**3GPP TSG-SA WG6 Meeting #52-bis-e S6-230327**

**e-meeting, 11th – 20th January 2023 (revision of S6-230171)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.434** | **CR** | **0154** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Service based interface representation of group managment | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL2 | | | | |  | ***Date:*** | | | 2023-01-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | One of the objective of eSEAL2 WID is refinement of SEAL services with service based interface representation. This contribution brings in the required changes for representing group management with service based interface. | | | | | | | | |
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| ***Summary of change:*** | | Service based interface representation of group manamgement is provided. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification and objectives of eSEAL2 WID not being met | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* Changes \* \* \*

### 10.2.2 On-network functional model description

Figure 10.2.2-1 illustrates the generic on-network functional model for group management.



Figure 10.2.2-1: On-network functional model for group management

The group management client communicates with the group management server over the GM-UU reference point. The group management client provides the support for group management functions to the VAL client(s) over GM‑C reference point. The VAL server(s) communicate with the group management server over the GM-S reference point.

The group management server interacts with the NEF of the underlying 3GPP network system via N33 reference point to perform group management procedures for 5G Virtual Network (5GVN) groups.

Figure 10.2.2-2 exhibits the service-based interfaces for providing and consuming group management services. The group management server could provide service to VAL server and group management client through interface Sgm.



Figure 10.2.2-2: Architecture for group management – Service based representation

Figure 10.2.2-3 illustrates the service-based representation for utilization of the 5GS network services based on the 5GS SBA specified in 3GPP TS 23.501 [10].



Figure 10.2.2-3: Architecture for group management utilizing the 5GS network services based on the 5GS SBA – Service based representation

Figure 10.2.2-4 illustrates the service-based representation for utilization of the Core Network northbound APIs via CAPIF.



Figure 10.2.2-4: Utilization of Core Network Northbound APIs via CAPIF – service based representation

The Group management server acts as authorized API invoker to consume services from the Core Network northbound API entities like NEF which act as API Exposing Function as specified in 3GPP TS 23.222 [6].