**3GPP TSG-CT WG1 Meeting #142C1-23xxxx**

**Bratislava 22– 26 May 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.502** | **CR** | **0247** | **rev** | **1** | **Current version:** | **18.1.1** |  |
|  | | | | | | | | |
| *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 N3IWF selection for emergency service in visited country | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE, Ericsson?, Qualcomm? | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNPN\_Ph2 | | | | |  | ***Date:*** | | | 2023-05-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | According to the reply LS S2-2305729 and the attached agreed TS 23.501 CR 4300, the UE shall construct an emergency SNPN N3IWF FQDN based on the visited country to select an SNPN N3IWF selection for emergency service in this visited country.  The EN in clause 7.2.6.2a can be resolved accordingly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the EN in clause 7.2.6.2a.  Clarify the UE procedure of SNPN N3IWF selection for emergency service in visited country using Visited Country Emergency SNPN N3IWF FQDN. | | | | | | | | |
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| ***Consequences if not approved:*** | | Unresolved editor note remains. The specification misaligns with stage 2 requirement. | | | | | | | | |
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| ***Clauses affected:*** | | 7.2.6.2a | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 23.501 CR 4300 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

#### 7.2.6.2a UE procedure when the UE only supports connectivity with N3IWF when accessing SNPN via non-3GPP access

A UE in SNPN access operation mode with a selected entry of "list subscriber data" shall perform following procedures:

A) if the selected entry is not considered as valid, the UE may:

1) select another valid entry of "list of subscriber data" such that the UE is in the country where the configured N3IWF of the entry is located, which has not been tried yet, and repeat the procedure in bullet a);

2) deactivate the SNPN access operation mode and attempt to perform UE procedure in the visited country as specified in clause 7.2.6.2; or

3) abort the procedure; or

NOTE: The UE can notify the user that an emergency session cannot be established.

B) if the selected entry is considered as valid and:

a) the UE is in the home country, i.e. in the country where the configured N3IWF of the selected entry of "list of subscriber data" is located, the UE shall follow the procedure in clause 7.2.5 bullet a). If the emergency registration procedure has failed, the UE may:

1) select another valid entry of "list of subscriber data" such that the UE is in the country where the configured N3IWF of the entry is located, which has not been tried yet, and repeat the procedure in bullet a). If there is no valid entry "list of subscriber data" which has not been tried yet, the UE may:

- select another valid entry of "list of subscriber data" such that the UE is not in the country where the configured N3IWF of the entry is located, which has not been tried yet, and repeat the procedure in bullet b);

2) deactivate the SNPN access operation mode and attempt to perform UE procedure in the visited country as specified in clause 7.2.6.2; or

3) abort the procedure;

NOTE: The UE can notify the user that an emergency session cannot be established.

b) the UE is in a visited country, i.e. in a country other than the country where the configured N3IWF of the selected entry of "list of subscriber data" is located, the UE shall perform the DNS NAPTR query using Visited Country Emergency SNPN N3IWF FQDN as specified in 3GPP TS 23.003 [8] via the non-3GPP access network to determine SNPNs in the visited country that support emergency services in non-3GPP access via N3IWF:

1) if the DNS response contains one or more records, the UE shall select an SNPN included in the DNS response via UE implementation means and construct an N3IWF FQDN based on the FQDN format of the selected SNPN as specified in 3GPP TS 23.003 [8] for N3IWF selection. The UE shall use the DNS server function to resolve the contructed SNPN N3IWF FQDN to the IP address(es) of the N3IWF:

i) if the DNS response contains one or more IP addresses of N3IWF, the UE shall select an IP address of N3IWF with the same IP version as its local IP address and initiate the procedure as specified in clause 7.3;

ii) if the DNS resolution of contructed SNPN N3IWF FQDN fails, or the the emergency registration procedure in the bullet above has failed, the UE shall select another SNPN, if any, included in the DNS response and repeat the procedure as specified in bullet b)1); and

2) if the DNS response contains no record, or no DNS response is received, or the emergency registration procedure has failed for all the SNPNs included in the DNS response as specified bullet b) 1), the UE may proceed to bullet a) 1), a) 2) or a) 3).

\* \* \* End of Changes \* \* \* \*