**3GPP TSG-CT WG4 Meeting #99eC4-204106v1**

**E-Meeting, 18th – 28th August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.518** | **CR** | **0378** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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:*** | Clarification on hSmfId in PduSessionContext transferred to target AMF | | | | | | | | | |
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| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ETSUN | | | | |  | ***Date:*** | | | 2020-08-11 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | During UE Context Transfer from source AMF to target AMF, the hSmfId attribute in PduSessionContext is not only used to indicate the H-SMF in the case of Home-Routed scenario or the SMF in the case of non-roaming scenario, but also used to indicate the SMF in the case of PDU session with I-SMF scenario. | | | | | | | | |
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| ***Summary of change:*** | | Update the description of hSmfId in PduSessionContext, to cover the case of PDU session with I-SMF. | | | | | | | | |
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| ***Consequences if not approved:*** | | It is not clear on how to carry the SMF ID in the case of PDU session with I-SMF, during UE context transfer procedure from source AMF to target AMF. | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.6.2.37 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not introduce any change to the OpenAPI file TS29518\_Nsmf\_Communication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1:  Further refine the description of hsmfId, and extend the description of other related attributes. | | | | | | | | |

*BEGIN OF CHANGES*

##### 6.1.6.2.37 Type: PduSessionContext

Table 6.1.6.2.37-1: Definition of type PduSessionContext

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| pduSessionId | PduSessionId | M | 1 | Indicates the identifier of the PDU Session. |  |
| smContextRef | Uri | M | 1 | Indicates the URI of the SM context, including the apiRoot (see clause 6.1.3.3.2 of 3GPP TS 29.502 [16]).  When present, it shall carry the URI of SM Context of:  - I-SMF, for a PDU session with I-SMF; or  - V-SMF, for HR PDU session; or  - SMF, for non-roaming PDU session without I-SMF, or LBO roaming PDU session; |  |
| sNssai | Snssai | M | 1 | Indicates the associated S-NSSAI for the PDU Session. |  |
| dnn | Dnn | M | 1 | This IE shall indicate the Data Network Name. The DNN shall be the full DNN (i.e. with both the Network Identifier and Operator Identifier) for a HR PDU session, and it should be the full DNN in LBO and non-roaming scenarios. If the Operator Identifier is absent, the serving core network operator shall be assumed. |  |
| accessType | AccessType | M | 1 | Indicates the access type of the PDU session. |  |
| additionalAccessType | AccessType | C | 0..1 | Indicates the additional access type for a MA PDU session, if the UE registers to both 3GPP access and Non-3GPP access. |  |
| allocatedEbiList | array(EbiArpMapping) | C | 1..N | This IE shall be present when at least one EBI is allocated to the PDU session.  When present, this IE shall contain the EBIs currently allocated to the PDU session. |  |
| hsmfId | NfInstanceId | C | 0..1 | When present, it shall indicate the associated :  - home SMF, for HR PDU Session, or  - SMF, for non-roaming PDU session or LBO PDU Session, regardless whether an I-SMF is involved or not. |  |
| hsmfSetId | NfSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Set ID of the home SMF or the SMF indicated by hsmfId. |  |
| hsmfServiceSetId | NfServiceSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Service Set ID of the selected PDUSession service instance of home SMF or the SMF indicated by hsmfId. |  |
| smfBinding | SbiBindingLevel | C | 0..1 | This IE shall be present if available, for a non-roaming PDU session or LBO PDU session. When present, this IE shall contain the SBI binding level of the SMF's SM context resource. |  |
| vsmfId | NfInstanceId | C | 0..1 | This IE shall be present for roaming PDU sessions. When present, it shall indicate the associated visit SMF for home-routed the PDU Session, or the SMF for the local-breakout PDU session. |  |
| vsmfSetId | NfSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Set ID of the V-SMF. |  |
| vsmfServiceSetId | NfServiceSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Service Set ID of the V-SMF's PDUSession service instance. |  |
| vsmfBinding | SbiBindingLevel | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the SBI binding level of the V-SMF's SM context resource. |  |
| ismfId | NfInstanceId | C | 0..1 | This IE shall be present if I-SMF is involved in the PDU session. When present, it shall indicate the associated I-SMF for the PDU Session. | DTSSA |
| ismfSetId | NfSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Set ID of the I-SMF. | DTSSA |
| ismfServiceSetId | NfServiceSetId | C | 0..1 | This IE shall be present, if available. When present, this IE shall contain the NF Service Set ID of the I-SMF's PDUSession service instance. | DTSSA |
| ismfBinding | SbiBindingLevel | C | 0..1 | This IE shall be present if available. When present, this IE shall contain the SBI binding level of the I-SMF's SM Context resource. | DTSSA |
| nsInstance | NsiId | C | 1 | This IE shall be present if available. When present, this IE shall Indicate Network Slice Instance for the PDU Session |  |
| smfServiceInstanceId | string | O | 0..1 | When present, this IE shall contain the serviceInstanceId of the SMF PDUSession service instance serving the SM Context, i.e. of:  - the I-SMF, for a PDU session with I-SMF;  - the V-SMF, for a HR PDU session; or  - the SMF, for a non-roaming or an LBO roaming PDU session without I-SMF.  This IE may be used by the AMF to identify PDU session contexts affected by a failure or restart of the SMF service instance (see clause 6.2 of 3GPP TS 23.527 [33]). |  |
| maPduSession | boolean | C | 0..1 | This IE shall be present if available. When present, this IE shall indicate whether it is an MA PDU session.  true: indicates the PDU session is MA PDU session;  false (default): the PDU session is not MA PDU session. |  |
| cnAssistedRanPara | CnAssistedRanPara | C | 0..1 | This IE shall be present if available.  When present, this IE shall contain the PDU Session specific parameters received from the SMF and used by the AMF to derive the Core Network assisted RAN parameters tuning. |  |

*END OF CHANGES*