SRIOV Support

Beginning with 3.9.1 release, NFVIS supports single root Input/Output virtualization (SR-IOV) for Colo mode in CloudDock solution. Colo is a stack of compute and networking fabric to bring up multiple networking functions and service chain them to connect branch users to hybrid cloud or data center.

SR-IOV is statically enabled on NFVIS Colo image with a CSP 2100 Product Identifier (PID). When enabling SR-IOV virtual functions on a physical network interface card (pNIC), the following rules are applicable:

- SR-IOV is enabled only on Niantic NICs and onboard Niantics does not support SR-IOV.

- Each pNIC allows 32 virtual functions. If the NIC is connected to 1G, two virtual functions are created.

- **ifconfig** *eth0* **allmulti** command is enabled so that the specified interface receives all multicast packets on the network.

- Virtual Ethernet Port Aggregator (VEPA) mode is enabled.

- The naming convention is: <interface name>-SRIOV-1,<interface name>-SRIOV-2 ,<interface name>-SRIOV-3,<interface name>-SRIOV-4

VLAN's segregate traffic within a network. VLANs keep traffic from different networks separated when traversing shared links and devices within a topology. This process is known as VLAN tagging.

Vlan tagging Rules for SR-IOV are:

- Access mode can have upto one VLAN. If it does not have a VLAN, a VLAN tag is assigned. The default is VLAN tag 1.

- In trunk mode VLAN tags are not allowed.

- The VLAN tags assigned to a network are distrubuted to the virtual functions only when a VM is deployed using the VLAN tagged SR-IOV network.