**3GPP TSG-WG SA2 Meeting #154 *S2-220xxxx***

**Toulouse, France, November 14 – 18, 2022 (revision of S2-220xxxx)**

**Source: Huawei, HiSilicon**

**Title: KI#1: Updates of conclusions**

**Document for: Approval**

**Agenda Item: 9.9**

**Work Item / Release: FS\_VMR / Rel-18**

*Abstract: Updates of conclusions for KI#1.*

# 1. Discussion

### 1.1 RAN’s feedback on MBSR configuration

According to the Reply LS on FS\_VMR solutions review (R3-226048, R2-2211062) from RAN, RAN3 assumes that the OAM configures the mobile IAB-node in the same way as a Rel-16/17 IAB-node for the non-roaming case. Some parameters may also be configured by the IAB-donor as specified in TS 38.473 and TS 38.331.

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| - **SA2 point #1:** With regard to Key Issue#1 (as defined in clause 5.1), SA2 would like to understand the necessary parameters for the operation of a Mobile Base Station Relay (MBSR), i.e. the mobile-IAB node. Would these parameters only be provided by OAM servers, or would additional parameters be required, including in roaming cases.  **RAN2’s feedback on point #1:**The OAM-based parameter configuration is not in RAN2 scope. The roaming case is not in RAN2 scope.  **RAN3’s feedback on point #1:** For the non-roaming case, RAN3 assumes that the OAM configures the mobile IAB-node in the same way as a Rel-16/17 IAB-node. The OAM-based parameter configuration is out-of-scope for RAN3. Some parameters may also be configured by the IAB-donor as specified in TS 38.473 and TS 38.331. RAN3 further achieved the following agreement:  **RAN3 to discuss which of the OAM-configured and network-configured parameters may be pre-configured at a mobile IAB-node, after a baseline procedure for IAB-DU migration is developed.**  The roaming case is out-of-scope for Rel-18 mIAB. Therefore, OAM-configuration and OAM-connectivity for roaming mobile IAB-nodes have not been discussed. |

**[Observation 1]:** The OAM based configuration and optional IAB-donor based configuration are sufficient for MBSR operation. The PDU session between the MBSR and the OAM is in the SA2’s scope, which can follows the legacy mechanism.

### 1.2 UE policy based configuration

In the last SA2 meeting, there are some discussions about whether UE policy feature can be implemented to MBSR configuration.

For KI#1, the issue of whether UE Policy based MBSR configuration is needed or not is still under discussion. Some companies believe that some parameters supposed to be provided via UE policy can be sufficiently covered by current mechanism already, and other the parameters might not be useful or difficult to obtain. Specifically:

- Geographic area: it means in which area the MBSR can act as an MBSR. There are several alternatives for such purpose:

- Forbidden Area: The MBSR is not permitted to initiate any communication with the network for this PLMN within the Forbidden Area. Such information can be locally maintained at the MBSR side.

- Specific area information other than Forbidden Area in Mobility Restriction: they can be provided by the AMF in registration accept message.

- PLMN ID list that the MBSR is allowed to operate as MBSR: Could be part of PLMN selection mechanism, and such information can be pre-configured in the UE.

- Time and Speed: Configured via OAM if needed. And it is still unpersuasive to enforce the time and speed of MBSR in the network. Moreover, it is not clear how the network can enforce the two parameters.

**[Observation 2]:** It seems that supporting UE Policy mechanism for MBSR in Rel-18 is not urgent.

**Proposal: It is proposed to remove the UE policy based configuration from the conclusion of KI#1.**

# 2. Text Proposal

It is proposed to capture the following changes into TR 23.700-05 V1.1.0.

\* \* \* \* First change \* \* \* \*

## 8.1 Conclusions for KI#1

Proceed with OAM configuration that is largely borrowing what was developed for IAB nodes in previous releases with the addition of new security measures to establish trusted access to the serving PLMN OAM.

The PDU session between the MBSR and the OAM follows the legacy mechanism as defined in the TS 23.501 [2].

\* \* \* \* End of changes \* \* \* \*