

# SECURE WEB GATEWAY SERVICES

## for a Wireless Network Service Provider



**Service:** Security

### OVERVIEW

Headquartered in Sunnyvale, California, the Client is a \$500mn company. Developing cloud-based Secure web gateway services, the client is a wired and wireless networking equipment and software provider.

#### The key areas worked upon include:

- › Google cloud enabled IP Sec VPN Gateway
- › Firewall as a services and Centralized Policy management
- › Device Monitoring and Device profiling

## CHALLENGES



Client develops Secure Gateway solution in Google cloud platform and needed secure web gateway services



Establish secure connectivity at small cell location to VPN Gateway at GCP cloud

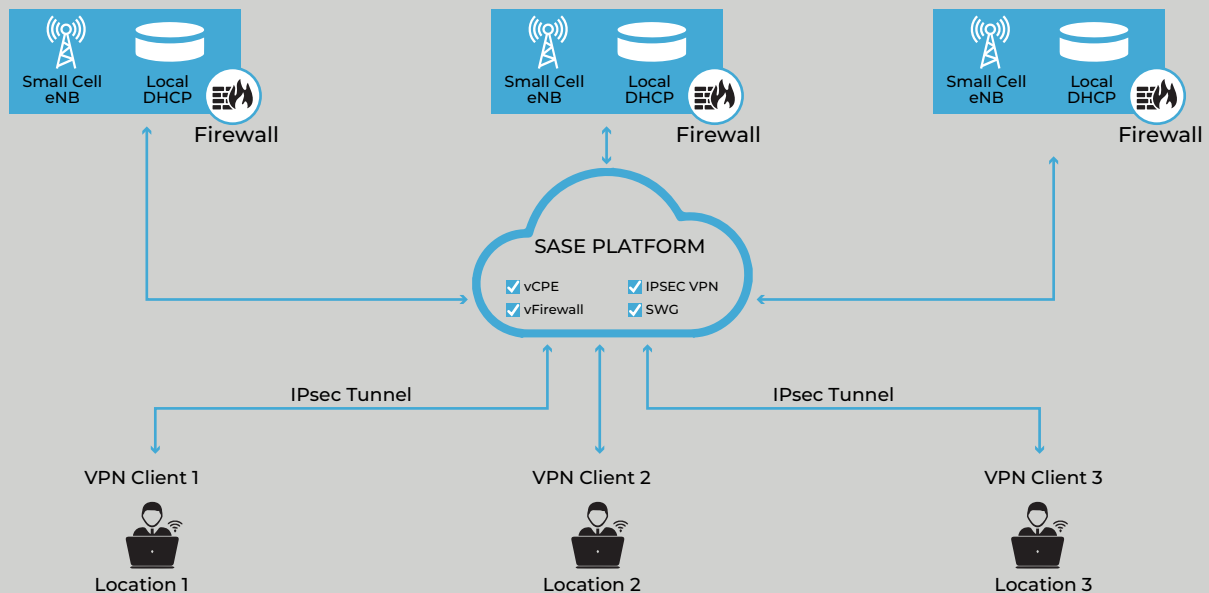


Enable authentication and authorization for VPN users from Google cloud

## SOLUTION

- 1 Secure IP Sec VPN tunnel between the Small cell locations and GCP
- 2 Highly available Multi cluster VPN gateway instances at Google Cloud
- 3 Layer 3 IPsec VPN connection establishment for a road warrior scenario
- 4 Auto scaling of Secure Gateway clusters for capacity management
- 5 Management and monitoring of IP Sec VPN tunnels and VNF instances
- 6 Auto discovery of Small cell eNodeB assets and registration

### Solution Overview



- Stand alone mode deployment as VMs on Google Public cloud environment
- IPsec Fast path can scale from one core to Multiple cores based on the requirement and performance needs
- DPDK optimized platform for scale and performance

## OUTCOME

- Cloud-delivered Secure Web Gateway framework to deploy a future proof, scalable, carrier-grade IPsec VPN Gateway infrastructure
- Breakthrough performance on industry standard X86 hardware and as a VNF
- Customization of the Secure VPN framework to cater to all the client's requirements in time

## HIGHLIGHTS

- Plug and Play configuration of Small Cell eNodeB across the locations
- IPsec Fast path for scalability and performance
- Porting and Optimization of platform using DPDK

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