



# ZIGRON

Connected  
Application  
Experts

## CASE STUDY DPI VNFC

### ABOUT ZIGRON

Zigron is a US based company with offices in Northern VA and Pittsburg PA. It also has facility along with a world class infrastructure in Islamabad Pakistan. Zigron specializes in Cloud and SaaS based solutions, Big Data Analytics, New Platform/Product Development, Rich User Experience, Application Modernization/Unification and AdvancedData Visualization in Telecom/M2M/Networks.

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### PROBLEM STATEMENT

The client wanted to implement a **network-wide traffic monitoring and management system**, which would apply to the application and user layer. DPI engines were available as dedicated appliances, provided by a handful of vendors, each with their own take on DPI. Cost-efficiency was also a big challenge. Zigron proposed an open source based **DPI VNFC solution** to meet these requirements.



### OUR SOLUTION

Using nDPI (an open source **DPI engine**) Zigron team created a **Virtual Network Function Component (VNFC)**. This VNFC would run in a virtual machine and use an optimized interface to feed application information and metadata to other integrated components, together forming virtual networking equipment (VNFs) such as **Service Routers, Network Analytics, NG Firewalls, WAN optimization**, etc. nDPI was able to identify and extract information traveling over the networks in real time, providing a true picture of the traffic by identifying protocols, types of application, and extracting additional information in the form of metadata. The benefit was that few weeks after successful implementation, the client experienced increase in overall network efficiency as they were able to get a true picture of their network traffic scenario and apply policies to better utilize available resources.