**3GPP TSG-CT WG3 Meeting #128 *C3-232xxx***

**Bratislava, Slovakia, 22nd, May. – 26th May, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **29.513** | **CR** | **0466** | **rev** | **1** | **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:***  | Complete description for the AF request on PDU session supporting HR-SBO |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | EDGE\_Ph2 |  | ***Date:*** | 2023-04-25 |
|  |  |  |  |  |
| ***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:*** | CR#0456 of CT3 127e-meeting has been agreed, and the related description for the AF request on PDU session supporting HR-SBO is not complete.Editorial: A referred clause in TS 23.501 is not included.  |
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| ***Summary of change:*** | Add the general description for AF request on PDU session supporting HR-SBO.Include the missing reference. |
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| ***Consequences if not approved:*** | Incomplete and unclear TS. |
|  |  |
| ***Clauses affected:*** | 5.5.3.1 |
|  |  |
|  | **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:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* First Change \*\*\*

#### 5.5.3.1 General

As described in 3GPP TS 23.501 [2] clause 5.6.7 and clause  5.6.16, an AF may send requests to influence SMF routing decisions and influence on N6-LAN traffic steering respectively for User Plane traffic of PDU Sessions. The AF may also provide in its request subscriptions to SMF events (e.g. UP path change).

The following cases are included in this clause:

 AF requests targeting an individual UE address: such requests are routed (by the AF or by the NEF) to an individual PCF using the BSF or by configuration as described in clause 5.5.3.2.

NOTE 1: Such requests target an on-going PDU Session. Whether the AF needs to use the NEF or not depends on local deployment.

 AF requests targeting PDU Sessions that are not identified by an UE address: For such requests the AF shall contact the NEF and the NEF stores the AF request information in the UDR. PCF(s) that have subscribed to the modification of the AF request information receive a corresponding notification from the UDR. This is described in clause 5.5.3.3.

NOTE 2: Such requests can target on-going or future PDU Sessions.

NOTE 3: The 5GC functions used in the procedures to influence SMF routing decisions are assumed to all belong to the same PLMN (HPLMN in non-roaming case or VPLMN in the case of a PDU Session in LBO mode) or to the same SNPN. The 5GC functions used in the procedures to influence on N6-LAN traffic steering are assumed to belong to the Home PLMN or Home SNPN (the AF can have an agreement with the Home PLMN), i.e. this case applies to non-roaming and Home Routed roaming scenarios.

NOTE 4: The roaming scenarios for SNPNs are not supported in this Release.

NOTE 5: AF requests invoked from an AF located in the HPLMN for home routed roaming scenario are not supported.

NOTE 6: For details of Nnef\_TrafficInfluence\_Create/Update/Delete/AppRelocationInfo service operations refer to 3GPP TS 29.522 [24].

NOTE 7: For details of the Nudr\_DataRepository\_Create/Update/Delete service operations refer to 3GPP TS 29.519 [12] and 3GPP TS 29.504 [27].

NOTE 8: For details of the Nsmf\_EventExposure\_Notify/AppRelocationInfo service operations refer to 3GPP TS 29.508 [8].

NOTE 9: For details of the Npcf\_PolicyAuthorization\_Create/Update/Delete service operations refer to 3GPP TS 29.514 [10].

NOTE 10: For details of the Npcf\_SMPolicyControl\_UpdateNotify service operation refer to 3GPP TS 29.512 [9].

NOTE 11: For details of the Nbsf\_Management\_Discovery service operation refer to 3GPP TS 29.521 [22].

 AF requests targeting PDU Sessions that support HR-SBO: when such requests are performed by the V-AF, the V-AF shall contact the V-NEF and the V-NEF stores the AF request information in the V-UDR. The procedure is described in clause 5.5.3.4.

For such requests the AF shall contact the NEF and the NEF stores the AF request information in the UDR

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