

# vTAP

## Description

Virtual Network Tap (Vtap) For Inter-Vm Or Inter-Vnf Traffic Visibility For Cloud, Nfv And Sdn Environments

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vTAP

## Veryx Vtap

Veryx vTAP is a software-based tap that gives full visibility of VM / VNF traffic in virtual computing environments for monitoring virtual networks and applications.

☑With Veryx Vtap, Complete Visibility Of Inter-Vm/Vnf Traffic Is Provided And Any Performance Issues Can Be Detected Quickly And The Aforementioned Challenges Can Be Addressed.

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Veryx vTAP is valuable in the following real world scenarios:

- Traffic visibility in virtual environments
- Determining performance bottle necks at VM/VNF level
- Anomaly detection and network forensics
- Tap network performance to support third party analytics solutions

Veryx vTAP works with third-party network packet brokers (NPBs) and the traffic collected can be analyzed with Veryx FlowAnalyzer and other security and compliance tools.

Veryx Vtap Features

## Utilize Negligible System Resources

Many Vm-Based Virtual Tap Solutions Consume A Significant Amount Of System Resources For Vnf Monitoring. However, The Veryx Vtap Is Lightweight And Easily Installable. This Result In Negligible Amount Of System Resources And Thus Allowing Service Providers To Retain System Resources For The Vnfs Hosted On The Systems.

## Rapid And Live Deployment Without Any Server Downtime Or Kernel Update

Veryx Vtap Controller Allows Deployment Of Taps On A Single Click, Without Any Server Downtime. Kernel Based Taps Are Not Advisable As They May Potentially Affect The Overall Stability And Reliability Of The System.

## Support Isolation Of Traffic At Tenant / Service Level

While Other Vtaps Allow Vm/Vnf Level Monitoring, Vtap Offers Traffic Isolation Both At A Vm/Vnf And Tenant / Service Level. Thus A Service Provider Can Understand The Resource Consumption And Traffic Flow For Each Service. With Vtap, When Service Providers Offer Multiple Services, They Can Monitor The Current Capacity Of The Network And Current Volume Of Traffic That Is Coming In For Each Service And Perform Capacity Planning For Future Needs.

## Advanced Traffic Segregation Option For Trouble Shooting

Veryx Vtap Can Clearly Segregate Ingress Direction And Egress Direction Instead Of Performing A Full Traffic Mirroring. During Trouble Shooting, This Is Highly Relevant As It Eliminates Overheads And Allows The Service Provider To Narrow Down On The Actual Bottlenecks.

## Pre-Integrated With Openstack

Openstack Is Becoming Popular Among Enterprises And Service Providers For Their Datacenter Deployments. Openstack Based Deployments Utilizing Veryx Vtap Is Very Simple, As It Is Pre-Integrated With Openstack. Service Providers Can Now Utilize A Single Dashboard For Both Vm/Vnf And Vtap Installation/Configuration. This In Turn Reduces The Management Overhead Associated With Vtap Usage.

## Monitoring Traffic Between Vms/Vnfs In A Single Hypervisor

The Currently Available Physical Tap Solutions Support Only Monitoring Traffic Of Vms/Vnfs Present Across Different Hypervisors. This Leads To A Blind Spot In Inter-Vm/Vnf Traffic Where The Following Cannot Be Determined:

- The potential threats to a VM/VNF within a hypervisor
- Performance bottlenecks when VMs/VNFs within the same hypervisor are trying to communicate.

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Resources



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