3GPP TSG SA WG5 Meeting 134-e TDoc S5-206121rev1

**electronic meeting, online, 16th - 25th November 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.291** | **CR** | **0293** | **rev** | **1** | **Current version:** | **15.7.0** |  |
|  |
| *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 |  | Core Network | **x** |

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|  |
| ***Title:***  |

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| Change map data type for presence are information Option 2 |

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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | TEI16, 5GS\_Ph1-SBI\_CH |  | ***Date:*** | 2020-11-19 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-15 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | The presenceReportingAreaInformation is defined as a map data type in TS 32.291. The presenceReportingAreaInformation should be capable to support adding, modification and deleting according TS 32.291.However, the deleting for particular attribute of a map data type might require nullable property in map data type definition according to TS 29.571. |
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| ***Summary of change:*** | Clarify that TS 32.291 allows for presenceReportingAreaInformation to send an array with empt {} to deleting value of this key in map data type. |
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| ***Consequences if not approved:*** | In regular definition of map data type, the attributes in presenceReportingAreaInformation may not supporting deleting. |
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| ***Clauses affected:*** | 6.1.6.2.2.6 |
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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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Change** |

###### 6.1.6.2.2.6 Type PDUSessionChargingInformation

Table 6.1.6.2.2.6-1: Definition of type PDUSessionChargingInformation

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| chargingId | ChargingId | OM | 0..1 | Charging identifier for correlation between different records of a single PDU session |  |
| homeProvided ChargingId | ChargingId | Oc | 0..1 | Charging identifier for correlation between H-SMF and V-SMF. |  |
| userInformation | UserInformation | OM | 0..1 | including information of user and user equipment, |  |
| userLocationinfo | UserLocation | OC | 0..1 | provides information on the location |  |
| mAPDUNon3GPPUserLocationInfo | UserLocation | OC | 0..1 | provides information on the location under the non-3GPP access for the MA PDU session | ATSSS |
| presenceReportingAreaInformation | map(PresenceInfo) | OC | 0..N | When the data type is present in response message, it includes the PRA information provisioned by the CHF, in which case the "presenceState" attribute within the PresenceInfo data type shall not be supplied. When the data type is present in request message, it’s used to report user presence reporting area status.The praId attribute within the PresenceInfo data type shall be the key of the map. The array empty {} of key can used in case of deleting value of a key in the map. |  |
| uetimeZone | TimeZone | OC | 0..1 | the UE Timezone the UE is currently located |  |
| pduSessionInformation | PDUSessionInformation | OC | 0..1 | PDU session level information, including PDU session ID, PDU type, SSC Mode, QoS, network slicing etc.It needs to be present in the request, but it is optional in the response. |  |
| unitCountInactivityTimer | DurationSec | OC | 0..1 | threshold for the time period resource idleUpon the initial interaction with the CHF, the SMF use this attribute to provide pre-configured threshold to CHF.when present in response message, it contains the threshold supplied by CHF in response of initial request to override existing threshold in SMF.It’s only present when unit count inactivity timer trigger is active. |  |
| rANSecondaryRATUsageReport | RANSecondaryRATUsageReport | OC | 0..1 | Secondary RAT usage reported from RAN.  |  |

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| **End of change** |