**3GPP TSG-SA5 Meeting #156 *S5-245157***

Maastricht, The Netherlands 19 - 23 August 2024

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Melbourne, Australia, 10 - 13 September 2024

**Title: Presentation of Report to TSG:
TR 28.915, Version 0.4.0**

**Source: SA WG5**

**Document for: Information**

**Abstract of document:**

The technical report conducted a study on management aspect of Network Digital Twin (NDT) in TR 28.915, which describes the terms and concepts of NDT. The technical report also identified and documented the use cases and corresponding potential requirements, possible solutions by using the NDT.

There are multiple valid and valuable use cases which may benefit from NDT. Solutions are proposed which are based on a new Management Service and associated network resource modelling. The following are the use cases discussed in this TR, categorized into three major groups.

1)Scenario group 1: Generic capabilities, including Nested NDTs, NDT support to network automation and ML model training data generation.

2)Scenario group 2: Verification: checking a given policy, configuration, scenario, traffic condition, etc, including RAN energy saving policy verification, signalling storm configuration verification, emergency preparedness, network failure and risk prediction, configuration verification, etc.

3)Scenario group 3: network topology and traffic visualization

**Changes since last presentation to SA Meeting #105:**

This is the first presentation.

**Outstanding Issues:**

None.

**Contentious Issues:**

None.

Change history of this document:

1999-11-17: original issue

2007-09-06: removal of references to Working Groups; bring names of TSGs up to date; correction of typo

2015-01-06: adds tdoc header & removes redundant information below