**3GPP TSG-SA WG2 Meeting #154AH-eS2-2301321**

**E-Meeting, 16th – 20th January 2023**

**Title: [draft] LS on secured and trusted access to the serving PLMN OAM server by a MBSR**

**Response to: None**

**Release: Rel-18**

**Work Item: VMR**

**Source: SA2**

**To: SA3, SA5**

**Cc: RAN3, RAN2**

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Attachments: none

**1. Overall Description:**

SA2, as part of VMR work in rel-18, is introducing the support of MBSR (mobile base station relay) in the 3GPP 5GS. The MBSR may access a network (either due to MBSR is owned by a third party or MBSR is roaming) that the MBSR is not a subscriber of. This is different from the existing IAB architecture where the IAB node is assumed to be owned and operated by the same PLMN the IAB node has a subscription with, and roaming is not applicable.

For the MBSR to be fully integrated in the serving PLMN where it operates at a given point in time, the MBSR needs to be able to access the serving PLMN OAM server securely. This assumes a trust relationship can be established between the MBSR OAM client and the OAM server of the serving PLMN.

SA2 has discussed the topic and consider that SA3 and SA5 advice should be sought on this topic. SA2 has considered the option to configure the UE with the necessary security credentials but could not conclude on whether this is done at registration time with the PLMN by the network providing the UE with suitable security material or it can be done by other offline methods (e.g. manual configuration and update of configuration when needed).

Lastly, is there any security issue to expose the IP address of the RAN OAM server to an inbound roamer MBSR or a third-party MBSR? Should an OAM server dedicated for MBSRs be used instead? is it a standards or a deployment issue?

**2. Actions:**

**To SA3 group.**

**ACTION:** SA2 kindly asks SA3 to provide feedback on the topic above.

**3. Date of Next SA2 Meetings:**

SA2#155                   February 20 - 24, 2023                                  Athens, GR

SA2#156 April 17 - 21, 2023 TBD