

Configurator Network Application

SUMMARY

In the framework of 5G-EPICENTRE, a demonstration of QoS management leveraging 5G functionalities has been achieved. This has been possible thanks to the interaction with HPE's 5GC, and UMA's Radio Access Network (RAN) [13].

Configurator is considered a major achievement that provides a value chain to secure network conditions for the most demanding vertical services, such as those associated with the PPDR sector. It offers a way to allocate specific resources to those verticals identified as PPDR.

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LESSONS LEARNED

Network Applications exercise QoS management to PPDR vertical services, to avoid QoS degradation in case of overloaded network resources. The main benefits within 5G-EPICENTRE EaaS ecosystem:

- Experiments' performance optimized due to the alignment of the network properties with the desired QoS levels.
- Experimenters are empowered to prioritize and classify different types of network traffic and, thereby, ensure seamless and efficient execution of experiments on top of the 5G network.
- Experimenters are enabled to carry out their experiments with guarantee that the requested QoS will be met..

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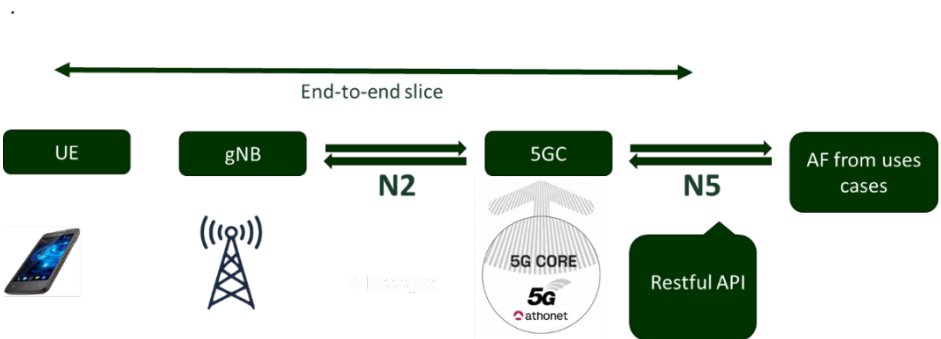
DEPLOYMENT



Within To further enrich the 5GC and user traffic configuration possibilities offered to external applications, the pro-ject effort is currently focused on empowering them to efficiently allocate specific user profiles to User Equipments (UEs) from a curated list of pre-compiled profiles housed within the 5G core network. These profiles encapsulate crucial resources like slice identifiers and Data Network Name (DNN) configurations, alongside Quality of Service (QoS) parameters such as 5QI and maximum/minimum bit rates, tailored meticu-lously to bolster the connectivity service of the respective UE.

The association between a UE and its designated profile is facilitated through an Application Programming Interface (API) that is explored by UMA and HPE. Utilizing this API, the application seamlessly assigns the de-sired profile to a UE, guided by the experimenter's selection from a user-friendly drop-down menu integrat-ed into the application's User Interface (UI).

Consequently, upon network connection, the UE's data session harmonizes with the specifications outlined in the assigned profile. This intuitive drop-down menu offers a selection of 4 or 5 profile combinations, providing clarity through explicit detailing of "low-level" 5G parameters or simplified labelling like "best-effort service," "guaranteed bit-rate service," or "dedicated slice service."



5G-EPICENTRE's Holistic Security and Privacy Framework (HSPF)

