**3GPP TSG-SA WG6 Meeting #37-e S6-200639**

**e-meeting, 14th – 26th May 2020 (revision of S6-xxxxxx)**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0251** | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *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:*** | Configuration location history reporting | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | BDBOS, BMWi | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2020-05-08 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Currently existing information flows and procedures do not support the on-demand request or automatic transmission of locally stored, but triggered location reports of an MC service user after returning from off-network operation. The configuration of the off-network location reporting is required, e.g. to parametrize off-network trigger criteria.  [R-5.11-009] in 3GPP TS 22.280 in clause 5.11 for on-network and off-network location reports based on triggered events.  Clause 7.1 in 3GPP TS 22.280 describes in general that MC services available during off-network are functional comparable to MC services during on-network and this includes location management, as an essential feature of MC communication. While triggered location reports are available during on-network operation, the same or modified off-network triggers allow such MC service continuity while off-network operation. The location reports provided after returning to on-network operation.  Functional support for use case #5, solutions #6, #7 and #8 discussed in 3GPP TR 23.744. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Updated information flow for the configuration of off-network trigger criteria. | | | | | | | | |
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| ***Consequences if not approved:*** | | The operational analysis of location information triggered during off-network operation cannot be included into operative-tactical decisions after returning to on-network operation. | | | | | | | | |
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| ***Clauses affected:*** | | 10.9.1, 10.9.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

10.9 Location management (on-network)

10.9.1 General

Location information of MC service user shall be provided by the location management client to the location management server. The location information reporting triggers are based on the location reporting configuration. Different type of location information can be provided.

The location management client can be configured to store location information reports while in off-network mode (e.g. UE-UE, IOPS, UE-to-Network relay, no 3GPP network, no MC network) and upload these to the location management server on demand or triggered when returning to on-network operation.

NOTE: Off-network configuration and location report transmission occur while on-network operation.

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

#### 10.9.2.1 Location reporting configuration

Table 10.9.2.1-1 describes the information flow from the location management server to the location management client for the location reporting configuration.

Table 10.9.2.1-1: Location reporting configuration

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| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M | Identity of the MC service user to which the location reporting configuration is targeted. |
| Requested non-emergency location information | O (see NOTE 1) | Identifies what location information is requested, except for emergency or imminent peril calls or emergency alerts |
| Requested emergency location information | O (see NOTE 1) | Identifies what location information is requested, for emergency or imminent peril calls or emergency alerts |
| Triggering criteria in non- emergency cases | O (see NOTE 1) | Identifies when the location management client will send the location report in non-emergency cases |
| Off-network location information criteria | O | Identifies when the location management client will store off-network location reports (e.g. on/off, UE-UE, IOPS, UE-to-Network relay, no 3GPP network, no MC network) |
| Triggering criteria in off-network cases | O (see NOTE 2) | Identifies when the location management client will locally store the location report in off-network cases |
| Minimum time between consecutive reports | O (see NOTE 1) | Defaults to 0 if absent and 0 for emergency calls, imminent peril calls and emergency alerts |
| Triggering criteria in emergency cases | O (see NOTE 1) | Identifies when the location management client will send the location report in emergency cases |
| NOTE 1: If none of the information elements is present, this represents a cancellation for on-network location reporting.  NOTE 2: If not present, location reports will be stored based on the on-network trigger configuration. | | |

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