**3GPP TSG-SA5 Meeting #143-e *S5-223417***

**e-meeting, 9- 17May 2022**

**Source: CMCC, Huawei**

**Title: pCR TR 28.830 Add solution of key issue performance degradation**

**Document for: Approval**

**Agenda Item: 6.5.7.2**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposal.***

# 2 References

[1]  [[SP-220153](C:\\Users\\gwx350375\\Downloads\\Docs\\SP-220153.zip" \t "_blank)](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3693): "New SID on Fault Supervision Evolution"

[2] S5-222733: "draft TR 28.830 Fault supervision evolution"; v0.1.0

# 3 Rationale

This document describes how to use anomaly event management to automatically process and associate multi-dimensional data, quickly identify and generate quality deterioration anomaly events, and eliminate manual information check.

It is proposed to add solution of key issue performance degradation in draft TR 28.830.

# 4 Detailed proposal

This document proposes the following changes in TR 28.830.

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| **1st Change** |

# 5 Key Issues and potential solutions

## 5.X Key Issue #2: Performance degradation

### 5.X.1 Description

Editor’s note: This clause provides a description of the key issue.

### 5.X.2 Potential solutions

#### 5.X.2.a Potential solution #<1>: <Performance degradation>

##### 5.X.2.a.1 Introduction

Editor's Note: This clause describes briefly the potential solution at a high-level.

This section describes how to identify and resolve performance degradation anomaly events.

##### 5.X.2.a.2 Description

Editor's Note: This clause further details the potential solution and any assumptions made.

(1) Awareness: collects data such as alarms, resource utilization, performance, configuration or anomaly event information from other anomaly event MnS produce, etc.

(2) Analytics:

- Anomaly event identification: performs multi-data source correlation, including top cell identification, performance indicator trend correlation, and alarm correlation, to generate performance degradation anomaly events.

- Anomaly event diagnosis, demarcation, and solution recommendation: performs demarcation and root cause diagnosis, analyzes the performance degradation causes of each top N cell, and recommends potential recovery solutions.

(3) Decision: provides performance degradation anomaly event evaluation, and resolution decision.

(4) Execution: executes corresponding recovery measures according to the diagnosis result and selected solution.

### 5.X.3 Conclusion - Impact on normative work

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| **End of change** |