**3GPP TSG-SA5 Meeting #130-e *S5-202178rev1***

**Online, , 20th Apr 2020 - 28th Apr 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.255** | **CR** | **0215** | **rev** | **1** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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:*** | Add procedure for 5G-RG handover | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5WWC | | | | |  | ***Date:*** | | | 2020-04-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | This contribution is to add procedure for 5G-RG handover. | | | | | | | | |
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| ***Summary of change:*** | | Add procedure on 5G-RG handover. | | | | | | | | |
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| ***Consequences if not approved:*** | | 5G-RG handover is not covered by 5WWC charging scenarios in TS 32.255. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.2.16.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*** |

##### 5.2.2.16.x Handover procedure

##### 5.2.2.16.x.1 5G RG handover of a PDU Session procedure from W-5GAN access to 3GPP access

Following figure 5.2.2.16.x.1.1 describes charging when 5G-RG handover of a PDU Session procedure from W-5GAN access to 3GPP access.



Figure 5.2.2.16.x.1.1: Handover of PDU session from W-5GAN access to 3GPP access

As described in clause 7.6.2.1 in TS 23.316 [203], the handover of a PDU session from W-5GAN access to 3GPP access is as following.

* 1. The steps are described in clause 7.6.2.1 in TS 23.316 [203], 5G-RG peforms registeration via 3GPP access and PDU session establishmeng procedure.

2ch-a-c. SMF may interact with CHF with Charging Data Request [Update].

3. The step that the SMF executes the release of resources in W-5GAN access is same as step 3 as described in clause 7.6.3.1 of TS 23.316 [203].

NOTE: The access network change trigger, if enabled, applied during the PDU session establishment via the 3GPP access network before SMF executes the release of W-5GAN access resource.

##### 5.2.2.16.x.2 5G RG handover of a PDU Session procedure from 3GPP to W-5GAN access

Following figure 5.2.2.16.x.2.1 describes charging when 5G-RG handover of a PDU Session procedure from 3GPP to W-5GAN access.



Figure 52.2.16.x.2.1: Handover of a PDU Session procedure from 3GPP to W-5GAN access

As described in clause 7.6.3.2 in TS 23.316 [203], the handover of a PDU session from 3GPP access to W-5GAN access is as following.

1. The 5G-RG initiates Reigistration procedure via W-5GAN as defined in clause 7.2.1.1 of TS 23.316 [203].
2. The 5G-RG performs PDU Session Establishment procedure via W-5GAN access as described in 7.6.3.2 of TS 23.316 [203].

2ch-a-c. SMF may interact with CHF with Charging Data Request [Update].

1. The step that the SMF executes the release of resource via 3GPP access is same as step 3 as described in clause 7.6.3.2 of TS 23.316 [203].

NOTE: The access network change trigger, if enabled, applied during the PDU session establishment via the W-5GAN before SMF performs the release of 3GPP access resource.

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| **End of change** |