**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.

#### 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 Location Only task at the IRI-POI in the AMF, whenever any trigger specified for the IRI-POI in the AMF is met for the generation of an xIRI (see clause 6.2.2.2), instead of generating that xIRI, the IRI-POI in AMF shall generate an xIRI containing an AMFLocationUpdate record if there is any location information in the triggering event and send it to the MDF2 over LI\_X2. If there is no location information in the triggering event, no xIRI shall be generated.

For a Location Only task at an IRI-POI not in the AMF, whenever any trigger specified for that IRI-POI is met, instead of generating that xIRI, the IRI-POI shall genereate an xIRI containing a SeparatedLocationReport record if there is any location information in the triggering event and send it over to the MDF2 over LI\_X2 the xIRI is listed in below in this clause.

The IRI-POI in the UDM shall generate the following xIRIs when the appropriate triggers are met and 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. The MDF2 shall generate IRIs for the following xIRIs for Location Only tasks and send them over LI\_HI2:

* UDMServingSystemMessage.
* AMFLocationUpdate.
* LALSReport.
* SeparatedLocationReport.

In addition, 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 generate 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).

#### 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

<?xml version="1.0" encoding="utf-8"?>

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

 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 \*\*\*