**3GPP TSG-WG SA2 Meeting #152E e-meeting *S2-2206956***

**Elbonia, August 17 – 26, 2022 (revision of S2-220xxxx)**

**Source: China Mobile, vivo**

**Title: Cover sheet for presentation of TR 23.700-81 to TSG SA for information**

**Document for: Approval**

**Agenda Item: 10.2**

**Work Item / Release: FS\_eNA\_Ph3/Rel-18**

*Abstract of the contribution: This contribution proposes the TR 23.700-81 to be sent to TSG-SA#97 for information.*

**3GPP TSG-SA Meeting #97e Tdoc <DocNumber>**

**<Location>, <Country>, <Date>**

**Title: Presentation of Report to TSG:
TR 23.700-81, Version 0.4.0**

**Source: TSG SA WG2**

**Document for: Information**

**Abstract of document:**

The Technical Report in 23.700-81 further study the necessary inputs to NWDAF and the necessary NWDAF outputs and to study the potential architecture enhancement, new scenarios and R17 leftover for network data analytics in order to support:

- Study possible mechanisms for improved correctness of NWDAF analytics

- Whether and how NWDAF can assist application detection

 Whether and how to support data and analytics exchange in roaming case

- Data collection and data storage enhancements (including DCCF and ADRF enhancements, e.g., DCCF relocation, ADRF selection, ML model storage)

- Whether and how to enhance trained ML Model sharing for different vendors.

- Study whether and how interactions between NWDAF can leverage MDAS/MDAF functionality for data collection and analytics

- NWDAF-assisted URSP

- Enhancements on QoS Sustainability analytics

- Study whether and how to enhance architecture to support federated learning in the 5GC

- NWDAF enhancements considering the finer granularity of location information than TA and cell level

For each of the above capabilities, the conclusions of the study identify whether a solution is required for the normative phase and, if required, which solution to consider in the normative phase.

**Changes since last presentation to TSG SA:**

This is the first presentation to TSG SA.

The TR is considered 75% complete.

A total of 10 Key Issues are started to perform evaluation and conclusions. All the Key Issues but KI#9 and KI#10 reach interim conclusion so far.

**Outstanding Issues:**

None.

**Contentious Issues:**

1. A LS is sent to SA3, requesting SA3 to provide feedback on how to ensure ML model integrity, confidentiality and availability in the context of ML model sharing between NWDAFs from different vendors, such that only the authorized NFs (NWDAFs) can access the ML model.
2. Regarding the data and analytics exchange between two NWDAFs in different PLMNs, a LS is sent to GSMA asking GSMA to provide possible feedback to the requirements and SA3 requesting feedback on:
	1. The security aspects outlined in the key issue description? For example, are there any privacy and security protection for data and/or analytics exchange between PLMNs (VPLMN and HPLMN) already defined in SA3 or are there any privacy and security issues foreseen when exchange data and/or analytics between PLMNs?
	2. Whether it is necessary to verify user consent for UE-specific data and/or analytics by the VPLMN? If so, what scenario required user consent verification? How to verify user consent in roaming scenario in VPLMN?