**3GPP TSG-SA5 Meeting #162 *S5-254035***

Goteborg, Sweden, 25 - 29 August 2025

**Source: NTT DOCOMO, Verizon, Nokia, Ericsson**

**Title: Pseudo-CR on Rel-20 TR 28.881 Add issue description, requirement and solution for intent decomposition**

**Document for: Approval**

**Agenda item: 6.20.1**

**Spec: 3GPP TR 28.881**

**Version: 0.0.0**

**Work Item: FS\_IDMS\_MN\_Ph4**

**Comments**

This pCR provides use-case description, requirements and solutions for WT-7 Investigate the ability to trace the decomposition across intent handling functions.

**Proposed Changes**

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

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[Z] 3GPP TS 28.312: "Management and orchestration; Intent driven management services for mobile networks".

\* \* \* Next Change \* \* \* \*

4.X Use case #X: Assisting and reporting intent decomposition across intent handling functions

4.X.1 Description

An intent-driven MnS producer can translate an intent and decompose it into one or more new intents. If these newly generated intent(s) cannot be handled by the intent-driven MnS producer, it can submit them to another intent-driven MnS producer(s). In this case, the former intent-driven MnS producer acts as the consumer of the latter intent driven MnS producer(s), to which the newly generated intents are submitted.

The issue arises when the decomposition of an intent into new intents is carried out by an intent driven MnS producer, these decomposed intents may be submitted to intent-driven MnS producers of managed domains that are not desired by the original intent-driven MnS consumer. The intent-driven MnS consumer needs to be able to assist the intent driven MnS producer regarding the decomposition of intents to other MnS producers. Furthermore, the intent driven MnS consumer needs to receive a report regarding this decomposition. This is also important for troubleshooting an intent-driven MnS producer, to check whether it is acting as expected.

4.X.2 Potential requirements

**REQ-Intent\_DCMP-1:** The intent driven MnS producer should have the capability to allow an MnS consumer to specify a context to be able to assist the intent-driven MnS producer regarding the decomposition of an intent to other MnS producers.

**REQ-Intent\_DCMP-2:** The intent driven MnS producer should have the capability to allow an intent-driven MnS consumer to receive a report regarding the decomposition of an intent to other MnS producers.

4.X.3 Potential solutions

#### 4.X.3.1 Potential solution #1

TBD

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