

oneM2M IoT SL pre-integrated with 5G (3GPP) Specifications for cloT & SCEF/NEF

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oneM2M baseline Architecture supports interworking with 3GPP and 3GPP Cellular Internet of Things (CIoT) Features such as IP and non-IP Data Control Plane Data Delivery. The oneM2M system may leverage the IoT related Features and Services that 3GPP added in Releases 10 through 15. Features and Services may be accessed by an ADN-AE, MN-CSE, or an ASN-CSE that is hosted on a UE and an IN-CSE that is able to access services that are exposed by a MNO.

The "3GPP Trust Domain" in Figure 5.2-1 captures the Functional entities that shall be part of the 3GPP Domain (the Network). Although the Figure 5.2-1 shows that the IN-CSE and IN-AE are outside of the 3GPP Domain, the IN-CSE may be part of the Operator domain (Fig. 4.2-1b).

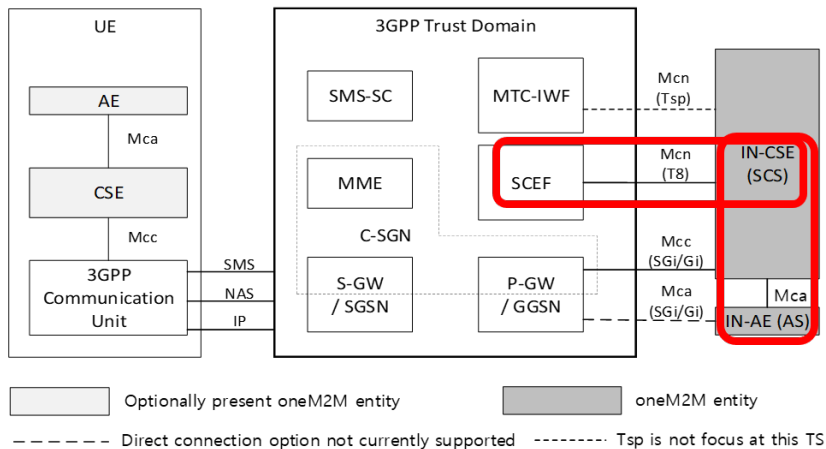


Figure 5.2-1: oneM2M Interfaces to the underlying 3GPP Network

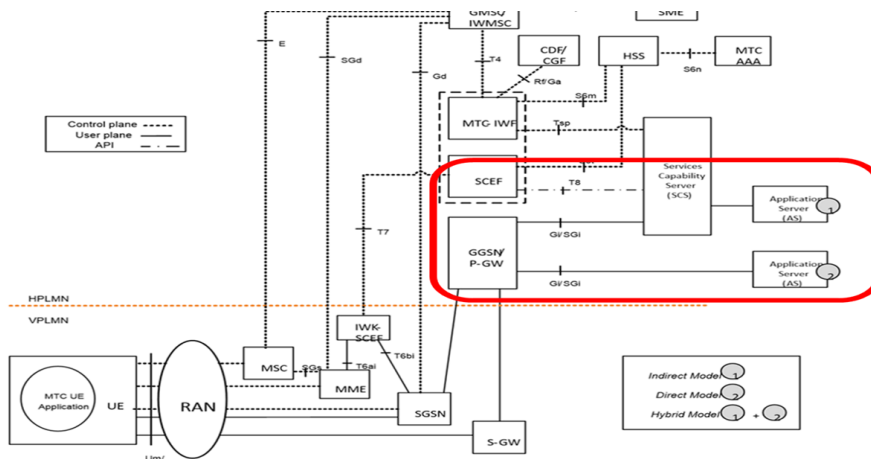


Figure 4.2-1b: 3GPP Architecture for Machine-Type Communication (Roaming)

The 3GPP Trust Domain provides three (3) Interfaces to SCS/CSE (Service Capability Server/Common Service Entity) for MTC:

- IP based interface at SGi reference point,
- RESTful API interface at T8 Reference Point,
- Diameter based interface at Tsp Reference Point.

The Service Capability Server (SCS) is a 3GPP term that refers to an entity which connects to the 3GPP Trust Domain to communicate with UEs used for Machine Type Communication (MTC).

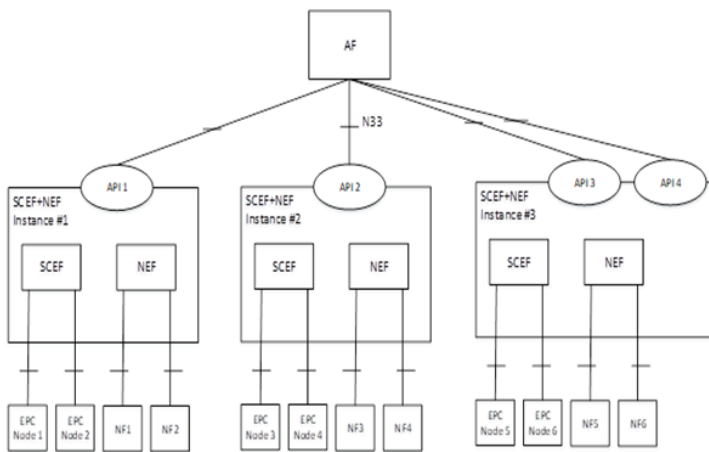


Figure 6.13.2-1: Architecture view of the SCEF+NEF node

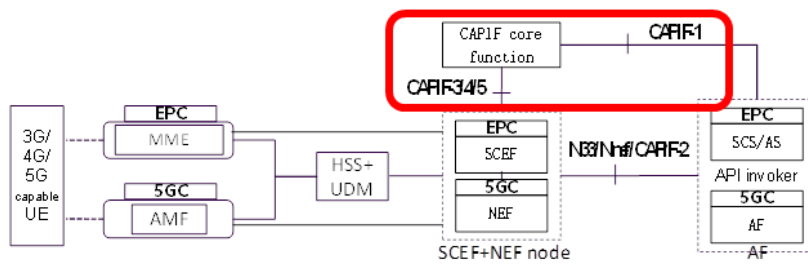


Figure 6.14.2-2: Combined NEF+SCEF NF with CAPIF support