3GPP TSG-RAN WG3 Meeting #125 R3-24xxxx

**Maastricht, NL, 19 - 23 August, 2024**

Agenda Item: 12.3

Source: Huawei

Title: (TP for TR 38.799) Access control for NR femto

Document for: Discussion

# 1 Introduction

This paper is to provide TP for Access control of NR Femto.

#  Annex——TP for TR 38.799 v1.0.0

*Start of Change*

## 5.3 Access control

To support the access control during the initial access and mobility, the NR Femto can resue the existing CAG mechanism which is defined for the PNI-NPN.

With the existing CAG mechanism, the open, hybrid and closed access mode, can be supported as follows:

* To support the open access mode: The NR Femto activates a PLMN cell, which can be accessed by legacy UE without access control.
* To support the hybrid access mode: The NR Femto cell can be shared by both PLMN and CAG, through broadcasting both the *plmn-IdentityInfoList* and the *npn-IdentityInfoList-r16* in the SIB1, but without the *cellReservedForOtherUse*. Then, this cell is accessible as a CAG cell by a UE whose allowed CAG list includes this cell. For the legacy UE not supporting CAG, this cell is viewed as a normal PLMN cell.
* To support the closed access mode: The NR Femto activates an NPN-only cell by broadcasting the *cellReservedForOtherUse IE* with value “true”, then this cell can only be accessed by the UE whose allowed CAG list includes a CAG-ID broadcasted by the NR Femto cell.

*End of Change*