**3GPP TSG-SA5 Meeting #144-e *S5-224179rev2***

**e-meeting, 27 June – 1 July 2022**

**Source: CMCC, Huawei**

**Title: pCR TR 28.830 Add background**

**Document for: Approval**

**Agenda Item: 6.7.7.2**

# 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

Traditional network operation and maintenance passively responds to changes through fault supervision, performance management and other services, with the main purpose of providing information to assist status monitoring and manual decision-making operations.

With the increasing complexity and dynamics of 5G networks, more and more scenarios are emerging showing the fact that, through the introduction of automation and intelligent technologies, the management system itself needs to be equipped with the the ability to actively identify, predict in advance, make dynamic decisions, and autonomously execute and deal with some network anomalies with minimal or zero manual efforts.

Identifying the potential requirements and solutions of these new scenarios for the 3GPP management system to guide the subsequent normative work is the goal of the present document.

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

1. The relationship between fault supervision evolution and other aspect, e.g. performance management.
2. How fault supervision evolution supports 5G use cases, such as 5G SLS deterioration, risk prediction.
3. Relation and interaction with eMDAS and eCOSLA for evolved fault supervision, e.g., how to take advantage of and integrate eMDAS capabilities into the solutions and if any, recommended capabilities needed for eMDAS enhancements.
4. Whether there are use cases in eMDAS and eCOSLA that are not covered by the existing Fault Supervision.
5. Whether new capabilities and additional alarm data are needed to support eMDAS and eCOSLA.

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| **End of modifications** |