**3GPP TSG-SA5 Meeting #155 *S5-243328d1***

Jeju, South Korea, 27 - 31 May 2024

**Source: China Unicom**

**Title: Add new use case and requirements on S-RAN management of Indirect Network Sharing**

**Document for: Approval**

**Agenda Item: 6.19.19**

# 1 Decision/action requested

***The group is asked to discuss and approval.***

# 2 References

[1] S5-242035 Revised SID on Management of Network Sharing Phase 3.

[2] S2-2405669, CR 23.501, Indirect network sharing.

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

[4] 3GPP TS 22.261: "Service requirements for the 5G system".

# 3 Rationale

As agreed in S5-242035[1], WT-3 is described as "Investigate potential enhancements for Indirect Network Sharing scenarios". Since S2-2405669[2] has been approved in SA2, this contribution is to add new use case and requirements on management supporting for Indirect Network Sharing.

In TS 32.130[3], 3GPP management system has already supported S-RAN management in two types of active RAN sharing scenarios, MOCN and GWCN. As a novel type of active RAN sharing defined in TS 22.261[4], S-RAN of Indirect Network Sharing is supposed to be managed by 3GPP management system.

# 4 Detailed proposal

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| **1st Change** |

# 5 Use Cases

## 5.X Use Case#X: S-RAN management of Indirect Network Sharing

### 5.X.1 Description

According to TS 22.261[2], Indirect Network Sharing is defined as follow:

 "a type of NG-RAN Sharing in which the communication between the Shared NG-RAN and the Participating Operator’s core network is routed through the Hosting NG-RAN Operator’s core network ".

Therefore, Indirect Network Sharing is proposed to share NG-RAN indirectly through core network. Regarding 5G MOCN, NG-RAN is shared directly by the connection to each POP’s core network. According to the definition of S-RAN in TS 32.130[4], shared NG-RAN in the Indirect Network Sharing scenario might be identified as S-RAN. As a result, each POP in the Indirect Network Sharing scenario could have requirements to manage S-RAN. The hosting operator, as MOP in the Indirect Network Sharing scenario, should have capabilities to allow authorized consumers to manage S-RAN.

### 5.X.2 Potential requirements

**REQ-NetShare\_Req-1:** The 3GPP management system of the MOP shall support a capability allowing its authorized consumer to manage S-RAN in the Indirect Network Sharing scenario.

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| **End of Change** |