**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:**

Name: Heng Nie

Tel. Number:

E-mail Address: nieheng@chinatelecom.cn

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](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), a voice centric UE ensures its voice service as described in clauses 5.16.3.5 and 5.16.3.6. Hence, the UE can’t register in the either EPS or 5GS until the S1 is enable again. This may 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 attached.

**2. Actions:**

**To CT1 group.**

**ACTION:** SA2 asks CT1 group to take the above observation into account.

**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