**3GPP TSG-CT WG1 Meeting #134-eC1-221653**

**E-Meeting, 17th – 25th February 2022**

**Source: China Telecom**

**Title: Pseudo-CR on Clarification on ProSe identifier for PC5 QoS rule**

**Spec: 3GPP TS 24.554 1.1.0**

**Agenda item: 17.2.18**

**Document for: Decision**

**1. Introduction**

Clarification on ProSe identifier for PC5 QoS rule

**2. Reason for Change**

The clause 5.6.1 of TS 23.304 specifies the following:

*PC5 Packet Filter Set supports three types of packet filters, i.e. the Prose IP Packet Filter Set, ProSe Ethernet Packet Filter Set, and the Prose Packet Filter Set. Each PC5 QoS Rule additionally contains the ProSe identifier when the ProSe identifier is not included in the PC5 Packet Filter Set.*

And S2-2108451 states:

*ProSe identifier is used to identify ProSe Application, it’s not the analogy to the V2X service type in V2X use case. In 5G Prose, ProSe identifiers in the QoS Info cannot enable the receiver UE to differentiate the traffic for each ProSe Application, thus cannot provide the traffic to the upper layer correctly.*

The related description in TS 24.554 should align with TS 23.304.

**3. Conclusions**

Adding ProSe identifier as an optional parameter in the PC5 QOS rule.

**4. Proposal**

It is proposed to agree the following changes to clause 7.2.7 of 3GPP TS 24.554 1.1.0.

\* \* \* First Change \* \* \* \*

### 7.2.7 PC5 QoS flow establishment over 5G ProSe direct link

In order to establish a PC5 QoS flow establishment over 5G ProSe direct link, the UE shall derive the PC5 QoS parameters based on the ProSe application requirements provided by the upper layers (if available) and the ProSe identifier(s) according to the PC5 QoS mapping rules defined in clause 5.2.4. The UE shall create the PC5 QoS flow(s) based on the derived PC5 QoS parameters. For each PC5 QoS flow to be created, the UE shall perform the following operations:

a) self-assign a PQFI;

b) create a PC5 QoS flow context, which contains:

1) the PQFI;

2) the ProSe identifier(s); and

3) the derived PC5 QoS parameters;

c) create a new PC5 QoS rule which contains:

1) a PC5 QoS rule identifier;

2) the PQFI;

3) a set of packet filters; and

4) a precedence value; and

d) pass the following parameters to the lower layers:

1) the PQFI;

2) the PC5 QoS parameters;

3) the PC5 link identifier; and

4) optionally, the source and destination layer-2 IDs.

Three types of packet filters are supported for unicast mode 5G ProSe direct communication over PC5, i.e., the ProSe IP packet filter set, the ProSe packet filter set, and the ProSe Ethernet packet filter set. A PC5 QoS Rule contains one of the following:

a) the ProSe IP packet filter set;

b) the ProSe packet filter set; or

c) the ProSe Ethernet packet filter set.

The ProSe IP packet filter set is defined as content of the packet filter contents field specified in 3GPP TS 24.501 [11] figure 9.11.4.13.4 and table 9.11.4.13.1.

The ProSe packet filter set shall support packet filters based on at least any combination of:

a) ProSe identifier;

b) the source layer-2 ID and the destination layer-2 ID; and

c) application layer ID (e.g., Station ID).

The ProSe Ethernet packet filter set is defined as content of the Ethernet packet filter set as specified in 3GPP TS 24.501 [11] figure 9.11.4.13.4 and table 9.11.4.13.1.

Each PC5 QoS rule additionally contains the ProSe identifier(s) when the ProSe identifier is not included in the PC5 packet filter set.

\* \* \* End of Changes \* \* \* \*