ZIGRON

Connected Application Experts

Zigron SDN | NFV Services and Solutions

Your Engineering Partner of choice for SDN | NFV Innovation

From Concept to Reality!

Network Function Virtualization (NFV) & Software Defined Networking (SDN)–Shaping the future of Networking Infrastructure

The revolution that the academics brought in the form of SDN, or the concept that some of the carriers pushed forward, that of NFV, is now becoming a business reality with multiple instances of live deployments. Unlike the earlier revolutions in Networking and Telecom industry, the SDN + NFV revolution is catalyzed by fast evolving specifications and open standards, plethora of industry partnerships and a strong foundation based on Open Source. NFV+SDN are showing a great promise of simplification of Network Infrastructure, rapid scaling and rapid innovation and improved cost efficiency. We at Zigron have a strong focus on NFV and SDN space and are committed to co-create SDN and NFV solutions with OEMs/TEMs/ISVs.

Zigron Solution and Services

Enterprise and Service providers are seeking solutions to their networking challenges today and want their networks to adjust and respond dynamically, based on their business policy.

Network Function Virtualization (NFV) and Software-defined Networking (SDN) are modern network architectures purporting to be dynamic, manageable, cost-effective, and adaptable, seeking to be suitable for the high-bandwidth, dynamic nature of today's applications. SDN architectures decouple network control and forwarding functions, enabling network control to become directly programmable wherein NFV acts as an abstraction layer virtualizing the network related services from the underlying physical device that delivers it.

This may not be as easy as it sounds. The main goals would be to automate so that they can reduce the manual work and personnel cost of running their networks. They want to quickly deploy and run new applications within and top of their networks so that they can deliver business results. Moreover, they want to do this in a way that allows them to introduce these new capabilities without disrupting their business.

Now this is a tall order and there is no single point solution, which can help achieve all of the above.

Here's where Zigron comes in with state of the art Engineering Services revolving around NFV+SDN Technologies and our experts help in simplifying the complexities of these technologies to help you make the complete switch from Concept to Reality.

What We Do!

Zigron is committed to support OEMs, ISVs & Service Providers in design, & deployment of Network Function Virtualization, Traditional, Software-defined and Hybrid networks.

Be it a commercial grade solution or implementation of proof of concept for potential use cases, Zigron can be your trusted engineering partner. We provide complete product lifecycle services from concept to deployment and support.

Our Services include:

System Design

Software Development

DevOps

Testing

Analytics

Zigron's NFV & SDN Engineering Service Propositions

Network Function Virtualization (NFV)
• VNF development, porting, testing, deployment and maintenance
• MANO (Management and Orchestration)
• Service Chaining
• Customization of Open source NFV and SDN Solutions
• Adapters for legacy service management

Software Defined Networking (SDN)
• Commercial and Open source SDN Controller Engineering, customization and feature enhancements
• Southbound provider development for SDN, Legacy and Hybrid switches.
• OpenFlow enablement conformance
• SDN Application development, upgrades and migration across controllers
• SDN controller integration with OpenStack Neutron
• Engineering Services for customization and enhancements of Open Source Solutions like OpenDayLight, ONOS etc.
• SDN - NFV solution integration

Network Stack Engineering
• Switching and Routing protocols, Traffic Engineering
• Security, VPN, Firewalls, DPI & policy enforcement, WAN optimization, server Load balancing, dynamic bandwidth management
• Intel DPDK porting and optimization for high performance
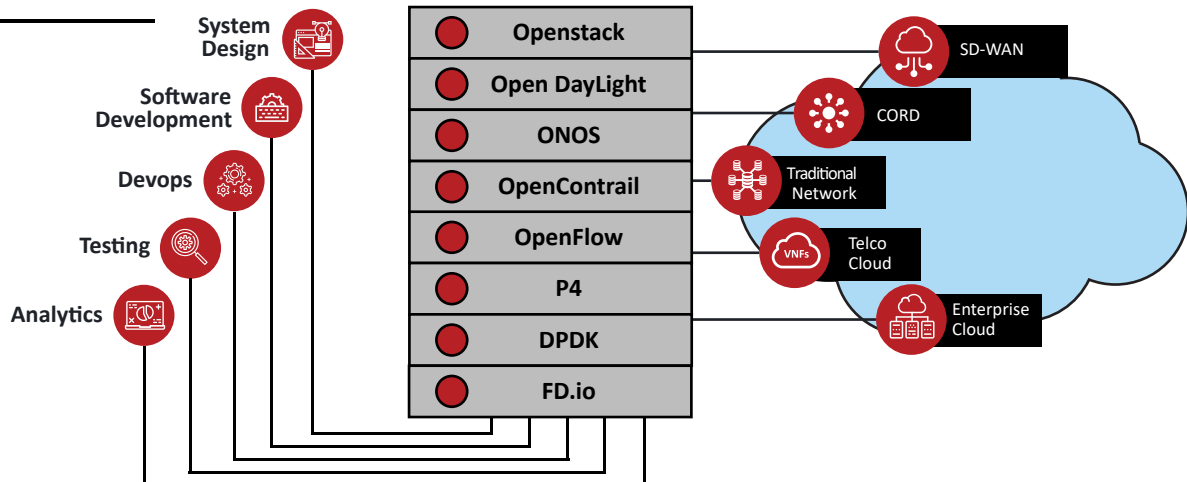• EMS/NMS frameworks
• UX/ UI Engineering

NFV Testing
• NFV Infrastructure Testing
• NFV-O integration & Testing
• VNF Pre-Certification Test & Benchmarking
• VNF Service Chaining & Network Services Testing
• Openstack Enabled Network Applications, VNF
• VNF-VFNM Integration Testing
• VNF Performance (RFC 2544)

SDN Testing
• Open Flow conformance & Functionality Testing (South Bound API)
• SDN Controller Functional Testing
• Multi-SDN Controller testing
• Yang Models, NetConf, Yaml, Rest API Testing
• Testing SDN Applications using SDN controller based deployments
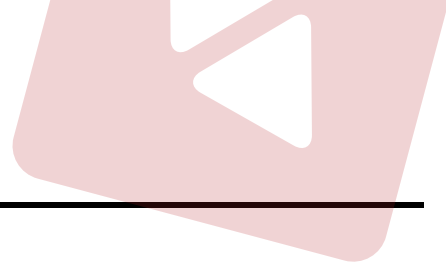• SD-WAN Orchestration / Manager Validation

Expertise Stack

System Design
Software Development
Devops
Testing
Analytics

Openstack
Open DayLight
ONOS
OpenContrail
OpenFlow
P4
DPDK
FD.io

SD-WAN
CORD
Traditional Network
Telco Cloud
VNFs
Enterprise Cloud

Our Expertise Led Services

Customization of Opensource NFV/SDN Solutions

SDN Controllers engineering/ customizations/ enhancements

Board Design and System Development

SDN Application Development

Orchestration and Management Layer Engineering

Network Analytics, Visualization and Big Data Services

UX/UI,REST applications development

Test Automation and DevOps

Technology Expertise

DPDK DATA PLANE DEVELOPMENT KIT

intel

OPEN DAYLIGHT

openstack CLOUD SOFTWARE

Switching and Routing Protocols

NetConf, SNMP

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