**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** | **0069** | **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:***  | Signal deactivation of an MA PDU session with 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:*** | **F** |  | ***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:*** | For an MA PDU session with only PDN leg, it is proposed:- UE requested PDN disconnect procedure (or UE initiated detach procedure when Attached without PDN is not supported and the PDN to be deactivated is the last PDN) to release the PDN leg and the MA PDU session; or- network-requested EPS bearer context deactivation procedure for the default EPS bearer of the PDN leg (or network initiated detach procedure when Attached without PDN is not supported and the PDN to be deactivated is the last PDN) to release the PDN leg and the MA PDU session.For an MA PDU session with PDN leg + non-3GPP leg, two procedures are needed to deactivate the whole MA PDU, one is ESM(or EMM) procedure to deactivate the PDN leg and the other is 5GSM procedure to deactivate the non-3GPP leg.- 5GSM procedure to deactivate the non-3GPP leg:- UE-requested PDU session release procedure to release the non-3GPP leg; or- network-requested PDU session release procedure to release the non-3GPP leg.- ESM(or EMM) procedure to deactivate the PDN leg:- UE requested PDN disconnect procedure (or UE initiated detach procedure when Attached without PDN is not supported and the PDN to be deactivated is the last PDN) to release the PDN leg; or- network-requested EPS bearer context deactivation procedure for the default EPS bearer of the PDN leg (or network initiated detach procedure when Attached without PDN is not supported and the PDN to be deactivated is the last PDN) to release the PDN leg.When both PDN leg + non-3GPP leg are released, the MA PDU is released. Which leg to be released firstly (or two legs can be released concurrently) are upto implementation and not specified in SPEC. |
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| ***Summary of change:*** | Signal release procedure for an MA PDU with PDN leg is defined |
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| ***Consequences if not approved:*** | Signal release procedure for an MA PDU with PDN leg is not defined |
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| ***Clauses affected:*** | 5.3.B (new) |
|  |  |
|  | **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.B Release of user-plane resource(s)

In order to release an MA PDU session which has a PDN connection established as a user-plane resource:

a) to release the PDN connection established as a user-plane resource of the MA PDU session:

1) the network shall:

i) initiate the network initiated detach procedure as specified in clause 5.5.2.3 of 3GPP TS 24.301 [10] by sending the DETACH REQUEST message to the UE if EMM-REGISTERED without PDN connection is not supported by the UE and the MME and the PDN connection is the last PDN connection; or

ii) initiate the EPS bearer context deactivation procedure as specified in clause 6.4.4 of 3GPP TS 24.301 [10] by sending the DEACTIVATE EPS BEARER CONTEXT REQUEST message to the UE if EMM-REGISTERED without PDN connection is supported by the UE and the MME or the PDN connection is not the last PDN connection; or

2) the UE shall:

i) initiate the UE initiated detach procedure as specified in clause 5.5.2.2 of 3GPP TS 24.301 [10] by sending the DETACH REQUEST message to the network if EMM-REGISTERED without PDN connection is not supported by the UE and the MME and the PDN connection is the last PDN connection; or

ii) initiate the UE requested PDN disconnect procedure as specified in clause 6.5.2 of 3GPP TS 24.301 [10] by sending the PDN DISCONNECT REQUEST message to the network if EMM-REGISTERED without PDN connection is supported by the UE and the MME or the PDN connection is not the last PDN connection; and

b) to release the user-plane resources, if any, established on non-3GPP access of the MA PDU session:

1) the network shall initiate the network-requested PDU session release procedure as specified in clause 6.3.3.2 of 3GPP TS 24.501 [6] by sending the PDU SESSION RELEASE COMMAND message with the Access type IE indicating "Non-3GPP access" or without including the Access type IE to the UE; or

2) the UE shall initiate the UE-requested PDU session release procedure as specified in clause 6.4.3.2 of 3GPP TS 24.501 [6] by sending the PDU SESSION RELEASE REQUEST message to the network.

In order to release only the user plane resources established on non-3GPP access of an MA PDU session which also has a PDN connection established as a user-plane resource:

a) the network shall initiate the network-requested PDU session release procedure as specified in clause 6.3.3.2 of 3GPP TS 24.501 [6] by sending the PDU SESSION RELEASE COMMAND message with the Access type IE indicating "Non-3GPP access" or without including the Access type IE to the UE; or

b) the UE shall initiate the UE-requested PDU session release procedure as specified in clause 6.4.3.2 of 3GPP TS 24.501 [6] by sending the PDU SESSION RELEASE REQUEST message to the network.

In order to release only the PDN connection established as a user plane resource of an MA PDU session which also has user plane resources established on non-3GPP access:

a) the network shall:

1) initiate the network initiated detach procedure as specified in clause 5.5.2.3 of 3GPP TS 24.301 [10] by sending the DETACH REQUEST message to the UE if EMM-REGISTERED without PDN connection is not supported by the UE and the MME and the PDN connection is the last PDN connection; or

2) initiate the EPS bearer context deactivation procedure as specified in clause 6.4.4 of 3GPP TS 24.301 [10] by sending the DEACTIVATE EPS BEARER CONTEXT REQUEST message to the UE if EMM-REGISTERED without PDN connection is supported by the UE and the MME or the PDN connection is not the last PDN connection; or

b) the UE shall:

1) initiate the UE initiated detach procedure as specified in clause 5.5.2.2 of 3GPP TS 24.301 [10] by sending the DETACH REQUEST message to the network if EMM-REGISTERED without PDN connection is not supported by the UE and the MME and the PDN connection is the last PDN connection; or

2) initiate the UE requested PDN disconnect procedure as specified in clause 6.5.2 of 3GPP TS 24.301 [10] by sending the PDN DISCONNECT REQUEST message to the network if EMM-REGISTERED without PDN connection is supported by the UE and the MME or the PDN connection is not the last PDN connection.\*\*\* end of change \*\*\*