**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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Delegated State for LI\_X1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (NTAC) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 02-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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 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:*** | | An LIPF cannot determine what Tasks a TF has provisioned at a Triggered POI, limiting the ability for the LIPF to audit and assure the action of the LI network. See s3i230036 for further discussion. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Definition of DelegatedTaskStatus extension to the TS 103 221-1 TaskStatus structure to allow reporting of delegated task state. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | An LIPF will not be able to determine what Tasks a TF has provisioned at a Triggered POI, limiting the ability for the LIPF to audit and assure the action of the LI network. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.5, 5.2.6, URN\_3GPP\_NS\_LI\_3GPPX1EXTENSIONS.XSD | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 is associated with the following changes in the Forge:  Merge Request: [150](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/150)  Commit Hash: [aa62edbe](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/150/diffs?commit_id=aa62edbe9dc1f31ec825ecd3c4746b4df3f4eba9) | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

FIRST CHANGE

5.2.5 Usage for realising LI\_T2

For the purposes of realising LI\_T2 between an IRI-TF and a triggered IRI-POI, the IRI-TF plays the role of the "ADMF" as defined in the ETSI TS 103 221-1 [7] reference model (clause 4.2), and the triggered IRI-POI plays the role of the "NE".

In case the IRI-TF receives from the triggered IRI-POI an error in the answer to a triggering message, the IRI-TF shall send a ReportTaskIssue message to the LIPF. In such case, the failure of LI shall not impact the target's or other users' services.

Unless otherwise specified, an IRI-TF shall set the Product ID field in any ActivateTask or ModifyTask message issued to a triggered IRI-POI (see ETSI TS 103 221-1 [7] clause 6.2.1.2). The IRI-TF shall set the Product ID to the XID of the Task object associated with the interception at the IRI-TF in order to allow correlation of LI product at the MDF2.

Unless otherwise specified, the TF shall include the MDF2 as the X2 delivery destination in the trigger sent using the ActivateTask/ModifyTask with "X2Only".

When the IRI-TF determines that it is required to remove a Task at a particular IRI-POI (e.g. having detected the end of a session) it shall send a DeactivateTask message for the relevant Task to that IRI-POI, unless the Task has already been removed by other means (e.g. by the use of the ImplicitDeactivationAllowed flag, see ETSI TS 103 221-1 [7] clause 6.2.12).

When the IRI-TF receives a DeactivateTask message or ModifyTask message from the LIPF, the IRI-TF shall send DeactivateTask or ModifyTask messages to all applicable triggered IRI-POIs for all tasks associated to the Task object in the message from the LIPF.

When the IRI-TF reports the status of a Task via a GetTaskDetailsResponse or GetAllDetailsResponse, the IRI-TF shall also report the details of each 'delegated' Task that the IRI-TF is maintaining at an IRI-POI as a result of that Task. The details are given using the DelegatedTaskStatus structure described in Table 5.2.5-X below, which is placed in the TaskStatusExtensions element of the TaskStatus structure in the response (see ETSI TS 103 221-1 [7] clause 6.4.2.2).

Table 5.2.5-X: DelegatedTaskStatus definition

|  |  |  |
| --- | --- | --- |
| ETSI TS 103 221-1 field name | Description | M/C/O |
| ListOfDelegatedTasks | List of DelegatedTask structures (see Table 5.2.5-Y) | M |

Table 5.2.5-Y: DelegatedTask definition

|  |  |  |
| --- | --- | --- |
| ETSI TS 103 221-1 field name | Description | M/C/O |
| NEID | NE Identifier of the triggered POI (see ETSI TS 103 221-1 [7] clause 6.1 where the TF is maintaining the relevant Task. | M |
| TaskDetails | Contains a copy of the relevant Task, as maintained by the TF at the triggered POI. | M |
| TaskStatus | Copy of the last TaskStatus information received from the triggered POI regarding the relevant Task, if available. | C |
| LastTaskStatusTime | Time at which the TaskStatus information was received. Shall be present if TaskStatus is supplied. | C |

5.2.6 Usage for realising LI\_T3

For the purposes of realising LI\_T3 between a CC-TF and a triggered CC-POI, the CC-TF plays the role of the "ADMF" as defined in the ETSI TS 103 221-1 [7] reference model (clause 4.2), and the triggered CC-POI plays the role of the "NE".

In case the CC-TF receives from the triggered CC-POI an error in the answer to a triggering message, the CC-TF shall send a ReportTaskIssue message to the LIPF. In such case, the failure of LI shall not impact the target's or other users' services.

Unless otherwise specified, a CC-TF shall set the Product ID field in any ActivateTask or ModifyTask message issued to a triggered CC-POI (see ETSI TS 103 221-1 [7] clause 6.2.1.2). The CC-TF shall set the Product ID to the XID of the Task object associated with the interception at the CC-TF in order to allow correlation of LI product at the MDF3.

Unless otherwise specified, the TF shall include MDF3 as the X3 delivery destination in the trigger sent using the ActivateTask/ModifyTask with "X3Only".

When the CC-TF determines that it is required to remove a Task at a particular CC-POI (e.g. having detected the end of a session) it shall send a DeactivateTask message for the relevant Task to that CC-POI, unless the Task has already been removed by other means (e.g. by the use of the ImplicitDeactivationAllowed flag, see ETSI TS 103 221-1 [7] clause 6.2.12).

When the CC-TF receives a DeactivateTask message or ModifyTask message from the LIPF, the CC-TF shall send DeactivateTask or ModifyTask messages to all applicable triggered CC-POIs for all tasks associated to the Task object in the message from the LIPF.

When the CC-TF reports the status of a Task via a GetTaskDetailsResponse or GetAllDetailsResponse, the CC-TF shall also report the details of each 'delegated' Task that the CC-TF is maintaining at an CC-POI as a result of that Task, using the mechanism described in clause 5.2.5.

SECOND CHANGE

(urn\_3GPP\_ns\_li\_3GPPX1Extensions.xsd)

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

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"

xmlns="urn:3GPP:ns:li:3GPPX1Extensions:r18:v2"

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

xmlns:x1="http://uri.etsi.org/03221/X1/2017/10"

targetNamespace="urn:3GPP:ns:li:3GPPX1Extensions:r18:v2"

elementFormDefault="qualified">

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<xs:import namespace="http://uri.etsi.org/03221/X1/2017/10"/>

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</xs:sequence>

</xs:complexType>

<xs:complexType name="PTCLIX1TargetIdentifier">

<xs:choice>

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<xs:element name="InstanceIdentifierURN" type="InstanceIdentifierURN"></xs:element>

<xs:element name="PTCChatGroupID" type="PTCChatGroupID"></xs:element>

</xs:choice>

</xs:complexType>

<xs:simpleType name="MCPTTID">

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</xs:simpleType>

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<xs:restriction base="xs:anyURI"></xs:restriction>

</xs:simpleType>

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<xs:complexType name="ECX1TargetIdentifierExtensions">

<xs:sequence>

<xs:element name="EECID" type="EECID"></xs:element>

</xs:sequence>

</xs:complexType>

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<xs:restriction base="xs:string"/>

</xs:simpleType>

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<xs:element name="UPFLIT3TargetIdentifier" type="UPFLIT3TargetIdentifier" minOccurs="1" maxOccurs="unbounded"></xs:element>

</xs:sequence>

</xs:complexType>

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<xs:element name="FSEID" type="FSEID"></xs:element>

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<xs:element name="QERID" type="xs:unsignedInt"></xs:element>

<xs:element name="NetworkInstance" type="xs:hexBinary"></xs:element>

<xs:element name="GTPTunnelDirection" type="GTPTunnelDirection"></xs:element>

<xs:element name="FTEID" type="FTEID"></xs:element>

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<xs:element name="HeaderReporting" type="PDHRReportingExtensions"></xs:element>

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<xs:element name="AltitudeAccuracy" type="NumberWithQOSClass" minOccurs="0"></xs:element>

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END OF CHANGES