**3GPP TSG-SA5 Meeting #156 *S5-244780***

**Maastricht, Netherlands, 19th Aug 2024 - 23rd Aug 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.620** | **CR** | **0026** | **rev** | **-** | **Current version:** | **16.0.0** |  |
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| *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 | **X** | Core Network | **X** |

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| ***Title:*** | Rel-19 CR TS 28.620 Correct Attribute properties | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2024-08-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The properties “isOrdered” and ” isUnique” for several attributes (e.g. direction, index and layerProtocolNameList) are not aligned with following guidelines in TS 32.156:  *If the property is present for attributes with a multiplicity of greater than “1”, it shall be set to either “True” or “False”. It shall not be set to “N/A”.* | | | | | | | | |
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| ***Summary of change:*** | | Update properties “isOrdered” and ” isUnique” for several attributes (e.g. direction, index and layerProtocolNameList) | | | | | | | | |
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| ***Consequences if not approved:*** | | The properties “isOrdered” and ” isUnique” for several attributes are incorrect | | | | | | | | |
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| ***Clauses affected:*** | | 6.1 | | | | | | | | |
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|  | | **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 ... | | |
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| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Change** |

# 6 UIM – Class attribute definitions

## 6.1 Attribute properties

| Attribute Name | Documentation and Allowed Values | Properties |
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| direction | Represents the flow of traffic within the LT.  allowedValues: The allowed values are:   * Client-Server: Signal flows down the LT, e.g. traffic is taken from a number of low rate clients and multiplexed into a higher rate server. * Server-Client: Signal flows up the LT. * Bidirectional; Signal flow is both Client-Server and Server-Client. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| dnPrefix | It carries the DN Prefix information or no information. See Annex C of 32.300 [2] for one usage of this attribute.  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| id | An attribute whose class name and value can be used as an RDN when naming an instance of the object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.  allowedValues: format of allowed values to be conformant with TS 32.300 [3]. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| index | Provides any relevant indexing of the LT (channel number, e.g. ‘3’)  allowedValues: N/A | type: Integer  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| layerProtocolNameList | Name(s) and additional descriptive information such as version number for the protocol(s)/layer(s) used for the associated communication link. Syntax and semantic is not specified.  allowedValues: allowed value examples: “X2AP”, “LR Optical Channel” | type: String  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: True |
| locationName | The physical location (e.g. an address) of an entity represented by a (derivative of) *ManagedElement*\_. It may contain no information to support the case where the derivative of *ManagedElement*\_ needs to represent a distributed multi-location NE.  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| ltType | The name of the specification that describes the internal construction of the LT, indicating for example that it possesses a G.805 CP but no G.805 TCP (see [11]).  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| managedElementTypeList | It is a multi-valued attribute with one or more unique elements. Thus, it may represent one ME functionality or a combination of more than one functionality.  The actual syntax and encoding of this attribute is Solution Set specific.  allowedValues:  1) The allowed values of this attribute are the names of the IOC(s) that are (a) derived/subclassed from ManagedFunction and (b) directly name-contained by ManagedElement IOC (on the first level below ManagedElement), but with the string “Function” excluded.  2) If a ManagedElement contains multiple instances of a ManagedFunction this attribute will not contain repeated values.  3) The capitalisation (usage of upper/lower case) of characters in this attribute is insignificant. Thus, the NodeB should be case insensitive when reading these values.  4) Two examples of allowed values are:   * NodeB; * HLR, VLR. | type: String  multiplicity: 1..\*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False |
| tpeType | The name of the specification that describes the construction of the TPE emphasising for example the access to the TPE and whether it is associated with a physical port directly or not (see [11]).  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| userDefinedNetworkType | Textual information indicating network type, e.g. “UTRAN”. It may contain no information if there is no appropriate network type can be used.  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| userLabel | A user-friendly (and user assignable) name of this object.  allowedValues: N/A | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| Attribute related to role |  |  |
| aEnd | The value of this attribute shall be a list of Distinguished Name of the alphabetically first instance in the Link subclass name to which this link/relation is associated (i.e., pointing to the instance of <X> as described in the definition of Link IOC in the present document).  As an example, with Link\_As\_Slf, aEnd would contain the Distinguished Name of the AsFunction instance, and the zEnd would contain the Distinguished Name of SlfFunction instance.  allowedValues:  1) For the instance whose class is defined by 3GPP, the format of the allowed values would be in conformant with that defined in TS 32.300 [3].  2) See Note1. | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False  passedById: True |
| managedBy | This relates to the role played by *ManagementSystem\_* in the relation between *ManagedSystem*\_ and *ManagedElement*\_. This attribute contains a list of the DN(s) of the related subclasses of *ManagementSystem\_* instance(s).  allowedValues: N/A | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False  passedById: True |
| managedElements | This relates to the role played by *ManagedElement*\_ in the relation between *ManagedSystem*\_ and *ManagedElement*\_. This attribute contains a list of the DN(s) of the related subclasses of *ManagedElement\_* instance(s).  allowedValues: N/A | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False  passedById: True |
| zEnd | The value of this attribute shall be a list of Distinguished Name of the alphabetically second instance in the Link subclass name to which this link/relation is associated (i.e., pointing to the instance of <Y> as described in the definition of Link IOC in the present document).  As an example, with Link\_As\_Slf, aEnd would contain the Distinguished Name of the AsFunction instance, and the zEnd would contain the Distinguished Name of SlfFunction instance.  allowedValues:  1) For the instance whose class is defined by 3GPP, the format of the allowed values would be in conformant with that defined in TS 32.300 [3].  2)See Note1. | type: DN  multiplicity: \*  isOrdered: False  isUnique: True  defaultValue: None  isNullable: False  passedById: True |
| Note 1: For the instance whose class is defined by TM Forum, the format of the allowed values would be in conformant with that defined in TM Forum MTOSI SD1-25\_objectNaming [16]. | | |

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| **End of Changes** |