**3GPP TSG-SA5 Meeting #142-e *S5-222078***

**e-meeting, 4 - 12 April 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **32.158** | **CR** | **DraftCR** | **rev** | **-** | **Current version:** |  |  |
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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-16 CR 32.158 Clarify clause Creating a resource with identifier creation by the MnS Producer |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2022-03-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 subject matter definitions are slightly underspecified as to a few aspects and require some clarifications to produce fully disambiguous definitions. |
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| ***Summary of change:*** | The definitions are clarified and disambiguated. |
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| ***Consequences if not approved:*** | Underspecified definitions could lead to interoperability issues. |
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| ***Clauses affected:*** | 5.1.1 |
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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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| **First modification** |

### 5.1.1 Creating a resource with identifier creation by the MnS Producer

Operations to create a (single) resource shall be specified with the HTTP POST method, when the MnS Producer creates the identifier of the new resource.



Figure 5.1.1-1: Flow for creating a resource with HTTP POST

The procedure is as follows:

1) The MnS Consumer sends an HTTP POST request to the MnS Producer. The target URI identifies the parent resource below which the new resource shall be created. The target URI shall have no query and no fragment component. The message body shall carry a representation of the resource to be created. The resource representation shall not contain the identifier of the new resource, unless the resource representation format mandates the presence of a resource identifier in which case it shall carry null semantics. If the identifier carries nevertheless a value, the MnS Producer may consider that as a non-binding recommendation by the MnS Consumer. The object class name of the resource to be created shall be specified in the message body as well.

2) The MnS Producer returns the HTTP POST response. On success, "201 Created" shall be returned. The "Location" header shall be present and carry the URI of the new resource. The URI shall be constructed by the MnS Producer by creating an identifier for the new resource and appending a new path segment containing this identifier to the request URI. The message body should carry the representation of the new resource. On failure, the appropriate error code shall be returned. The response message body may provide additional error information.

The resource representation in the request and response message may not be identical, and may not contain all properties (attributes) that are defined in a schema specifying the format of the representation.

For example, assume the schema for the representation of the resource defines the attributes "attrA", "attrB" and "attrC". When the MnS Consumer has valid values only for the attributes "attrA" and "attrB", then the representation sent to the MnS Producer shall include only these two attributes. When the MnS Producer has no valid value for "attrC" and no default value is defined for attrC, then the response is identical to the request, and a subsequent HTTP GET request for all attributes returns only a representation with the attributes "attrA" and "attrB", but not with the attribute "attrC". However, if the MnS Producer populates "attrC" with some value or a default value is defined for attrC, then the HTTP POST response shall include all three attributes. Likewise, a subsequent HTTP GET request for all attributes returns all three attributes.

A MnS Producer may also modify attribute values included in the request. In this case, the modified values shall be sent back to the MnS Cosumer.

It is also possible that a MnS Producer removes attributes received in the request and includes only a subset of the received attributes in the response.

When the created resource has child resources that are included in the schema definition of the created resource, a representation of these child resources shall neither be included in the resource representation sent to the MnS Producer nor in the resource represententation returned to the MnS Consumer. Including child resources would be an attempt to create multiple resources with a single request. HTTP POST shall be used for the creation of a single resource only.

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| **End of modifications** |