**3GPP TSG-CT WG4 Meeting #110-eC4-223xxx**

**E-Meeting, 12th – 20th May 2022 was C4-223208**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.503** | **CR** | **0875** | **rev** | **1** | **Current version:** | **17.6.0** |  |
|  |
| *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 |  | Core Network | **X** |

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|  |
| ***Title:***  | Update Nudm\_SDM\_Get to support TSCTSF |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | C4 |
|  |  |
| ***Work item code:*** | IIoT |  | ***Date:*** | 2022-05-04 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | Based on the agreed S2-2203230 and S2-2203232, for the scenario that the Event Filter includes Groups of UEs or the AF request targets a group of UEs, the TSCTSF uses the Nudm\_SDM\_Get request to retrieve the subscription information (SUPI list) from the UDM using the Internal Group ID. The UDM provides the Nudm\_SDM\_Get response containing a SUPI list that identifies UEs that belong to the Groups of UEs.It proposes to update the Nudm\_SDM\_Get to support the above feature. |
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| ***Summary of change:*** | Update the Nudm\_SDM\_Get to support the above feature. |
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| ***Consequences if not approved:*** | It is not align with stage 2. |
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| ***Clauses affected:*** | 5.2.2.2.14 |
|  |  |
|  | **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 does not introduce any changes to the OpenAPI Nudm\_SDM API files. |
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| ***This CR's revision history:*** |  |

\* \* \* Begin of Changes \* \* \* \*

##### 5.2.2.2.14 Group Identifier Translation

Figure 5.2.2.2.14-1 shows a scenario where the NF service consumer (e.g NEF, GMLC) sends a request to the UDM to receive the Internal Group Identifier that corresponds to the provided External Group Identifier and / or the list of the UE identifiers (e.g. SUPIs, GPSIs) that belong to the provided External Group Identifier.



Figure 5.2.2.2.14-1: External Group Identifier Translation

1. The NF Service Consumer (e.g. NEF, GMLC) shall send a GET request to the resource representing the group identifiers handled by UDM; the External Group Identifier is passed in a query parameter of the request URI, and an indication is also passed if the list of UE identifiers that belong to the provided External Group Identifier are required.

2a. On success, the UDM shall respond with "200 OK" with the message body containing the Internal Group Identifier and / or the list of UE identifiers that belong to the provided External Group Identifier.

2b. If there is no valid data for this group, HTTP status code "404 Not Found" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

2c. If the AF included in the request is not allowed to perform this operation for the group, HTTP status code "403 Forbidden" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the GET response body.

Figure 5.2.2.2.14-2 shows another scenario where the NF service consumer (e.g NEF, GMLC) sends a request to the to receive the External Group Identifier that corresponds to the provided Internal Group Identifier and optionally, the list of the UE identifiers (e.g. SUPIs , GPSIs) pertaining to such group or the NF service consumer (e.g TSCTSF) sends a request to the UDM to receive the list of the UE identifiers (e.g. SUPIs) that corresponds to the provided Internal Group Identifier (see 3GPP TS 23.502 [3] clause 4.15.9.2 and clause 4.15.9.4)..



Figure 5.2.2.2.14-2: Internal Group Identifier Translation

1. The NF Service Consumer (e.g. NEF, GMLC, TSCTSF) shall send a GET request to the resource representing the Internal Group Identifiers handled by UDM; the Internal Group Identifier is passed in a query parameter of the request URI, and an indication is also passed if the list of UE identifiers that belong to the provided Internal Group Identifier are required.

2a. On success, the UDM shall respond with "200 OK" with the message body containing the corresponding External Group Identifier and / or the list of UE identifiers that belong to the provided Internal Group Identifier.

2b. If there is no valid data for this group, HTTP status code "404 Not Found" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

2c. If the AF included in the request is not allowed to perform this operation for the group, HTTP status code "403 Forbidden" shall be returned including additional error information in the response body (in the "ProblemDetails" element).

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the GET response body.

\* \* \* End of Changes \* \* \* \*