**3GPP TSG-CT WG4 Meeting #99eC4-204129**

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

**Source: CATT**

**Title: Pseudo-CR on <** **Key Issue on UP function selection issue caused by CP functions come from different vendors >**

**Spec: 3GPP TR 29.820 v0.1.0**

**Agenda item: 6.1.3**

**Document for: Decision**

**1. Introduction**

As described in Scenarios 1-3 in overall requirements in 3GPP TR 29.820, interoperability issues can arise when CP functions come from different vendors. For UP function selection, as specified in subclause 6.3.3 in 3GPP TS 23.501, there are many different scenarios (e.g. scenario for centrally located UPF, distributed UPF located close to or at the Access Network site, home routed roaming, etc.) and parameters (e.g. UPF's dynamic load, UE location information, Capability of the UPF and the functionality required for the particular UE session, etc.) to be taken into account to design the UP function selection algorithms. These different UP function selection algorithms used by different vendors may cause PFCP interoperability issues e.g. load and overload issue. This pCR proposes a key issue to study UP function selection issue caused by CP functions come from different vendors.

**2. Reason for Change**

Add new Key Issue on “UP function selection issue caused by CP functions come from different vendors” to 3GPP TR 29.820

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 29.820 v0.1.0.

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

## 5.X Key Issue #X: UP function selection issue caused by CP functions come from different vendors

### 5.X.1 Description of the use case

As described in Scenarios 1-3 in overall requirements in 3GPP TR 29.820, interoperability issues can arise when CP functions come from different vendors. For UP function selection, as specified in subclause 6.3.3 in 3GPP TS 23.501, there are many different scenarios (e.g. scenario for centrally located UPF, distributed UPF located close to or at the Access Network site, home routed roaming, etc.) and parameters (e.g. UE location information, capability of the UPF and the functionality required for the particular UE session, etc.) need to be taken into account to design the UP function selection algorithm. These different UP function selection algorithms used by different vendors in CP function may cause PFCP interoperability issues e.g. load and overload issue. Therefore, solutions for consistent UP function selection mechanism when CP functions come from different vendors need to be identified.

### 5.X.2 Key issue definition

This key issue shall study solutions to:

- How to ensure the consistency of the different UP selection algorithms to prevent PFCP interoperability issues if CP functions come from different vendors.

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