**3GPP TSG-SA5 Meeting #155 *S5-243146***

**Jeju, Korea (Republic Of), 27th May 2024 - 31st May 2024**

**Source: Samsung**

**Title: Rel-19 pCR TR 28.867 Performance monitoring of Closed control loop**

**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

# 4 Detailed proposal

|  |
| --- |
| **First Change** |

5. Use Cases

5.1 Use case 1: Performance Evaluation of a Closed Control Loop

5.1.1 Description

The advanced monitoring functionalities of a CCL can provide real-time insights into the performance and outcomes of a CCL. The monitoring activity for a Closed Control Loop may result in further actions that happen in the operation phase, e.g. evaluate and update, in order to change the closed control loop settings and improve its performance. So there is a need to evaluate performance of a Closed Control Loop itself. Such metrics are important to understand and change a CCL’s behaviour and to improve its performance to pursue the assigned goal(s).

For example, certain performance aspects of a CCL can be very crucial to know in order to evaluate and decide upon a CCL’s performance, such as number of breached goals, time taken to meet a breached goal, number of conflicts occurred by a CCL etc. With the knowledge of such performance aspects of an existing CCL a consumer can more effectively update or create a new CCL.

An operator can also compare different CCLs based on these performances and choose the best one for its network deployment.

5.1.2 Potential Requirements

REQ-CCL-PERF-1: The 3GPP management system should be able to obtain a CCL’s performance with respect to the total number of occurrences of an assurance goal breach.

REQ-CCL-PERF-2: The 3GPP management system should be able to obtain a CCL’s performance with respect to the time taken by CCL to meet a breached goal.REQ-CCL-PERF-3: The 3GPP management system should be able to obtain a CCL’s performance with respect to the total number of conflicts occurred by a CCL.

Note 1: The only solution to fulfil these requirements would be to define new measurements and KPIs related to CCL performance.

5.1.2 Potential Solutions

5.1.2.1 Solution-x

5.1.2.2 Solution-y

5.1.3 Evaluation of solutions

5.1 Use case B

|  |
| --- |
| **End of Change** |