**3GPP TSG-SA3 Meeting #102bis-e *S3-210990r1***

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

**Source: Huawei, HiSilicon**

**Title: pCR – New KI: privacy issue on broadcasting slice information**

**Document for: Approval**

**Agenda Item: 2.21**

# 1 Decision/action requested

***Approve the new KI proposal to eNS2 TR***

# 2 References

[1] 3GPP TR 38.832: “Study on enhancement of Radio Access Network (RAN) slicing”

# 3 Rationale

This contribution proposes a new key issue on privacy issue on broadcasting slice information. This is inline with the study on slicing in RAN2 [1].

# 4 Detailed proposal

pCR

\*\*\* BEGINNING OF 1st CHANGES (all text are new) \*\*\*

## 5.X Key Issue #X: privacy issue on broadcasting slice information

### 5.X.1 Key issue details

A gNB may support multiple and different network slices, and on different frequencies in different regions.

In TR 38.832 [x1], in order to support fast cell selection and cell reselection for particular network slices, solutions based on broadcasting slice related information, e.g. NSSAI or others, are being studied. In this key issue, the following questions are to be addressed:

- Whether broadcasting slice related information in this scenarios will cause any privacy issue

### - If yes, mitigation solutions need to be provided5.X.2 Security threats

NSSAI contains sensitive information both for the UE and the network. If gNB broadcast supported NSSAI without security protection or a UE using the NSSAI in the clear for RAN access, it will lead to sensitive information leakage.

### 5.X.3 Potential security requirements

The 5G system shall prevent sensitive information from being leaked, if NSSAI is broadcast by gNB in clear.

5G system shall support the privacy of NSSAI used by the UE for network slice selection while accessing RAN.

\*\*\* END OF 1st CHANGES \*\*\*

\*\*\* BEGINNING OF 2nd CHANGES \*\*\*

# 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".

[x1] 3GPP TR 38.832: “Study on enhancement of Radio Access Network (RAN) slicing”

\*\*\* END OF 2nd CHANGES \*\*\*