**3GPP TSG-CT WG1 Meeting #128-eC1-211176**

**Electronic meeting, 25 February – 5 March 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.502** | **CR** | **0181** | **rev** | **1** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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 | **x** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | SNPN access operation mode | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Vertical\_LAN | | | | |  | ***Date:*** | | | 2021-02-26 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | SA2 confined the applicability of the term “SNPN access mode” to 3GPP access. See S2-2009206 for the details.  CR #2964 to TS 24.501 proposes a new term “SNPN access *operation* mode” for what CT1 had used to express “SNPN access mode”.  **Interoperability analysis**  Backward compatible | | | | | | | | |
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| ***Summary of change:*** | | “SNPN access mode” is replaced with “SNPN access operation mode”. | | | | | | | | |
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| ***Consequences if not approved:*** | | Due to change in the meaning of the existing term, the meaning of the existing text remains altered. | | | | | | | | |
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| ***Clauses affected:*** | | 3.1, 4.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS 24.501 CR 2964 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**MTU:** Maximum transmission unit (MTU) is the largest PDU size which can be transmitted and received by a network entity in one single IP packet without any need for IP fragmentation.

**NWt:** NWt is the reference point between the UE and the TNGF for establishing secure tunnel(s) between the UE and the TNGF so that control-plane and user-plane exchanged between the UE and the 5G core network is transferred securely over trusted non-3GPP access.

**NWu:** NWu is the reference point between the UE and the N3IWF for establishing secure tunnel(s) between the UE and the N3IWF so that control-plane and user-plane exchanged between the UE and the 5G core network is transferred securely over untrusted non-3GPP access.

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.501 [2] apply:

**5G Access Network**

**5G Core Network**

**5G QoS flow**

**5G QoS identifier**

**5G System**

**Network identifier (NID)**

**PDU Session**

**Stand-alone Non-Public Network**

**TNGF**

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.003 [8] apply:

**Global Line Identifier (GLI)**

**Global Cable Identifier (GCI)NAI**

For the purposes of the present document, the following terms and definitions given in 3GPP TS 33.501 [5] apply:

**SUPI**

**SUCI**

For the purposes of the present document, the following terms and definitions given in 3GPP TS 24.302 [7] apply:

**S2a connectivity**

For the purposes of the present document, the following terms and definitions given in 3GPP TS 24.501 [4] apply:

**Non 5G capable over WLAN (N5CW) device**

**SNPN access opeation mode**

**W-AGF acting on behalf of the N5GC device**

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.316 [40] apply:

**W-CP EAP connection**

**W-CP signalling connection**

\*\*\*\*\* Next change \*\*\*\*\*

### 4.3.2 FQDN for N3IWF Selection

An N3IWF FQDN is either provisioned by the home operator or constructed by the UE in either the Operator Identifier FQDN format or the Tracking Area Identity FQDN format as specified in 3GPP TS 23.003 [8].

The N3IWF FQDN is used as input to the DNS mechanism for N3IWF selection.

In order to access PLMN services via an SNPN, a UE operating in SNPN access operation mode registered to an SNPN has the following restrictions on N3IWF FQDN:

a) the UE shall only use TAIs from a PLMN to construct a Tracking Area Identity based N3IWF FQDN; and

b) the UE shall not consider an N3IWF FQDN for N3IWF selection configured by an SNPN.