**3GPP TSG SA WG 1 Meeting #108 draft S1-244557**

**Orlando, USA, 18-22 November 2024** *(revision of S1-244269)*

**Source: NTT DOCOMO**

**pCR Title: Pseudo-CR on Network simplification**

**Draft Spec: 3GPP TR 22.870 v0.0.0**

**Agenda item: 8.1.1**

**Document for: Approval**

**Contact:** [**fumito.kuroiwa.kw@nttdocomo.com**](mailto:fumito.kuroiwa.kw@nttdocomo.com)**,** [**azem@docomolab-euro.com**](mailto:azem@docomolab-euro.com)**, kenta.yamauchi.xe@nttdocomo.com**

*Abstract: <provide a short description of the content>*

**1. Introduction**

pCR on network simplification for system and operational aspect.

**2. Reason for Change**

The purpose of creating this contribution is to address the increasing complexity and operational challenges associated with network functions in the 5G system. By proposing a simplified communication framework for 6G system, the aim is to enhance system efficiency, enable quicker recovery from failures.

**3. Conclusions**

Define the requirements for 6G system to support network simplification.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TR 22.870 v0.0.0.

\* \* \* First Change \* \* \* \*

# 5 System and Operational Aspects

Editor's Note: "System and Operational Aspects" facilitates system and network operation features that underpin overall operation, covering aspects that apply across use cases and services, and those that relate to network operations. These aspects include, for example: migration scenarios, interworking with earlier 3GPP systems, interworking with non-3GPP system, roaming and interconnection, network simplification, network sharing, security, privacy, resilience, sustainability and energy efficiency, device diversity, support of legacy services

## 5.X Use Case 1: Network simplification on 6G system

### 5.x.1 Description

The 5G system has supported a various feature to accommodate a wide range of use cases. The increased number of features is characterized by flexibility and programmability, such as diverse mobility management. This increase may lead to operational challenges, further introducing complexity in system management and possibly causing delays in identifying the root causes during network failures.

In 6G system, this use case proposes a simplified communication framework based on essential communication (e.g., mobility management), which serves as the foundation for mobile communication. By simplifying the network, this approach aims to mitigate operational complexity and facilitate prompt recovery and root cause analysis during network failures.

### 5.x.2 Existing features partly or fully covering the use cases functionality

none.

### 5.x.3 Potential New Requirements needed to support the use case

[PR 5.x.3-001] A 6G system shall support the fundamental network functions required for providing essential communication operations and services, where additional value is provided by incorporating the optional network functions with no impact on the fundamental communication functions and operations

NOTE: In the context of this requirement, the minimum, essential communication operations are the session management, mobility management and authentication.

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