**3GPP TSG-SA5 Meeting #143-e *S5-223287rev2***

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

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0402** | **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 message flow for MVNO |
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| ***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 charging, the general description and message flows should be added. |
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| ***Summary of change:*** | Add the charging message flows 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 is incomplete. |
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| ***Clauses affected:*** | 5.2.2.Y (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:*** | Implement the proposal after the clause 5.2.2.X PDU session charging for roaming in Local breakout scenario in the CR 0259 S5-222808 |
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| ***This CR's revision history:*** |  |

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| **First change** |

#### 5.2.2.Y PDU session charging for additional actor (MVNO)

##### 5.2.2.Y.1 General

The clause below describes PDU session charging for additional actor (MVNO) which is only applicable for non-roaming case.

##### 5.2.2.Y.2 Additional actor (MVNO)

The clause contains the description for the scenario of MVNO as additional actor with A-CHF.

For non-roaming scenarios, the message flows for the PDU session establishment, PDU session Modification and PDU session Release for LBO charging specified in clause 5.2.2.X could be applicable depending on the deployment scenarios for additional actor (MVNO), with the following differences:

- 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.

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| **End of change** |