**3GPP TSG-SA3 Meeting #102Bis-e *S3-211133-r1***

**e-meeting, 1 - 5 March 2021** Revision of S3-20xxxx

**Source: Samsung**

**Title: New key issue for Restricted Access in AMF re-allocation**

**Document for: Approval**

**Agenda Item: 2.17**

# 1 Decision/action requested

***It is requested to add a new Key issue for restricted access in AMF re-allocation in TR 33.864.***

# 2 References

[1] 3GPP TR 33.864 Study on the security of Access and Mobility Management Function (AMF) re-allocation.

# 3 Rationale

This contribution proposes to add a new Key issue for restricted access in AMF re-allocation in TR 33.864.

# 4 Detailed proposal

***\*\*\*\*\*\*Start of Change\*\*\*\*\*\****

5.X Key issue #X: Restricted Service Access for AMF-Re-allocation

5.X.1 Key Issue Details

In TR 33.864, the current captured solutions have several assumptions such as having a shared well-connected NF or impact of having KAMF key with the RAN or the handling of unprotected messages, which indirectly compromises the security requirement about isolation of network slices and security risks of accepting unprotected messages.

Since, the currently captured, some of the solutions or any future solution may require either N14 interface or any well-connected network function to act as a middle node for sharing security context. It is not clear exactly what amount of information could be shared by said initial AMF to the target AMF.

5.X.2 Security Threats

Providing complete details or parameters of the UE with other AMF, which operates in isolation, is always a security risk (as producer AMF may manipulate the information), which can be avoided by limiting the consumer AMFs access.

5.X.3 Potential Security Requirements

5GS shall support a mechanism for service access with restriction.

5GS shall support a mutual authorization between consumer AMF and producer AMF to perform restricted service access.

***\*\*\*\*\*\*End of Change\*\*\*\*\*\****