**3GPP TSG-SA5 Meeting #162 *S5-253487rev2***

Goteborg, Sweden, 25 - 29 August 2025

**Source: NTT DOCOMO, Verizon**

**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 Issue investigations and potential solutions for new areas

Editor's note: this clause will contain issues and potential solutions related to the new scenarios, requirements and generic capability for intent driven management.

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

4.X.1 Description

An intent-driven MnS producer can translate an intent into one or more new intents, as described in 3GPP TS.28.312 [Z], clause 4.2.3, and 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.

When the intent decomposition is carried out by an intent driven MnS producer, the intent driven MnS consumer does not have any means to assist and trace this decomposition into new intents which may end up in intent driven MnS producers of managed domains that are not desired by the original intent owner. 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 for decomposition of an intent.

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

4.X.3 Potential solutions

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

This solution proposes to reuse and enhance the existing generic intent and intent report information models defined in 3GPP TS 28.312 [Z].

The following attributes need to be defined and included in intent IOC in 3GPP TS 28.312 [Z].

* To assist intent driven MnS producer with intent decomposition a new context will be defined which MnS consumer may use to express the context for intent decomposition.

Editor’s Note: More detail on candidate values for the context is FFS.

The following attributes need to be included in IntentReport IOC in 3GPP TS 28.312 [Z].

* The identity of each intent handling function to which the decomposed intents are sent
* The identity of each intent resulting from the decomposition

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