**3GPP TSG-SA WG6 Meeting #62 S6-243351**

**Maastricht, Netherlands, 19th – 23rd August 2024 (revision of S6-243034)**

**Title: LS on N6 delay and UPF information exposure**

**Response to:**

**Release: Rel-19**

**Work Item: FS\_XRApp**

**Source:** **3GPP TSG SA WG6**

**To: SA2**

**Cc:**

**Contact person:** **Shaowen Zheng, zhengshaowen@chinamobile.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments: None**

# 1 Overall description

In Rel-19 SA6 started their XR study in TR 23.700-23. KI#6 has been captured in the TR that describes an edge deployment with two EDNs, with overlapping service areas, each with their own UPF but with a common DNAI. This may lead to long latency for a UE in the overlapping service area if the UE is associated to the UPF of one EDN whilst communicating with a EAS in the other EDN.

SA6 would like to use this LS to exchange views on this KI and the solutions captured for it.

Question#1: Firstly, SA6 would like SA2 to confirm that associating one DNAI to multiple UPFs is a valid deployment option and therefore that one DNAI can be associated to multiple EDNs?

One solution is to perform XR EAS selection considering N6 delay. Regarding this solution, SA6 would like to ask following questions:

Question#2: Can SA2 support N6 delay measurement for specific EAS(s)? Whether N6 delay measurement can be provided before the PDU session is established (i.e., before an UPF been selected)?

Question#3: Can SA2 support 5GC exposure N6 delay to AF? If yes, what information AF need to provide to 5GC, and what information 5GC may expose to AF? Can SA2 inform SA6 regarding the latest development of N6 delay measurement function?

Other solutions are based on UE/EAS related UPF information (Endpoint information (e.g. URI, FQDN, IP address) used to communicate with the UPF), or predicted application session connectivity (e.g. DNAI, N6 routing info), either via local configuration by SLA (sol#12) or via exposure interface exposed to AF, to enhance the service provisioning or EAS discovery. So SA6 would like to ask:

Question#4: Can SA2 expose such UPF information to AF? If yes, In SA6 understanding, a trusted AF can understand the UPF information (e.g. UPF instance endpoint), either via local configuration by SLA (sol#12) or via exposure interface. Can SA2 confirm this view?

Question#5: Can SA2 expose predicted application session connectivity (e.g. DNAI, N6 routing info) for UE before the EES/EAS is actually selected, in order to determine proper EES/EAS selection.

# 2 Actions

**To SA2**

**ACTION: SA6 kindly asks SA2 to provide response to the above questions.**

# 3 Dates of next TSG SA WG 6 meetings

SA6#63 14th October – 18th October 2024 Hyderabad, India

SA6#64 18th November – 22nd November 2024 Orlando, US