**3GPP TSG-SA5 Meeting #162 *S5-254055***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Rel-20 CR TS 28.540 Add background and requirements for NR Femto | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | NTT DOCOMO | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AdNRM\_Ph4-OAM | | | | |  | ***Date:*** | | | 2025-08-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | | Rel-20 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | 3GPP SA2 and RAN3 have completed stadardization of NR Femto, however there is currently no manaegement support provided by 3GPP SA5. There is a need to introduce background and requirement in TS 28.540 | | | | | | | | |
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| ***Summary of change:*** | | Adding background and requirements on NR Femto management aspects for Stage-1 | | | | | | | | |
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| ***Consequences if not approved:*** | | Management aspects of 5G-Femto is not introduced. | | | | | | | | |
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| ***Clauses affected:*** | | 4.X (new), 5.X (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | | **x** |  | O&M Specifications | | | | TS 28.541 CR1582. | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

***Start of First change***

## 4.X Management of NR Femto

NR Femto enables use cases such as providing NR access at home or at enterprise premises. An NR Femto node hosts the same functions as a gNB as descibed in TS 38.300 [3], clause 4.1.

As specified in TS 23.501 [2], clause 5.50.2, an NR Femto node connects to 5GC directly or via an NR Femto Gateway (GW).

As specified in TS 23.501 [2], clause 5.50.2, the NR Femto GW appears to the AMF as a gNB, while to the NR Femto node(s) it appears as an AMF. The N2 and N3 interface between the NR Femto node(s) and the 5GC is the same, regardless of whether or not the NR Femto node(s) is(are) connected to the 5GC via an NR Femto GW.

The OAM provides configuration parameters for NR Femto nodes as well as configuration parameters for NR Femto GW, including the configuration for activating/deactivating NR Femto node and NR Femto GW as well as mobility related parameters such as PLMN id and TAC.

***Second changes***

## 5.X Requirements for management of NR Femto

**REQ-FEMTO\_CON-001:** The NR NRM definitions shall support management of NR Femto node.

**REQ-FEMTO\_CON-002:** The NR NRM definitions shall support management of NR Femto GW.

**REQ-FEMTO\_CON-003:** The 5GC NRM definitions shall support management of NR Femto GW.

***End of changes***