



中国移动
China Mobile

New SID on security aspects of enablers for Network Automation for 5G - phase 3

China Mobile
2022.1

www.10086.cn

SA2 Rel-18 study item SP-211330 Study on Enablers for Network Automation for 5G - phase 3 was approved at SA#94 in December, 2021.

Below are working tasks of SP-211330 which have **potential security aspects** need to be studied:

🌿 WT#2.1: Whether and how NWDAF can assist application detection

- **Implies that NWDAF may collect sensitive user data. User data protection level should be higher or there may be user privacy issues.**

🌿 WT#2.2: Whether and how to support data and analytics exchange in roaming case (including network sharing)

- **a) Considering security aspects of potential roaming architecture b) Data is shared with different PLMNs, privacy issues between different PLMNs need to be studied.**

🌿 WT#3.4: Study whether and how interactions between NWDAF can leverage MDAS/MDAF functionality for data collection and analytics

- **Security aspects of potential new interface between NWDAF and MDAS/MDAF**

🌿 WT#4.1: Study whether and how to enhance architecture to support federated learning in the 5GC

- **a) Security aspects of potential new architecture and new network function. b) Data transmission protection of federated learning.**

Objective 1: Security aspects of potential architecture enhancement

- roaming, supporting federated learning, interaction between NWDAF and MDAS/MDAF, etc.

Objective 2: Privacy Issue

- application detection, roaming, etc.

Objective 3: Security aspects of Federated Learning

- Homomorphic encryption, etc.



中国移动
China Mobile

Thank you

www.10086.cn