**3GPP TSG-SA5 Meeting #140-e *S5-216301rev1***

**e-meeting, 15 - 24 November 2021**

**Source: AsiaInfo**

**Title: Discussion on Intent Model**

**Document for: Discussion**

**Agenda Item: 6.4.10**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposal.***

# 2 References

[1] 3GPP draft TS 28.312: “Management and orchestration; Intent driven management services for mobile networks v0.6.0

# 3 Rationale

3.1 model definition for Intent

The intent MnS producer may report about the fulfilment result of the intent. In SA5#139-e, there was a consensus to introduce IntentReport to represent the intent fulfilment feedback information.

**Proposal 1**: An Intent IOC should include IntentExpectation <<dataType>> and IntentReport<<dataType>>.

3.2 model definition for IntentExpectation

Intent MnS consumer should produce normalized data and information in a consistent format that the intent MnS producer can understand.

As defined in clause 4.1.1[1], an intent is specified as expectations including requirements, goals and constraints for a specific service or network management workflow. Therefore, the more general attributes of IntentExpectation can be described as Object, Target and Constraint.

**Proposal 2**: An IntentExpectation should include Object, Target, and Context.

3.3 model definition for IntentReport

The intentFulfilStatus describes the intent fulfilment result and by MnS producer and can be read by the consumer. The intentFulfilStatus should be moved to the subAttributes of IntentReport.

**Proposal 3:** Introduce intentFulfilStatus to IntentReport.

3.4 Conclusion

These above proposals here imply that an intent can be modelled as a combination of tables 1-2:

Table 1: Attributes of the *Intent*

|  |  |
| --- | --- |
| Attribute Name | Support Qualifier |
| userLabel | M |
| intentExpectations | M |
| IntentReport | M |

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table 2: Attributes of the IntentReport

|  |  |
| --- | --- |
| Attribute Name | Support Qualifier |
|  |  |
|  |  |
| intentFulfilStatus  | M |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

# 4 Detailed proposal

It proposes to discuss and endorse the following proposals:

**Proposal 1:** An Intent IOC should include IntentExpectation <<dataType>> and IntentReport<<dataType>>

**Proposal 2:** An IntentExpectation should include Object, Target, and Context.

**Proposal 3:** Move intentFulfilStatus as subAttributes of IntentReport.

Please find detail proposals in pCR S5-216360.