**3GPP TSG-CT WG1 Meeting #123-eC1-20xxxx**

**Electronic meeting, 16-24 April 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.122** | **CR** | **0527** | **rev** | **1** | **Current version:** | **16.5.0** |  |
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| *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:*** | Human readable network name for SNPN | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Vertical\_LAN | | | | |  | ***Date:*** | | | 2020-04-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | R2-2001707 includes the following changes:  5.2.2.4.X Actions upon reception of *SIBX*  Upon receiving *SIBX*, the UE shall:  1> Forward the *HRNN-list* entries with the corresponding PNI-NPN and SNPN identities to upper layers;  6.3.1 System information blocks  […]  – *SIBX*  *SIBX* contains the HRNNs of the NPNs listed in SIB1.  ***SIBX* information element**  -- ASN1START  -- TAG-SIBX-START  SIBX-r16 ::= SEQUENCE {  hrnn-List-r16 HRNN-List-16 OPTIONAL, -- Need R  lateNonCriticalExtension OCTET STRING OPTIONAL,  ...  }  HRNN-List-r16 ::= SEQUENCE (SIZE (1..maxNPN-r16)) OF HRNN-r16  HRNN-r16 ::= SEQUENCE {  hrnn-r16 OCTET STRING (SIZE(1.. maxHRNN-Len-r16)) OPTIONAL -- Need R  }  -- TAG-SIBX-STOP  -- ASN1STOP   |  | | --- | | ***SIBX* field descriptions** | | ***HRNN-List***  The same amount of HRNN elements as the number of NPNs in SIB 1 are included. The *n*-th entry of *HRNN-List* contains the human readable network name of the *n-*th NPN of SIB1. The corresponding entry in *HRNN-List* is absent if there is no HRNN associated with the given NPN. | | | | | | | | | |
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| ***Summary of change:*** | | The EN on the HRNN for SNPN is removed. It is clarified if the presentation of the HRNN broadcasted by the SNPN is mandatory and broadcasting an HRNN by the SNPN is optional. | | | | | | | | |
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| ***Consequences if not approved:*** | | The ENs remain. Requirements on HRNN cannot be fulfilled. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.3.1.2, 4.9.3.1.2 | | | | | | | | |
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|  | | **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/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

##### 4.9.3.1.2 Manual SNPN selection mode procedure

The MS indicates to the user one or more SNPNs, which are available and each of them is identified by an SNPN identity in an entry of the "list of subscriber data" in the ME. This includes SNPNs in the list of "permanently forbidden SNPNs", and the list of "temporarily forbidden SNPNs". The order in which those SNPNs are indicated is MS implementation specific.

For each of the SNPNs indicated to the user, a human-readable network name shall be presented along with the SNPN identity to the user if the MS obtains a human-readable network name. The MS shall obtain the human readable name for an SNPN using one of the following sources.

- From information broadcast for the SNPN, if the information broadcast for the SNPN includes the human readable name for the SNPN.

The MS shall limit its search for the SNPN to the NG-RAN access technology.

The user may select his desired SNPN and the MS then initiates registration on this SNPN using the NG-RAN access technology, the subscriber identifier and the credentials from an entry of the "list of subscriber data", with the SNPN identity matching the selected SNPN (this may take place at any time during the presentation of SNPNs).

Once the MS has registered on an SNPN selected by the user, the MS shall not automatically register on a different SNPN unless the user selects automatic SNPN selection mode.

NOTE: Emergency services are not supported in SNPN access mode.

If the user does not select an SNPN, the selected SNPN shall be the one that was selected before the SNPN selection procedure started. If no such SNPN was selected or that SNPN is no longer available, then the MS shall attempt to camp on any acceptable cell and enter the limited service state.