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

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

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **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 | | | | | | | | | |
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| ***Work item code:*** | ATSSS\_Ph2 | | | | |  | ***Date:*** | | | 2022-01-17 |
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| ***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:*** | | 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 kept  It 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 ... | | |
|  | |  | | | | | | | | |
| ***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 \*\*\*