**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: S2-2101055(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 voice centric UE can’t register in the 5GS and fallback to EPS for a certain time until the S1 is enable again. It could be worse if some operators have no 2G or 3G network.

From SA2 perspective, since there is available 5G and 4G coverage, it is favorable to make the UE to register in 5G for high speed data service and EPS fallback voice, if the UE could quickly enable S1 mode.

The corresponding CR(S2-2101055) is attached.

**2. Actions:**

**To CT1 group.**

**ACTION:** SA2 asks CT1 group to take the above observation and possible improvement 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