**3GPP TSG-SA3 Meeting #119 draft\_S3-245140-r2**

Orlando, US, 11 -15 November 2024 is merger of S3-244855, S3-245074

**Title:** **Reply LS on enhancement to the protocol stack of IMS Data Channel**

**Response to: LS S3-244646/S4-241373 on enhancement to the protocol stack of IMS Data Channel from** **SA4**

**Release: Rel-18**

**Work Item:** **NG\_RTC\_SEC**

**Source: SA3**

**To: SA4**

**Cc: SA3-LI, SA2**

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**Attachments:**

# 1 Overall description

SA3 thanks SA4 for the LS on enhancement to the protocol stack of IMS Data Channel. SA3 provides the following response:

Q1: Would SA3 see any requirement of mandating the usage of IMS media plane encryption?

A1: In general, the existing specifications do not mandate the use of IMS media plane encryption but for IMS Data Channel media SA3 understands that RFC 8831 is referred by 3GPP to implement the protocol stack of IMS Data Channel media that includes DTLS.

Q2: Could you confirm that the MNO can choose whether to encrypt IMS audio and video media during the media negotiation with UE, in IMS?

A2: For the case of legacy IMS media, the MNO can choose whether to encrypt IMS audio and video media during the UE registration in IMS. For the IMS Data Channel media, a different user plane stack is used (see A1 above).

Q3: Could the MNO choose whether to encrypt DC media during the media negotiation with UE, similar to how they can choose to encrypt IMS audio and video media?

A3: SA3 understands that MNO can not choose whether to encrypt IMS Data Channel media now, because RFC 8831 is referred by 3GPP to implement the protocol stack of IMS DC that includes DTLS.

Furthermore, SA3 has discussed and found the issue that e2e communication between two UEs can not fulfil the LI requirements because the mandatory inclusion of of DTLS in IMS Data Channel media. SA3 would like to coordinate with SA4 and other relevant working groups to further study this issue.

# 2 Actions

**To SA4**

**ACTION:** SA3 kindly asks SA4 to take the above answers into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#120 17 – 21 February 2025 Athens (Greece)

SA3#121 7 – 11 April 2025 Goteborg, Sweden