**3GPP TSG SA WG5 Meeting #137e S5-214454**

**Online, , 23 Aug 2021- 31 Aug 2021**

**Source: Samsung**

**Title: S5-214454 pCR 28.312 ServiceDeploymentExpectation Datatype definition**

**Document for: Approval**

**Agenda Item: 6.4.10**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposals.***

# 2 References

None

# 3 Rationale

This contribution provides the concrete ServiceDeploymentExpectation definition.

# 4 Detailed proposal

|  |
| --- |
| **1st modified section** |

#### 6.2.1.3.2 ServiceDeploymentExpectation <<IOC>>

#### 6.2.1.3.2.1 Definition

This class defines the expectation for a service to be deployed. This can be used by the consumer to request for a service deployment. The MOI of this class is to be created to request for a service deployment using intent.

The attribute serviceTargets will provide the requirements for the service. Service requirements will be translate into resource requirements for underlying Network Slice Instance/Network Slice Subnet Instances (NSI/NSSI) to satisfy the service requirements.

The attribute serviceAvaliability and edgeIdentification contributes to the selection of a particular edge data network where the service is to be deployed.

Editors Note: The definition of Edge in terms of 3GPP NRM is FFS. The reference to relevant definition should be made when available.

#### 6.2.1.3.2.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
|  |  |  |  |  |  |
| serviceTargets | M | T | T | T | T |
| serviceAvaliability | O | T | T | T | T |
| edgeIdentification | CM | T | T | T | T |

#### 6.2.1.3.2.3 Attribute constraints

|  |  |
| --- | --- |
| Name | Definition |
| edgeIdenfitication Support Qualifier | Condition: It shall be present when the expectation is to a deploy the service at the edge of the network. |
|  |  |

#### 6.2.1.3.2.4 Notifications

TBD

#### 6.2.1.3.3 ServiceAva <<dataType>>

#### 6.2.1.3.3.1 Definition

This data type defines the time deration when the service will be available.

#### 6.2.1.3.3.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| startTime | M | T | F | T | T |
| endTime | M | T | F | T | T |

#### 6.2.1.3.3.3 Attribute constraints

None

#### 6.2.1.3.3.4 Notifications

TBD

#### 6.2.1.3.4 EdgeID <<dataType>>

#### 6.2.1.3.4.1 Definition

This data type describes the identification of the edge network.

#### 6.2.1.3.4.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Support Qualifier | isReadable | isWritable | isInvariant | isNotifyable |
| edgeID | CM | T | F | T | T |
| geoLocation | CM | T | F | T | T |

#### 6.2.1.3.4.3 Attribute constraints

|  |  |
| --- | --- |
| Name | Definition |
| geoLocation Support Qualifier | Condition: either this or edgeID attribute shall be present. |
| edgeID Support Qualifier | Condition: either this or geoLocation attribute shall be present. |

#### 6.2.1.3.4.4 Notifications

TBD

#### 6.2.1.4 Attribute definition

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| userLabel | A user-friendly (and user assignable) name of the intent.  allowedValues: Not Applicable | type: String  multiplicity: 1  isOrdered: F  isUnique: F  defaultValue: None  isNullable: False |
| intentExpectation | It indicates the expectations including requirements, goals and constraints given to a 3GPP system.  The intentExpectation includes the intentAreas which describes a list of coverage areas for the intent to be applied.  Editor’s Note: the detailed intentExpectation is for further discussion | type: FFS  multiplicity: \*  isOrdered: F  isUnique: F  defaultValue: None  isNullable: False |
| intentFulfilStatus | It describes the status of the intent fulfilment result, which is configured by MnS producer and can be read by MnS consumer.  allowedValues: "FULFILLED", “NOT\_FULFILLED  Editor’s Note: whether other allowed values should be supported is FFS, and the name for the attribute intentFulfilStatus is FFS. | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| serviceType | The describes the type of service and can have values related to three defined service type, see 23.501  allowedValues: "EMBB", “URLLC”, “MIOT” | type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| serviceRequirements | This provides various service requirements in form of ServiceProfile[x]. Service requirements will be translate into resource requirements for underlying Network Slice Instance/Network Slice Subnet Instances (NSI/NSSI) to satisfy the service requirements. | type: ServiceProfile  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| serviceAvaliability | This describes the time window during which the service shall be available. This contributes to the selection of the appropate edge data network to be used for service deployment. | type: ServiceAva  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| edgeIdentification | This identifies the edge network where the service need to be deployed. | type: EdgeID  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| startTime | This describes the beginning time of the service availability time window. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| endTime | This describes the ending time of the service availability time window. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| edgeID | This identifies the edge network. This will be a DNN, see TS 23.501. | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| geoLocation | This describes the geographical area at which the service should be deployed and made available. This will take a form of either single latitude & longitude or a TAI | type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
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| **End of 1st modified section** |