**3GPP SA WG2 Meeting #S2-162 S2-2405210**

**Changsha, China, 15 – 19 April 2024**

Title: 5GS missing CBC support for shared networks

Response to: -

Release: Rel-15

Work Item: 5GS\_Ph1

Source: SA2

To: CT1

Cc: RAN2, RAN3, SA1

**Contact Person:** **Shabnam Sultana**

**Shabnam.sultana@ericsson.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

Attachments: discussion S2-2404526

**1. Overall Description:**

It was brought to SA2 attention (see attached discussion) that during the introduction of 5GS architecture and MOCN network sharing support during Rel-15, SA2 did not address one specific requirement for CBC deployment in such environment.

SA2 has discussed the topic of CBC deployment in network sharing scenarios in 5GS and concluded that there is no specification of CBC deployment in network sharing scenarios for the 5GS case, while there is one for EPS in TS 23.251. Even though EPS and 5GS architectures for PWS are similar and the same problems in case of use of multiple CBCs in network sharing scenarios are equally valid for 5GS as for EPS, SA2 did not address this.

SA2 therefore recommends that the same solution as for EPS is specified for 5GS, i.e., “common CBC provided by one of the CN operators based on pre-arranged agreement / configuration”, and SA2 further recommends that such update is done in TS 23.041 ensuring that CBC related requirements are maintained in a single relevant specification.

In case of existing 2G/3G/4G 3GPP systems, network sharing (MOCN) & related CBC aspects are described in TS 23.251 clause 4.5. SA2 also requests CT1 to consider if it makes sense to include these aspects in TS 23.041 as well, in order to provide the complete description in one specification.SA2 asks CT1 to consider which release of the specification should the changes can apply from, noting that the functionality is applicable from Rel-15 onwards.

**2. Actions:**

**To CT1**

**ACTION:**

SA2 kindly asks CT1 to take SA2’s recommendations into account and update 23.041 to capture CBC deployment in 5GS network sharing scenarios.

SA2 also kindly requests CT1 to consider the other aspects above and make necessary decision.

**3. Date of Next SA2 Meetings**

SA2#163 27th - 31st May 2024 Jeju, KR

SA2#164 19th - 22nd August 2024 Maastricht, NL