**3GPP TSG-SA5 Meeting #132e *S5-204230rev2***

**e-meeting 17th 28th August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **32.255** | **CR** | **0245** | **rev** | **1** | **Current version:** | **16.5.0** |  |
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| *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:*** | Align 5WWC RAT types | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
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| ***Work item code:*** | 5WWC | | | | |  | ***Date:*** | | | 2020-08-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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:*** | | SA2 WG agreed the updates regarding RAT types of wireline access types in TS 23.501 and TS 23.316. As described in clause 4.7.10 of TS 23.316, the RAT Type may allow to distinguish between Wireline, Wireline-Cable access and Wireline-BBF access.  The editor’s note remains in TS 32.255, that the access network type related content is FFS. The proposal is to use same trigger type (RAT type change) for all non-3GPP access handover cases.  This contribution is also to align the newest the changes in charging aspect as following:   * The rat type change trigger for handover procedure * The rat types of wireline access to be added. | | | | | | | | |
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| ***Summary of change:*** | | This contribution is to align the newest the changes in charging aspect as following:   * The rat type change trigger for 5WWC handover procedures * The rat types of wireline access to be added. | | | | | | | | |
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| ***Consequences if not approved:*** | | The editor’s note remains, the missalignment exists in TS 32.255. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.2.16.4.1, 5.2.2.16.4.2 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Change** |

##### 5.2.2.16.4.1 5G RG handover of a PDU Session procedure from W-5GAN access to 3GPP access

Following figure 5.2.2.16.4.1.1 describes charging when 5G-RG handover of a PDU Session procedure from W-5GAN access to 3GPP access.



Figure 5.2.2.16.4.1.1: 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.

1-2) 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]. This step occurs in case "RAT type change" triggers, if required by "immediate reporting" category. The RAT type 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. Which RAT type used is described in clause 5.3.2.3 of TS 23.501 [200].

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].

##### 5.2.2.16.4.2 5G RG handover of a PDU Session procedure from 3GPP to W-5GAN access

Following figure 5.2.2.16.4.2.1 describes charging when 5G-RG handover of a PDU Session procedure from 3GPP to W-5GAN access.



Figure 5.2.2.16.4.2.1: 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]. This step occurs in case "RAT type change" triggers, if required by "immediate reporting" category The RAT type change trigger, if enabled, applied during the PDU session establishment via the W-5GAN before SMF performs the release of 3GPP access resource. Which RAT type used is described in clause 5.3.2.3 of TS 23.501 [200].

3) 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].

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| **2nd Change** |

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| **End of change** |