**3GPP TSG SA WG4 #114-e *Tdoc S4-210772***

**Electronic-meeting, 19th-28th May, 2021**

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| *CR-Form-v12.0* | | | | | | | | |
| **Pseudo CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.803** | **CR** | **<CR#>** | **rev** | **1** | **Current version:** | **1.2.0** |  |
|  | | | | | | | | |
| *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:*** | [FS\_EMSA] Updated text for SA2 Edge Support | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei Technologies Co.,Ltd. | | | | | | | | | |
| ***Source to TSG:*** | SA4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_EMSA | | | | |  | ***Date:*** | | | 2021-05-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **D** |  | | | | | ***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-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:*** | | Alignment about the naming of “LDNSR” usage with SA2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Replace “LDNSR” with “EASDF” to keep alignment with SA2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |
| ***56*** | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**===== 1st CHANGE =====**

## 3.3 Abbreviations

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

AC Application Client

AF Application Function

ASP Application Service Provider

DNAI Data Network Access Identifier

DNS Domain Name Service

EASDF Edge Application Server Discovery Function

ECS Edge Configuration Server

EEC Edge Enabler Client

EES Edge Enabler Server

PCF Policy Control Function

PDU Protocol Data Unit

PSA PDU Session Anchor

QoS Quality of Service

LADN Local Area Data Network

LBO Local Break Out

NEF Network Exposure Function

SSC Session and Service Continuity

SMF Session Management Function

UPF User Plane Function

URSP UE Route Selection Policy

**===== 2nd CHANGE =====**

#### 4.3.2.4 DNS-based solutions for Session Breakout

For Session Breakout connectivity mode, the EASDF (EAS Discovery Function), a new stand-alone 5GC network function is proposed. It allows coordination of EAS Discovery using DNS and 5GC connectivity. The EASDF facilitates selection of an EAS closer to the edge, and it allows Dynamic ULCL/BP/Local PSA insertion.

1. The EASDF is dynamically configured with address records of the EAS instances it is to handle so that it can respond appropriately when a local UE attempts to resolve one of these FQDNs.

2. The SMF selects the EASDF serving the PDU session and configures the UE to use the EASDF as its DNS Server for that PDU Session.

3. The EASDF maintains a PDU session context during the lifetime of the PDU session and needs to be made aware of the release of the PDU Session.

4. The EASDF is able to inform SMF with the IP address of an EAS resolved by DNS, which that may trigger the SMF to perform local UPF insertion/relocation if needed.

**===== End of CHANGES =====**