**3GPP TSG-WG SA2 Meeting #143E e-meeting *S2-210xxxx***

**Elbonia, February 24 – March 09, 2021 (revision of S2-210xxxx)**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **23.501** | **CR** | **XXXX** | **rev** | **-**  | **Current version:** | **16.7.0** |  |
|  |
| *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 | **X** |

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|  |
| ***Title:***  | General description for Onboarding and remote provisioning for PNI-NPN |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | eNPN |  | ***Date:*** | 2021-01-18 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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 canbe 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:*** | UE onboarding and remote provisioning is a new feature introduced in R17 eNPN topic, and last meeting most sub-parts of the feature have achieved an agreement. In case of PNI-NPN onboarding scenarios, using control plane to realize the UE remote provisioning has been concluded as an alternative solution. It is necesssay to draft a general introduction to the alternative solution in TS 23.501 and corresponding procedure in TS 23.502. |
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| ***Summary of change:*** | Add a general introduction to remote provisioning of UE for PNI-NPN in TS 23.501. |
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| ***Consequences if not approved:*** | No introduction to remote provisioning of UE for PNI-NPN. |
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| ***Clauses affected:*** | 5.30.3.X |
|  |  |
|  | **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:*** |  |

\* \* \* \* First change, ALL TEXT ARE NEW \* \* \* \*

5.30.3.X UE Onboarding and Remote Provisioning for PNI-NPN

UE Onboarding and Remote Provisioning enables a UE to get 3GPP connectivity to a Provisioning Server (PS) via PLMN, by which Subscription Owner (SO) can remote provision the NPN credentials to UE which is used for access to specific slice(s) and/or PDU Sessions offering NPN services, i.e. for Network Slice Specific Authentication and Authorization and/or secondary authentication for PDU Sessions.

Both Control Plane based remote provisioning and User plane based remote provisioning are supported.

* In case of Control Plane based remote provisioning, UE register to PLMN and obtain the credentials from PS via Control Plane signalling.
* In case of User Plane based remote provisioning, UE register to PLMN and obtain the credentials from PS via User Plane connection.

Additionally, UE may obtain updated subscription and/or configuration during the remote provisioning procedure.

The procedure of UE Onboarding and Remote Provisioning for PNI-NPN is defined in TS 23.502 [3] clause X.

Editor's note: the description above will be further updated based on progress of the procedure in TS23.502.

\* \* \* \* End of changes \* \* \* \*