**3GPP TSG-SA5 Meeting #131e *S5-203160***

**e-meeting 25th May-3rd June 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.310** | **CR** | **0001** | **rev** | **-** | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *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:*** | Update on D-SON ES solution management service | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EE\_5G | | | | |  | ***Date:*** | | | 2020-06-03 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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:*** | | D-SON ES MnS component type A and B do not align with the latest ES D-SON NRM modelling. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update the D-SON ES MnS component type A and B to align with the latest ES D-SON NRM modelling. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | D-SON ES MnS component type A and B are not aligned with the ES D-SON NRM modelling. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | New clause 6.2.3.0, 6.2.3.1.1, 6.2.3.1.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **1st Change** |

### 6.2.3 Distributed energy saving solution

#### 6.2.3.0 Management service components used for D-SON ES solution

The MnS components used for D-SON (Distributed SON or Domain-Centralized) ES solution are listed in the following clauses.

#### 6.2.3.1 Management services

##### 6.2.3.1.1 MnS component type A

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| --- | --- |
| MnS Component Type A | Note |
| Operations defined in clause 11.1.1 of TS 28.532 [16]:  - createMOI  - getMOIAttributes  - modifyMOIAttributes  - deleteMOI | Supported by the Provisioning MnS for NF, as defined in TS 28.531 [6]. |
| Notifications defined in clause 11.1.1 of TS 28.532 [16]:  - notifyMOICreation  - notifyMOIAttributeValueChange  - notifyMOIDeletion | Supported by the Provisioning MnS for NF, as defined in TS 28.531 [6]. |

##### 6.2.3.1.2 MnS Component Type B

###### 6.2.3.1.2.1 Objective and targets

The objective of ES is to automatically set parameters so as to maximize NG-RAN data energy efficiency - see Table 6.2.3.1.2.1-1.

Table 6.2.3.1.2.1-1. Energy Saving targets

| Targets | Definition | Legal Values |
| --- | --- | --- |
| NG-RAN data Energy Efficiency | Data Volume (DV) divided by Energy Consumption (EC) of the considered network elements. | In bit/J. |

###### 6.2.3.1.2.2 Control information

The parameters in DESManagementFunction IOC, which is defined in TS 28.541 [11], are used to control the D-SON (Distributed SON or Domain-Centralized) ES functionality.



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| **End of Change** |