

uCPE VNF SERVICE CHAIN PERFORMANCE CHARACTERIZATION AND CERTIFICATION

A **\$130bn**
Telecommunication
service provider

Overview

The customer is a US-based 130 billion-dollar multinational telecommunication service provider. They wanted a flexible operating model for multi-vendor VNF onboarding on the uCPE platform. They also wanted Performance Characterization and Benchmarking of uCPE with VNFs running in a service chained manner.

Challenges

- Validate and Certify uCPE VNF before onboarding is a humongous task.
- Performance characterization and Benchmarking of multi-vendor VNF on uCPE platform is critical for service delivery.

Solution

- **Design:** performance characterization and benchmark scenarios for multi-vendor vnf running in a service chained manner
- **Build:** benchmarking and performance characterization of solution components on different form-factors. Performance benchmarking for each form factor by creating multi-vendor service chain scenarios using palo alto, checkpoint and fortinet firewalls, viptela and versa sd-wan gateway. Used cisco 1000v as csr router.
- **Manage:** devops environment for benchmark scenario testing and automation. Test automation and performance characterization reports

Outcomes

36+

Benchmark scenarios are created and tested for on demand performance characterization

9

Service chain scenarios performance characterization and Benchmarking