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

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **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 | | | | | | | | | |
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| ***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 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-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. | | | | | | | | |
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| ***Summary of change:*** | | Specification level requrements for CHO management added. | | | | | | | | |
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| ***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 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
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| ***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** |