SA WG2 Meeting #144E (e-meeting) S2-2102880

Elbonia, 12 – 16 April, 2021

**Source: Qualcomm Incorporated**

**Title: TS 23.304 clause 4.2.x.1 on Layer-3 UE-to-Network Relay reference architecture**

**Document for: Discussion/Approval**

**Agenda Item: 8.8**

**Work Item / Release: 5G\_ProSe/Rel-17**

*Abstract of the contribution: This contribution adds the reference architecture for Layer-3 UE-to-Network Relay to TS 23.304.*

# Discussion

According to the work plan, this contribution adds the reference architecture for Layer-3 UE-to-Network Relay as clause 4.2.x.1.

# Text Proposal

It is proposed to add the following to TS 23.304.

**>>>>Start Changes<<<<**

4.2.x UE-to-Network Relay reference architecture

4.2.x.1 Layer-3 UE-to-Network Relay reference architecture

The following figure 4.2.x.1-1 show the high level reference architecture for Layer-3 UE-to-Network Relay. In this figure, the Layer-3 UE-to-Network Relay may be in the HPLMN or a VPLMN.



Figure 4.2.x.1-1: Reference architecture for Layer-3 UE-to-Network Relay

The following figure 4.2.x.1-2 show the non-roaming reference architecture for Layer-3 UE-to-Network Relay when N3IWF is supported. In this figure, the PLMN A and PLMN B may be the same or different. When the Remote UE may connect to NG-RAN directly to access PLMN B, and in that case it would take the role of UE in the figure.



Figure 4.2.x.1-2: Non-roaming architecture model for Layer-3 UE-to-Network Relay with N3IWF support

The following figure 4.2.x.1-3 show the roaming reference architecture for Layer-3 UE-to-Network Relay. In this figure, the PLMN A and PLMN C may be the same or different.



Figure 4.2.x.1-3: Roaming architecture model for Layer-3 UE-to-Network Relay with N3IWF support

**>>>>End Changes<<<<**