**3GPP TSG-CT WG4 Meeting #99C4-204249**

**E-Meeting, 18th – 28th Auguest 2020**

**Source: China Telecom**

**Title: KI on UPF Support for Multiple Network Slice Sharing**

**Spec: 3GPP TR 29.820**

**Agenda item: 5.1**

**Document for: Agreement**

**1. Introduction**

Add key issue #x in clause 5.1.

**2. Reason for Change**

This KI is to address the requirement in the following scenario:

Scenario#4: multiple UP functions are controlled by a set of CP functions, where the UP functions are shared by several network slices..

**3. Conclusions**

Add this KI to 3GPP TR 29.820.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 29.820.

\* \* \* Start of Change \* \* \* \*

5.1 Key Issue #x: UPF support for multiple network slice sharing

In 5G system, multiple network slices with different functions and performance requirement may have different control plane, by share a UPF. However,in current specifications, the S-NSSAI transmitted on the N4 interface is only used for performance measurement,, when UPF are shared by several network slices (e.g. 5GC slice and IoT slice), UPF needs to know, which slice the N4 message come from. But the current mechanism does not support this requirement.

This key issue aims at addressing following aspects for scenario 4:

1. Study how UPF can support being shared by multiple network slices.

2. Study whether any additional parameters are required during the interaction between UPF and SMF.

3. We should study the potential missing functionalities to enable an UPF to support multiple network slices.

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