**SA WG2 Meeting #144E (e-meeting) S2-210xxxx**

**April 12 – 16, 2021, Elbonia**

**Source: CATT**

**Title: Enhanced NRF services for MBS**

**Document for: Approval**

**Agenda Item: 8.9**

**Work Item / Release: 5MBS / Rel-17**

*Abstract of the contribution: This contribution proposes enhanced NRF services for MBS.*

1. Introduction

NRF services needs to be enhanced to support MBS, e.g. for MB-SMF discovery and selection as specified in TS 23.247 clause 7.1.2. Thus the present contribution proposes enhanced NRF services for MBS.

2. Proposal

It is proposed to include the following changes in TS 23.247.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1st Change (all new text)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 9.x NRF services

The NRF services defined in clause 5.2.7 of TS 23.502 [6] are enhanced to support MBS.

For Nnrf\_NFManagement service,

- Nnrf\_NFManagement\_NFRegister:

- If the consumer NF is MB-SMF, it may include S-NSSAI(s) and the associated NSI ID(s) (if available), DNN(s), MB-SMF service area, and the MBS Session ID(s) if available, in its NF profile

- Nnrf\_NFManagement\_NFUpdate:

- If the consumer NF is MB-SMF, it includes the MBS Session ID (i.e. TMGI or source specific IP multicast address), when a new MBS Session is configured/established in the MB-SMF.

For Nnrf\_NFDiscovery service,

- Nnrf\_NFDiscovery\_Request:

- If the target NF is MB-SMF, the request may include S-NSSAI(s) and the associated NSI ID(s) (if available), DNN(s), or the MBS Session ID.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*