

TELCO PRODUCT & SOLUTION ENGINEERING



Do you want to

deliver powerful end-to end 5G customer experiences?

Do you want to

the right Network foundation to deploy 5G services?

Do you want to

implement open network solution for 5G strategy?

We work with Telcos & NEMs to

- > Design next-gen telecom capability and platforms
- > Reduce dependency on proprietary appliances and take advantage of open source technologies
- > Automate services in an agile way by leveraging commodity hardware and software-defined networks
- > Improve R&D efficiency in product development and sustenance activities
- Accelerate time-to-market with our market proven solution accelerators and frameworks
- > Deliver secure, reliable and low latency services on demand



EXPERTISE STACK



MULTI ACCESS EDGE COMPUTING (MEC)

- > Reliable low latency services
- Edge cloud orchestration & management
- Edge virtualization and autoscaling



AUTOMATION ORCHESTRATION & MANAGEMENT

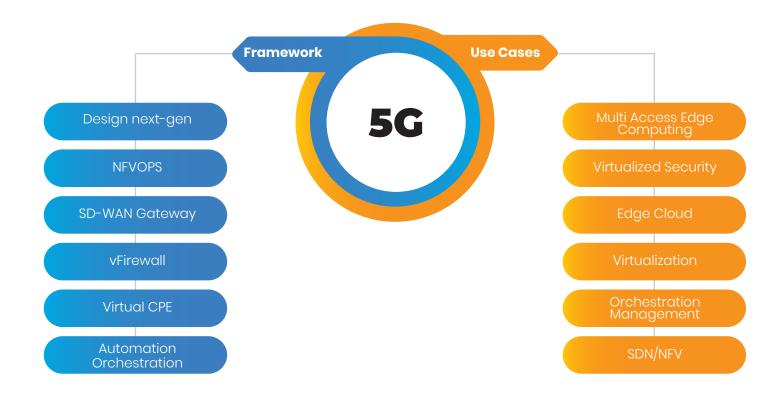
- Secure provisioning of infrastructure resources
- > Workflow based automation
- Multi cloud workflow automation



SECURITY

- Virtualized security functions and services
- Secure service chaining and provisioning on multicloud environment
- Reliable and scalable security ecosystem

ENABLING 5G USING SOLUTION ACCELERATORS AND FRAMEWORKS

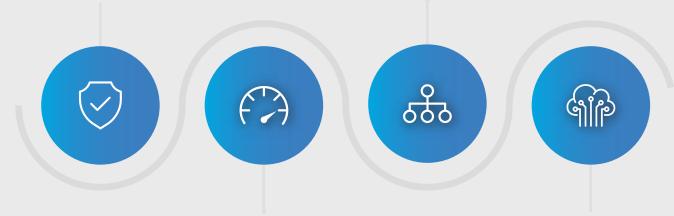


ENABLING 5G USING SOLUTION ACCELERATORS AND FRAMEWORKS

pioneer in the Software Defined Networking (SDN) and Network Function Virtualization (NFV) space, ACL Digital has delivered:



NFV Management and Orchestration Framework compliant with ETSI NFV ISG MANO specifications



DPDK optimized high performance Virtual Network Functions (VNFs) with seamless integration with industry leading NFV orchestrator SDN controller extensions & SDN applications for Network Management and end-to-end service provisioning of network services

SERVICE OFFERING

Consulting Services

- Business Case definition
- > POC & Prototyping
- > Solution Roadmap
- Technology Assessment

Characterization and Benchmarking Services

- > VNF performance and benchmark testing
- VNF performance characterization and certification testing
- > Multi-vendor VNF performance benchmarking
- > Multi-vendor VNF service chaining and testing
- > Multi-protocol and comprehensive testing

System Integration

- > SDN controller customization and feature enhancement for ODL and Open contrail
- MANO integration with service management system (OSS/BSS)
- > Multi-vendor VNF integration for service chaining
- > L4-L7 Service integration on Datacenter network, private and public clouds
- Multi-domain service orchestration and integration with carrier networks



Solution Engineering Services

- > Design, Development & Optimization of VNFs
- > VNF verification and testing
- > Porting of VNFs from custom silicon from standard X86 platforms
- > Development VNF packages for a service deployment
- > SDN Controller/Application development & Integration
- Design & development of VNF life cycle management framework

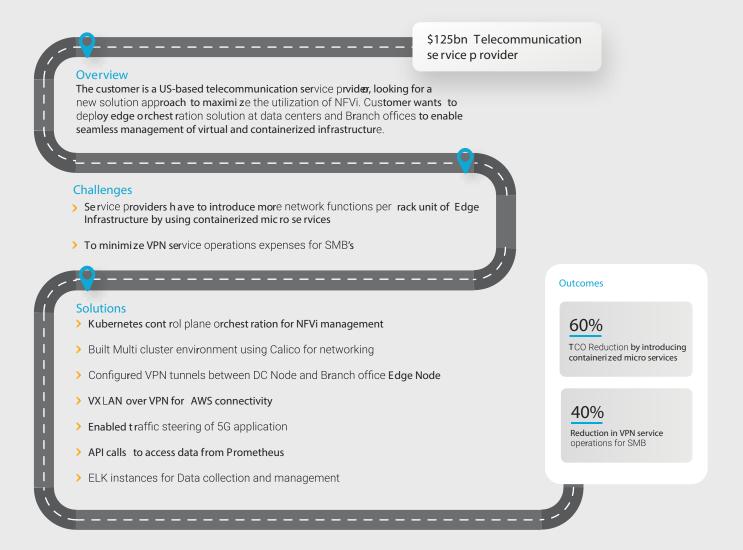
Test and Test Automation Services

- > Test case optimization
- Development of multi-domain test automation and orchestration
- > Workflow automation
- Multi-domain service orchestration
- DevOps and products life cycle testing

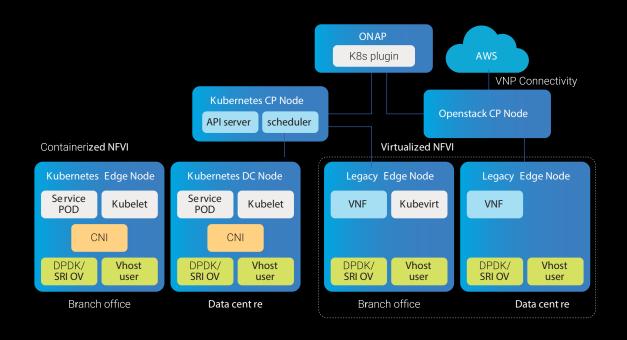
Managed Services

- > On-shore, Off-shore and Nearshore delivery model
- Global coverage of resourcing model and local fulfillment
- > Project program and portfolio management
- Strong domain expertise

CASE STUDY 1: EDGE CLOUD ORCHESTRATION AND MANAGEMENT



KUBERNETES ORCHESTRATION SOLUTION DIAGRAM



CASE STUDY 2: NETWORK SERVICE AUTOMATION ORCHESTRATION AND MANAGEMENT

A \$125bn Telecommunication se rvice p rovider

The customer is a US-based telecommunication service provider looking to reduce the deployment life cycle and deliver a cloud operating model in the enterprise branch offices. The cus tomer wants to enable multi-site se rvice provisioning and reduce de ployment duration with Network service Automation and Orchest ration.

Challenges

- > Field Engineers have to visit the sites to provision the network services at Branch offices
- > Manual configuration of devices & deployment of new services at branch offices is time-consuming and error prone.

Solutions

- Cloud agnostic multi-tenant services platform with centralized Orchest rator
- > Secure Tunnel between the Branch offices ThinCPE and vCPE at centralized location
- > Flexible de ployment choices using low-cost CPE appliances and VNFs
- > Multi- Tier, Multi-cloud and Multi- tenancy model, End to End service Orchest ration

Outcomes

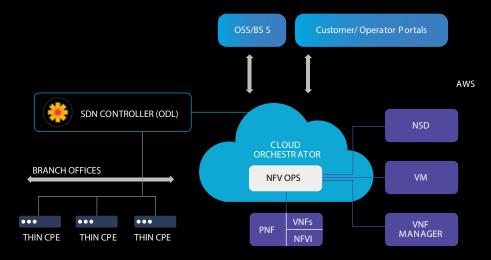
30%

Reduction in time taken to provision the services at

50%

Opex saving by simplified network support and Operations management

AUTOMATION ORCHESTRATION SOLUTION DIAGRAM



ACL Digital is a design-led Digital Experience, Product Innovation, Engineering and Enterprise IT offerings leader. From strategy, to design, implementation and management we help accelerate innovation and transform businesses. ACL Digital is a part of ALTEN group, a leader in technology consulting and engineering services.

USA | UK | France | India 😈 f in



