**3GPP TSG-SA3 Meeting #119 draft\_S3-245325-r2\_was\_S3-244777**

**Orlando, USA 11 - 15 November 2024**

**Source: ZTE Corporation**

**Title: New WID on security aspects of 5G NR Femto**

**Document for: Approval**

**Agenda Item: 6**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Security aspects of 5G NR Femto

Acronym: 5G\_Femto\_Sec

Unique identifier: TBD

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | x | x |  |
| No | x | x |  |  |  |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Study |
|  | Normative – Stage 1 |
| x | Normative – Stage 2 |
|  | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| FS\_5G\_Femto\_Sec | SA3 | 1030028 | Study on security aspects of 5G NR Femto |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 1040028 | System aspects of 5G NR Femto | Work item on Architecture enhancements for supporting 5G NR Femto deployments |
| 1050125 | Additional topological enhancements for NR | Work Item on the overall RAN architecture and required functional and procedural impacts for supporting 5G Femto deployments |

**Dependency on non-3GPP (draft) specification:**

# 3 Justification

As study on security aspects for 5G NR Femto is getting concluded, we are proposing to start the normative work via this WID.

# 4 Objective

The objectives of this work item are the normative work according to the conclusions from TR 33.745 (Study on security aspects of 5G NR Femto):

* Define the security aspect of enabling provisioning of subscribers allowed to access 5G NR Femto cells and how to manage 5G NR Femto access control by the Closed Access Group (CAG) owner or an authorized administrator.
* Define the security aspects needed for 5G NR Femto.

# 5 Expected Output and Time scale

***{If this WID covers both stage 2 and stage 3, clearly indicate the different completion dates.}***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| New specifications {One line per specification. Create/delete lines as needed} | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Rapporteur |
| TS | 33.XXX | Security of 5G NR Femto | SA#108  Jun 2025 | SA#108  Jun 2025 | *Liu,Peilin (ZTE)*  *[liu.peilin@zte.com.cn](mailto:liu.peilin@zte.com.cn)*  *Hua,Song (CMCC)*  *[songhua@chinamobile.com](mailto:songhua@chinamobile.com)* |
|  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| {e.g. "22.281"} | {Possible values:  - either free text (e.g. “CS aspects to be removed")  - or “Specification to be withdrawn”} | {e.g. "TSG#89"} | {Free text, e.g. "This TS covers Stage 2" or "This TS covers Stage 3" or "This TS covers both stages 2 and 3"} |
|  |  |  |  |

# 6 Work item Rapporteur(s)

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# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

Potential architecture impact to be covered by SA2.

Potential RAN impact to be covered by RAN WGs.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| ZTE Corporation |
| China Mobile |
| Nokia |
| China Telecom |
| Charter Communications |
| CableLabs |
| CATT |