**3GPP TSG-SA5 Meeting #162 *S5-254046***

Goteborg, Sweden, 25 - 29 August 2025

**Source: Huawei**

**Title: Pseudo-CR on TR 28.886 Add failure resolution use case**

**Document for: Approval**

**Agenda item: 6.20.6**

**Spec: 3GPP TR 28.886**

**Version: 0.0.0**

**Work Item: FS\_eMDAS\_Ph4**

**Comments**

It is proposed to add a use case for MDA assisted failure resolution to address the following work task:

**WT-3.2** Study possible new MDAS capabilities to help detect, diagnose and resolve problems in the managed network.

**Proposed Changes**

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

# X Use cases

## X.Y Investigate new and enhanced analytics related capabilities

### X.Y.Z Use case Z: MDA assisted failure resolution

#### X.Y.Z.1 Description

As networks become more complex, it becomes more difficult to quickly resolve network failures, where network performance becomes degraded or lost completely. By looking only at the alarm list, it can be difficult to identify the most serious network failures. Network automation is essential to speed up the identification and resolution of network failures, thereby increasing the stability of the network. This use case enables an MDAS consumer (e.g. an automated trouble ticketing system) to automatically perform the steps needed to resolve a network failure.

The MDAS consumer requests the MDAS producer to identify alarms which may relate to network failures. The MDAS producer analyses alarm data and network data to correlate alarms with deteriorating performance in the network. The MDAS producer analyses the cause of deteriorating performance. The MDAS producer reports possible network failures and the possible cause to the MDAS consumer.

The MDAS consumer requests the MDAS producer to diagnose the cause of a network failure. The MDAS producer performs analysis to locate the likely cause of the network failure (e.g. network function, virtualized resource, physical resource). The MDAS producer reports the possible cause of the network failure to the MDAS consumer.

The MDAS consumer requests the MDAS producer to recommend how to resolve a network failure. The MDAS producer performs analysis to identify which domain is causing the network failure. The MDAS producer calculates possible methods (e.g. re-configurations) to resolve the network failure. The MDAS producer reports the possible methods to the MDAS consumer.

The MDAS consumer requests the MDAS producer to pre-verify that a particular method (e.g. re-configuration) will resolve a network failure. The MDAS producer simulates or emulates the effect of the method (e.g. by using NDT) to evaluate if the network failure is resolved. The MDAS producer reports the result of the evaluation to the MDAS consumer.

#### X.Y.Z.2 Potential requirements

#### X.Y.Z.3 Potential solutions

#### X.Y.Z.4 Evaluation of solutions

\* \* \* End of Changes \* \* \* \*