**3GPP TSG-SA5 Meeting #141-e *S5-221484***

**e-meeting, 17 -26 January 2022**

**Source: Vodafone, Matrixx, Verizon, Telefonica, Nokia, Nokia Shanghai Bell**

**Title:** **TR 28.827, Adding Conclusions**

**Document for: Approval**

**Agenda Item: 7.5.4 FS\_CHROAM**

# 1 Decision/action requested

***Include the proposed changes in TR 28.827.***

# 2 References

[1] 3GPP TR 28.827: " Study on 5G charging for additional roaming scenarios and actors"

# 3 Rationale

 Local Breakout has been present in the standards for a long time but a solution for charging has been missing until now. The deployment of Network Slices, MEC and different use cases that need local traffic routing have created the necessity of addressing gaps for the realisation of local breakout, being TR 28.827 the document addressing the lack of a charging solution.

However, TR 28.827 finds itself at 30% completion while Rel-17 is expected to be finished Jun 2022. In order to permit deployments of local breakout to be properly realised, the authors propose to conclude a solution that can be incorporated into the Rel-17 versions of charging specifications, and proceed with normative specification before Jun 2022.

# 4 Detailed proposal

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| **First change** |

# 8 Conclusions and recommendations

Local Breakout has been present in the standards for a long time but a solution for charging has been missing until now. The deployment of Network Slices, Edge Computing and different use cases that need local traffic routing have created the necessity of addressing all the gaps for deployments of local breakout. In this TR some use cases have been covered and some solutions provided.

Considering the different solutions to the use cases, the solutions where the SMF communicates with both the vCHF and hCHF at the same point in time i.e., solutions 2.2 (Visited NF (CTF) communicating with both H-CHF and V-CHF) and 4a.1 (Additional actor has CHF and does retail charging), are preferred. This since these are the only solution that can be included in the time frame of Rel-17 and that covers the needed requirements. The focus for the specified solution will be to limit and minimize the impact on and to the CHF and SMF.

Editor’s note: Other solutions may be added depending on further study.

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| **End of changes** |