**3GPP TSG-SA5 Meeting #143-e *S5-223321***

e-meeting, 9 - 17 May 2022

**Source: China Mobile, Huawei, Nokia**

**Title: pCR 28.312 Update description of value DEGRADED in clause 6.2.1.3.6**

**Document for: Approval**

**Agenda Item: 6.6.3**

# 1 Decision/action requested

***The group is asked to discuss and approval.***

# 2 References

[1] 3GPP draft TS 28.312: "Management and orchestration; Intent driven management services for mobile networks v1.1.0".

# 3 Rationale

The description of value DEGRADED of the notFullfilledState field in clause 6.2.1.3.6 FulfillmentInfo << dataType >> of TR 28.312 is ambiguous, since the first half of this sentence state that "an intent that was previously fulfilled", but the 2nd half  state that "is found not be meeting all the initially stated requirements". And there some typos need to be corrected.

This contribution proposes to improve the description of value DEGRADED of the notFullfilledState field to make it more clear and to correct the typos in clause 6.2.1.3.6 of TR 28.312.

# 4 Detailed proposal

It proposes to make the following changes to TS 28.312[1].

|  |
| --- |
| **1st Change** |

##### 6.2.1.3.6 FulfillmentInfo << dataType >>

###### 6.2.1.3.6.1 Definition

This dataType represents the properties of a specific fulfilment information for an aspect of the intent (i.e. either an expectation, a target or the whole intent). The fulfilment information describes the producer's assessment of the degree to which a specific aspect of the intent has been fulfilled. The consumer may however assess the fulfilment differently e.g., the consumer may evaluate the delivered outcome or network state to compute its fulfilment satisfaction.

The fulfillmentStatus field indicates whether the intent is fulfilled or not fulfilled. The possible values of the fulfilment include:

* NOTFULFILLED: This is the default status for any aspect of the intent and the fulfillmentStatus remains as " NOTFULFILLED " until the producer is satisfied that the actions undertaken meet the requirements as stated by the consumer.
* FULFILLED: This is the status if the producer considers that the intent, expectation or target has been fulfilled as desired by the consumer that created the intent. The consumer may provide a fulfilment satisfaction report that either confirms the fulfilment or describes its evaluation the fulfilment.

The degree of fulfilment of an intent with the NOTFULFILLED status may have multiple explanations and related states. These different progress states and conditions are recorded in the notFullfilledState field. The possible values of the notFullfilledState include:

* ACKNOWLEDGED: this is the default status and is the initial notFullfilledState right after the intent has been received.
* COMPLIANT: this is the state after the feasibility check has been run for the intent and the intent accepted as being compliant for fulfillment
* DEGRADED: this is the state if an intent that was previously fulfilled but after a period of observation it is found not be meeting all the initially stated requirements.
* SUSPENDED: this is the state if the producer decides to suspect the fulfilment of the intent, expectation or target for whatever reason. This is notFullfilledState must be supported by a reason such as the event(s) that were observed when fulfilment was attempted.
* TERMINATED: This state is registered if the respective aspect of the intent (i.e. either an expectation, a target or the whole intent) shall not be considered for fulfilment e.g. when an authorized consumer sends an indication terminating the specific aspect of the intent. For instance, if the consumer sends an update of the intent in which a particular target is eliminated, then that target shall be marked as cancelled.
* FULFILLMENTFAILED: This is the state when the producer decides that the intent, expectation or target cannot be fulfilled. This is state must be supported by a reason such as the event(s) that were observed when fulfilment was attempted.

For some scenarios (in particular for the "SUSPENDED" and the " FULFILLMENTFAILED" notFullfilledStates ), the notFullfilledState should be supported by extra information describing or related to the state. This extra information is recorded into the notFullfilledReasons field.

|  |
| --- |
| **End of Changes** |