RAN Next Generation Radio Access Network

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| **Next change** |

#### 6.1.1.X CHO management

**REQ-DCHO-FUN-1** The producer of NF provisioning MnS should have the capability allowing an authorized consumer to enable or disable CHO from one cell to another cell.

**REQ-DCHO-FUN-2** The producer of NF provisioning MnS should have the capability allowing an authorized consumer to configure parameters for CHO, e.g. threshold(s), timer(s).**REQ-DCHO-FUN-3** The producer of NF performance assurance MnS should have the capability to produce measurements related to CHO.

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| **Next change** |

#### 6.4.1.X CHO management

##### 6.4.1.X.1 Starting CHO for a cell

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | To configure and start CHO (see TS 38.300 clause 9.2.3.4) from one cell to another cell. |  |
| **Actors and Roles** | D-SON management function to support the CHO function. |  |
| **Telecom resources** | * gNB;
* The producer of provisioning MnS.
 |  |
| **Assumptions** | N/A |  |
| **Pre-conditions** | * 5G NR cells are in operation.
* CHO is not in operation from the source cell to the target cell.
 |  |
| **Begins when**  | The D-SON management function intends to enable CHO from the source cell to the target cell. |  |
| **Step 1 (O)** | The D-SON management function requests the producer of NF provisioning MnS to configure parameters for the management of CHO on the source cell. |  |
| **Step 2 (M)** | The D-SON management function requests the producer of NF provisioning MnS to enable the CHO function from the source cell to the target cell. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the steps identified above fails. |  |
| **Post-conditions** | CHO is in operation from the source cell to the target cell. |  |
| **Traceability**  | **REQ-DCHO-FUN-1, REQ-DCHO-FUN-2** |  |

##### 6.4.1.X.2 Start measuring CHO related measurements from a cell

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | To receive CHO related measurements for a cell. |  |
| **Actors and Roles** | D-SON management function to support the CHO function. |  |
| **Telecom resources** | * gNB;
* The producer of NF performance MnS.
 |  |
| **Assumptions** | N/A |  |
| **Pre-conditions** | * 5G NR cells are in operation.
* The CHO function is in operation.
 |  |
| **Begins when**  | The D-SON management function intends to receive CHO related measurements. |  |
| **Step 1 (M)** | The D-SON management function subscribes to CHO related measurement from the producer of NF performance MnS. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the steps identified above fails. |  |
| **Post-conditions** | The D-SON management function receives measurements when they are published. |  |
| **Traceability**  | **REQ-DCHO-FUN-3** |  |

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| **End of changes** |