**3GPP TSG-SA5 Meeting #157 *S5-246026***

**Hyderabad, India, 14 - 18 October 2024**

**Source: Samsung, Nokia**

**Title: Conclusions and Recommendations**

**Document for: Approval**

**Agenda Item: 6.19.4**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

None

# 3 Rationale

This provides conclusion and recommendation for all the use cases in clause 6.

# 4 Detailed proposal

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| **Next Change** |

# 6 Conclusions and Recommendations

## 6.1 Closed control loop and intent

Intent and closed control loops are different, but complementary concepts as discussed in clause 4.x in Table 4.x.1. An intent manager may utilize one or several closed control loops for implementing the assurance of intent requirements. This means intent managers can become consumers of closed control loops.

A closed control loop that provides (MnS producer) an intent API is configured using intent. This closed control loop therefore meets the definition of being an intent manager in the role of intent handler. If the closed control loop acts by sending intent, it implements the intent owner role. This means, that closed control loop can either be utilized as integral part of intent management or directly implement intent management. However, the functional scope of intent management exceeds the proposed scope of closed control loop. Intent management considers, for example, the negotiation of requirements and intent handlers are already driving deployment decisions and processes. Furthermore, the reporting on achievements and results to the source of intent is an integral part of intent management and realized through intent reports.

The normative work should follow the principles in the conclusion.

## 6.A Dynamic CCL Creation

It is recommended to normatively define the use case and requirements as proposed in clause 5.1.1 and 5.1.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.1.3 and 5.1.4 respectively.

## 6.B Triggered CCL

It is recommended to normatively define the use case and requirements as proposed in clause 5.2.1 and 5.2.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.2.3 and 5.2.4 respectively.

## 6.x CCL creation based on Historical CCL data

It is recommended to normatively define the use case and requirements as proposed in clause 5.3.1 and 5.3.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.3.3 and 5.3.4 respectively.

## 6.x CCL for fault management

It is recommended to normatively define the use case and requirements as proposed in clause 5.5.1 and 5.5.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.5.3 and 5.5.4 respectively.

## 6.x CCL conflicts management

It It is recommended to normatively define the use case and requirements as proposed in clause 5.6.1and 5.6.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.6.3 and 5.6.4 respectively.

It is recommended to develop normative specification for :

 - the "hierarchical coordination with distributed execution" approach as the means for handling conflicts among CCLs.

 - the use case on goal targets conflicts handling following the solution in in clause 5.6.3.3 on goal targets coordination.

 - the use case on direct actions conflicts handling following the solution in in clause 5.6.3.4 on direct actions coordination.

 - the use case on Indirect targets conflicts handling following the solution in in clause 5.6.3.5 on Indirect targets coordination.

 - the use case on Action-execution-time conflicts handling following the solution in in clause 5.6.3.6 on Action-execution-time coordination.

## 6.x CCL scope management

It is recommended to normatively define the use case and requirements as proposed in clause 5.7.2 and 5.7.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.7.3 and 5.7.4 respectively.

## 6.x CCL-impact assessment and resolution

It is recommended to normatively define the use case and requirements as proposed in clause 5.8.1 and 5.8.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.8.3 and 5.8.4 respectively.

## 6.x Consumers feedback on CCL actions

It It is recommended to normatively define the use case and requirements as proposed in clause 5.9.1 and 5.9.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.9.3 and 5.9.4 respectively.

## 6.x CCL decision escalation

It is recommended to normatively define the use case and requirements as proposed in clause 5.10.1 and 5.10.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.10.3 and 5.10.4 respectively.

## 6.x Performance Evaluation of a Closed Control Loop

It is recommended to normatively define the use case and requirements as proposed in clause 5.11.2 and 5.11.2 respectively.

It is recommended to develop normative specification for the use case following the solution and its evaluation in clause 5.11.3 and 5.11.4 respectively.

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| **Last Change** |