**3GPP TSG-CT WG4 Meeting #99eC4-204419 rev of C4-204075**

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

**Source: Deutsche Telekom**

**Title: Pseudo-CR on Additional Requirements**

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

**Agenda item: 6.1.3**

**Document for: Decision**

**1. Introduction**

One of the objective of the WID is ” to study whether it is needed to enhance how the SMF discovers the features supported by UPFs, in particular for deployments mixing UPFs with different PFCP capabilities”

**2. Reason for Change**

With regards to the above mentioned objective use cases where multiple UP resp. CP functions not supporting the same functionality need be considered in the proposals to be analyzed. The general requirement section in 3GPP TR 29.820 is updated accordingly.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to update and agree the changes in the General Requirement section of 3GPP TR 29.820v0.1.0 as follows

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

# 4 Overall Requirements

Besides the scenarios addressed by 3GPP TS 23.214 [2] and 3GPP TS 29.244 [3], the study shall especially take following scenarios into account:

- Scenario#1: multiple UP functions are controlled by one CP function, where the UP functions are from different vendors.

- Scenario#2: one UP function is controlled by multiple CP functions, where the CP functions are from different vendors.

- Scenario#3: multiple UP functions are controlled by a set of CP functions, where the UP functions are from different vendors and the CP functions are from same vendor.

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

- Scenario#5: the UP function(s) are deployed on the customer side while the CP function(s) are deployed on the operator side.

- Scenario#6: CP function and UP function are implemented/developed as virtualized/container based NF.

The following requirements shall be considered during the study:

- Requirement#1: the study shall try to avoid multiple options which may cause interoperability issues.

- Requirement#2: the study shall identify the potential issues when the UP functions are deployed on the customer side and determine if specific extensions are required to address them.

- Requirement#3: the study may consider protocol extensions for the widely used features that are not supported by PFCP, provided the corresponding stage 2 requirements are defined, or they do not require stage 2 requirements.

- Requirement#4: For use cases where multiple CP functions not part of an NF set are considered, proposals shall take into account that each CP function may not support the same functionality.

- Requirement#5: For use cases where multiple UP functions are considered, proposals shall take into account that each UP function may not support the same functionality.

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