**3GPP TSG-SA5 Meeting #143-e *S5-223288rev3***

**e-meeting, 9th – 17th May 2022** Revision of S5-20xxxx

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0403** | **rev** | **1** | **Current version:** | **17.5.0** |  |
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| *For* [***HELP***](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:***  | Additional charging principles for MVNO |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | CHROAM |  | ***Date:*** | 2022-05-13 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | For the support of MVNO (with CHF) non-roaming scenario charging, the general description of the charging principles should be introduced. |
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| ***Summary of change:*** | Add the charging principles for the support of MVNO non-roaming scenario charging. |
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| ***Consequences if not approved:*** | The support of the MVNO non-roaming scenario charging is incomplete. |
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| ***Clauses affected:*** | 5.2.1.X(New) |
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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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| **First change** |

#### 5.2.1.X Additional actor (MVNO) Charging

##### 5.2.1.X.1 General

The SMF provides charging information collection and reporting per PDU session for 5G non-roaming Mobile Virtual Network Operators (MVNOs) charging, according to clause 5.5.3.10 of TS 32.240 [1].

The charging principle for local breakout roaming scenario is applied to MVNOs (owning A-CHF) charging, with the following differences on the SMF interactions with the CHF in the MNO and A-CHF in the MVNO:

- V-SMF in V-PLMN is replaced by the SMF in MNO;

- V-CHF in V-PLMN is replaced by the CHF in MNO;

- H-CHF in H-PLMN is replaced by the A-CHF in MVNO.

##### 5.2.1.X.2 CHF selection

The CHF selection by the SMF specified in the 5.1.8 is applied to the CHF selection in the MNO.

NOTE: The CHF selection in SMF for MVNO isn’t specified based on deployment options.

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| **End of change** |