**3GPP TSG-CT WG3 Meeting #127eC3-231278**

**E-meeting, 17th – 21st, April, 2023 (revision of C3-231xxx)**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **29.512** | **CR** | 1064 | **rev** | **-** | **Current version:** | **18.1.0** |  |
|  |
| *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:***  | PCF Function Clarification |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | SMPC18 |  | ***Date:*** | 2023-03-15 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | There are some new functions,e.g. network slice related data rate policy control defined, for PCF. |
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| ***Summary of change:*** | Clarify the PCF function by adding new fucntions ,e.g., Network slice related data rate policy control. |
|  |  |
| ***Consequences if not approved:*** | Some new fucntions are missed. |
|  |  |
| ***Clauses affected:*** | 4.1.3.1 |
|  |  |
|  | **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:*** | This CR does not impact the OpenAPI file. |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

#### 4.1.3.1 Policy Control Function (PCF)

The PCF is responsible for policy control decisions and flow based charging control functionalities. The PCF provides policies to the SMF, for example:

- policies for application and service data flow detection;

- gating;

- QoS;

- flow based charging;

- traffic steering control;

- usage monitoring control;

- access traffic steering, switching and steering within a MA PDU Session;

- access network information report;

- UMIC, PMIC and TSCAI input container; and

- RAN support information to the SMF.

The policy decisions made by the PCF may be based on one or more of the following:

- Information obtained from the AF, e.g. the session, media and subscriber related information;

- Information obtained from the UDR;

NOTE: For local breakout roaming, session management policy data for the UE as defined in 3GPP TS 29.519 [15] is not available in the VPLMN and V-PCF uses locally configured information according to the roaming agreement with the HPLMN operator. All interactions to the UDR in this document are subject to this restriction.

- Information obtained from the AMF, e.g. UE related and access related information;

- Information obtained from the SMF;

- Information obtained from the NWDAF;

- Information obtained from the NEF;

- Information from the CHF;

- Information from the TSCTSF or TSN AF; and

- PCF pre-configured policy context.

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