**SA WG2 Meeting #S2-142E S2-2008802**

**November 16 ~ 20, 2020, Elbonia**

**Source: vivo**

**Title: UE authorization procedure**

**Document for: Approval**

**Agenda Item: 8.9**

**Work Item / Release: FS\_5MBS / Rel-17**

*Abstract of the contribution: UE authorization procedure.*

# 1 Introduction

This paper proposes procedure of UE authorization.

# 2 Discussion

The current example authorization procedure indicates SMF direct interaction with UDR, which is not supported now. Considering with inbound roaming, it is proposed that AF provided/preconfigured authorization information is stored in VPLMN, e.g. UDSF or NEF/MBSF/MBSF-C. Considering that HPLMN is not able to understand the MBS Session ID in VPLMN, it is proposed that HPLMN controls the access to MBS services by the subscription of feature level authorization.

In order to make the HPLMN more flexible to control the MBS services, it is proposed that the feature level authorization is not related to any PLMN or related to some specific PLMNs, so that HPLMN can control the access to MBS services per serving PLMN.

**Proposal: HPLMN can control the access to MBS services by feature level authorization per serving PLMN.**

# 3 Proposal

It is proposed to approve following changes:

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

7.1.X UE authorization procedure

The following call flow depicts the UE authorization procedure for a multicast session.

****

**Figure 7.1.4-1: UE authorization check**

1. [Optional] The content provider may send request for multicast session configuration, which may include UE authorization information, to the NEF (MBSF) as described in clause 7.0.1.

2. A UE requests to join a multicast session as described in clause 7.1.1, or AF updates an active multicast session to establish resources towards new members as described in clause 7.1.3a, which triggers the UE authorization check.

3. The SMF or MB-SMF invokes Nudm\_SDM\_Get (SUPI) toward UDM to obtain 5MBS feature level authorization indication, which indicates whether the UE is disallowed to join any MBS session in any PLMN or in some specific PLMNs. If the indication of disallowing to join any MBS session in any PLMN or in the serving PLMN is received, step 4 is skipped and UE authorization check fails. If the indication of disallowing to join any MBS session in any PLMN or in the serving PLMN is not received, or the indication of allowing to join any MBS session in any PLMN or in the serving PLMN is received, when the UE authorization is triggered by AF updating configuration with requirement of establishing resources for some UEs, step 4 is skipped and UE authorization check succeeds, otherwise continue with step 4.

4. [Optional] The SMF or MB-SMF obtains Multicast Authorization Data for the MBS Session, or for the MBS Session and the UE. The SMF or MB-SMF authorizes the UE based on the Multicast Authorization Data.

Editor’s note: Which NF is used to store service parameters, including UE authorization information, is FFS.

Editor’s note: It is FFS whether the session join can involve application layer authorization, which can be delivered by the MB-SMF via MB-UPF to the AF.

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