**3GPP TSG-SA5 Meeting #155 S5-243294d1**

**Jeju, KR, 27 May - 31 May 2024**

**Source: China Unicom**

**Title: pCR TR 28.874 Add use case of MBS broadcast service management**

**Document for: Approval**

**Agenda Item: 6.19.15**

# 1 Decision/action requested

*The group is asked to discuss and approve the proposal.*

# 2 References

[1] 3GPP draft TR 28.874: " Study on management aspects of NTN phase 2 v0.0.0".

[2] SP-231733: " New SID on management aspects of NTN phase 2" .

[3] R3-241606:" Discussion on Support for NR NTN MBS Broadcast Service".

# 3 Rationale

This contribution proposes to add use case of the draft TR 28.874 based on SP-231733[2].

# 4 Detailed proposal

It proposes to make the following changes to the draft TR 28.874[1]

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| **1st Change** |

## 5.2 Management for mobility coordination

### 5.2.x Use case #X: MBS broadcast service management

#### 5.2.x.1 Description

The NTN can support Earth-fixed cell, quasi-Earth-fixed cell or Earth-moving cell. Signaling enhancements for the MBS Broadcast in NR NTN have been discussed on Earth-moving cells[3]. MBS Broadcast for intended service, since the coverage of NTN Uu Cells are large, which are not fixed to a geographical location and moves with the satellite movement, the MBS broadcast may not be intended for such a large area. MBS broadcast may be intended for a specific geo location which may not map to Uu Cell or Mapped Cell, it would be flexible to provision an Area of interest similar to Warning message, which can indicate a specific geo location.

Therefore, to provide better service of mobility management, area IDs can be configured via OAM and based on the ID, gNB can understand to which geolocation within NTN cell coverage it needs to broadcast the MBS service.

#### 5.2.x.2 Potential requirements

**REQ-NTN-MBS-X:** The 3GPP management system shall have the capability to configure NTN area IDs considering MBS services.

#### 5.2.x.3 Potential solutions

##### 5.2.x.3.1 Potential solution #<i>: <Potential Solution i Title>

5.2.x.4 Evaluation of potential solutions.

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| **End of Change** |