3GPP TSG-RAN WG3 Meeting #126 R3-247791

Orlando, USA, 18 – 22 November 2024

**Agenda item: 12.3**

**Source: Nokia, TMO US, AT&T, Verizon Wireless, BT, Charter, ZTE**

**Title: [TP for BL CR NR Femto 38.300] Introduction of Functional aspects of NR Femto architecture**

**WID/SID: FS\_WAB\_5GFemto\_NR - Release 19**

**Document for: Discussion and Decision**

# 1 Introduction

This is the TP for functional aspect to support NR Femto in release 19.

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

### 4.X.2 Functional Split

An NR Femto hosts the same functions as a gNB as described in clause 4.1, with the following additional specifics in case of connection to the NR Femto GW:

- Discovery of a suitable Serving NR Femto GW;

NOTE: The NR Femto may be configured with the identity and/or address of an appropriate NR Femto GW.

- An NR Femto shall only connect to a single NR Femto GW at one time:

- The NR Femto will not simultaneously connect to another NR Femto GW, or another AMF.

NOTE: - The TAC and PLMN ID(s) used by the NR Femto shall also be supported by the NR Femto GW;

- Selection of an AMF at UE attachment is performed by the NR Femto GW.

 - AMF selection is based on the GUAMI, if received from the UE, provided to the NR Femto GW in the INITIAL UE MESSAGE message.

- At Xn handover:

- Allowing the NR Femto GW to identify the source side termination of the source UE associated signaling connection:

- Including the *Source AMF UE NGAP ID* to the NR Femto GW in the NGAP PATH SWITCH REQUEST message.

- Allowing the NR Femto GW to identify the serving AMF at path switch:

 - Including the GUAMI of the source AMF in the PATH SWITCH REQUEST message.

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