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

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

**Source: Vodafone, Matrixx, Verizon, Telefonica**

**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

|  |
| --- |
| **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, MEC 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.

Once considered the different solutions to the use cases and due to the urge of addressing a viable solution for the existing deployments, also in order to avoid increasing the complexity of the CHF and the vSMF, the use of a direct vSMF to hCHF interface is concluded as the optimal and less disruptive solution. Hence this option is recommended to be immediately captured in the specifications for the current Rel-17.

This scenario is provided as the solution 2.2 (Visited NF (CTF) communicating with both H-CHF and V-CHF) and solution 4a.1 (Additional actor has CHF and does retail charging).

|  |
| --- |
| **End of changes** |