**3GPP TSG-SA3 Meeting #102bise *S3-210872***

**e-meeting, 1 – 5 March 2021**

**Source: CATT, Samsung, Nokia, Nokia Shanghai Bell**

**Title: Add new key issue for user consent in TR 33.867**

**Document for: Approval**

**Agenda Item: 2.14**

# 1 Decision/action requested

***It is proposed to add one new key issue for user consent in TR 33.867. SA3 is kindly requested to approve this contribution.***

# 2 References

[1] 3GPP TR 33.867, v0.3.0

# 3 Rationale

A key issue on user consent for UE related data analytics is discussed at last meeting. But it was noted due to user consent definition discussion that not related to the issue itself. After analysis, we have revised some content of S3-210187, and believe that it is necessary to resubmit this issue so that issues of user consent can be fully and clearly studied in SA3.

This pCR proposes to add new key issue to TR 33.867.

# 4 Detailed proposal

\*\*\*\*\*\* START OF CHANGE \*\*\*\*\*\*\*\*\*

6.X Key Issue #X User consent for UE related data analytics

### 6.X.0 Use case mapping

The 5GS supports the collection and utilisation of the UE data and provide it to the NWDAF as an input to generate the analytic information. The NWDAF can collect mobility and communication data of the UE to enable UE related data analytics as depicted in clause 6.7.2 and 6.7.3 in TS 23.288[4]. The relavant use case is depicted in clause 5A.1.

6.X.1 Key issue details

As defined in TS 23.288[4], the NWDAF service consumer requests analytics from the NWDAF for both UE’s mobility and communication statistics and predictions of a group of UEs or a specific UE.

The 5G NFs and OAM exposes the UE Identifier, UE location information to the NWDAF. The NWDAF supports to collect UE mobility and communication related information from NF, OAM, and to perform data analytics to provide UE mobility and communication statistics or predictions. The input data includes the UE ID, the UE location, the communication parttern parameters and timestamp, etc. The analytics output includes the observed location statistics and predicted location prediction during the analytics target period, the confidence of this prediction and the ratio, the communication statistics and predictions.

Further, 5GS NFs will collect data about the UE being served. The NFs keep privacy related sensitive data such as user profiling information, location information, etc. UE related data may also need to be transferred to another NF to fulfil a service request or, e.g., for analytics purposes. For example, the NWDAF shares the analytics results to the consumer NF which may be an internal NF or a 3rd party and exposes the UE Identifier, UE location in order to support tracking or checking the valid location of the UE.

In order to meet users related private information requirements stated above, user consent is needed.

6.X.2 Security threats

If the UE related private information about UEs, such as the UE identifier, location data, communication data, are collected by the NFs as input without the user consent, it may cause privacy issue. 6.X.3 Potential security requirements

5GS shall support mechanism to enable user consent to indicate whether the home or visited network is allowed to collect UE related data to do analysis, as well as for which purposes and by which data controllers and processors.

The 5G system shall provide the user consent to relevant 5GC NFs for the retrieving UE related data.

It shall be possible ensure use of data only for consented to purposes.

\*\*\*\*\*\*\*\*\*END OF CHANGE\*\*\*\*\*\*\*\*\*