**SA WG2 Meeting #144E e-meeting *S2-2102740r03***

**Elbonia, April 12 – 16, 2021**

**Source: vivo, Ericsson**

**Title: Introducing UE behaviour for Edge Computing in SSC mode 2 and 3**

**Document for: Agreement**

**Agenda Item: 8.3**

**Work Item / Release: eEdge\_5GC /Rel-17**

***Abstract of the contribution:****This contribution introduces a new UE behaviour for Edge Computing in SSC mode 2 and SSC mode 3*

# 1 Introduction

As per TR 23.748 clause 9.2.2 " Conclusions for Key Issue #2: UE based EAS rediscovery ", it introduces new UE behaviour to support edge computing characteristic. The UE can remove the old EAS information associated with the released PDU Session and can reselect a new EAS after the UE receives a new IP address for SSC mode 2 and SSC mode 3.

This new UE behaviour in edge relocation should be reflected according to the summarised conclusions in TR 23.748 clause 9.2.2.

# 2 Proposal

It is proposed to adopt the following changes into TS 23.548.

\*\*\*\*\*\*\*\*\*\* Start Changes(All new text) \*\*\*\*\*\*\*\*\*\*

# 6.2.2.3 EAS Re-discovery Procedure at Edge Relocation

In order to change the PDU Session Anchor serving a PDU Session of SSC mode 2/3 for a UE, SMF triggers session continuity, service continuity and UP path management procedures as indicated in clause 4.3.5.1 and 4.3.5.2 of TS 23.502[3].During this procedure, for SSC mode 2/3, it is recommended that the UE applies the following behaviour:

The UE DNS cache should be bound to the IP connection used for PDU session. When the UE detects the PDU Session release or IP address changes, the UE removes the old DNS cache related to released PDU session, for example, the old Edge Application Server address information.

NOTE: UE DNS cache refers to cache at OS. Whether the DNS cache of App is included or influenced depends on application’s behaviour and UE implementation.

With this behaviour, when the establishment of a new PDU Session triggers EAS rediscovery for an application, UE can reselect a new EAS for that application..

For SSC#2, the procedure in clause 4.3.5.1 applies with following differences:

- In Step 3, when the new PDU Session has been established, UE can reselect a new EAS for the application with an EAS Rediscovery procedure if the recommended UE behaviour has been followed.

For SSC#3, the procedure in clause 4.3.5.2. applies with following difference:

- In step 5, the UE can reselect a new EAS for the application with an EAS Rediscovery procedure if the recommended UE behaviour has been followed.

*Editor’ Note: the scenario of Change of SSC mode 3 PDU Session Anchor with IPv6 Multi-homed PDU Session as in , clause 4.3.5.3. is FFS.*

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