**3GPP TSG-SA5 Meeting #142-e *S5-222228rev2***

**e-meeting, 4th –12th April 2022** Revision of S5-222228

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.254** | **CR** | **0** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | Addition of the 5G VN group management Charging Architecture | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GLAN\_CH | | | | |  | ***Date:*** | | | 2022-04-06 |
|  |  | | | |  | |  | | |  |
| ***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 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-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 5G LAN service charging, the general description about 5G VN group management and communication charging is introduced. The detailed 5G LAN service membership charging architecture is required. | | | | | | | | |
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| ***Summary of change:*** | | Add the description for the support of 5G LAN service membership charging architecture. | | | | | | | | |
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| ***Consequences if not approved:*** | | The support of the 5G LAN is incomplete. | | | | | | | | |
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| ***Clauses affected:*** | | Annex 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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First change** |

Annex X (normative):  
Suppot 5G VN group management charging

X.1 General

This Annex describes the NEF and CEF (with UDM) support the 5G VN group management charging which specified in clause 6.2 TS 32.240 [1].

X.2 Charging Architecture for 5G VN group management charging

### X.2.1 General

The 5G VN group management converged charging architecture including CEF based charging specified in the following clause X.2.1.1 and the NEF based charging specified in the clause 4.4.

The CEF based and NEF based charging are two different options and it’s operator’s decision on which to be used.

#### X.2.1.1 Logical Charging architecture - CEF based charging

The logical ubiquitous charging architecture and the reference points for 5G VN group management with the CEF architecture is shown in figure X.2.1-1.



Figure X.2.1.1-1: Logical ubiquitous charging architecture for 5G VN group management with the CEF architecture

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| **End of change** |