**3GPP TSG-SA3 Meeting #108Adhoc-e *S3-222903-r2***

**e-meeting, 10-14 October 2022**

**Title: draft reply LS on protection of the URSP rules from HPLMN**

**Response to: LS S2-2207501/S3-222460 on LS on protection of the URSP rules from HPLMN from SA2**

**Release: Rel-18**

**Work Item: FS\_eUEPO**

**Source: SA3**

**To:** **SA2**

**Cc: CT1**

**Contact person: Helena Vahidi**

 **helena dot vahidi dot mazinani at ericsson dot com**

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

**Attachments:** -

# 1 Overall description

SA3 would like to thank SA2 for the LS on protection of the URSP rules from HPLMN.

As mentioned in the LS, there is no mechanism in Rel-15 to Rel-17 for the UE to verify that URSP rules are provided from HPLMN and that it has not been intercepted and modified by the VPLMN. Instead, in these releases the trust between HN and SN has been seen as enough. There is consensus in SA3 that the trust assumptions between VN and HN is adequate for Rel-15 to Rel-17 but consensus cannot be reached whether protection is required or not for Rel-18 and onwards. Some members believe it is required and other believe it is not needed, therefore further study is needed.

If SA2 believes that protection could add value in Rel-18, SA3 would like to be informed.

SA3 would like to inform SA2 that, if needed, similar security mechanisms as being used for protection of SoR and UPU could be reused to provide integrity protection for URSP rules, enabling the UE to verify that the information originates from the HPLMN and that it has not been altered by the VPLMN.

In case such a mechanism is introduced in Rel-18, it will impact UE and HPLMN. Both need to support the mechanism in order for it to work. Hence, there may also be need for a UE capability transfer from UE to HN. Since transport of URSP rules is transparent for AMF and V-PCF, there should be no impact on the serving network.

# 2 Actions

**To SA2**

**ACTION:** SA3 asks SA2 to take the above information into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#109 14 - 18 November 2022 Toulouse (France)

SA3#110e 16 - 20 January 2023 Online (electronic meeting)