**3GPP TSG-SA5 Meeting #139-e *S5-215440Rev2***

**e-meeting, 11 - 20 October 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.537** | **CR** | **0007** | **rev** | **-** | **Current version:** | 17.1.0 |  |
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| *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 | **x** |

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| ***Title:***  | Rel-17 CR TS28.537 Clarifications into existing use cases |
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| ***Source to WG:*** | NEC |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | 5GDMS |  | ***Date:*** | 2021-10-01 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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:*** | The term “MnS data” has not been clearly defined and it is not known which reference to use to find the details. This term has been used in the descriptions of 5GDMS use cases. Also relevant text defining MnS data has been deleted TS28.533 as it is no longer relevant. |
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| ***Summary of change:*** | * Use MnS information instead of MnS data.
* A note to clarify the meaning of MnS information is added at end of use cases.
* Some minor clarifications to the text of the use cases.
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| ***Consequences if not approved:*** | Use cases will remain not clear. |
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| ***Clauses affected:*** | 5.2.1.1, 5.2.1.2, 5.2.1.3 |
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|  | **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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Change** |

## 5.2 Specification level requirements

### 5.2.1 Use cases

#### 5.2.1.1 Adding a new management service producer

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | Add a new MnS producer to a 3GPP management system. |  |
| **Actors and Roles** | Network operator. |  |
| **Telecom resources** | New MnS producer.MnS discovery service producer. |  |
| **Assumptions** | New MnS producer is authorized to register the MnS information for a management service to MnS discovery service producer. |  |
| **Pre-conditions** | - |  |
| **Begins when**  | Network operator wishes to add a new MnS producer to the 3GPP management system. |  |
| **Step 1 (M)** | Network operator adds the new MnS producer to the 3GPP management system. |  |
| **Step 2 (M)** | Network operator activates the new MnS producer. |  |
| **Step 3 (M)** | New MnS producer sends a request to MnS discovery service producer to register the MnS information. |  |
| **Step 4 (M)** | MnS discovery service producer stores the MnS information. |  |
| **Step 5 (M)** | MnS discovery service producer sends confirmation to the new MnS producer that the MnS information has been registered. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the mandatory steps fails. |  |
| **Post-conditions** | MnS discovery service producer has stored the MnS information. |  |
| **Traceability**  | REQ-DMS-CON-1 |  |

#### 5.2.1.2 Removing a management service producer

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | Remove an existing MnS producer in a 3GPP management system. |  |
| **Actors and Roles** | Network operator. |  |
| **Telecom resources** | MnS producer.MnS discovery service producer. |  |
| **Assumptions** | -  |  |
| **Pre-conditions** |  MnS discovery service producer has stored the MnS information for the MnS producer.The network operator has decided that it is safe to remove the MnS producer. |  |
| **Begins when**  | Network operator wishes to remove an existing MnS producer in the 3GPP management system. |  |
| **Step 1 (M)** | Network operator orders removal of the MnS producer. |  |
| **Step 2 (M)** | MnS producer sends a request to MnS discovery service producer to remove the MnS information related to the MnS Producer. |  |
| **Step 3 (M)** | MnS discovery service producer removes the MnS information related to the MnS Producer. |  |
| **Step 4 (M)** | MnS discovery service producer sends confirmation to the MnS producer that the MnS information has been removed. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the mandatory steps fails. |  |
| **Post-conditions** | MnS discovery service producer has removed the MnS information related to the MnS Producer. |  |
| **Traceability**  | REQ-DMS-CON-1 |  |

#### 5.2.1.3 Adding a new management service consumer

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | Add a new MnS consumer of an MnS provided by a 3GPP management system. |  |
| **Actors and Roles** | Network operator. |  |
| **Telecom resources** | New MnS consumer.MnS discovery service producer. |  |
| **Assumptions** | New MnS consumer is authorized to obtain the MnS information for the available management service(s) from MnS discovery service producer. |  |
| **Pre-conditions** | MnS information exists in MnS discovery service producer. |  |
| **Begins when**  | Network operator wishes to add a new MnS consumer of an MnS provided by a 3GPP management system. |  |
| **Step 1 (M)** | Network operator adds the new MnS consumer to the 3GPP management system or to an external system. |  |
| **Step 2 (M)** | Network operator configures the new MnS consumer with the address of the MnS discovery service producer. |  |
| **Step 3 (M)** | Network operator activates the new MnS consumer. |  |
| **Step 4 (M)** | For each MnS that the new MnS consumer wishes to consume, the following steps are repeated. |  |
| **Step 4.1 (M)** | New MnS consumer sends a request to MnS discovery service producer to read the MnS information for relevant management services. The request may optionally request that the MnS information is filtered by MnS type (e.g. provisioning MnS, fault supervision MnS, performance assurance MnS) and description of MnS components. |  |
| **Step 4.2 (M)** | MnS discovery service producer reads the stored MnS information of the management service(s) and decides if the MnS information of the management service(s) can satisfy the received request, then sends the relevant MnS information of the management service(s) to the new MnS Consumer. |  |
| **Step 4.3 (M)** | New MnS consumer reads the MnS information to check if a suitable version of the desired MnS is available. If more than one suitable version exists, the new MnS consumer selects the management service with the highest suitable version of the MnS. |  |
| **Step 4.4 (M)** | New MnS consumer reads the MnS information for the selected management service to find details of the MnS producer for example root URL for MnS operations and root DN for MnS objects. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the mandatory steps fails. |  |
| **Post-conditions** | New MnS consumer is ready to use the selected version for each needed MnS. |  |
| **Traceability**  | REQ-DMS-CON-2 |  |

NOTE: MnS information refer to the information used by the consumer to discover the producers of specific Management Services and to derive the addresses of the Management Service.

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| **End of Change** |