**3GPP TSG-SA5 Meeting #148eS5-233324**

Electronic meeting, Online, 17 -25 April 2023

**Source: Ericsson, Deutsche Telekom**

**Title: Discussion paper on ServAttrCom and Intent**

**Document for: Approval**

**Agenda Item: 6.7.4**

# 1 Decision/action requested

***The group is asked to endorse the detailed proposal in section 4.***

# 2 References

[1] [NG.116](https://www.gsma.com/newsroom/wp-content/uploads/NG.116-v8.0.pdf) GSMA Generic Network Slice Template, Version 8.0, 27 January 2023

[2] [TS 28.541](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3

# 3 Rationale

One of the inputs for the definitions of attributes used in ServiceProfile is the GSMA Generic Slice Template, see reference [1]. Table 3.1 shows the ServiceProfile attributes from TS 28.541, see reference [2], those that are derived from NG.116 are shown with a different color (brown). The attributes from GST are all instances of dataTypes which include a variable called ServAttrCom. The definition of ServAttrCom is also derived from GST, see reference [1] and allows an MnS producer to give additional meaning to an attribute. The additional meaning (category, tagging, exposure) are also defined in GST [1] and enables an MnS producer to set the values on ServAttrCom which tells an MnS consumer how the attribute will be treated by the MnS producer. An MnS consumer cannot set nor change servAttrCom.

Table 3.1 ServiceProfile attributes [1]

|  |  |
| --- | --- |
| Mandatory attributes | Optional attributes |
| plmnInfoList | maxNumberofUEs | uLThptPerSlice | survivalTime |
| sST | coverageArea | uLThptPerUE | radioSpectrum |
|  | dLLatency | dLMaxPktSize | reliability |
|  | uLLatency | uLMaxPktSize | maxDLDataVolume |
|  | uEMobilityLevel | maxNumberofPDUSessions | maxULDataVolume |
|  | networkSliceSharingIndicator | kPIMonitoring | nBIoT |
|  | availability | userMgmtOpen | synchronicity |
|  | delayTolerance | v2XCommModels | positioning |
|  | dLDeterministicComm | termDensity | sliceSimultaneousUse |
|  | uLDeterministicComm | activityFactor | energyEfficiency |
|  | dLThptPerSlice | uESpeed | nssaaSupport |
|  | dLThptPerUE | jitter | n6Protection |

In an intent-based solution the ServiceProfile attributes are captured in IntentExpectations, the different dataTypes (expectationObject, expectationTarget, expectationContext etc.) used for IntentExpectations provide a framework for the producer on how to interpret the information (attributes) captured in by an Intent. The consumer can set the information in the IntentExpectations (except for fulfilment information), and the producer fulfils the IntentExpectations and provide fulfilmentInformation accordingly.

Observation

There is no need for the producer to maintain the information in ServAttrCom as the consumer knowns how the producer will interpret the provided requirements. Therefore, the ServAttrCom dataType is not needed for an MnS producer that handles network slice intents.

# 4 Detailed proposal

The group is asked to endorse the following observation in clause 3:the ServAttrCom attribute is not to be used in intent expectation for network slice.