**3GPP TSG-SA3 Meeting #108e *draft\_S3-222082-r1***

**e-meeting, 22 - 26 August 2022**

**Source: Huawei, HiSilicon**

**Title: New Key Issue on Security and privacy of path switch between L2 U2NW and direct connections**

**Document for: Approval**

**Agenda Item: 5.3**

# 1 Decision/action requested

***Approve the new KI proposal to TR 33.740***

# 2 References

[1]

# 3 Rationale

The contribution proposes to add a Key Issue about Security and privacy of path switching between direct network communication path and indirect network communication path for L2 UE-to-Network Relay.

# 4 Detailed proposal

pCR

\*\*\*BEGINNING OF THE 1st CHANGE\*\*\*

## 5.X Key Issue #X: Security and privacy of path switching between direct network communication path and indirect network communication path for Layer-2 UE-to-Network Relay

### 5.X.1 Key issue details

The key issue about path switching between direct network communication and indirect L2 UE-to-Network Relay path with service continuity consideration is introduced into TR 23.700-33 [2]. The Key Issue in TR 23.700-33 [2] aims to study the trigger, path selection, path switch procedure and service continuity of the path switching between direct Uu communication path and indirect L2 U2NW relay path.

It is expected that the corresponding security procedures will be studied along with the Key Issue in TR 23.700-33 [2]. In this key issue, how to offer security and privacy protection of the path switching between direct Uu communication and indirect L2 U2NW relay paths will be studied.

### 5.X.2 Security threats

Potential security and/or privacy vulnerabilities exist if confidentiality and/or integrity protection is not assured during the path swtich procedures, the attacker could intercept the message exhcnage during the path switch procedures.

### 5.X.3 Potential security requirements

The 5G system shall support the means of securing the procedures of path switching between path switching between direct Uu communication path and indirect L2 U2NW relay path.

The 5G system shall support the means of privacy preserving during procedures of path switching between path switching between direct Uu communication path and indirect L2 U2NW relay path.

\*\*\*END OF THE CHANGES\*\*\*