**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | In some cases, a warrant may require the delivery of only the Location Information associated with a target. Currently, there is no way to provision this type of delivery. |
|  |  |
| ***Summary of change:*** | This contribution adds provisioning options to enable Location Only tasks to be created. |
|  |  |
| ***Consequences if not approved:*** | There will be no way to provision the LI system to perform interception when only location information is required/authorized. |
|  |  |
| ***Clauses affected:*** | 7.3.4, 7.3.X, Annex C |
|  |  |
|  | **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:*** | ASN.1 for this CR can be found in Forge: https://forge.3gpp.org/rep/sa3/li/-/merge\_requests/97Commit hash: 6e8ad9db784697a84153dec71adc694251cfa133 |
|  |  |
| ***This CR's revision history:*** | S3i220522 |

#### \*\*\* Start of First Change \*\*\*

### 7.3.4 Separated location reporting

#### 7.3.4.1 General description

When location information cannot be reported via an existing message generation at the IRI-POI, a separate xIRI may be generated from any provisioned IRI-POI that has access to location information and included in the SeparatedLocationReporting record.

The following information needs to be transferred from the IRI-POI to the MDF2 to enable a MDF2 to perform its functionality:

- Target identity.

- Event date/time.

- Target location(s).

- Date/time of UE location(s).

- Nature and identity of the POI.

- Location source(s).

Details of how the IRI-POI in the SMF generates this record can be found in clause 6.2.3.2.1.

Details of how the IRI-POI in the NEF generates this record can be found in clause 7.7.2.1.1.

Details for Location Only reporting using this record can be found in clause 7.3.X.

Table 7.3.4.1-1: Payload for SeparatedLocationReporting record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI associated with the registration (see clause 6.2.2.4). | M |
| sUCI | SUCI used in the registration, if available. | C |
| pEI | PEI provided by the UE during the registration, if available. | C |
| gPSI | GPSI obtained in the registration, if available as part of the subscription profile. | C |
| gUTI | 5G-GUTI provided as outcome of initial registration or used in other cases, see TS 24.501 [13] clause 5.5.1.2.2. | C |
| location | Location information determined by the network at the time of message generation. | M |
| non3GPPAccessEndpoint | For Non-3GPP access, UE's local IP address used to reach the N3IWF, TNGF or TWIF. IP addresses are given as 4 octets (for IPv4) or 16 octets (for IPv6) with the most significant octet first (network byte order). | C |
| rATType | RAT Type associated with the data for which location information is provided, see TS 23.502 [4] clause 4.3.2. Values given as per TS 29.571 [17] clause 5.4.3.2. | C |

#### \*\*\* Start of Next Change \*\*\*

### 7.3.X Location Only Reporting

#### 7.3.X.1 General Information

In some cases, it may be required to deliver only location information associated to a target.

For a warrant authorizing only location reporting, all other IRI information not associated with Location shall not be delivered. For example, when a target places a voice call, the new location information available as part of the call handling, shall be reported, but nothing else.LocationOnly reporting may be provisioned using one of the following methods:

- Using a specific Location Only task provisioned at the IRI-POI.

- Using the Mediation Details at the MDF2.

NOTE: In the latter case, the Location Only delivery is handled at the MDF2 only.

#### 7.3.X.2 Provisioning Information

The LocationOnlyProvisioning parameter may be included:

* As a TaskDetailsExtension of an ActivateTask message sent to an IRI-POI.
* As a MediationDetailsExtension of an ActivateTask message sent to an MDF2.

Table 7.3.X-1 shows the details of the LocationOnlyProvisioning parameter for TaskDetailsExtension and MediationDetailsExtension.

 Table 7.3.X-1: LocationOnlyProvisioning parameters

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| LocationOnly | If included, the LI function shall generate the messages described in clause 7.3.X.3. | C |

#### 7.3.X.3 Generation of Location Only xIRI

If the LocationOnly flag is set in the TaskDetailsExtension of an ActivateTask message sent to an IRI-POI that task is considered a Location Only task.

For a Location Only task at the IRI-POI, in the AMF, whenever any trigger specified for the IRI-POI in the AMF is met (see clause 6.2.2.2), the IRI-POI in the AMF shall genereate an xIRI containing an AMFLocationUpdate record if there is any location information associated to the event and send it over LI\_X2 instead of the xIRI specified for that trigger.

For a Location Only task at an IRI-POI not in the AMF, whenever any trigger specified for that IRI-POI is met, the IRI-POI shall genereate an xIRI containing a SeparatedLocationReport record if there is any location information associated to the event and send it over LI\_X2 instead of the xIRI specified for that trigger unless the xIRI is listed in below in this clause.

In addition to the SeparatedLocationReport record, the IRI-POI in the UDM shall generate the following xIRIs and send them over LI\_X2 for Location Only tasks:

* UDMServingSystemMessage

#### 7.3.X.4 Generation of Location Only IRI

If the LocationOnly flag is set in the MediationDetailsExtension of an ActivateTask message sent to an MDF2 that task is considered a Location Only task only in the context of this specific MediationDetails set. Whenever any xIRI for a Location Only task is received over LI\_X2 from any IRI-POI, if the xIRI is not included in the list below and has location information, the MDF2 shall genereate an IRI message containing a SeparatedLocationReport record and send it over LI\_HI2 to the provisioned destinations without delay instead of the IRI message containing a copy of the relevant record received over LI\_X2. The record may be enriched by other information available at the MDF (e.g. additional location information).

In addition to the SeparatedLocationReport record, the MDF2 shall generate IRIs for the following xIRIs for Location Only tasks and send them over LI\_HI2:

* UDMServingSystemMessage
* AMFLocationUpdate
* LALSReport

#### The MDF2 shall ignore the LocationOnlyProvisioning parameter if it is present in the TaskDetailsExtension of the ActivateTask message.\*\*\* Start of Next Change \*\*\*

Annex C (normative):
XSD Schema for LI\_X1 extensions

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 xmlns:common="http://uri.etsi.org/03280/common/2017/07"

 targetNamespace="urn:3GPP:ns:li:3GPPX1Extensions:r18:v1"

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