**SA WG2 Meeting #S2-143E S2-210xxxx**

**24 February - 9 March 2021, Electronic, Elbonia (revision of S2-210xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.503** | **CR** | **<CR#>** | **rev** | **<Re#>** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *For* ***HE******LP*** *on using this form: comprehensive instructions can be found at  http://www.3gpp.org/Change-Requests.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | 23.503, Enabling restricted PDU Session for remote provisioning of UE using User Plane | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | SA WG2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | <Related\_WIs> | | | | |  | ***Date:*** | | | 2021-02-0x |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **<Cat>** |  | | | | | ***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. | | | | | | | | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For the user plane remote provisioning for SNPN credentials, it has been agreed,  - A restricted PDU session is supported to be dedicated for the remote provisioning. Upon successful establishment of restricted access PDU session, if the UE still does not have a PS address via any of the methods listed below, the device uses a well-known FQDN to perform PS discovery.  - When Onboarding network is O-SNPN, the information required to restrict the usage is locally configured in the SMF, and the SMF restricts the usage for the UE registered for onboarding.  - When Onboarding network is a PLMN, the functionality to restrict usage is activated for the UE by SMF based on received existing subscription profile from the UDM and on existing policies from PCF, or local configuration.  This CR implement this to 23.503 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 6.1.3.2.3, 6.1.3.X(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*FIRST CHANGE*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1], TS 23.501 [2], TS 23.502 [3], TS 23.316 [27] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

AMBR Aggregated Maximum Bitrate

ANDSP Access Network Discovery & Selection Policy

ARP Allocation and Retention Priority

ASP Application Service Provider

BDT Background Data Transfer

BSF Binding Support Function

CHF CHarging Function

H-PCF A PCF in the HPLMN

H-UDR A UDR in the HPLMN

MPS Multimedia Priority Service

NBIFOM Network-based IP flow mobility

NSWO Non-Seamless WLAN Offload

NWDAF Network Data Analytics Function

OAM Operation Administration and Maintenance

OCS Online Charging System

PCC Policy and Charging Control

PFD Packet Flow Description

PFDF Packet Flow Description Function

PRA Presence Reporting Area

RAN Radio Access Network

SNPN Stand-alone Non-Public Network

URSP UE Route Selection Policy

V2XP V2X Policy

V-PCF A PCF in the VPLMN

V-UDR A UDR in the VPLMN

vSRVCC video Single Radio Voice Call Continuity

WLANSP WLAN Selection Policy

*Next CHANGE*

##### 6.1.3.2.3 PCC rule authorization

PCC Rule authorization is the selection of the 5G QoS parameters, described in TS 23.501 [2] clause 5.7.2, for the PCC rules.

The PCF shall perform the PCC rule authorization for dynamic PCC rules belonging to AF sessions that have been selected in step 1, as described in clause 6.1.3.2.2, as well as for PCC rules without corresponding AF sessions.

For the authorization of a PCC rule the PCF shall consider any 5GC specific restrictions, subscription information and other information available to the PCF. Each PCC rule receives a set of QoS parameters that are supported by the specific Access Network. The authorization of a PCC rule associated with an emergency service shall be supported without subscription information. The PCF shall apply local policies configured for the emergency service. The authorization of a PCC rule associated with an user palne SNPN remote provisioning service may be supported without subscription information. The PCF may apply local policies configured for the user palne SNPN remote provisioning service.

*Next CHANGE*

#### 6.1.3.X User Plane SNPN Remote Provisionning support

PDU Sessions for user palne SNPN remote provisioning service are provided by the onboarding SNPN to support remote provisioning of UE using User Plane during UE Onboarding which is specified in the 3GPP TS 23.501 clause 5.30 [2].

User Plane SNPN Remote Provisionning is network services provided through an Onboarding DNN and does not require a subscription depending on operator policies and local regulatory requirements. For User Plane SNPN Remote Provisionning, the architecture for the non-roaming case is the only applicable architecture model.

For a PDU Session serving SNPN Remote Provisionning, the PCF makes authorization and policy decisions that restrict the traffic to Provisioning Server (PS) address(es). A PDU Session serving SNPN Remote Provisionning shall not serve any other service and shall not be converted to/from any PDU Session serving other services. The PCF shall determine based on the DNN if a PDU Session concerns SNPN Remote Provisionning.

The PCC Rule Authorization function selects QoS parameters that may allow prioritization of SNPN Remote Provisionning. For the Onboarding DNN, the PCF does not perform subscription check; instead it utilizes the locally configured operator policies or Onboarding Configuration Data to make authorization and policy decisions.

*END OF CHANGES*