**3GPP TSG-SA5 Meeting #157 S5-246109d1**

Hyderabad, India, 14 - 18 October 2024

**Source: China Unicom**

**Title: Add evaluation, conclusion and recommendation for Use Case #4**

**Document for: Approval**

**Agenda Item: 6.19.19**

# 1 Decision/action requested

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

# 2 References

[1] 3GPP TS 23.501: " System architecture for the 5G System (5GS)".

[2] 3GPP TS 22.261: "Service requirements for the 5G system".

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

# 3 Rationale

As specified in TS 23.501[1]:

"The 5G System may also support Indirect Network Sharing deployment between hosting operator (i.e. shared network operator) and participating operator (see clause 6.21 of TS 22.261 [2], Figure 5.18.1-2 and Annex R), in which the RAN is shared. "

"For Indirect Network Sharing, the shared RAN is broadcasting multiple PLMN IDs, including the PLMN ID which represents the hosting operator and the PLMN IDs which represent participating operators."

In TS 32.130[3], RAN configuration enhancements for Indirect Network Sharing are supposed to be studied.

# 4 Detailed proposal

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

|  |
| --- |
| **1st Change** |

### 5.4.4 Evaluation of potential solutions

Only one potential solution is identified, which is feasible.

|  |
| --- |
| **2nd Change** |

# 6 Conclusion and Recommendation

## 6.X Use Case #4: RAN configuration management support for Indirect Network Sharing

This use case identifies that to achieve the management of RAN sharing for Indirect Network Sharing, multiple PLMN IDs with same Cell identity broadcast and multiple Cell identity broadcast are supposed to be supported configuring. In order to address this issue, the potential solution proposes some enhancements based on existing existing OperatorDU and NROperatorCellDU. Detailed description about this solution is in clause 5.4.3.

It is recommended to update OperatorDU and NROperatorCellDU definitions in TS 28.541[8] and add descriptions in TS 32.130[4]. According to this solution in the future normative work is to satisfy the requirements for RAN configuration management support for Indirect Network Sharing.

|  |
| --- |
| **End of changes** |