**3GPP TSG-CT WG1 Meeting #136-eC1-22xxxx**

**E-Meeting, 12th – 20th May 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.501** | **CR** | **4302** | **rev** | **1** | **Current version:** | **17.6.1** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | Emergency registration without allowed NSSAI | | | | | | | | | |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17 | | | | |  | ***Date:*** | | | 2022-05-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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)* | |
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| ***Reason for change:*** | | Section 4.6.2.1 specifies the case wehre the AMF rejects registration request if no S-NSSAI can be allowed to the UE. One exception is specified, that is, ON-SNPN. However, emergency registration is not listed. | | | | | | | | |
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| ***Summary of change:*** | | Emergency registration is listed as an exception as well. | | | | | | | | |
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| ***Consequences if not approved:*** | | It can be misunderstood that the registration can be rejected due to an issue in the allowed NSSAI. | | | | | | | | |
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| ***Clauses affected:*** | | 4.6.2.1 | | | | | | | | |
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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 ... | | |
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| ***Other comments:*** | | The change requestd in this CR is compatible with CR4184. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 4.6.2.1 General

Upon registration to a PLMN or SNPN (except for the registration procedure for periodic registration update, the initial registration for onboarding services in SNPN, and the registration procedure for mobility registration update when registered for onboarding services in SNPN), the UE shall send to the AMF the requested NSSAI which includes one or more S-NSSAIs of the allowed NSSAI for the PLMN or SNPN or the configured NSSAI and corresponds to the network slice(s) to which the UE intends to register with, if:

a) the UE has a configured NSSAI for the current PLMN or SNPN;

b) the UE has an allowed NSSAI for the current PLMN or SNPN; or

c) c) the UE has neither allowed NSSAI for the current PLMN nor configured NSSAI for the current PLMN or SNPN and has a default configured NSSAI. In this case the UE indicates to the AMF that the requested NSSAI is created from the default configured NSSAI.

Other than S-NSSAIs contained in the NSSAIs described above, the requested NSSAI can be formed based on the S-NSSAI(s) available in the UE (see subclause 5.5.1.3.2 for further details). In roaming scenarios, the UE shall also provide the mapped S-NSSAI(s) for the requested NSSAI, if available. The AMF verifies if the requested NSSAI is permitted based on the subscribed S-NSSAIs in the UE subscription and optionally the mapped S-NSSAI(s) provided by the UE, and if so then the AMF shall provide the UE with the allowed NSSAI for the PLMN or SNPN, and shall also provide the UE with the mapped S-NSSAI(s) for the allowed NSSAI for the PLMN if available. The AMF shall ensure that there are not two or more S-NSSAIs of the allowed NSSAI which are mapped to the same S-NSSAI of the HPLMN or SNPN. If:

a) all the S-NSSAIs included in the requested NSSAI are either rejected for the current PLMN or rejected for the current registration area or rejected for the failed or revoked NSSAA or rejected for the maximum number of UEs reached, or the requested NSSAI was not included by the UE;

b) there is no subscribed S-NSSAI(s) marked as default; and

c) the UE is neither registering nor registered for onboarding services in SNPN and the UE is neither registering nor registered for emergency services;

then the AMF may reject the registration request (see subclauses 5.5.1.2.5 and 5.5.1.3.5 for further details).

The set of network slice(s) for a UE can be changed at any time while the UE is registered to a PLMN or SNPN, and the change may be initiated by the network or the UE. In this case, the allowed NSSAI and associated registration area may be changed during the registration procedure or the generic UE configuration update procedure. The configured NSSAI and the rejected NSSAI may be changed during the registration procedure or the generic UE configuration update procedure. The default configured NSSAI may be changed by sending a UE parameters update transparent container to the UE during the NAS transport procedure. The pending NSSAI may be changed during the registration procedure. In addition, using the generic UE configuration update procedure, the network may trigger the registration procedure in order to update the allowed NSSAI.

The UE in NB-N1 mode does not include the requested NSSAI during the registration procedure if the 5GS registration type IE indicates "mobility registration updating", procedure is not initiated to change the slice(s) that the UE is currently registered to, and the UE is still in the current registration area. The UE does not include the requested NSSAI during the registration procedure if the 5GS registration type IE indicates "SNPN onboarding registration" or the UE is registered for onboarding services in SNPN.

The AMF does not include the allowed NSSAI during a registration procedure with the 5GS registration type IE indicating "mobility registration updating" except if the allowed NSSAI has changed for the UE. The UE considers the last received allowed NSSAI as valid until the UE receives a new allowed NSSAI. The AMF does not include the allowed NSSAI during a registration procedure with the 5GS registration type IE indicating "SNPN onboarding registration" or during a registration procedure when the UE is registered for onboarding services in SNPN.

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