**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**

**Cc: SA5, RAN3**

**Contact Person:**

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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 can be owned by a third party or can roam to a network 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.

This could be a challenge from a security standpoint as the MBSR, to be fully integrated in the PLMN where it operates at a given point in time, needs to be able to access the local 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, which, particularly in roaming case, can be difficult to preconfigure and update.

SA2 has discussed the topic and concluded that SA3 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 offline with methods not in scope of 3GPP (which may be quite complex operationally).

Lastly, is there any security issue to expose the IP address of the RAN OAM server to an inbound roamer device or a third-party device? Should a dedicated server be considered?

**2. Actions:**

**To RAN2 and RAN3 group.**

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

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

[Next SA2 Meetings dates](https://portal.3gpp.org/Home.aspx?tbid=375&SubTB=385#/)