

# iQUILA IN TELECOMMUNICATIONS

## OUR CHALLENGE

As a leading telecommunications company, we are constantly navigating the escalating demand for robust 5G connectivity. Clients are increasingly requesting either primary 5G connections or 5G failover options to complement their existing wired connections. A significant hurdle in this scenario is providing a public IP address over a 5G network while ensuring a consistent 1500 MTU (Maximum Transmission Unit). The solution we sought needed to offer a Layer 2 link over a Layer 3 network without compromising on MTU, latency, or deployment simplicity.

## KEY CHALLENGES



Establishing Layer 2 over Layer 3 connectivity



Maintaining a 1500 MTU



Ensuring low latency and fast throughput



Simplifying deployment processes

## THE SOLUTION

The iQuila Enterprise platform delivered a carrier-grade solution perfectly aligned with our needs. This platform enables a complete extension of a Layer 2 network over a Layer 3 infrastructure, irrespective of the underlying MTU. With iQuila, we can deliver /29 and /32 subnets directly to the 5G router, maintaining a consistent 1500 MTU. Furthermore, the solution simplifies the management of 802.1 VLANs and Q-in-Q tagging and un-tagging, which are critical for service delivery to our clients.

# KEY BENEFITS



## Layer 2 over Layer 3

iQuila's Virtual Extended Network (VEN) protocol offers a robust and flexible method for extending Layer 2 networks over Layer 3 infrastructures. This capability simplifies network management and broadens connectivity options, with seamless operation over various NAT environments.



## Consistent 1500 MTU:

iQuila's solution ensures a stable 1500 MTU across the network, meeting client expectations and requirements for reliable data transmission.



## Low latency & fast throughput:

The iQuila platform guarantees low latency and rapid data throughput, achieving connection speeds of up to 1Gbps. This performance is crucial for maintaining high-quality service delivery.



## Simple deployment

The iQuila solution is designed for straightforward deployment, efficiently meeting all our operational requirements and enabling swift implementation across our network infrastructure.

In conclusion, iQuila's Enterprise platform has proven to be an indispensable asset in addressing our connectivity challenges. It empowers us to meet the growing demands for 5G services while maintaining high standards of performance and simplicity in deployment.

