**3GPP TSG-SA5 Meeting #136e *S5-211110rev1***

**25 January to 03 February 2021, E-meeting**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.541** | **CR** | **0431** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network | **x** |

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| ***Title:*** | Correction on Dynamic5QISet IOC based on LS reply from SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Intel | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNRM | | | | |  | ***Date:*** | | | 2021-01-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)*  *Rel-17 (Release 17)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Based on the following extracts of LS reply from SA2 (S5-206018) on the scope of persistency of dynamic 5QI:  *“The dynamic 5QI is similar to the pre-configured 5QI in the sense that they both require pre-configuration in the PCFs (when deployed) or in the SMFs (when PCF is not deployed). The main difference between the two is that the QoS characteristics of pre-configured 5QIs are also pre-configured in the RAN, whereas the QoS characteristics of a dynamic 5QI need to be signalled to the RAN.”*  However the Dynamic5QISet IOC does not allow the consumer to create or modify the dynamic 5QIs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct the Dynamic5QISet IOC to allow creation and modification of dynamic 5QIs by the consumers in conditions that the Dynamic5QISet IOC is contained by PCFFunction or contained by SMFFunction when PCF is not deployed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The Dynamic5QISet IOC does not allow the consumer to create and modify the dynamic 5QIs on PCF or SMF when PCF is not deployed, therefore this eventually makes the dynamic 5QIs not workable. | | | | | | | | |
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| ***Clauses affected:*** | | 5.3.76, 5.3.77, 5.93.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **1st modified section** |

### 5.3.76 FiveQICharacteristics <<dataType>>

#### 5.3.76.1 Definition

This data type specifies the 5QI value and the corresponding QoS characteristics for a 5QI.

#### 5.3.76.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| fiveQIValue | M | T | T/F (NOTE) | F | T |
| resourceType | M | T | T/F (NOTE) | F | T |
| priorityLevel | O | T | T/F (NOTE) | F | T |
| packetDelayBudget | O | T | T/F (NOTE) | F | T |
| packetErrorRate | O | T | T/F (NOTE) | F | T |
| averagingWindow | O | T | T/F (NOTE) | F | T |
| maximumDataBurstVolume | O | T | T/F (NOTE) | F | T |
| NOTE: The isWritable qualifier is "T" if the attribute 1) describes a 5QI in Configurable5QISet MOI, or 2) describes a 5QI in Dynamic5QISet MOI which is associated to PCFFunction MOI or SMFFunction MOI when the PCF is not deployed; The isWritable qualifier is "F" otherwise. | | | | | |

#### 5.3.76.3 Attribute constraints

None

#### 5.3.76.4 Notifications

The subclause 4.5 of the <<IOC>> using this <<dataType>> as one of its attributes, shall be applicable.

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| **Next modified section** |

### 5.3.77 PacketErrorRate <<dataType>>

#### 5.3.77.1 Definition

This data type specifies the Packet Error Rate of a configurable 5QI.

#### 5.3.77.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| scalar | M | T | T/F (NOTE) | F | T |
| exponent | M | T | T/F (NOTE) | F | T |
| NOTE: The isWritable qualifier is "T" if the attribute 1) describes a 5QI in Configurable5QISet MOI, or 2) describes a 5QI in Dynamic5QISet MOI which is associated to PCFFunction MOI or SMFFunction MOI when the PCF is not deployed; The isWritable qualifier is "F" otherwise. | | | | | |

#### 5.3.77.3 Attribute constraints

None

#### 5.3.77.4 Notifications

The subclause 4.5 of the <<IOC>> using this <<dataType>> as one of its attributes, shall be applicable.

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| **Next modified section** |

### 5.3.94 Dynamic5QISet

#### 5.3.94.1 Definition

This IOC specifies the dynamically assigned 5QIs including their QoS characteristics, see 3GPP TS 23.501 [2]. The instance of this IOC shall not be created or modified by the MnS consumer except the instance is associated to PCFFunction MOI or SMFFunction MOI when the PCF is not deployed.

#### 5.3.94.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| dynamic5QIs | M | T | T/F (NOTE) | F | T |
| NOTE: The isWritable qualifier is "T" if the Dynamic5QISet MOI is associated to PCFFunction MOI or SMFFunction MOI when the PCF is not deployed; The isWritable qualifier is "F" otherwise. | | | | | |

#### 5.3.94.3 Attribute constraints

None.

#### 5.3.94.4 Notifications

The common notifications defined in subclause 5.5 are valid for this IOC, without exceptions or additions.

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| **End of modified section** |