**3GPP TSG-SA5 Meeting #143-e *S5-*** ***223363rev1***

e-meeting, 9 - 17 May 2022

**Source: China Unicom**

**Title: Add key issue service-based management architecture for MOCN**

**Document for: Approval**

**Agenda Item: 6.5.13**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

[1] 3GPP TR 28.835 v0.1.0: “Management Aspects of 5G MOCN Network Sharing Phase2”

# 3 Rationale

It was approved to study the enhancement of management aspects for 5G MOCN Network Sharing [1]. One of the objectives of this new study item is studying investigate the management architecture of 5G MOCN network sharing. And the management architecture of network sharing in TS 32.130 is not service-based architecture, which cannot meet the management requirements of 5G MOCN network sharing. So the service-based management architecture for MOCN is proposed.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

***1st Change***

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 28.552: "5G performance measurements".

[3] 3GPP TS 28.541: "5G Network Resource Model (NRM); Stage 2 and stage 3"

[4] 3GPP TS 32.130: " Network sharing; Concepts and requirements"

[5] 3GPP TS 28.533: " Architecture framework"

***2nd Change***

## 5.X Issue #X: Service-based management architecture for MOCN

### 5.X.1 Description

The management architecture of network sharing in TS 32.130 [4] is not service-based management architecture, which cannot meet the management requirements of 5G MOCN network sharing. The Service Based Management Architecture (SBMA) need to be provided for MOCN networking sharing.

### 5.X.2 Potential solution

The service-based management architecture for MOCN is depicted in figure 5.X-1. It is compliant with 3GPP management reference models (TS 28.533 [5] and TS 32.130 [4]).



**Figure 5.X-1: Service-based management architecture for MOCN**

The service-based management architecture for MOCN shows that management functions may interact by consuming management services produced by other management functions:

- POP-NM can consume MnS(s) provided by MOP-NM and POP-RAN-DM.

- MOP-NM provides a set of MnS(s) for POP-NM and consumes MnS(s) provided by MOP-SR-DM.

- MOP-SR-DM provides a set of MnS(s) for MOP-NM and POP-RAN-DM provides a set of MnS(s) for POP-NM.

***End of Changes***