**3GPP TSG-SA WG6 Meeting #51-e S6-222774**

**e-meeting, 10th – 19th October 2022 (revision of S6-22xxxx)**

**Source: Lenovo**

**Title: Key issue #24 conclusion**

**Spec: 3GPP TR 23.700-98 v1.2.0**

**Agenda item: 9.8**

**Document for: Approval**

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**1. Introduction**

This contribution provides the conclusion related to key issue 24 and the respective solution #41.

**2. Reason for Change**

The conclusion for both the key issue 24 and respective solution 41 are needed. So, this paper provides updates to clauses 10.2.x and 11.2.3 accordingly.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-98 v1.2.0.

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

### 10.2.x Key issue #24

The open issue in Key Issue #24 is:

- How EEL accesses and utilizes SEAL capabilities deployed within the EDN.

Solution #41 solves this issue by utilizing SEAL ADAES for enhancing EEL operations based on edge load analytics. The ADAES capability in TR 23.700-36 was concluded and provides a mechanism which allows EES and EAS to receive EES/EAS edge load measurements to enhance operations like service continuity. This solution is feasible, and the only dependency is the expected specification of the ADAES feature related to edge analytics (expected in TS 23.436).

NOTE: Whether EEC can also use SEAL ADAE layer to receive overload condition of EAS/EES can be considered in normative work.

\* \* \* Second Change \* \* \* \*

### 11.2.3 Solution conclusions

The study concludes with following solution considerations for the normative work:

1. Following individual solutions, corresponding to the key issues, will be considered as candidate solutions:

i. for Key issue #1 (Enhanced notification service to the EEC):

a. Solution #1: Service provisioning via push notification

- SEAL Notification Service will be specified in TS 23.434 to support the Solution #1

- The usage of SEAL Notification Service in TS 23.558 will be captured to Solution #1

b. Solution #3: Service provisioning triggering via SMS over NAS

- The usage of SMS over NAS to trigger service provisioning procedure will be specified in TS 23.558 as per Solution #3.

c. Solution #20: Propagation of EEL notifications to EEC using Edge Notification Server

- SEAL Notification Service will be specified in TS 23.434 to support the Solution #20

- The usage of SEAL Notification Service in TS 23.558 will be captured to Solution #20

ii. for Key issue #2 (Enablement of Service APIs exposed by EAS):

a. Solution #8: EAS Service API enablement using CAPIF

iii. for Key issue #3 (Enhancements to service continuity planning):

a. Solution #6: ACR update in service continuity planning

b. Solution #7: EES monitors UE mobility for service continuity planning

c. Solution #12: Service continuity planning allowance

d. Solution #21: Prediction expiration time for service continuity planning enhancement

e. Solution#37: ACR request trigger timing

iv. for Key issue #4 (EDGE-5):

a. Solution #34 (EDGE-5 APIs)

v. for Key issue #5 (Alignment of EDGEAPP and ETSI MEC):

a. Solution #x (<<title>>)

vi. for Key issue #6 (Edge services support across ECSPs):

a. Solution #x (<<title>>)

vii. for Key issue #7 (Application traffic filter exposure):

a. Solution #2: Traffic filter support for EDGE-3 API addressing application traffic detection

viii. for Key issue #8 (EAS selection synchronization):

a. Solution #39 (EAS selection synchronization at registration)

ix. for Key issue #9 (Enhancement of dynamic EAS instantiation triggering):

a. Solution #x (<<title>>)

x. for Key issue #10 (Support for roaming UEs):

a. Solution #x (<<title>>)

xi. for Key issue #11 (ACR between EAS and Cloud Application Server):

a. Solution #x (<<title>>)

xii. for Key issue #12 (EEL service differentiation):

a. Solution #12 (Service continuity planning permission)

xiii. for Key issue #13 (Edge enabler layer support for EAS synchronization):

a. Solution #x (<<title>>)

xiv. for Key issue #14 (Application traffic influence for initially selected EAS):

a. Solution #9 (Application traffic influence trigger from EAS)

b. Solution #15 (Initial EAS selection declaration)

c. Solution #17 (Traffic influence for initial EAS discovery)

xv. for Key issue #15 (Support of constrained devices for Edge):

a. Solution #x (<<title>>)

xvi. for Key issue #16 (Support of NAT deployed within the edge data network):

a. Solution #23 (UE identification with NAT)

xvii. for Key issue #17 (Discovery of a common EAS):

a. Solution #x (<<title>>)

xviii. for Key issue #18 (Linkage between EASs):

a. Solution #26 (Bundled EASs)

xix. for Key issue #19 (ACR scenario combination), see also clause 10.2.19:

a. The principle of Solution #19, #35, #38 that the EEL will offer support for utilizing a combination of ACR scenario(s) will be followed.

b. The principle of Solution #35 that the EAS selection entity performs selection of the ACR scenario combination will be followed; the EEC will select zero ACR scenario or a single ACR scenario or multi-ACR scenarios in the ACR scenario list according to the EEL participants service continuity capabilities and AC requirements.

c. The principle of Solution #35 that the ACR scenario list is communicated to the EES via the selected EAS announcement request will be followed, the EAS announcement request will be enhanced with the ACR scenario list.

d. The principle of Solution #19 and #35 that the ACR scenario list is communicated to the EAS via the ACR selection notification and that the EAS will subscribe to such notification will be followed; the ACR selection notification will provide the selected ACR scenario list.

e. The principle of Solution #19 and #35 that each ACR decision-making entity (e.g. EEC/EES/EAS) will use the ACR scenario list to decide if ACR detection needs to be performed will be followed; a gating condition that the ACR scenario is present in the ACR selected scenario list will be added to the ACR detection phase of every ACR scenario.

f. The principle of Solution #38 that ACR execution will be coordinated after ACR detection happens will be followed; the ACR management event notification and the ACR information notification will be enhanced with information about start of ACR execution.

xx. for Key issue #20 (Method of supporting federated EAS service):

a. Solution #x (<<title>>)

xxi. for Key issue #21 (Simultaneously EAS connectivity in ACR):

a. Solution #22: Support simultaneous EAS connectivity in ACR

xxii. for Key issue #22 (EAS discovery in Edge Node sharing scenario):

a. Solution #x (<<title>>)

xxiv. for Key issue #24 (SEAL capability access for EEL support):

a. Solution #41 (Interaction with ADAES for edge load analytics)