3GPP TSG-CT WG3 Meeting #130 C3-234473

**Xiamen, China, 9th – 13th October 2023**

**Title: LS on Clarifications related to Network Slice Replacement feature**

**Response to: NA**

**Release: Rel-18**

**Work Item: eNS\_Ph3**

**Source:** **3GPP CT3**

**To:** **3GPP SA2**

**Cc:**

**Contact person: Rajesh Babu Natarajan**

 **rajesh underscore babu dot natarajan at nokia dot com**

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

**Attachments:** None

# 1 Overall description

In the current TS 23.503, clause 6.1.3.5:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Network Slice Replacement | The SMF reports the event of change between S-NSSAI and Alternative S-NSSAI to PCF when the SMF determines that the PDU Session and SM Policy Association can be retained. The SMF provides Alternative S-NSSAI when the PDU Session is transferred from S-NSSAI to Alternative S-NSSAI. | Added | PCF |  |

**Question 1:** When the original S-NSSAI is replaced by an Alternative S-NSSAI, should both the original S-NSSAI and the Alternative S-NSSAI be provided by the SMF to the PCF (and from PCF to BSF)? (so that the PCF/BSF can identify the PDU session/PCF associated to the AF request)

**Question 2**: For the case where the original S-NSSAI is recovered and then the PDU session is transferred back to the original S-NSSAI, what information (if any) is expected that the SMF provides to the PCF (and from PCF to BSF)?

In the current TS 23.501, clause 5.15.19:

The AMF determines the Alternative S-NSSAI for a UE registered with the S-NSSAI based on the notification from NSSF or PCF, or based on local configuration if the NSSF or PCF do not provide an alternative S-NSSAI. The Alternative S-NSSAI shall be supported in the UE Registration Area. If AMF cannot determine the Alternative S-NSSAI for the S-NSSAI, e.g. PCF or NSSF doesn't provide Alternative S-NSSAI, the AMF may further interact with the PCF to determine the Alternative S-NSSAI. The event trigger in AMF for interacting with PCF is described in clause 6.1.2.5 of TS 23.503 [45]

**Question 3**: In case of roaming LBO scenario, does the V-PCF need the mapping of V-PLMN S-NSSAI with H-PLMN S-NSSAI information for network slice replacement policy decision during roaming LBO scenario?

# 2 Actions

**To SA2**

**ACTION:** CT3 kindly asks SA2 to answer the above questions and update the SA2 specifications if necessary.

# 3 Dates of next TSG CT WG 3 meetings

CT3 Meeting calendar can be found at:

<https://www.3gpp.org/dynareport?code=Meetings-C3.htm>