**3GPP SA3LI#85e-a *S3i22011***

**eMeeting, 25 -29 April 2022**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.128** | **CR** | **0336** | **rev** | 1 | **Current version:** | **17.4.0** |  |
|  |
| *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)*.* |
|  |

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

|  |
| --- |
|  |
| ***Title:***  | Inconsistent use of the terms “identity” and “identifier” in context with the topic “identifier association” |
|  |  |
| ***Source to WG:*** | SA3-LI (ZITiS) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI17 |  | ***Date:*** | 2022-04-21 |
|  |  |  |  |  |
| ***Category:*** | D |  | ***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 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 context with the topic “identifier association” the term “identifer” shall be used consistently. |
|  |  |
| ***Summary of change:*** | In context with “identifier association” always “identifier” instead of “identity” shall be used. |
|  |  |
| ***Consequences if not approved:*** | Inconsistent terminology might create avoidable confusions. |
|  |  |
| ***Clauses affected:*** | 5.2.7, 5.7.2.1, 5.7.2.2, 5.7.2.3, 5.8.2, 5.8.3, Annex E |
|  |  |
|  | **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 \*\*\*

### 5.2.7 Usage for realising LI\_XEM1

For the purposes of realising LI\_XEM1 between the LIPF and an IEF, the LIPF plays the role of the ADMF as defined in ETSI TS 103 221-1 [7] reference model (clause 4.2), and the IEF plays the role of the NE.

The IEF shall be enabled by sending the following ActivateTask message from the LIPF.

Table 5.2.7-1: ActivateTask message for activating an IEF

|  |  |  |
| --- | --- | --- |
| ETSI TS 103 221-1 field name | Description | M/C/O |
| XID | Shall be set to a value assigned by the LIPF. | M |
| TargetIdentifiers | Shall contain a single Target Identifier of type "IdentityAssociation" (see table 5.2.7-2) | M |
| DeliveryType | Set to "X2Only". | M |
| ListOfDIDs | Shall give the DID of the delivery endpoint of the ICF(s) to which identifier association events should be delivered. These delivery endpoints are configured using the CreateDestination message as described in ETSI TS 103 221-1 [7] clause 6.3.1 prior to the task activation. | M |

The following Target Identifier Type is defined for the use of LI\_XEM1. Unless otherwise specified, use of any other Target Identifier Type (including adding a target identifier more than once) shall result in the ActivateTask message being rejected with the appropriate error.

Table 5.2.7-2: Target Identifier Type for LI\_XEM1

|  |  |  |
| --- | --- | --- |
| Identifier type | ETSI TS 103 221-1 [7] TargetIdentifier type | Definition |
| IdentityAssociationTargetIdentifier | TargetIdentifierExtension / IdentityAssociationTargetIdentifier | Empty tag (see XSD schema) |

The IEF may be reconfigured to send identifier associations to a different ICF using a ModifyTask message to modify the delivery destinations.

The IEF shall be disabled by sending the following DeactivateTask message from the LIPF.

Table 5.2.7-3: DeactivateTask message for de-activating an IEF

|  |  |  |
| --- | --- | --- |
| ETSI TS 103 221-1 field name | Description | M/C/O |
| XID | Shall be set to the value assigned by the LIPF | M |

The LIPF should send one ActivateTask command to each IEF.

NOTE: The IEF may receive multiple ActivateTask messages conforming to Table 5.2.7-1, each of which can be independently deactivated. The IEF shall remain active as long as at least one valid task remains active.

##### \*\*\* End of First Change \*\*\*

##### \*\*\* Second Change \*\*\*

#### 5.7.2.1 Request structure

LI\_HIQR requests are represented by issuing a CREATE request for an LDTaskObject (see ETSI TS 103 120 [6] clause 8.3), populated as follows:

Table 5.7.2-1: LDTaskObject representation of LI\_HIQR request

|  |  |  |
| --- | --- | --- |
| Field | Value | M/C/O |
| Reference | Reference to the authorization under which the request is made. The format of this field, and any procedures for allocating or validating it, are for national agreement. | M |
| DesiredStatus | Shall be set to "AwaitingDisclosure". | M |
| RequestDetails | Set according to table 5.7.2-2 below. | M |
| DeliveryDetails | Shall be set to indicate the delivery destination for the LI\_HIQR records (see clause 5.7.2.3 and ETSI TS 103 120 [6] clause 8.3.6.2) unless the delivery destination is known via other means. | C |

The use of any other LDTaskObject parameter is outside the scope of the present document.

Table 5.7.2-2: RequestDetails structure

|  |  |  |
| --- | --- | --- |
| Field | Value | M/C/O |
| Type | Shall be set to one of the RequestType values as defined in Table 5.7.2-3. | M |
| ObservedTime | When the RequestValues provides a temporary identifier, this field shall be set to the observation time of that temporary identifier.When the RequestValues provides a permanent identifier, this is the time at which the LEA requires that the permanent to temporary association is applicable.Shall not be present for requests of type "OngoingIdentityAssociation". | C |
| RequestValues | Set to the target identifier plus additional information required (see clause 5.7.2.2). | M |

NOTE: If the observed time is in the past, providing a successful query response is subject to associations still being available in the cache when the query is made to the ICF.

Table 5.7.2-3: RequestType Dictionary for LI\_HIQR

|  |  |
| --- | --- |
| Dictionary Owner | Dictionary Name |
| 3GPP | RequestType |
|  |
| Defined DictionaryEntries |
| Value | Meaning |
| IdentityAssociation | A request for a single IdentityResponseDetails response to the query provided |
| OngoingIdentityAssociation | A request for an ongoing series of IdentityResponseDetails responses matching the query provided. May only be used when the RequestValues contains a permanent identifier. The request shall be terminated by updating the LDTaskObject DesiredStatus to "Disclosed". |

Table 5.7.2-3 is formatted in accordance with ETSI TS 103 120 [6] Annex F.

##### \*\*\* End of Second Change \*\*\*

##### \*\*\* Third Change \*\*\*

#### 5.7.2.2 Request parameters

The RequestValues field shall contain one of the following:

- SUPI, given in either SUPIIMSI or SUPINAI formats as defined in ETSI TS 103 120 [6] clause C.2.

- SUCI, given as defined in Table 5.7.2-4 below.

- 5G-S-TMSI, given as defined in Table 5.7.2-4 below.

- 5G-GUTI, given as defined in Table 5.7.2-4 below.

If the RequestType is "OngoingIdentityAssociation" (see Table 5.7.2-3), SUPI is the only valid identifier type in the RequestValues field. If the RequestType is “OngoingIdentityAssociation” and any other identifier type is provided, the IQF shall signal the error by setting the LDTaskObject Status to "Invalid" (see TS 103 120 [6] clause 8.3.3).

If a temporary identifier is provided, the following shall also be present as RequestValues:

- NRCellIdentity, given as defined in table 5.7.2-4 below.

- TrackingAreaCode, given as defined in table 5.7.2-4 below.

The following RequestValue FormatTypes (see ETSI TS 103 120 [6] clause 8.3.5.4) are defined (which are not otherwise defined elsewhere).

Table 5.7.2-4: RequestValue FormatType extensions for LI\_HIQR Requests

| Format Owner | Format Name | Description | Format |
| --- | --- | --- | --- |
| 3GPP | SUCI | Subscription Concealed Identifier as per TS 23.003 [19] clause 2.2B. | TS 29.509 [45] clause 6.1.6.3.2 |
| 3GPP | 5GSTMSI | Shortened form of the 5G-GUTI as defined in TS 23.003 [19] clause 2.11. Given as a hyphen-separated concatenation of:- The string "5gstmsi".- The AMF Set ID given as three hexadecimal digits (10 bits).- The AMF Pointer given as two hexadecimal digits (6 bits).- The 5G-TMSI given as eight hexadecimal digits (32 bits) | Matches regular expression:^(5gstmsi-([0-3][0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f])-([0-9A-Fa-f]{8}))$ |
| 3GPP | 5GGUTI | As defined in TS 23.003 [19] clause 2.10. Given as a hyphen separated concatenation of:- The string "5gguti".- MCC given as a three decimal digits.- MNC given as a two or three digit decimal digits- AMF Region ID given as two hexadecimal digits (8 bits).- The AMF Set ID, AMF Pointer and 5G-TMSI as defined above in 5GSTMSI | Matches regular expression:^(5gguti-([0-9]{3})-([0-9]{2,3})-([0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f])-([0-9A-Fa-f]{8}))$ |
| 3GPP | NRCellIdentity | NR Cell ID (NCI), as defined in TS 23.003 [19] clause 19.6A | TS 29.571 [17] clause 5.4.2 |
| 3GPP | TrackingAreaCode | Tracking area code as defined in TS 23.003 [19] clause 19.4.2.3 | TS 29.571 [17] clause 5.4.2 |

##### \*\*\* End of Third Change \*\*\*

##### \*\*\* Fourth Change \*\*\*

#### 5.7.2.3 Response structure

The LI\_HIQR request is used to generate a request to the ICF over LI\_XQR (see clause 5.8). The response received over LI\_XQR is then transformed into an LI\_HIQR response.

LI\_HIQR responses and updates are represented as XML following the IdentityResponseDetails type definition (see Annex E).

Responses and updates are delivered within a DELIVER request (see ETSI TS 103 120 [6] clause 6.4.10) containing a DELIVERY object (see ETSI TS 103 120 [6] clause 10).

IdentityResponseDetails contain IdentityAssociation records. The fields of each IdentityAssociationRecord shall be set as follows.

Table 5.7.2-5: IdentityAssociationRecord

|  |  |  |
| --- | --- | --- |
| Field | Value | M/C/O |
| SUPI | SUPI associated with the provided identifier. | M |
| SUCI | SUCI associated with the provided identifier, if available. | C |
| 5G-GUTI | 5G GUTI associated with the provided identifier, provided in the form given in the request (see Table 5.7.2-4). | M |
| PEI | PEI associated with the provided identifier during the association period, if known | C |
| AssociationStartTime | The time that the association between the SUPI and the temporary identifier became valid. (See NOTE). | M |
| AssociationEndTime | The time that the association between the SUPI and the temporary identifier ceased to be valid. Shall be omitted if the association is still valid (see NOTE). | C |
| FiveGSTAIList | List of tracking areas associated with the registration area within which the UE was or is registered in the lifetime of the reported association, if available. See clause 7.6.2.4 for details. | C |
| NOTE: The AssociationStartTime and AssociationEndTime represent the lifespan of the SUPI to 5G-GUTI association. When a SUCI is present, the AssociationStartTime also represents the time of the SUCI's validity. |

If no association is found which matches the criteria provided in the LI\_XQR request, then the LI\_XQR response contains zero IdentityAssocationRecords. Similarly, the LI\_HIQR response contains zero IdentityAssociationRecords.

For responses or updates providing a currently valid SUPI to 5G-GUTI identifier association, the AssociationEndTime shall be absent. The AssociationStartTime shall indicate when the 5G-GUTI became associated with the SUPI. The SUCI field shall be populated if it was present in the IEF record for the association (see clause 6.2.2A.2.1). The PEI and TAI List fields may be populated as well, see clause 7.6.2.4 for details.

In the case of ongoing updates, the presence of the AssociationEndTime indicates the SUPI to 5G-GUTI identifier disassociation. Such updates shall only happen when no new association is replacing the outgoing one.

The DeliveryObject Reference field (see ETSI TS 103 120 [6] clause 10.2.1) shall be set to the Reference of the LDTaskObject used in the request, to provide correlation between request and response. The DeliveryID, SequenceNumber and LastSequence fields shall be set according to ETSI TS 103 120 [6] clause 10.2.1.

The content manifest (see ETSI TS 103 120 [6] clause 10.2.2) shall be set to indicate the present document, using the following Specification Dictionary extension.

Table 5.7.2-6: Specification Dictionary

|  |  |
| --- | --- |
| Dictionary Owner | Dictionary Name |
| 3GPP | ManifestSpecification. |
|  |
| Defined DictionaryEntries |
| Value | Meaning |
| LIHIQRResponse | The delivery contains IdentityResponseDetails (see Annex E) |

##### \*\*\* End of Fourth Change \*\*\*

##### \*\*\* Fifth Change \*\*\*

### 5.8.2 Identifier association requests

For requests with RequestType "IdentityAssociation" (see Table 5.7.2-3), the IQF issues an IdentityAssociationRequest message populated with a RequestDetails structure as follows.

Table 5.8-1: RequestDetails structure for LI\_XQR

|  |  |  |
| --- | --- | --- |
| ETSI TS 103 221-1 [7] field name | Description | M/C/O |
| Type | Shall be set to the RequestType value "IdentityAssociation" as defined in Table 5.7.2-3. | M |
| ObservedTime | Observation time as provided over LI\_HIQR (see clause 5.7.2) | M |
| RequestValues | Set to the target identifier plus additional information specified in the LI\_HIQR request (see clause 5.7.2) | M |

Successful LI\_XQR responses are returned using the IdentityAssociationResponse message. Error conditions are reported using the normal error reporting mechanisms described in TS 103 221-1 [7].

LI\_XQR query responses are represented in XML following the IdentityAssociationResponse schema (see Annex E). The fields of the IdentityAssociationResponse record shall be populated as described in Table 5.7.2-5.

##### \*\*\* End of Fifth Change \*\*\*

##### \*\*\* Sixth Change \*\*\*

### 5.8.3 Ongoing identifier association requests

For requests with RequestType "OngoingIdentityAssociation", the IQF shall activate a request for ongoing updates at the ICF by sending it an ActivateAssociationUpdates message populated as follows:

Table 5.8-2: ActivateAssociationUpdates message for LI\_XQR

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| OngoingAssociationTaskID | Unique identifier for this request allocated by the IQF | M |
| SUPI | Permanent identifier for which ongoing identifier association updates shall be issued. | M |

The ICF shall acknowledge the receipt of the ActivateAssociationUpdates message by responding with an ActivateAssociationUpdatesAcknowledgement response (see Annex E) containing an IdentityAssociationRecord representing the association active at the time the ICF receives the ActivateAssociationUpdates message. If no such active association exists, the ActivateAssociationUpdatesAcknowledgement response shall not contain an IdentityAssociationRecord. Error conditions are reported using the normal error reporting mechanisms described in ETSI TS 103 221-1 [7].

When a request with RequestType "OngoingIdentityAssociation" is terminated over LI\_HIQR (see Table 5.7.2-3), the IQF shall issue a DeactivateAssociationUpdates message (see Annex E) with the appropriate OngoingAssociationTaskID populated. On termination of the request, the ICF shall respond with a DeactivateAssociationUpdatesAcknowledgement message.

While a request with RequestType "OngoingIdentityAssociation" is active, the ICF shall generate an IdentityAssociationUpdate message every time the ICF receives an IEFAssociationRecord or IEFDeassociationRecord over LI\_IEF for the relevant identifier. The message shall contain an IdentityAssociationRecord as described in Table 5.7.2-5, and the relevant OngoingAssociationTaskID. The IdentityAssociationUpdate message is sent to the IQF over LI\_XQR with the ICF becoming the "requester" as defined in ETSI TS 103 221-1 [7] clause 4.2. The IQF shall respond with an IdentityAssociationUpdateAcknowledgement message.

##### \*\*\* End of Sixth Change \*\*\*

##### \*\*\* Seventh Change \*\*\*

Annex E (normative):
XSD Schema for Identifier Association

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

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

 xmlns="urn:3GPP:ns:li:3GPPIdentityExtensions:r17:v3"

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

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

 targetNamespace="urn:3GPP:ns:li:3GPPIdentityExtensions:r17:v3"

 elementFormDefault="qualified">

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

 <xs:import namespace="http://uri.etsi.org/03280/common/2017/07"/>

 <xs:complexType name="IdentityAssociationRequest">

 <xs:complexContent>

 <xs:extension base="x1:X1RequestMessage">

 <xs:sequence>

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

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="RequestDetails">

 <xs:sequence>

 <xs:element name="Type" type="DictionaryEntry"/>

 <xs:element name="ObservedTime" type="common:QualifiedDateTime"/>

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

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="RequestValues">

 <xs:sequence>

 <xs:element name="RequestValue" type="RequestValue" maxOccurs="unbounded"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="RequestValue">

 <xs:sequence>

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

 <xs:element name="Value" type="common:LongString"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="FormatType">

 <xs:sequence>

 <xs:element name="FormatOwner" type="common:ShortString"/>

 <xs:element name="FormatName" type="common:ShortString"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="DictionaryEntry">

 <xs:sequence>

 <xs:element name="Owner" type="common:ShortString"/>

 <xs:element name="Name" type="common:ShortString"/>

 <xs:element name="Value" type="common:ShortString"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="IdentityAssociationResponse">

 <xs:complexContent>

 <xs:extension base="x1:X1ResponseMessage">

 <xs:sequence>

 <xs:element name="ResponseDetails" type="IdentityResponseDetails"/>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

<xs:element name="LIHIQRResponse" type="IdentityResponseDetails"/>

<xs:complexType name="IdentityResponseDetails">

 <xs:sequence>

 <xs:element name="Associations" type="IdentityAssociationRecords"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="IdentityAssociationRecords">

 <xs:sequence>

 <xs:element name="IdentityAssociationRecord" type="IdentityAssociationRecord" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="IdentityAssociationRecord">

 <xs:sequence>

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

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

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

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

 <xs:element name="AssociationStartTime" type="common:QualifiedMicrosecondDateTime"/>

 <xs:element name="AssociationEndTime" type="common:QualifiedMicrosecondDateTime" minOccurs="0"/>

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

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

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="SUPI">

 <xs:choice>

 <xs:element name="SUPIIMSI" type="common:SUPIIMSI"/>

 <xs:element name="SUPINAI" type="common:SUPINAI"/>

 </xs:choice>

 </xs:complexType>

 <xs:simpleType name="SUCI">

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

 </xs:simpleType>

 <xs:simpleType name="FiveGGUTI">

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

 </xs:simpleType>

 <xs:complexType name="PEI">

 <xs:choice>

 <xs:element name="PEIIMEI" type="common:PEIIMEI"/>

 <xs:element name="PEIIMEISV" type="common:PEIIMEISV"/>

 <xs:element name="PEIMAC" type="common:MACAddress"/>

 </xs:choice>

 </xs:complexType>

 <xs:complexType name="FiveGSTAIList">

 <xs:sequence>

 <xs:element name="FiveGSTAI" type="FiveGSTAI" maxOccurs="unbounded"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="FiveGSTAI">

 <xs:sequence>

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

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

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

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

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="GPSI">

 <xs:choice>

 <xs:element name="GPSIMSISDN" type="common:GPSIMSISDN"/>

 <xs:element name="GPSINAI" type="common:GPSINAI"/>

 </xs:choice>

 </xs:complexType>

 <xs:simpleType name="MCC">

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

 <xs:pattern value="[0-9]{3}"></xs:pattern>

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name="MNC">

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

 <xs:pattern value="[0-9]{2,3}"></xs:pattern>

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name="TAC">

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

 <xs:pattern value="([A-Fa-f0-9]{2}){2,3}"></xs:pattern>

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name="NID">

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

 <xs:pattern value="[A-Fa-f0-9]{11}"></xs:pattern>

 </xs:restriction>

 </xs:simpleType>

 <xs:complexType name="ActivateAssociationUpdates">

 <xs:complexContent>

 <xs:extension base="x1:X1RequestMessage">

 <xs:sequence>

 <xs:element name="OngoingAssociationTaskID" type="common:UUID"></xs:element>

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

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="ActivateAssociationUpdatesAcknowledgement">

 <xs:complexContent>

 <xs:extension base="x1:X1ResponseMessage">

 <xs:sequence>

 <xs:element name="oK" type="x1:OKAckAndComplete"/>

 <xs:element name="CurrentAssociations" type="IdentityResponseDetails"></xs:element>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="DeactivateAssociationUpdates">

 <xs:complexContent>

 <xs:extension base="x1:X1RequestMessage">

 <xs:sequence>

 <xs:element name="OngoingAssociationTaskID" type="common:UUID"></xs:element>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="DeactivateAssociationUpdatesAcknowledgement">

 <xs:complexContent>

 <xs:extension base="x1:X1ResponseMessage">

 <xs:sequence>

 <xs:element name="oK" type="x1:OKAckAndComplete"/>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="IdentityAssociationUpdate">

 <xs:complexContent>

 <xs:extension base="x1:X1RequestMessage">

 <xs:sequence>

 <xs:element name="OngoingAssociationTaskID" type="common:UUID"/>

 <xs:element name="UpdateDetails" type="IdentityResponseDetails"/>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

 <xs:complexType name="IdentityAssociationUpdateAcknowledgement">

 <xs:complexContent>

 <xs:extension base="x1:X1ResponseMessage">

 <xs:sequence>

 <xs:element name="oK" type="x1:OKAckAndComplete"/>

 </xs:sequence>

 </xs:extension>

 </xs:complexContent>

 </xs:complexType>

</xs:schema>

##### \*\*\* End of Seventh Change \*\*\*

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