**3GPP TSG-WG SA2 Meeting #143E e-meeting *S2-210XXXX***

**Elbonia, February 24 – March 09, 2021 (revision of S2-210xxxx)**

Title: [DRAFT] LS on voice service impact due to S1 mode disable

Response to:

Release: Rel-17

Work Item: Rel-17

Source: SA2

To: CT1

Cc:

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator, <mailto:3GPPLiaison@etsi.org>**

Attachments: S2-210xxxx(IMS voice over PS Session Supported Indication taking into account UE S1 mode status)

**1. Overall Description:**

SA2 has discussed relationship between IMS voice over PS session support indication and UE’s S1 mode capability for 3GPP access.

SA2 observes that, for a 5G network relying on only EPS fallback for voice service (i.e., not supporting of VoNR), once a voice centric UE disables its S1 mode (as specified in clause 4.5 of TS24.301), the UE has to try to register to other RAT(e.g., WCDMA or GSM) to ensure voice service. This would lead to an unfavourable user experience, e.g., low data rate in certain duration if 2G/3G is available, or even no voice service if 3G/2G is not available.

The corresponding CR(S2-210xxxx) is approved and attached.

**2. Actions:**

**To CT1 group.**

**ACTION:** SA2 asks CT1 group to take the above observation into account, and provide necessary optimization.

**3. Date of Next TSG SA WG2 Meetings:**

TSG-SA2 Meeting #144E April 5 – 16, 2021 Elbonia

TSG-SA2 Meeting #145E May 17 – 28, 2021 Elbonia