Service Routing in Multi-access Edge Computing

draft-du-intarea-service-routing-in-mec-00

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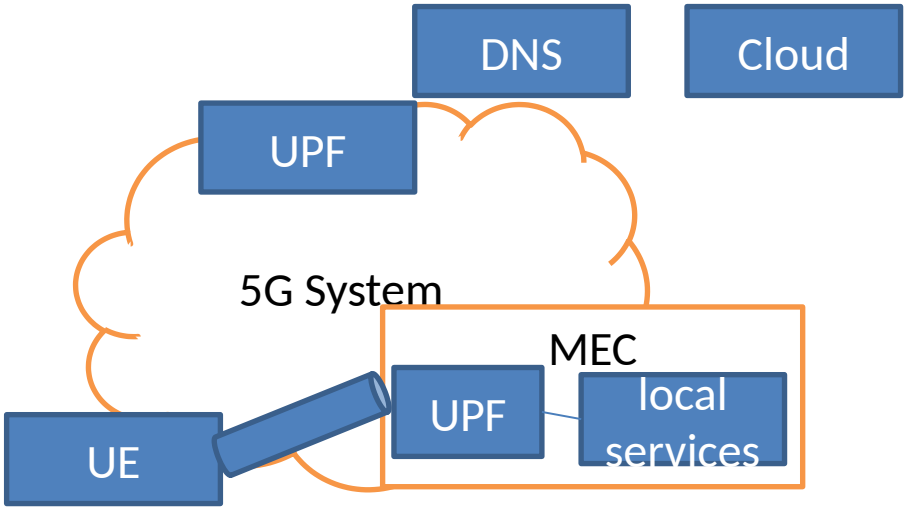
Backgroud

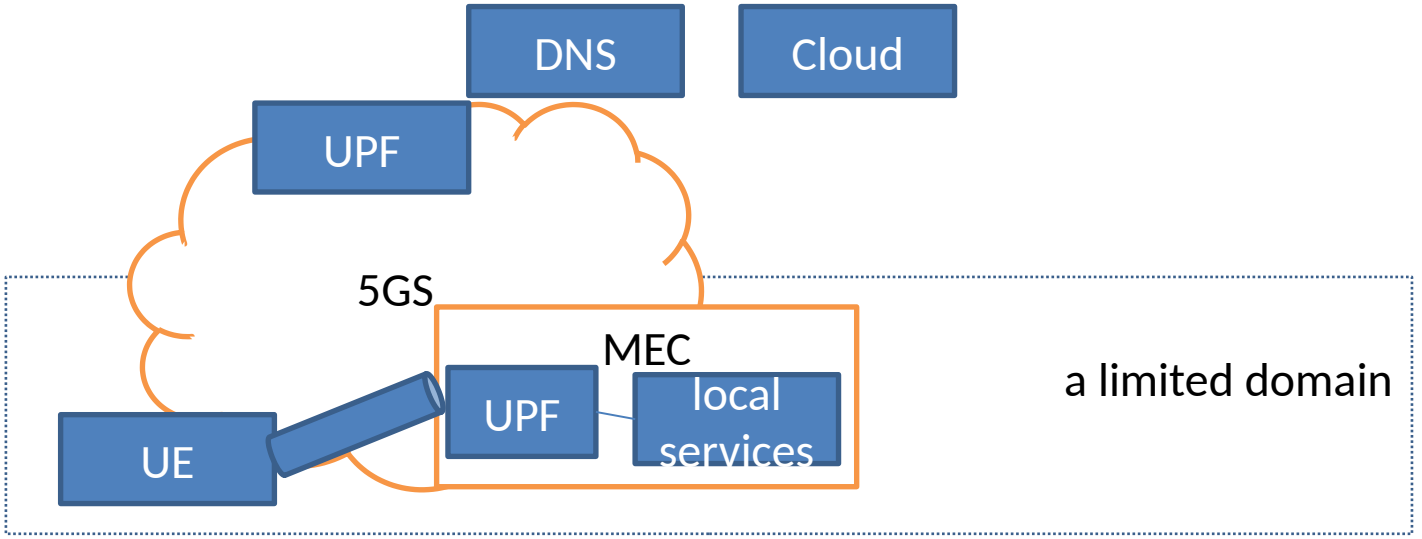
The mobile operators are deploying Multi-access Edge Computing (MEC) to provide services with lower latency to their users.
In the MEC, a UPF working as the gateway of the UE can end the tunnel between the UE and the UPF. Also, some local services are provided in the MEC.



- Traditionally, a DNS procedure will be needed when the UE accesses these local services.
- We introduce a mechanism that can access the service directly without the DNS procedure.

Mechanism

UE should have a session with the UPF in the MEC. Also, the UE should be aware that it can access the service more quickly within the MEC if the service is available in the MEC.



attempt1 ： a normal DNS request to get the serviceIP, such as "www.local-weather.com"

attempt2 ： make a destination IP address itself by hashing the URL bypass the DNS

If the attempt2 successes, the UE can access the service directly inside the MEC.

Thanks for listening

Welcome for comments