**3GPP TSG-CT WG4 Meeting #109-eS4-220489**

**E-Meeting, 6th – 12th Apr 2022**

**3GPP TSG-CT WG4 Meeting #109-eC4-222300**

**E-Meeting, 6th – 12th Apr 2022 Revision of C4-222099**

**Title: LS on Clarifications on Nmbstf\_MBSDistributionSession Service**

**Response to:**

**Release:** **Rel-17**

Work Item: 5MBS

Source: CT4

To: SA4

cc: SA2, CT3

Contact Person: Varini Gupta

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**Attachment: None**

# 1. Overall Description:

CT4 has started work on SBI specification of the *Nmbstf\_MBSDistributionSession* service and would like to request following clarifications from SA4:

**Background:** Table 4.5.6-3 of TS 26.502 specifies that "MBSF" is the assigner of the *MBSTF tunnel endpoint address*. On the other hand, Annex B.3.1 and B.3.2 specify that the "MBSTF" provides the *MBSTF tunnel endpoint address* to the MBS Application Provider (AF/AS).

It is CT4's understanding that the *MBSTF tunnel endpoint address* is assigned by MBSTF, and hence may be present in the response sent by MBSTF upon receiving the *Nmbstf\_MBSDistributionSession\_Create* request from the MBSF.

**Question 1:** CT4 would like to request SA4 to confirm if CT4's understanding is correct.

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**Background:** Table 4.5.6-1 of TS 26.502 specifies that *MB‑UPF tunnel endpoint address* has a cardinality of "*1..1*" for the MBS distribution session, and hence should be mandatorily passed by MBSF while sending *Nmbstf\_MBSDistributionSession\_Create* request to the MBSTF.

It is CT4's understanding that the MB-UPF can do a IGMP Join towards MBSTF if Nmb9 Interface supports multicast. In such case, there is no need to mandatorily provide *MB‑UPF tunnel endpoint address* to the MBSTF.

**Question 2:** CT4 would like to request SA4 to confirm if CT4's understanding is correct.

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**Background:** Table 4.5.6-1 of TS 26.502 specifies a parameter *MB‑UPF traffic flow information* which includes the multicast group destination address and port number. Clause 4.5.2 (Step #4) further indicates:

*"….. In response, the MB-SMF provides the MB-UPF ingest information (specifically, the MB‑UPF tunnel endpoint address and traffic flow information to be used by the MBSTF) to the MBSF."*

It is CT4's understanding that:

1. If Nmb9 supports multicast, the MBSF needs to provide a multicast address assigned by MBSTF to MB-SMF which further provides it to MB-UPF, and MB-UPF correspondingly performs IGMP Join towards the MBSTF.
2. If Nmb9 supports unicast, the MBSF needs to provide *MB‑UPF tunnel endpoint address* to the MBSTF.

Hence, there is no scenario in which the MB-UPF's "multicast group destination address and port number" needs to be sent to the MBSTF.

**Question 3:** CT4 would like to request SA4 to confirm if the CT4's understanding is correct.

**Question 4:** If the CT4's understanding is not correct, CT4 kindly request SA4 to clarify how this parameter is used by the MBSTF.

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**Background:** It is CT4's understanding that not all the parameters defined in Table 4.5.6-1 need to be sent by the MBSF to the MBSTF as part of *Nmbstf\_MBSDistributionSession\_Create* request and many of these parameters are for the consumption of MBSF on other interfaces (e.g. towards MB-SMF); especially the following parameters:

*MBS Session Context*

*QoS information*

**Question 5:** CT4 would like to request SA4 to confirm if CT4's understanding is correct.

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**Background:** Table 4.5.6-3 of TS 26.502 specifies a parameter *MBSTF traffic flow information* and is defined as:

*Details of the User Plane data traffic flow to be used by the MBS Application Provider for this MBS Distribution Session, including the multicast group destination address and port number*

It is CT4's understanding that this parameter is used by MBSTF to send an IGMP Join towards AF/AS in case Nmb8 supports multicast (in Proxy mode of Packet distribution method).

**Question 6:** CT4 would like to request SA4 to confirm if CT4's understanding is correct.

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**Background:** Clause 7.3.2.4 of TS 26.502 defines Nmbstf\_MBSDistribtutionSession\_Destroy service operation:

CT4 has generally used "Delete" keyword for service operations used for deleting a resource in the server.

**Question 7:** CT4 would like to request SA4 if the "Destroy" service operation can be renamed to "Delete"?.

# 2. Actions:

**To SA4:**

**ACTION:** CT4 kindly requests SA4 to provide responses to above questions.

# 3. Dates of next CT4 meetings

The upcoming CT4 meetings can be found in the [CT4 Meetings calendar](https://www.3gpp.org/dynareport/Meetings-C4.htm?Itemid=294)