**3GPP TSG-SA WG6 Meeting #54-e S6-231422**

**e-meeting, 17th – 26th April 2023 (revision of S6-xxxxxx)**

**Title: LS reply on management of AS by AF**

**Response to: S6-231121**

**Release: Release 18**

**Work Item: CAPIF, SEAL**

**Source:** 3GPP TSG SA WG6

**To:** 3GPP TSG SA WG4

**Cc:** 3GPP TSG SA WG2

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# 1 Overall description

SA6 has provided the application layer architecture specifications for verticals, including architecture requirements and functional architecture for supporting the integration of verticals to 3GPP systems. As part of SA6 work, the application enablement layer includes vertical specific service enablers (e.g. V2XAPP, UASAPP, FFAPP) as well as common service platforms (CAPIF, SEAL) and edge enablement frameworks. Such enablement layer sits on top of the 3GPP network and aims to support the exposure of network services as well as to provide value-added capabilities related to discovery, service continuity, application portability, AS service API management etc.

SA6 would like to provide feedback to this LS, since the direction of SA4 seems to be overlapping with SA6 coverage, since SA6 entities at the network side include AF functionality, and the AS-to-AF interface which is indicated in the LS is already specified in SA6. The following considerations are presented below:

**Consideration 1**: SA6 already supports the AS to AF interactions including the management of AS by AF. In particular:

* CAPIF, since Release 15, offers a generic framework which can be leveraged by any entity (e.g. NEF, AF) and as provided in TS 23.222, which supports API provider domain management including APF, AMF and AEF (see CAPIF\_API\_provider\_management API in TS 23.222). Furthermore, CAPIF in Release 18 is being extended to support the AS- to AS invocation in a more generic manner. More specifically, CAPIF specification was extended for supporting the publication / discovery and change subscription of AS provided Service APIs.
* Also, since SEAL servers include AF functionality, the VAL server to SEAL server interactions for allowing the VAL server providing the load /availability/performance to SEAL is already supported via standard APIs (e.g. for example details can be found in SEAL ADAES as specified in TS 23.436).

**Consideration 2**: SA6 is currently responsible for application layer specifications, with emphasis on Service frameworks (e.g. Common API Framework, Service Enabler Architecture Layer, Edge Application enablement, Messaging enablement), mission critical services, and enablers for vertical applications (e.g. automotive, drones, smart factories).

To this end, SA6 is responsible for providing support capabilities for verticals/ASPs, whereas media services can be seen as a special type of vertical/ASP services. Hence, instead of starting new studies for generalized solutions which fall outside the media service use cases, SA6 would recommend SA4 to check the above information, and more specifically the CAPIF specifications, and if SA4 has further demands/requirements for media services, SA6 can improve CAPIF/SEAL accordingly.

Upon checking the SA6 provided references, SA6 would also to ask SA4 to elaborate more on the identified missing requirements with respect to providing generalized solutions for the management of AS by AF.

# 2 Actions

**To SA4**

**ACTION:** SA6 requests SA4 to take the above information into consideration, and inform whether there are specific requirements to enhance existing SEAL/CAPIF specifications.

In this direction, SA6 would like to ask SA4 to elaborate more on the identified potential requirements with respect to providing generalized solutions for the management of AS by AF.

# 3 Dates of next TSG SA WG 6 meetings

SA6#55 22nd May – 26th May 2023 Berlin, Germany

SA6#56 21st August – 25th August 2023 Gothenburg, Sweden