3GPP TSG SA WG5 Meeting 136-e S5-212101

electronic meeting, online, 01 March – 09 March

**Source: Nokia, Nokia Shanghai Bell**

**Title: Add Capabilities for an intent Driven Management Service**

**Document for: Approval**

**Agenda Item: 6.4.10**

# 1 Decision/action requested

***The group is asked to discuss and approve proposed changes.***

# 2 References

[1] 3GPP draft TS 28.312: “Management and orchestration; Intent driven management services for mobile networks v0.2.0”.

# 3 Rationale

This contribution proposes to add specification requirements for an Intent-driven Management Service

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# 4 Detailed proposal

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

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| **1st Change** |

# 5 Specification Level Requirements

Editor's note: this clause will contain specific use case and requirements for intent driven management.

## 5.x Capabilities for an Intent driven MnS

Since there are multiple domains which may be producers of Intent-driven MnSs, the internal implementation details of the intent fulfilment systems within the producers of Intent-driven MnSs will vary significantly. These internal implementations in any one domain are as such out of scope of this specification and are left to vendor differentiation. Instead, this specification shall describe the aspects of the Intent-driven MnSs that enable all possible intents to be implemented (including generic intent and 3gpp domain-specific intent (e.g. RAN management domain, 5GC management domain). The following high-level concepts shall apply:

* The Intent-driven MnS shall be a combination of component A B and C of the service-based management architecture
* A component B shall be represented as an Information Object Class for which intents can be instantiated and administered.
* the Intent-driven MnS consumer shall be able to request to create, read, update or delete instances of intents.
* the Intent-driven MnS consumer shall be able to request the Intent-driven MnS producer for the intents which can be instantiated
* the Intent-driven MnS producer shall be able to provide a list of the intents which can be instantiated on the producer.
* A GenericIntent IOC shall be defined for any domains. And domain-specific intent IOC shall be inherited from the GenericIntent IOC according to the interests of that domain.
* The GenericIntent IOC shall allow any kind of standardized or vendor-specific intent to be to specified and implemented
* The specification may include informative examples of how the Intent IOCs (including GenericIntent IOC and domain specific intent IOC) may be used to define, create, update intents.
* A an intent performance management object that may be used to report the performance of the intent

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| **End of changes** |