**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** | **0072** | **rev** | **1** | **Current version:** | **17.3.0** |  |
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| *For* [***HELP***](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 |  |

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| ***Title:***  | Abnormal handling for adding PDN leg to an MA PDU session already with non-3GPP leg |
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| ***Source to WG:*** | Mediatek Inc. |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | ATSSS\_Ph2 |  | ***Date:*** | 2022-01-18 |
|  |  |  |  |  |
| ***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:*** | It is proposed that the default EPS bearer critical parameters need to be synced with the stored PDU session parameter of the MA PDU session with non-3GPP leg, otherwise UE handling for this scenario should be defined. |
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| ***Summary of change:*** | It is proposed that UE does not accept the ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST by sending the ACTIVATE DEFAULT EPS BEARER CONTEXT REJECT and locally release the MA PDU session if critical parameters of the PDN are not synced with the parameters of non-3GPP leg |
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| ***Consequences if not approved:*** | If the PDN leg parameters are not synced with non-3GPP leg parameters, the handling is not defined. |
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| ***Clauses affected:*** | 5.3.2 |
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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 \*\*\*\*\*

### 5.3.2 UE establishing a PDN connection as a user-plane resource of an already established MA PDU session

In order to establish a PDN connection as a user-plane resource of an already established MA PDU session, the UE shall initiate the UE requested PDN connectivity procedure according to 3GPP TS 24.301 [10].

In the PDN CONNECTIVITY REQUEST message or, when applicable, in the ESM INFORMATION RESPONSE message, of the UE requested PDN connectivity procedure:

a) the UE shall set the request type to "handover" as specified in 3GPP TS 24.301 [10];

NOTE 1: According to 3GPP TS 24.301 [10], the PDU session ID of the already established MA PDU session is included in the protocol configuration options IE or the extended protocol configuration options IE of the PDN CONNECTIVITY REQUEST message with the request type "handover".

b) the UE shall set the PDN Type IE to "IPv4", "IPv6", "IPv4v6", "Ethernet" or "non-IP"; and

NOTE 2: If the UE does not support Ethernet PDN type or the Ethernet PDN type is not supported in EPC, the UE sets "non-IP" PDN type when the established MA PDU session is Ethernet PDU session type.

c) in the protocol configuration options or extended protocol configuration options IE, the UE shall include the ATSSS request PCO parameter.

Upon receipt of the ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST message of a default EPS bearer context activation procedure as a response to the PDN CONNECTIVITY REQUEST message as specified in 3GPP TS 24.301 [10], the UE shall:

a) consider that the PDN connection is established as a user-plane resource of the MA PDU session if:

1) the "PDN type value" of the PDN address IE is set to

i) "IPv4" and the stored PDU session type of the MA PDU session is set to "IPv4";

ii) "IPv6" and the stored PDU session type of the MA PDU session is set to "IPv6";

iii) "IPv4v6" and the stored PDU session type of the MA PDU session is set to "IPv4v6"; or

iv) "Ethernet" and the stored PDU session type of the MA PDU session is set to "Ethernet";

2) the PDN address in "PDN address information" of the PDN address IE is the same as the stored PDU address of the MA PDU session;

3) the stored selected SSC mode of the MA PDU session is set to "SSC mode 1";

4) the ESM cause IE is:

i) not included and there is no stored 5GSM cause of the MA PDU session;

ii) set to #50 "PDN type IPv4 only allowed" and the stored 5GSM cause of the MA PDU session is set to #50 "PDU session type IPv4 only allowed";

iii) set to #51 "PDN type IPv6 only allowed" and the stored 5GSM cause of the MA PDU session is set to #51 "PDU session type IPv6 only allowed"; or

iv) set to #52 "single address bearers only allowed" and there is no stored 5GSM cause of the MA PDU session;

5) the S-NSSAI is included by the network in the Protocol configuration options IE or Extended protocol configuration options IE and same as the stored S-NSSAI value of the MA PDU session; and

6) the APN maps to the same DNN as the stored DNN of the MA PDU session;

b) otherwise, send ACTIVATE DEFAULT EPS BEARER CONTEXT REJECT message to the network as specified in clause 6.4.1.4 of 3GPP TS 24.301 [10], perform a local release of the MA PDU session, and perform the registration procedure for mobility and periodic registration update with a REGISTRATION REQUEST message including the PDU session status IE over non-3GPP access.

Upon receipt of a PDN CONNECTIVITY REJECT message as specified in 3GPP TS 24.301 [10], the UE shall consider that the PDN connection is not established as a user-plane resource of the MA PDU session.

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