



FOR IMMEDIATE RELEASE

Media Contact:

[Courtney Nickerson]

[1.855.410.7005]

[courtney.nickerson@interdynamix.com]

[www.interdynamix.com]

IDX Labs Perfects NFV VNF Onboarding at the Edge

IDX Labs Announces Availability of VNF Onboarding and Third Party VNF Testing for Service Providers

[Barcelona, Spain/Feb 22, 2019] -- Working with CENGN, Canada's Centre of Excellence in Next Generation Networks, IDX Labs is the first Canadian organization to implement a modern Virtual Network Function (VNF) onboarding system offering Service Providers world class Network Function Virtualization (NFV) capabilities. Through this offering, IDX Labs enables service providers to deploy and validate high-performing, revenue-generating applications into NFV infrastructure, with a special focus on edge deployments.

IDX Labs engaged in three separate projects with CENGN to develop documented and repeatable VNF onboarding validation, dimensioning, and performance testing workflows. These workflows are the basis of IDX Labs' VNF onboarding system. With this system, IDX Labs can validate VNF performance and ensure VNF architecture can meet Service Providers' edge, 5G and IoT requirements as well as future-proof NFV infrastructure for new applications.

"IDX exemplifies the type of innovative and globally competitive company CENGN supports," said Jean-Charles Fahmy, CENGN's CEO and President. "Their VNF onboarding system ensures reliability, performance, and security for communication service providers. This is of significant value to any CSP in introducing new revenue-generating services and reducing operational costs."

IDX Labs was pleased to partner with CENGN to develop this system. CENGN provided advanced edge NFV infrastructure, including the capability to deploy Data Plane Development Kit (DPDK) for VNF workloads and traffic generators, as well as SR-IOV functionality for improved network performance. Working closely with CENGN's engineers, IDX Labs ensured their onboarding system meshes with internationally developed standards.

"CENGN definitely showed their depth of expertise in the international networking community in this project," said John Antonio, Chief Strategy Officer for IDX/IDX Labs. "They not only provided the underlying NFV infrastructure, but also utilized their experience and global reach to help us navigate and leverage cutting edge work being done in telecommunications standards bodies."

IDX Labs also provides high performance testing to push VNFs and underlying infrastructure to their maximum capabilities and determine where performance can be improved and resources reclaimed. Using IDX Labs' VNF onboarding system, service providers can reduce costs while increasing performance. A heavy focus on performance ensures VNF enablement in edge deployments.



Key Project Outcomes:

- VNF Validation, Dimensioning and Performance Testing
- Enablement of Edge Deployment Models
- Reduction of VNF Resource Requirements
- Enablement of Advanced Networking Models
- Design of Bespoke High-Performance Traffic Generators

As part of the overall project, IDX Labs increased its custom, in-house traffic generator performance 134 times--pushing the capabilities of the bare metal infrastructure, operating system network stacks, and VNF processing to absolute limits. While testing a sample VNF, IDX Labs' custom traffic generator was capable of providing up to six million application-specific packets per second via minimal physical resources. Further, through IDX Labs' testing process the sample VNF's performance was improved by more than 400%.

Supporting Service Providers

VNF onboarding is a complex and difficult process, and often one of the last things to be considered in the vast NFV ecosystem. IDX Labs believes VNF onboarding should be a primary focus--thus the development of their advanced, edge capable VNF onboarding system.

Through IDX Labs' VNF onboarding system service providers can ensure their VNF applications, and underlying infrastructure, can meet performance and business requirements for 5G and other initiatives, especially in resource limited edge locations.

About IDX Labs

IDX Labs is the R&D division of Interdynamix Systems a Canadian Technology Integration and Innovation company with deep roots in the Communications Service Provider sector. Our innovation team delivers industry disrupting infrastructure solutions to the communications industry ahead of the market enabling CSPs access to solutions and services that accelerate their objectives to greater agility, increased competitiveness that drive value to revenue faster and achieve their business goals quicker through dynamic and virtualized infrastructure.

IDX Labs develops solutions and expertise in converged infrastructure, NFV and SDN that enable our Telecom and SP customers accelerate transformation of their physical networks to virtualized, agile, adaptable service delivery platforms. IDX and IDX Labs were founded by an engineer, carry the innovator DNA and have an intimate understanding of the business, cultural and technical needs of the carrier/service provider market that is unique among its peers.

www.interdynamix.com

About CENGN



CENGN is the Centre of Excellence in Next Generation Networks. Our mission is to accelerate the growth of the Canadian Information and Communications Technology (ICT) sector, enabling economic strength and prosperity, as well as innovation and competitiveness in this high-growth global multi-trillion dollar industry.

Through our leading-edge technology infrastructure and expertise, and the creation of a globally recognized ecosystem of partners, CENGN helps Canadian small and medium enterprises overcome commercialization barriers and grow. CENGN collaborates with top ICT multinationals, the public sector, financial institutions, and academic partners, to solidify Canada's leadership in next generation networks for the benefit of all Canadians.

www.cengn.ca

###