**3GPP TSG-SA4 Meeting #128 *S4-241168***

**, Korea (Republic Of), 20th - 24th of May 2024 revision of S4-241091**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  |   | **CR** | **0005** | **rev** | **1** | **Current version:** |  |  |
|  |
| *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 |  |

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| ***Title:***  | Editorial corrections of E2E delay measurements signaling |
|  |  |
| ***Source to WG:*** | Lenovo, Qualcomm Incorporated |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | 5G\_RTP |  | ***Date:*** | 2024-05-21 |
|  |  |  |  |  |
| ***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 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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | The language clarifying the dependent-extmap-ID extension attribute uses many relative terms like “this”, “that”, “other” etc. which make the specification understanding difficult and potentially ambiguous to an implementer. |
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| ***Summary of change:*** | The proposed changes reuse the already defined terms “Requester” and “Responder” to clarify the semantics of the dependent-extmap-ID relative to two RTC endpoints using it. |
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| ***Consequences if not approved:*** | Lack of clarity of dependent-extmap-ID extension attribute semantics. |
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| ***Clauses affected:*** | 4.4.6 |
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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:*** | * S4-241168 CR0005r1 – Same content as r0, corrected cover page and changes over changes revision marks.
* S4-241091 CR0005r0 – Original content agreed
 |

NEXT CHANGE

### 4.4.6 SDP signaling

(Snip)

For the RTP HE carrying T1, T2 and T3, the ABNF syntax for the "extmap" attribute is as follows:

*extensionname* = "urn:3gpp:delay-measurement-response:rel-18"

*extensionattributes* = [format SP] binding-info

format = "short"/"long"

binding-info = dependent-extmap-ID [";"m-line-label] [";"processing-ID]

dependent-extmap-ID = "dependent-extmap-ID="1\*5DIGIT

m-line-label = "dependent-rtp-he-m-line-label="token

processing-ID = "processing-ID="token

; token as defined by RFC 4566

The extension attributes have the following semantics:

- dependent-extmap-ID: identifies the Requester sent RTP HE (i.e., carrying T1) on which the Responder sent RTP HE (i.e., carrying T1, T2 and T3) depends. Timestamps T1 and T2 included in the Responder sent RTP HE are the time the Requester sent RTP HE is transmitted at and the time the Requester sent RTP HE is received at the Responder, respectively.

- processing-ID: identifies a processing module on the Responder which takes data carried in RTP packets with the RTP HE identified by dependent-extmap-ID, processes them and produces data that are then carried in RTP packets with this RTP HE.

NOTE 3: The details of processing-ID are left to implementation at the application level.

- m-line-label: is the SDP "label" attribute defined in RFC 4574 [15], and it identifies a media stream from the Requester to the Responder and associates the RTP HE in that media stream to this RTP HE.

NOTE 4: There may be multiple media streams that carry RTP packets whose RTP HEs may be used for the binding.

Below is an example (Example 2):

a=extmap:5 urn:3gpp:delay-measurement-response:rel-18 short dependent-extmap-ID=4;dependent-rtp-he-m-line-label=2;processing-ID=7

In the example,

- 5 is the RTP HE ID

- 4 is the value of the attribute dependent-extmap-ID, which is the RTP HE ID of the RTP HE in Example 1. This establishes a binding between the two RTP HEs.

- 7 is the processing-ID.

- 2 is the SDP "label" attribute that identifies the media stream corresponding to "a=label:2" in the SDP signaling, and the RTP packets from the media stream are used for the binding.

END OF CHANGES