**3GPP TSG-SA5 Meeting #134e *S5-206212rev1***

**e-meeting 16th - 25th November 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **-** | **rev** |  | **Current version:** |  |  |
|  |
| *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 |  | 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:*** | 6.1.1.X (New), 6.4.1 (New) |
|  |  |
|  | **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:*** |  |

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| **First change** |

#### 6.1.1.X CHO management

**REQ-DCHO-FUN-1** The producer of 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 provisioning MnS should have the capability allowing an authorized consumer to configure CHO threshold(s), timer(s).

Editor's note: Solution for configuration of CHO is pending RAN3 requirements.

**REQ-DCHO-FUN-3** The producer of performance assurance MnS should have the capability to produce measurements related to CHO.

Editor's note: The measurements need to consider and possibly clarify existing measurements for HO.

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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 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 start the possibility for CHO from the source cell to the target cell. |  |
| **Step 1 (O)** | The D-SON management function requests the producer of provisioning MnS to configure CHO for the source cell. [Note 1] |  |
| **Step 2 (M)** | The D-SON management function requests the producer of 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** |  |

NOTE 1: Whether configuration is needed is subject to RAN3 requirements.

##### 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 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 system intends to receive CHO related measurements. |  |
| **Step 1 (M)** | The D-SON management function subscribes to CHO related measurement from the producer of 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 system receives measurements when they are published. |  |
| **Traceability**  | **REQ-DCHO-FUN-3** |  |

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| **End of changes** |