**3GPP TSG-SA5 Meeting #154 *S5-241282***

Changsa, China, 15 April - 19 April 2024

**Source: Samsung, Asiainfo**

**Title: Conflict Management**

**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 the new use case of CCLM.

# 4 Detailed proposal

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

# 3 Definitions of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**Implicit Conflict:** Implicit Conflict is a conflict between actions performed by multiple CCLs as part of execution step of the CCL.

**Explicit Conflict:** Explicit Conflict is a conflict between goals of multiple CCLs.

|  |
| --- |
| **Second Change** |

# 5. Use Cases

5.1 Conflict Management

5.1.1 Description

Conflict between CCL may happen during the initiation when the goals of the new CCL contradicts with the goal of an existing CCL. These conflicts are called Explicit Conflict. If this happens the consumer and the producer shall be able to deal with the conflict appropriately. This may include (not limited to) prioritizing the new CCL over the existing CCL or vice versa, updating the goals/targets of one of the CCL to avoid conflict.

In addition, several CCLs can target the same Managed Function as part of its Execute step and may decide for a conflicting actions. These conflicts are called Implicit Conflict. In this scenario, the same Managed Function is targeted by multiple CCL with conflicting configurations. For example, a CCL targeting the optimal energy saving may decide to scale-in the resources assigned to a slice. Whereas, a CCL targeting minimum guaranteed throughput may decide to scale-out the resources of a same slice. This will result in sub-optimal network management and efficiency.

Editor’s Note: The applicability of conflict at a more granular level is FFS.

5.1.2 Potential Requirements

REQ-CON-FUN-01: The 3GPP management system should enable authorized consumer to be notified about the implicit conflict.

Note: Implicit conflicts may happen when actions from multiple CCLs target the same Managed Function.

REQ-CON-FUN-02: The 3GPP management system should enable authorized consumer to be notified about the explicit conflict.

Note: Explicit conflicts may happen when multiple CCLs have the conflicting goals.

REQ-CON-FUN-03: The 3GPP management system should enable authorized consumer to receive recommendation enabling consumer to take appropriate actions to resolve implicit conflict.

REQ-CON-FUN-04: The 3GPP management system should enable authorized consumer to receive recommendation enabling consumer to take appropriate actions to resolve explicit conflict.

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