**3GPP TSG-SA5 Rapporteur call *S5-22xxxx***

**e-meeting, 16 March 2022**

**Source: Ericsson AB**

**Title: Specifications needing updates for CHROAM**

**Document for: Discussion**

**Agenda Item: Roaming**

# 1 Decision/action requested

**Agree on the way forward for the architecture of roaming with local breakout.**

# 2 References

[1] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles"

[2] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)"

[3] 3GPP TS 32.291: "Telecommunication management; Charging management; 5G data connectivity domain charging; stage 2"

[4] 3GPP TS 32.298: "Telecommunication management; Charging management; Charging Data Record (CDR) parameter description"

[5] 3GPP TS 32.255: "Telecommunication management; Charging management; 5G Data connectivity domain charging; stage 2"

# 3 Rationale

There is a need to list the clauses affected by the local breakout roaming scenario.

# 4 Detailed proposal

Changes in TS 32.240 [1]

Already addressed.

Clauses affected in TS 32.290 [2]:

5.3 Converged Charging scenario: New scenarios for interacting with two CHFs.

5.4 Other functionalities: Impact on current functions as well as description of interaction with two CHFs

5.5 Error handling: Impact on error handling

7 Message contents: New handling of triggers

Clauses affected in TS 32.291 [3]

6.1 Nchf\_ ConvergedCharging Service API: New triggers and feature

7.2 Bindings for 5G data connectivity: New triggers

A.2 Nchf\_ConvergedCharging API: New triggers

Clauses affected in TS 32.298 [4]

5.2.5 Charging Function domain CDRs: New triggers

Clauses affected in TS 32.255 [5]

4.1 High-level 5G System architecture: Addition of architecture for roaming using local breakout

4.2 5G data connectivity domain converged charging architecture: Addition of the new reference point

5.1 5G data connectivity charging principles: New requirements, updating the use of QBC and handling of CHF selection

5.2 5G data connectivity converged online and offline charging scenarios: Updating the triggers, describing use of FBC and QBC, and adding new message flow.