**3GPP TSG-SA5 Meeting #139-e *S5-215172rev1***

**e-meeting, 11 - 20 October 2021**

**Source: CATT**

**Title: pCR Add evaluation and conclusion for 5G ProSe Direct Communication charging based on QoS flow**

**Document for: Approval**

**Agenda Item: 7.5.3**

# 1 Decision/action requested

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] 3GPP TR 32.846: “Study on charging aspects of Proximity-based Services in 5GS”.

# 3 Rationale

This pCR is to add evaluation and conclusion for 5G ProSe Direct Communication charging based on QoS flow.

# 4 Detailed proposal

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| **1st Modified Section** |

### 6.3.5 Evaluation

This clause evaluates the solutions for KI#3.1 as following.

- Solution #3.1 focuses on QoS flow Based Charging for ProSe Direct Communication. The 5GS provides QoS handling mechanism is defined in TS 23.304 [11] to support ProSe Direct Communication, the solution gives proposals based on the monitored QoS via PC5.

- Service authorization and provisioning mechanism could be re-used to configure 5G ProSe-enabled UE, whether the QoS flow infomation need to be reported can be configured in the usage information report.

- The report procedure and trigger could be same as direct communication charging, but with additional Qos infomation over PC5 when reporting usage information. UE may start to collect QoS information by some trigger conditions, e.g. Start/End of a QoS flow, Start/End of PC5 layer-2 link, PC5 QoS parameters change. When the UE decides that reporting criteria are met according to the pre-configuration, the UE(AMC) creates the corresponding usage information report with QoS information to CTF-ADF over PC3ch directly or via ProSe UE-to-Network Relay UE.

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| **Next Modified Section** |

### 6.3.6 Conclusion

Based on the evaluation in clause 6.3.5, **Solution #3.1** is the feasible solution for QoS flow Based Charging for ProSe Direct Communication.

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| **Next Modified Section** |