**3GPP TSG-CT WG1 Meeting #125-eC1-206xxx**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.174** | **CR** | **0015** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | MuDe Identity activation status indication via Ut interface | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Orange | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MuDe | | | | |  | ***Date:*** | | | 2020-10-08 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | According to additional stage 1 requirements for Multi-device and Multi-Identity service, agreed for Rel-17, the 3GPP system shall support a mechanism for a user to set user preferences to indicate which identities are active. Therefore, it is proposed to enchance the specification by enabling the user the possibility to indicate which identities it is allowed to use shall be active and which shall be inactive. Deactivating the identity on given UE means that the user cannot use the identity to initiate comminication, as well as it cannot be reached using this identity.  It is needed that the network gets informed about the user preferences regarding activation status of the identities, and about the potential changes of this status. This CR proposes that the Ut interface is used for this purpose.  3GPP TS 24.174 contains already the definition of XML schema for service configuration for multi-device and multi-identity. For MiD, it contains the element for shared identities that the subscriber of MiD service can use, together with their activation status, which can be modified.  However, it misses analogous element for MuD service related to the native identities that can be used on the federated UEs. Therefore, it is also proposed to add such an element into the XML schema, so that it is usabe in MuD case as well. | | | | | | | | |
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| ***Summary of change:*** | | This CR introduces the possibility for a user of both MuD and/or MiD services to provide the network with the preferences of the user regarding which identities it wants to be activated/deactivated over the Ut interface using the XML schema for service configuration for multi-device and multi-identity. | | | | | | | | |
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| ***Consequences if not approved:*** | | Additional Stage 1 requirement defined for Rel-17 for Multi-device and Multi-Identity service is not fulfilled. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.5.2, 4.8.1, 4.8.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

### 4.5.2 Activation/deactivation

The MuD and MiD services are activated at provisioning and deactivated at withdrawal or at the user’s request.

The user of MuD, MiD or both services decides which of the identities that it is allowed to use and can be registered are active and can be used for incoming and outgoing calls by changing the "Activated" attribute in the <Registration-identity> elements in the service configuration data.

The user of MiD service decides which of the identities that have been allowed to be used for the user but cannot be registered are active and can be used for incoming and outgoing calls by changing the "Activated" attribute in the <Shared-identity> elements in the service configuration data.

The user decides if it permits another user to use its native identity. The user decides which users among those who have been allowed to use its identity, can use this identity for incoming and outgoing calls by changing the "Activated" attribute in the <Delagated-user> elements in the service configuration data.

Editor’s Note: [WI: MuDe, CR#0015] It is ffs, whether the user of MuD service can modify the activation status of the identity from one of its devices on another.

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

### 4.8.1 General

The multi-device and multi-identity document is a subtree of the *simservs* document specified in TS 24.623 [7]. As such, multi-device and multi-identity documents use the XCAP application usage in TS 24.623 [7].

**XML schema:** Implementations in compliance with the present document shall implement the XML schema that minimally includes the XML schema defined in clause 4.8.2 and the *simservs* XML schema specified in TS 24.623 [7].

The UE can only read the MuD and MiD configuration document and modify the "Activated" attribute of the <Registered-Identity>, <Shared-identity> and <Delegated-user> elements.

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

### 4.8.2 XML schema

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

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:ss="http://uri.etsi.org/ngn/params/xml/simservs/xcap"

targetNamespace="http://uri.etsi.org/ngn/params/xml/simservs/xcap"

elementFormDefault="qualified"

attributeFormDefault="unqualified" >

<xs:element name="multi-device\_multi-identity" substitutionGroup="ss:absService">

<xs:annotation>

<xs:documentation>Element describing the multi-device and multi-identity specific features for a given UE instance</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:complexContent>

<xs:extension base="ss:simservType">

<xs:sequence>

<xs:element name="ue-instance" minOccurs="1" maxOccurs="unbounded">

<xs:complexType>

<xs:sequence>

<xs:element name="ue-identity" substitutionGroup="ss:absService">

<xs:annotation>

<xs:documentation>Element identitifying the UE, containing the IMEI (with parameter "alias", i.e., user friendly name)</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:complexContent>

<xs:extension base="ss:simservType">

<xs:sequence>

<xs:element name="alias" type="ss:string" minOccurs="0" maxOccurs="1"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

<xs:element name="register-identity" substitutionGroup="ss:absService">

<xs:annotation>

<xs:documentation>Element containing the identities the UE can use, which can be registered</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:complexContent>

<xs:extension base="ss:simservType">

<xs:sequence>

<xs:element name="Registration-identity" type="ss:Registration-identityType" minOccurs="1" maxOccurs="unbounded"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

<xs:element name="multi-identity" substitutionGroup="ss:absService">

<xs:annotation>

<xs:documentation>Element describing the multi-identity specific features</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:complexContent>

<xs:extension base="ss:simservType">

<xs:sequence>

<xs:element name="Shared-identity" type="ss:Shared-identityType" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="Delegated-user" type="ss:Delegated-userType" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

<xs:complexType name="Registration-identityType">

<xs:simpleContent>

<xs:extension base="xs:anyURI">

<xs:attribute name="Activated" type="xs:boolean" default="true"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="Shared-identityType">

<xs:simpleContent>

<xs:extension base="xs:anyURI">

<xs:attribute name="Activated" type="xs:boolean" default="true"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="Delegated-userType">

<xs:simpleContent>

<xs:extension base="xs:anyURI">

<xs:attribute name="Activated" type="xs:boolean" default="true"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:schema>

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