**3GPP TSG-SA5 Meeting #162 *S5-254042***

Goteborg, Sweden, 25 - 29 August 2025

**Source: Huawei**

**Title: Pseudo-CR on TR 28.881 Add new issue for Intent handling capability registration and discovery**

**Document for: Approval**

**Agenda item: 6.20.1**

**Spec: 3GPP TR 28.881**

**Version: V0.0.0**

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

**Comments**

This contribution proposes to add a new issue for the Enhancement of Intent exploration based on SP-250861.

This pCR related to WT-4.

**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".

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

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

## 4.X Issue#X: Intent handling capability configuration, registration and discovery

### 4.X.1 Description4.X.1.1 Intent handling capability description

In TS 28.312 [X], the existing use case, requirements and solution (including IntentHandlingCapability <<dataType>>) for intent handling capability obtaining are defined, which allows the MnS consumer to query the intent handling capabilities for a specific intent handling function. The use case also describes that different intent handling functions are deployed to support different areas of the same intent expectation object domain. However, the IntentHandlingCapability <<dataType>> (including supportedExpectationObjectType and supportedExpectationTargetInfoList) is not allowed to describe the supported area information. In additional, for radio network intent, multiple intent handling functions can be deployed to support different radio access technologies (e.g. EUTRAN, NR) and/or different frequencies. It is important to describe the supported radio access technologies (e.g. and frequencies for the radio network intent handling functions.

Several optional intent negotiation functionalities (including Intent Feasibility check, Intent Exploration and Intent Fulfilment Negotiation) are introduced in the TS 28.312 [X]. One intent handling function may support all the negotiation functionalities or part of the negotiation functionalities. For example, intent handling function A support both Intent Feasibility check and Intent Exploration functionalities, while intent handling function B only support Intent Feasibility check functionality. So it is important to allow MnS consumer to know which negotiation capabilities can be provided by a specific intent handling function.

### 4.X.1.2 Intent handling capability registration and discovery

In 3GPP TS 28.537 [Y], the existing use case, requirements and solution (including MnSInfo IOC) for MnS discovery are defined, which allows MnS consumer to retrieve the list of MnS instances which can provide the intent driven management capability from MnS Registry. However, MnS consumer may need to request to retrieve a MnS instance with a specific intent handling capability from MnS Registry.

### 4.X.1.3 Intent handling capability configuration

As TS 28.312 [X] described, multiple intent handling functions maybe deployed to support different expectation objects or to support different areas of the same intent expectation object domain. Operator may need to configuration the intent handling capability for each intent handling function with different responsibilities. For example, intent handling function A is configured to support handling radio service intent in the Venue A, while intent handling function B is configured to support handling radio service intent in the Venue B.

### 4.X.2 Potential requirements

**REQ-IDMS\_IHCO-CON-1:** The intent driven MnS producer should have capabilities enabling an MnS consumer to obtain intent handling capabilities of each intent handling function, including supported contexts (e.g. coverageAreaPolygonContext, rATContext).

Editor’s Note: which contexts can be modelled in intent handling capabilities needs further investigation.

**REQ-IDMS\_IHCO-CON-2:** The intent driven MnS producer should have capabilities enabling an MnS consumer to obtain intent negotiation capability of a specific intent handling function.

**REQ-IDMS\_IHCO-CON-3:** The 3GPP management system should have capabilities enabling the configuration of the intent handling capability for a specific intent handling function.

Editor’s Note: which content of the intent handling capability can be configured needs further investigation.

### 4.X.3 Potential solution

* TBD

### 4.X.4 Evaluation of potential solutions

TBD

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