

# Enabling Open Gateway API Adoption for Telecom Operators

CAMARA Open Gateway for Quality on Demand





## Overview

With the advent of 5G and growing expectations for consistent and high-quality digital experiences, Communication Service Providers (CSPs) are redefining their value proposition beyond traditional B2C offerings. A key strategic imperative in this transformation is the exposure of network capabilities to external developers and ecosystem partners through standardized APIs.

This is the mission behind the CAMARA Project, the global telecom API alliance, which enables the definition and implementation of common, interoperable network APIs that empower developers to seamlessly integrate telecom capabilities into their digital services.

## Enabling differentiated connectivity experiences

By adopting CAMARA APIs such as Quality on Demand, Carrier Billing and Device Status, telecom operators can deliver programmable network experiences and unlock new monetization opportunities across the digital value chain.

### Quality on Demand

The Quality on Demand API empowers service providers to dynamically request enhanced network performance for specific user sessions and contexts. This enables applications to deliver optimized experiences precisely where and when they matter most.

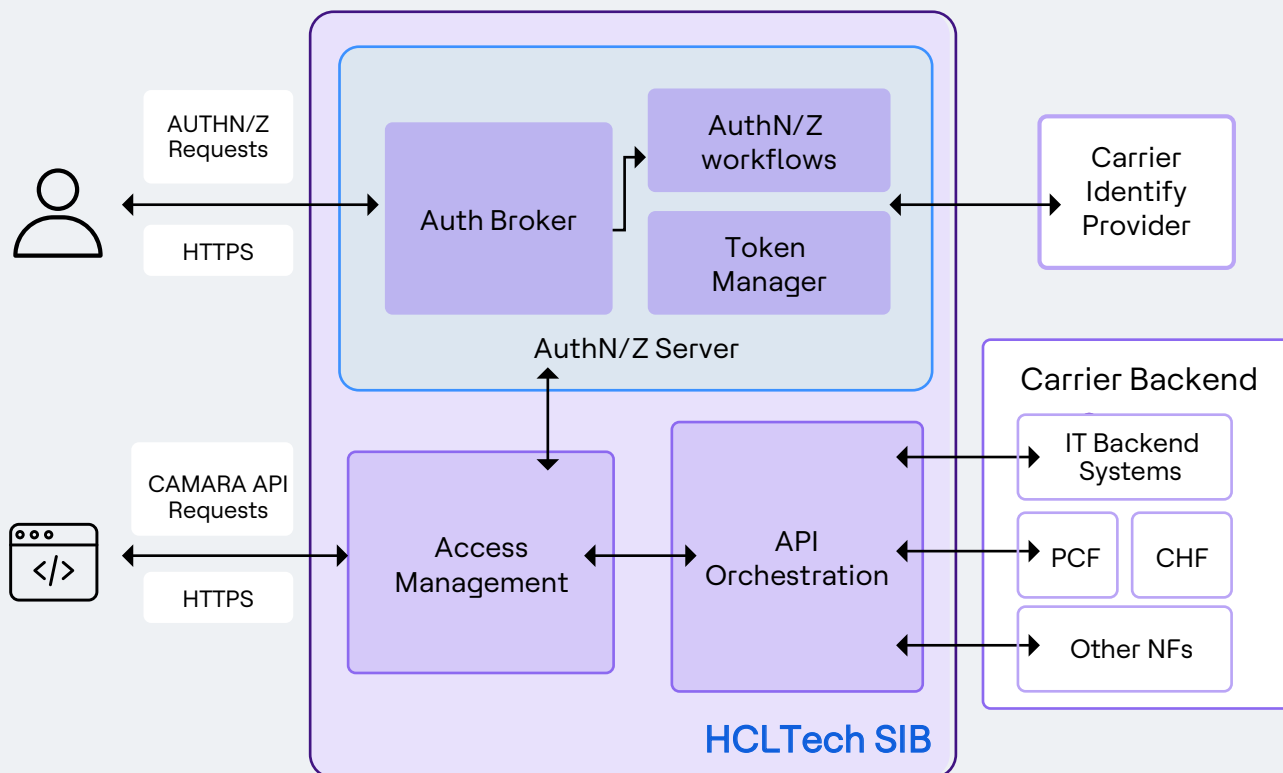
By interfacing with the operator's network exposure functions and policy systems, this capability allows external applications to trigger real-time QoS adjustments and manage predefined QoS profiles. These profiles define the required performance parameters, such as bandwidth, latency and jitter thresholds for various types of services.

This level of programmability is crucial for latency-sensitive or bandwidth-intensive applications such as live video streaming, gaming and immersive collaboration platforms.

Consider a video streaming platform offering a premium tier to its subscribers. When a premium user initiates a live sports stream, the application involves the Quality on Demand API to enhance connectivity for the duration of the session. The request is processed by the telecom network to ensure prioritized data handling, resulting in superior playback quality, faster load times and minimal buffering.

This dynamic and intelligent use of network quality ensures better user experience, stronger customer retention and added value for both the application provider and the telecom operator.

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### Carrier Billing

The Carrier Billing API empowers applications to offer seamless in-app purchases by charging directly to a user's mobile bill or prepaid balance. For example, a gaming app can allow users to purchase premium items or subscriptions with a single click—enhancing user convenience and driving higher conversion rates, particularly in regions with low credit card penetration.

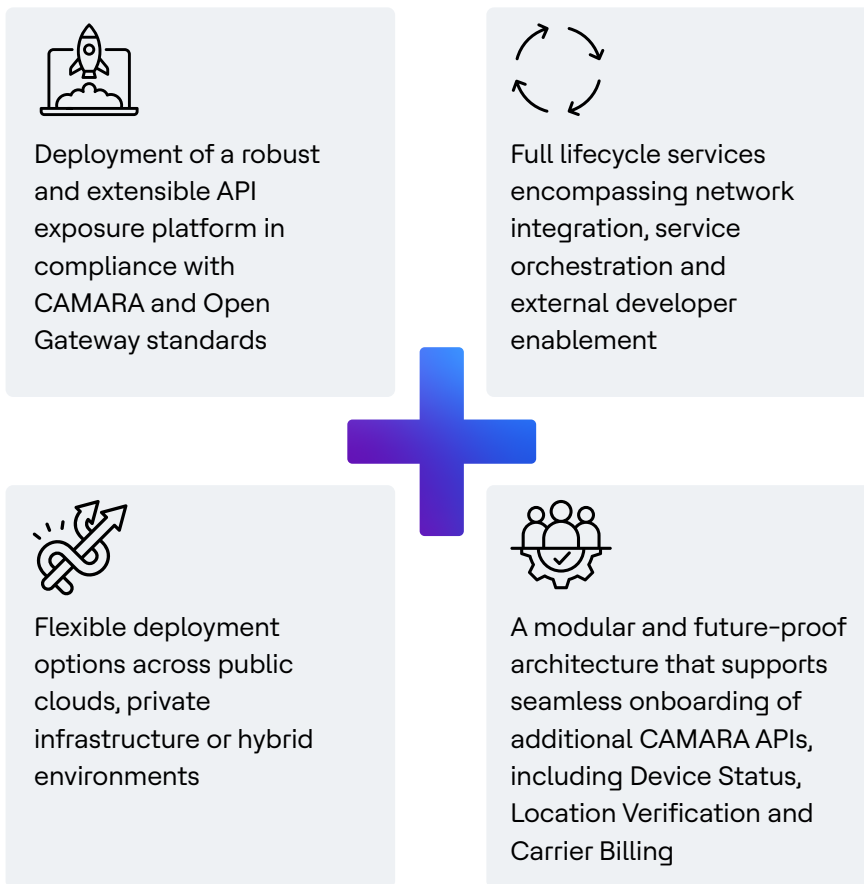


### Device Status

The Device Status API provides real-time visibility into a mobile device's state—such as whether it is powered on, connected to the network or roaming. This functionality is particularly useful in scenarios like IoT device monitoring or fraud prevention, where timely awareness of device activity improves operational awareness and enhances security.

# HCLTech adds value

We support telecom operators in operationalizing the Open Gateway vision through:



## Key benefits for CSPs

Accelerate time-to-market for B2B API offerings

Unlock incremental revenue streams through differentiated enterprise services

Position themselves as innovation enablers in the digital ecosystem

Connect with us to explore how HCLTech can drive your transformation into an API-centric telecom operator and realize the full potential of the open gateway initiative.

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