

**HCLTech** | Supercharging  
Progress™

# Network Monetization Platform (NMP)

Secure | Real-time | Flexible



The 5G Stand Alone (5G SA) network rollout happening on a large scale across the globe is creating opportunities for enterprise businesses to use the advantages of wireless communication over fixed LAN networks. Both Communication Services Providers (CSPs) and enterprises are progressing hand in hand with many use cases that will emerge if enterprise business applications are able to query 5G network information like user status, traffic, QoS, bandwidth, losses and many other network statistics. By exposing 5G network APIs (Application Programming Interfaces) in a secure and flexible manner, enterprise application logic can query, request updates and leverage network information to solve enterprise business challenges and enable enterprise digital transformation.

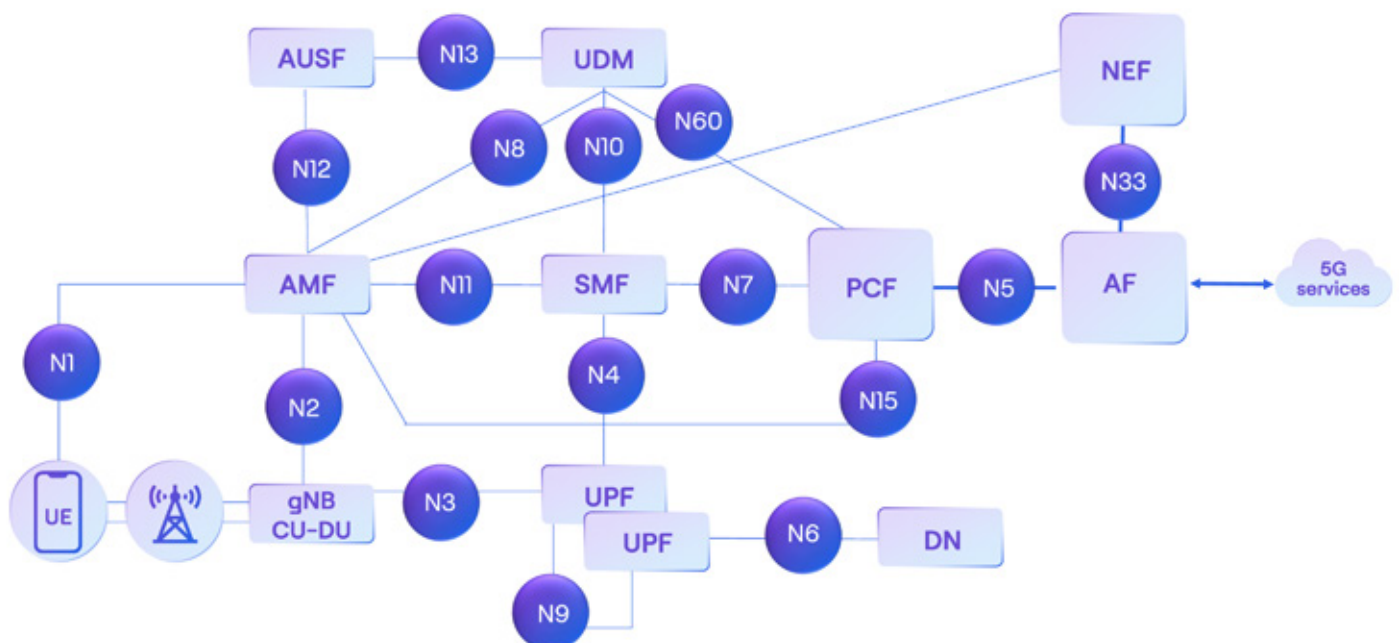
Network API is a secure method of communication between two network functions exchanging information.

Upon request of one network function, the other function provides a response or acts on the request received. There are many services where enterprise business applications would like to query 5G networks and leverage them in the business logic.

Enterprises need a solution that will avoid manual intervention in each and every request and support real-time processing of enterprise demands. Enterprise applications should be able to query required data in real-time for business processing and trigger "allowed changes" on the enterprise's dedicated network. This is where 5G network APIs will play a crucial role. They facilitate the exposure of 5G network data in real-time.

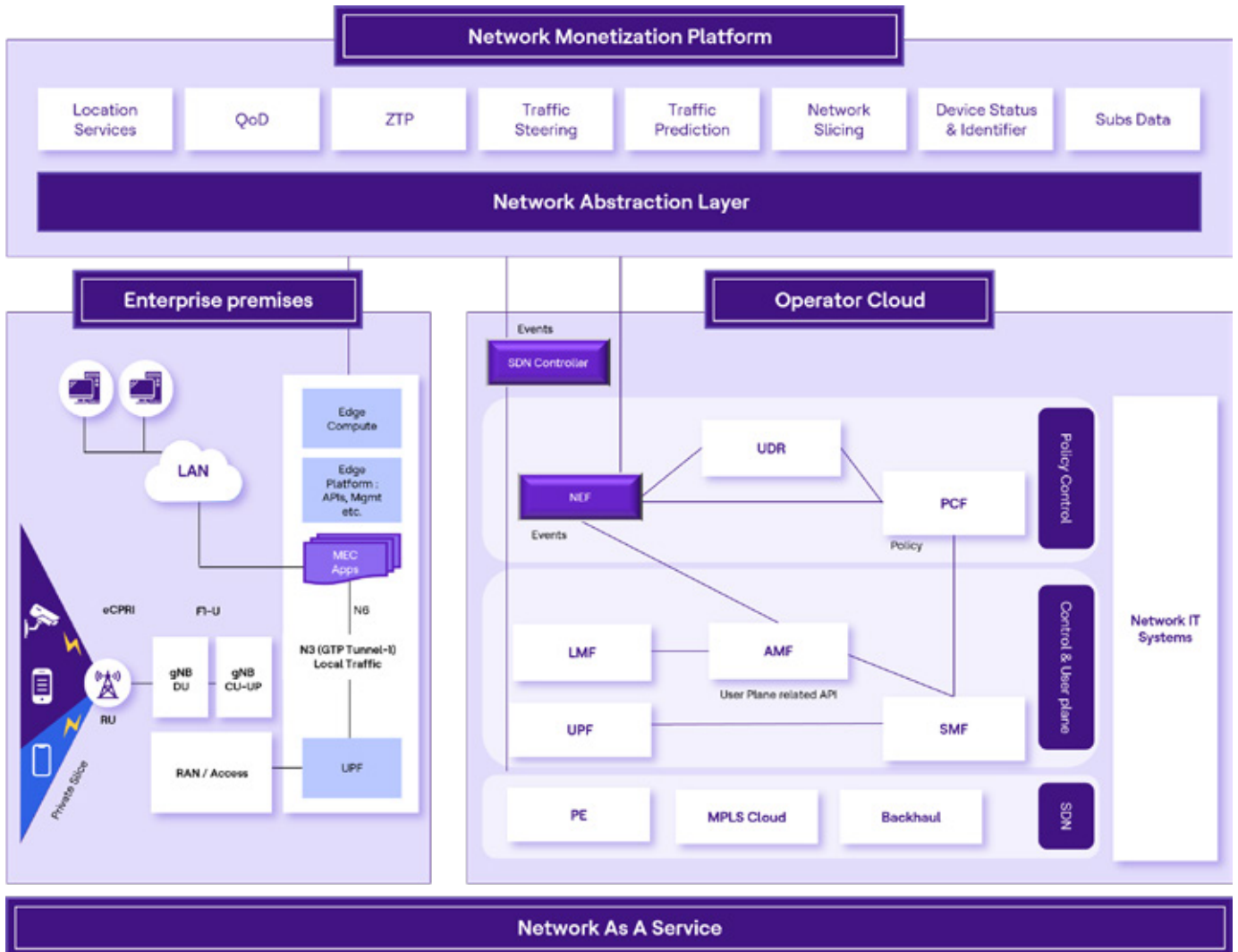
In a 5G network, enterprise application functions can have exposure to the 5G network via the Network Exposure Function (NEF) or via the Policy and Control Function (PCF), whereas most CSPs prefer to provide access through NEF only.

## 5GS Architecture



## HCLTech NMP Framework

HCLTech's Network Monetization Platform (NMP) comprises a Network Abstraction Layer to facilitate enterprise applications/use case development. It leverages the concepts and principles being driven by the CAMARA program, where enterprise Application Function (AF) can interact with multiple 5G cores with the help of APIs exposed by NMP. This may help to reduce inter-core complex configuration for some enterprise 5G use cases. A high-level architecture of HCLTech NMP is shown in the image.



The Network Abstraction Layer has all the key building blocks (APIs) required for enterprise use case development:



Seamless integration with any vendor 5G Core functions



Scalable solution with microservices-based architecture



Seamless integration with enterprise applications function

Enterprise customers can access 5G services by having network APIs implemented at both their premises and the service provider's network. Network APIs can interact with enterprise applications using network function NEF or PCF. Using NEF, CSPs can expose 5G network services in a secure manner to enterprise customers.



# Unlocking significant potential through HCLTech NMP

CSPs can leverage NMP to provide services to enterprise applications by securely exposing the Network APIs with no added delays and without the cost of setting up O&M terminals in enterprise premises. Users can experience better services, like having on demand quality and effective usage of its subscription without delay as and when users really need those services. Enterprise applications can support users with enriched user experiences by providing them add-on services based on their status, device, location, etc.



**HCLTech** | Supercharging Progress™

HCLTech is a global technology company, home to 224,000+ people across 60 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending December 2023 totaled \$13.1 billion. To learn how we can supercharge progress for you, visit [hcltech.com](https://hcltech.com)

[hcltech.com](https://hcltech.com)

