**3GPP TSG SA WG5 Meeting #138e S5-214457**

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

**Source: Samsung**

**Title: pCR 28.538 EAS Lifecycle Management Procedure**

**Document for: Approval**

**Agenda Item: 6.4.21**

# 1 Decision/action requested

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

# 2 References

None

# 3 Rationale

The lifecycle management of EAS is an integral part of edge computing. This contribution provides the procedural flow of the same.

# 4 Detailed proposal

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| **First modification** |

X. Procedural Flows

x.1 EAS Instantiation

The following procedures creates/instantiate EAS including selecting appropriate EDN to be used. The procedure is used by ASP (Application Service Provider, see TS 23.558) to host their application on an available EDN.



Figure x.1-1: EAS instantiation

1. ASP consumes the provisioning MnS and invoke operation createMOI for EASFunction IOC to request the provisioning MnS Producer to instantiate the EAS.
2. Provisioning MnS Producer sends a response against CreateMOI operation with status attribute as “OperationInProgress”, indicating the EAS instantiation in-progress.
3. Provisioning MnS Producer selects the appropriate EDN (or set of EDNs) based on the EAS requirements provided in the request. The EDN can be selected either by considering the individual requirement or by grouping the multiple requirements as single selection criteria. When the grouping is used all the requirement specified as part of a group should be satisfied. Following are examples of various grouped selection criteria:
   * Geo-location and Latency can be combined as one selection criteria influencing the selection as in at what location the requested latency can be provided depending on the target geographical area.
   * Affinity/Anti-affinity and Cost can be combined as one selection criteria influencing the selection as in what cost will be incurred to satisfy Affinity/Anti-affinity with a particular existing Edge Application.
4. Provisioning MnS Producer selects the appropriate EES if available in the selected EDN based on the information provided in the request.
5. Provisioning MnS Producer derives the requirements for VNF instance based on the EAS requirements.
6. Provisioning MnS Producer requests NFVO via the Os-Ma-nfvo interface to instantiate EAS VNF instances.
7. Provisioning MnS Producer creates the MOI for EASFunction IOC.
8. Provisioning MnS Producer sends a response against CreateMOI operation with status attribute as “OperationSucceeded” indicating the successful instantiation for an EAS.
9. Provisioning MnS Producer may send notifyMOICreation to notify authorized subscribes about the newly instantiated EAS.

Editor Notes: This requires update for generic provisioning management service, defined in 3GPP TS 28.532, to support asynchronous mode of operation.

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| **End of First modification** |