**3GPP TSG-CT WG1 Meeting #130-eC1-213637**

**Electronic meeting, 20-28 May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.174** | **CR** | **0029** | **rev** | **1** | **Current version:** | **17.2.0** |  |
|  |
| *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:***  | Format of "identity" in <ue-instance> |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | MuDe |  | ***Date:*** | 2021-05-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Handling of the "identity" attribute of the <ue-instance> is undetermined. It is proposed in this contribution to use the format pvalue as defined in RFC 3261. This format is the same as the gr parameter used to identify a public GRUU. If this format is used, then it will be possible to use the gr-parameter to identify the different UEs in e.g. communication transfer operations. |
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| ***Summary of change:*** | Add to the semantics description the restriction that the string shall be of form pvalue. |
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| ***Consequences if not approved:*** | The above addressing usage of the "identity" parameter will not be possible. |
|  |  |
| ***Clauses affected:*** | 2, 4.8.3.1 |
|  |  |
|  | **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:*** | Rev 1: Removed the date from RFC 3261 in clause 2. |

\* \* \* First Change \* \* \* \*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.173: "IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1".

[3] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[4] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".

[5] IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".

[6] IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks".

[7] 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".

[8] IETF RFC 8946: "Personal Assertion Token (PASSporT) Extension for Diverted Calls".

[9] OMA-TS-CPM\_Message\_Storage\_Using\_RESTFul\_API-V1\_0-20181025-D: "CPM Message Store using RESTFul API, Draft Version 1.0 – 25 Oct 2018",
<http://member.openmobilealliance.org/ftp/Public_documents/COM/COM-CPM/Permanent_documents/OMA-TS-Message_Storage_Using_RESTFul_API-V1_0-20181025-D.zip>.

[10] OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C: "RESTful Network API for Network Message Storage, Candidate Version 1.0 – 28 May 2019",
<http://member.openmobilealliance.org/ftp/Public_documents/ARCH/Permanent_documents/OMA-TS-REST_NetAPI_NMS-V1_0-20190528-C.zip>.

[11] 3GPP TS 24.629: "Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".

[12] 3GPP TS 24.147: "Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[13] 3GPP TS 24.175: "Management Object (MO) for Multi-Device and Multi-Identity in IMS; Stage 3".

[14] 3GPP TS 23.003: "Numbering, addressing and identification".

[X] IETF RFC 3261: "SIP: Session Initiation Protocol".

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

#### 4.8.3.1 multi-device element

This is a root element for elements related to MuD service. This element contains one or more occurrences of <ue-instance> element.

The <ue-instance> element represents the instance of the UE. If the user of the UE is subscribed to the MuD service, there is a dedicated element per each of the devices within MuD. This element has following attributes:

* "identity" – a unique identity allowing to distinguish the UEs within the user's federated UEs. The "identity" value shall take the form of a pvalue as defined in IETF RFC 3261 [X] and can be linked with the IMS private user identity;
* "alias" – a user friendly identifier of given UE instance.

NOTE: A single <ue-instance> element exists even if the user did not subscribe to MuD service, but is using MiD service on a single UE.

Each <ue-instance> element contains one or more <Registered-identity> element, containing the identity, which can be registered by a given UE instance. The identity has an attribute associated, which indicates if the identity can be used for incoming and outgoing communication.

Each <ue-instance> element contains zero or more occurrences of <Shared-identity> element, containing the shared identity for a given UE instance. The identity has an attribute associated, which indicates if the identity can be used for incoming and outgoing communication.

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