**3GPP TSG-SA WG6 Meeting #42-e S6-210566**

**e-meeting, 1st – 9th March 2021 (revision of S6-21xxxx)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.434** | **CR** | **0045** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Service identification in location management procedures | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL | | | | |  | ***Date:*** | | | 2021-02-24 |
|  |  | | | |  | |  | | |  |
| ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The location reporting provided by SEAL shall be VAL service specific, i.e. the Location Management Server shall be able to distinguish the VAL services when handling the service requests for location information.  In the current specification the location service requests use VAL User ID or VAL UE ID as the target identity for location fetching. Both VAL User ID and VAL UE ID are unique identities within the specific VAL service. However, the identity (e.g. the MSISDN as a type of GPSI) of a UE may be used across multiple VAL services. The potential risks exist that the UE’s location information is available to the irrevelant VAL services or to the VAL user of an irrevelant VAL service. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add VAL Service ID in the information flows of service requests and trigger for location. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Risks exist for location information to be achieved by irrevelant VAL services or parties. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.3.2.0, 9.3.2.3, 9.3.2.4, 9.3.2.5, 9.3.2.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

#### 9.3.2.0 Location reporting configuration request

Table 9.3.2.0-1 describes the information flow from the location management client to the location management server for requesting the location reporting configuration.

Table 9.3.2.0-1: Location reporting configuration request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Identity | M | Identity of the VAL user or identity of the VAL UE. |
| VAL service ID | O | Identity of the VAL service for which the location reporting configuration is requested. |

\* \* \* Next Change \* \* \* \*

#### 9.3.2.3 Location information request

Table 9.3.2.3-1 describes the information flow from the VAL server to the location management server and from the location management server to the location management client for requesting an immediate location information report.

Table 9.3.2.3-1: Location information request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Identity list | M | List of VAL users or VAL UEs whose location information is requested |
| VAL service ID | O | Identity of the VAL service for which the location information is requested. |

\* \* \* Next Change \* \* \* \*

#### 9.3.2.4 Location reporting trigger

Table 9.3.2.4-1 describes the information flow from the location management client or VAL server to the location management server for triggering a location reporting procedure.

Table 9.3.2.4-1: Location reporting trigger

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Identity | M (NOTE 1) | Identity of the requesting authorized VAL user or VAL UE |
| Identity | M (NOTE 1) | Identity of the requested VAL user or VAL UE |
| VAL service ID | O | Identity of the VAL service for which the location reporting trigger is set. |
| Immediate Report Indicator | O (NOTE 2) | Indicates whether an immediate location report is required |
| Requested location information | O (NOTE 2) | Identifies what location information is requested |
| Triggering criteria | O (NOTE 2) | Identifies when the client will send the location report |
| Minimum time between consecutive reports | O (NOTE 2) | Defaults to 0 if absent otherwise indicates the interval time between consecutive reports |
| Endpoint information | O | Information of the endpoint of the requesting VAL server to which the location report notification has to be sent. It is provided if Immediate Report Indicator is set to required. |
| NOTE 1: The identity of the requesting VAL user/UE and the requested VAL user/UE should belong to the same VAL service.  NOTE 2: At least one of these rows shall be present. | | |

\* \* \* Next Change \* \* \* \*

#### 9.3.2.5 Location information subscription request

Table 9.3.2.5-1 describes the information flow from the VAL server to the location management server for location information subscription request.

Table 9.3.2.5-1: Location information subscription request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Identity | M | Identity of the requesting VAL user or VAL UE |
| Identities list | M | List of VAL users or VAL UEs whose location information is requested. |
| VAL service ID | O | Identity of the VAL service for which the location information is subscribed. |
| Time between consecutive reports | M | It indicates the interval time between consecutive reports |

\* \* \* Next Change \* \* \* \*

#### 9.3.2.8 Location reporting configuration cancel request

Table 9.3.2.8-1 describes the location reporting configuration cancel request information flow from the location management client or VAL server to the location management server.

Table 9.3.2.8-1: Location reporting configuration cancel request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Identity | M | Identity of the requesting authorized VAL user or VAL UE |
| Identity | M | Identity of the requested VAL user or VAL UE |
| VAL service ID | O | Identity of the VAL service for which the location reporting configuration is requested to be canceled. |