**3GPP TSG-CT WG1 Meeting #150C1-24XXXX**

**Maastricht, Netherlands, 19-23 August 2024**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.193** | **CR** | **0156** | **rev** | **1** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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:*** | Zero or one UDP packet per datagram | | | | | | | | | |
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| ***Source to WG:*** | Lenovo, OPPO | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ATSSS\_Ph3 | | | | |  | ***Date:*** | | | 2024-07-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | According to RFC 9298, the number of UDP packets in each HTTP datagram is zero or one, see below:  *UDP packets are encoded using HTTP Datagrams with the Context ID field set to zero. When the Context ID field is set to zero, the UDP Proxying Payload field contains the unmodified payload of a UDP packet (referred to as data octets in [UDP]).*  However, the text in clause 6.4.2 and clause 6.4.3 refer to the HTTP datagram payload as being a plural number of UDP packets. | | | | | | | | |
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| ***Summary of change:*** | | Text is corrected by changing "the UDP packets" to "a single UDP packet". | | | | | | | | |
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| ***Consequences if not approved:*** | | Text remains different than RFC 9298. | | | | | | | | |
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| ***Clauses affected:*** | | 6.4.2, 6.4.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* First Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.4.2 Datagram mode 1

If the MA PDU session is established by using the MPQUIC functionality as the steering functionality with transport mode as datagram mode 1, the HTTP datagram payload, shown in Figure 7 in IETF RFC 9298 [9E] shall include:

a) context ID indicating the value for datagram mode 1 as defined in table 6.1.3.2-1; and

b) a payload containing:

1) a 32-bit integer sequence number defining the transmission order of the HTTP datagram payload; and

2) a single UDP packet to be transmitted.

Upon establishment of the MA PDU session by using the MPQUIC functionality as the steering functionality with transport mode as datagram mode 1:

a) the sequence number shall be set to zero in the first sequence of the HTTP datagram payload; and

b) if the following new HTTP datagram payload does not duplicate the previous one, the new sequence number shall be modulo (2^32) of the incremented previous sequence number by 1 for the following new HTTP datagram payload.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Next Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.4.3 Datagram mode 2

If the MA PDU session is established by using the MPQUIC functionality as the steering functionality with transport mode as datagram mode 2, the HTTP datagram payload, shown in Figure 7 in IETF RFC 9298 [9E] shall include:

a) context ID indicating the value for datagram mode 2 as defined in table 6.1.3.2-1; and

b) a payload containing a single UDP packet to be transmitted.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*