**3GPP TSG-CT WG1 Meeting #133e-bisC1-22XXXX**

**E-meeting, 17-21 January 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.193** | **CR** | **0070** | **rev** | **1** | **Current version:** | **17.3.0** |  |
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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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | A/Gb mode or Iu mode Interworking for PDN leg |
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| ***Source to WG:*** | Mediatek Inc. |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | ATSSS\_Ph2 |  | ***Date:*** | 2022-01-17 |
|  |  |  |  |  |
| ***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:*** | In 24.301 6.1.4 Coordination between ESM and SM*For inter-system change from S1 mode to A/Gb mode or Iu mode, SM uses the following parameters from each active EPS bearer context:**- EPS bearer identity to map to NSAPI;…**- linked EPS bearer identity (if available) to map to linked TI;**- PDN address and APN of the default EPS bearer context to map to PDP address and APN of the default PDP context;**…**The MME performs the mapping from EPS to R99 QoS parameters according to 3GPP TS 23.401 [10], annex E.**At inter-system change from S1 mode to A/Gb mode, SM shall not activate the PDP context(s) if SM does not have the following parameters from the active EPS bearer context(s):**- LLC SAPI;**- radio priority;**- transaction identifier; and**- R99 QoS.**At inter-system change from S1 mode to Iu mode, SM shall not activate the PDP context(s) if SM does not have the following parameter from the active EPS bearer context(s):**- transaction identifier; and**- R99 QoS.*It is proposed to define the handling of an MA PDU session with PDN leg + non-3GPP leg when interRAT to 23G.- if PDN leg is mapped to PDP context(s)- the non-3GPP leg is proposed to be released, - the MA PDU session is proposed to be released.- if PDP context(s) is not activated (i.e., PDN leg is not mapped to PDP context(s))- the non-3GPP leg can be kept, - the MA PDU session is proposed to be keptIt is proposed to define the handling of an MA PDU session with only PDN leg when interRAT to 23G.- if PDN leg is mapped to PDP context(s)- the MA PDU session is proposed to be released.- if PDP context(s) is not activated (i.e., PDN leg is not mapped to PDP context(s))- the MA PDU session is proposed to be kept. |
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| ***Summary of change:*** | A/Gb mode or Iu mode Interworking for PDN leg is defined |
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| ***Consequences if not approved:*** | A/Gb mode or Iu mode Interworking for PDN leg is not defined |
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| ***Clauses affected:*** | 5.3.D (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:*** |  |

\*\*\* change \*\*\*

### 5.3.D A/Gb mode or Iu mode Interworking

Upon inter-system change from S1 mode to A/Gb mode or Iu mode, for a PDN connection which was established as a user-plane resource of an MA PDU session:

- if the SM activates a PDP context using parameters from the default EPS bearer context of the PDN connection as specified clause 6.1.4 of 3GPP TS 24.301 [10]:

- the SMF can initiate the network-requested PDU session release procedure over non-3GPP access as specified in clause 6.3.3.2 of 3GPP TS 24.501 [6] or perform a local release of the MA PDU session; and

- the UE performs a local release of the MA PDU session.

NOTE 1: If the UE receives from the network a PDU SESSION RELEASE COMMAND message which indicates to release the MA PDU session over non-3GPP access and the UE has already performed or is performing a local release of the MA PDU session, the error handling as specified in clause 6.3.3.6 of 3GPP TS 24.501 [6] is applied.

NOTE 2: If the SM does not activate a PDP context using parameters from the default EPS bearer context of the PDN connection, the SMF initiates the network-requested PDU session modification procedure as specified in clause 6.3.2.2 of 3GPP TS 24.501 [6] over non-3GPP access if the SMF decides to move the traffic of the MA PDU session to non-3GPP access, or the SMF initiates the network-requested PDU session release procedure as specified in clause 6.3.3.2 of 3GPP TS 24.501 [6] over non-3GPP access without including the Access type IE.

\*\*\* end of change \*\*\*