**3GPP TSG-SA5 Meeting #143-e *S5-223411***

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

**Source: CMCC, Huawei**

**Title: pCR TR 28.830 Add background**

**Document for: Approval**

**Agenda Item: 6.5.7.1**

# Decision/action requested

***The group is asked to discuss and approve the proposal in section 4***

# 2 References

[1] SP-220153 [:](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3693) "New SID on Fault Supervision Evolution"

# 3 Rationale

This pCR is to add background for TR 28.830.

# 4 Detailed proposal

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| **Start of modification** |

# X Background and Concepts

## X.1 Background

Existing fault supervision acts in a responsive manner. For instance, service failure or performance degradation prediction may not be supported, performance degradation alarms are based on pre-configured threshold which are not automatically adaptive to variation of service requirements. A large amout of alarms may be generated in different network elements or different domains for the same root cause, which brings about the burden of handling of potential issues in each separate domains. However, these situations without active intervening, may result in potential issues and therefore it is better for NOP to predict and intervene in advance to avoid service outage.

To specify the approach to evolve exiting fault supervision to address this requirement, several aspects need to be studied:

1) The necessity of a potential new terminology and/or extensions to existing terminologies to cover these situations of pain points from the field network;

2) The relationship between the evolved fault supervision and performance management and the fault supervision management to identify the evolution direction and requirements;

3) The clear relationships between the evolved fault supervision and the eMDAS/eCOSLA and the necessity of introducing more intelligence capabilities (e.g., fault prediction, fault prevention, fault recovery mechanism analysis) and closed loop management capabilities to assist the evolved fault supervision to recover the faults and the above situations automatically.

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| **End of modifications** |