Company Description
ATTO Research is a network virtualization innovator with advanced SDN and NFV technologies. We are specialized in security-enhanced SDN control, network management, and cloud network virtualization. ATTO Research was founded in 2010 in USA and started up the new branch in 2012 in South Korea. It holds a number of different patents on core technologies about SDN, switches and controllers as proof of our leading technology. ATTO Research provide about network and cloud infrastructure. ATTO Research has products that can be applied to different areas from Cloud to IoT infrastructures/environments. ATTO Stack is Software-Defined Datacenter(SDDC) solution based Cloud Platform that applied ATTO Research’s network technology to OpenStack environment. Makes management of Cloud environment easier through Centralized Management UI. ATTO Access Software-Defined LAN(SDLAN) solution is cost reduction effect of more than 30% compared to using current switches, as well as more effective and easier management.

Product Profile
Obelle Fabric is a network virtualization solution with our own SDN controller OBELLE that replaces the functionality of Neutron, which is responsible for network control in cloud platforms with Red Hat’s OpenStack, to provide efficient and reliable networking services in the OpenStack network.

Overview
OBELLE Fabric is a network virtualization solution which is responsible for network control in cloud platforms with OpenStack.

Executive Summary
Obelle Fabric provides convenient and efficient centralized network management with a highly scalable spine-leaf network structure and SDN which is independent from network equipment vendors. In addition, it can interact with Red Hat OpenStack to configure tenant environment using Horizon intact. From the global view point of view, it automatically recognizes the network topology and creates the MAP and supports the rapid detection and redirection of failures. It provides various multi-path traffic transmission function in Spine-Leaf structure and enables the most efficient use for all network links.

Statement from Partner
"Today's customers want to find more efficient alternative solution. We focus on network virtualization advanced SDN and NFV Technologies. Obelle Fabric is alternative Solution. Our solution will provide customers with the benefits of reliability and cost savings" said Jay Chung, founder and CEO of ATTO Research.

"It is meaningful to have a technical basis and a foundation for cloud business area with Red Hat."

Statement from Red Hat Connect
"Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrastructure, partner with Red Hat to develop and deliver more supportable solutions sooner," said Mike Werner, Sr. Director, Global Technology Partners, Red Hat.

"Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like ATTO Research, resulting in the world’s largest open, and commercially supportable application ecosystem.”
Product Benefits

• More easier network management: Increase operational efficiency with centralized network management. Switch/link/server topology automatic recognition with zero touch network configuration. Automation in route and network configuration increases the network flexibility.

• Optimized for cloud environment: To provide standard OpenStack integration, reducing multitenancy security risks and threats with optimized tenant isolation. HW/SW switches integrated management, providing physical/virtual network integrated monitoring simultaneous analysis.

• Cost reduction: Configuration based on white box switches that low CAPEX. Efficient use of network resources, and minimizing the equipment introduction. Minimizing a network failure and quick response, cost reduction of the management.

Use Cases

• SDN based network management
• Underlay virtual network management
• Overlay virtual network optimization by controlling C-Node and OVS of gateway
• Logical network isolation
• Expandability of service network

OBelle Fabric is a Red Hat certified container and is available for customer download from the Red Hat certified container registry.

https://access.redhat.com/containers/#/vendor/atto-research