**3GPP TSG SA WG5 Meeting #156 S5-244831**

**Maastricht, The Netherlands 19 - 23 August 2024**

**Source: China Mobile**

**Title: Add the pCR TR 28.915 Add conclusions**

**Document for: Approval**

**Agenda Item: 6.19.5**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

[1] 3GPP draft TR 28.915: “Management and orchestration; Study on management aspects of Network Digital Twin v0.1.0”.

[2] SP-231727 "New Study on management aspects of Network Digital Twin"

# 3 Rationale

This contribution proposes to add the conclusions for TR 28.915 based on SP-231727 [2]

# 4 Detailed proposal

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| **First Change** |

# 6 Conclusions

The technical report conducted a study on 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 an new Management Service and associated network resource modelling. It is proposed to proceed to normative phase with the following scope:

1. Focus on selected grouping scenarios, in each group capturing the common characteristics of different use cases:
2. Scenario1: Generic capabilities

- Nested NDTs (usecase 7)

- NDT support to network automation (usecase 5)

- ML model training data generation (usecase 6)

1. Scenario 2: Verification: checking a given configuration, scenario, traffic condition, etc

- RAN energy saving policy verification (usecase 1)

- Signalling storm configuration verification (usecase 2)

- Emergency preparedness (usecase 3)

- Network failure and risk prediction (usecase 4)

- Configuration verification (usecase 9)

1. Scenario 3: Playback

- Network topology and traffic visualization (usecase 8)

1. Develop the new proposed Management Service to support the groups of scenario by using the NDT
2. Develop the detailed datatypes to support the new proposed Management Service

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| **End of Changes** |