3GPP TSG-SA WG6 Meeting #39-e S6-201384

**E-meeting, 31 August – 8 September 2020**

**Source: ETRI**

**Title: Alignment between functionalities of functional entities and Procedures**

**Spec: 3GPP TS 23.558 v0.4.0**

**Agenda item: 7.5**

**Document for: Approval**

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# 1 Discussion

Clause 6.3 in TS 23.558 describes supporting functions/functionalities of the functional entities of the architecture and clause 8 describes different procedures to illustrate how these functional entities interact each other to support functions needed for service provision, registration, discovery, service/network exposure and service continuity.

Analysing those procedures described in clause 8, we have identified that some supporting functions/functionalities should be included in the functional entities described in clause 6.3.

Therefore, this pCR suggests adding the identified supporting functions to clause 6.3 Functional entities for consistency.

The fist column “Procedures” in the below table summarizes the procedures described in clause 8.3 and the second column “Additional supporting functions” indicates that which functionality should be added to which functional entity.

|  |  |  |
| --- | --- | --- |
| Procedures | | Additional supporting functions |
| 8.3 Service provisioning | * EEC sends service provision request to ECS | n/a |
| 8.4 Registration | * EEC sends registration request to EES | Add the registration functionality to EES |
| * EAS sends registration request to EES | Add the registration functionality to EES |
| * EEC sends registration request to EES | Add the registration functionality to ECS |
| 8.5 Discovery | * EEC sends EAS discovery request to EES | Add the discovery functionality to EES |
| 8.6 EES capability exposure to EAS | * EAS sends UE location request to EES   (request/response & sub/notify) | Add the EES capability exposure functionality to EES |
| * EAS sends User plane path management event request to EES |
| * EAS sends Application Client Information request to EES |
| * EAS sends UE Identifier API request to EES |
| * EAS sends Session with QoS request to EES |
| 8.7 Network capability exposure to EAS | - | n/a |
| 8.8 Service continuity | * EAS sends EAS discovery request to EES * EES sends EES discovery request to ECS   (This topic is under discussion in the group) | n/a |

# 2 Proposal

It is proposed to modify the following clauses of TS 23.558 v0.4.0.

*BEGINING OF CHANGE*

## 6.3 Functional entities

### 6.3.2 Edge Enabler Server

Edge Enabler Server (EES) provides supporting functions needed for Edge Application Servers and Edge Enabler Client.

Functionalities of Edge Enabler Server are:

a) provisioning of configuration information to Edge Enabler Client, enabling exchange of application data traffic with the Edge Application Server;

b) supporting the functionalities of API invoker and API exposing function as specified in 3GPP TS 23.222 [6];

c) interacting with 3GPP Core Network for accessing the capabilities of network functions either directly (e.g. via PCF) or indirectly (e.g. via SCEF/NEF/SCEF+NEF);

d) support the functionalities of application context transfer;

e) supports external exposure of 3GPP network and service capabilities to the Edge Application Server(s) over EDGE-3;

f) support the functionalities of registration (i.e., registration, update, and de-registration) for the Edge Enabler Client(s) and the Edge Application Server(s); and

g) support the functionality of discovery of the Edge Application Server(s) available in the Edge Data Network

### 6.3.4 Edge Configuration Server

Edge Configuration Server (ECS) provides supporting functions needed for the Edge Enabler Client to connect with an Edge Enabler Server.

Functionalities of Edge Configuration Server are:

a) provisioning of Edge configuration information to the Edge Enabler Client. The Edge configuration information includes the following:

1) the information for the Edge Enabler Client to connect to the Edge Enabler Server (e.g. service area information applicable to LADN); and

2) the information for establishing a connection with Edge Enabler Servers (such as URI).

NOTE: The Edge Configuration Server can be deployed in the MNO domain or can be deployed in 3rd party domain by service provider.

b) support the functionalities of registration (i.e., registration, update, and de-registration) for the Edge Enabler Server(s).

*END OF CHANGES*