

## Datasheet

# Cloud Intelligence TAP - Virtual TAP Solution

Enables 100% visibility of virtual network traffic for superior monitoring capabilities in private, hybrid and public clouds



## Overview

With the increasing transition to data-center and cloud-based environments, IT teams often struggle to rely on traditional monitoring tools for traffic visibility. Physical TAPs are unsuitable for virtual environments because they cannot monitor East-West or inter-VM traffic, and they cannot track VMs as they migrate across hypervisors.

Niagara Networks' Cloud Intelligence TAP (CIT) - a vTAP software solution - addresses these challenges by providing complete visibility into VM traffic across virtual computing environments, whether in private, public, or hybrid clouds.

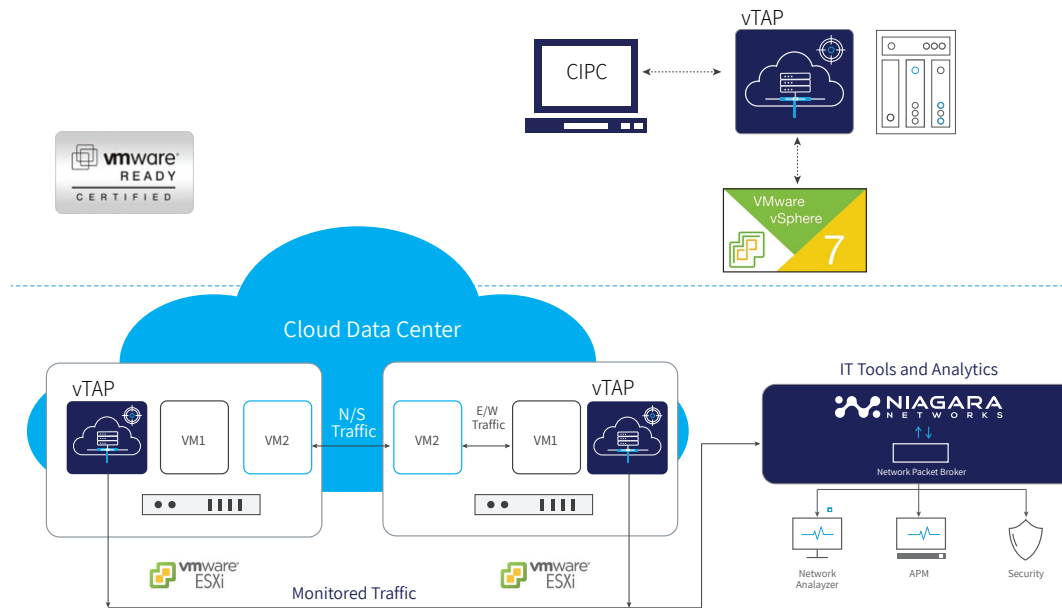
## Key Benefits

- Enables Visibility-as-a-Service (VaaS) across private, public, and hybrid clouds
- Full removal of blind spots with complete visibility into East-West, inter-VM, and mid-plane traffic
- Reduces network bandwidth consumption with multi-layer, selective traffic filtering
- Centralized visibility management through the CIP Controller for unified orchestration and monitoring
- Scalable design that supports dynamic, cloud-native environments where VM instances regularly start, stop, and migrate
- Minimal hypervisor overhead for efficient VM performance and lightweight deployment
- Supports forwarding tapped traffic to any monitoring, analytics, or security tool via GRE tunnels
- Native compatibility with AWS, Azure, and GCP architectures for seamless public-cloud integration
- Enhances troubleshooting, SLA compliance, and forensic investigations through deep traffic visibility
- One-touch installation enabling rapid, bulk deployments across large cloud footprints
- Complements and integrates with existing Niagara physical TAPs for end-to-end hybrid visibility
- Unified administration for virtual TAPs and virtual packet brokers under a single operational model

## Key Features

- Enables 100% visibility of VM traffic
- Supports VM traffic up to 10Gb/s
- Supports VXLAN and GRE tunneling
- Advanced traffic filtering support
- Supports VMware ESXi
- Supports Amazon EC2, Microsoft Azure, and Google GCP cloud services
- IPv6 TAP support for AWS, GCP and Azure
- Supports forwarding tapped traffic to multiple collectors in public cloud environments
- Supports VMware vSS and vDS
- Single pane of glass-based management
- Single pane of administration (CIP Controller) for both the CIT Virtual TAP and the CIP Virtual Packet Broker
- The management layer and the TAP are separate entities, allowing each to reside on different platforms - on-prem or in the cloud

# Private Cloud Visibility



CIT - virtual TAP deployment scenario

Niagara Networks' CIT vTAP can replicate all VM traffic without interrupting regular VM data flows, while adding only minimal processing overhead to the hypervisor. The tapped traffic can then be forwarded to any monitoring, security, or analytics tools of choice.

The management of the vTAP is integrated into the Cloud Intelligence Platform Controller (CIPC), providing the same administration capabilities used for Niagara's virtual Network Packet Brokers.

CIPC is deployed as a separate VM on any hosted virtual platform and functions as a unified management console for all platforms - cloud or on-prem. This makes it possible to centrally manage virtual TAP agents, virtual packet brokers, and visibility policies from a single interface.

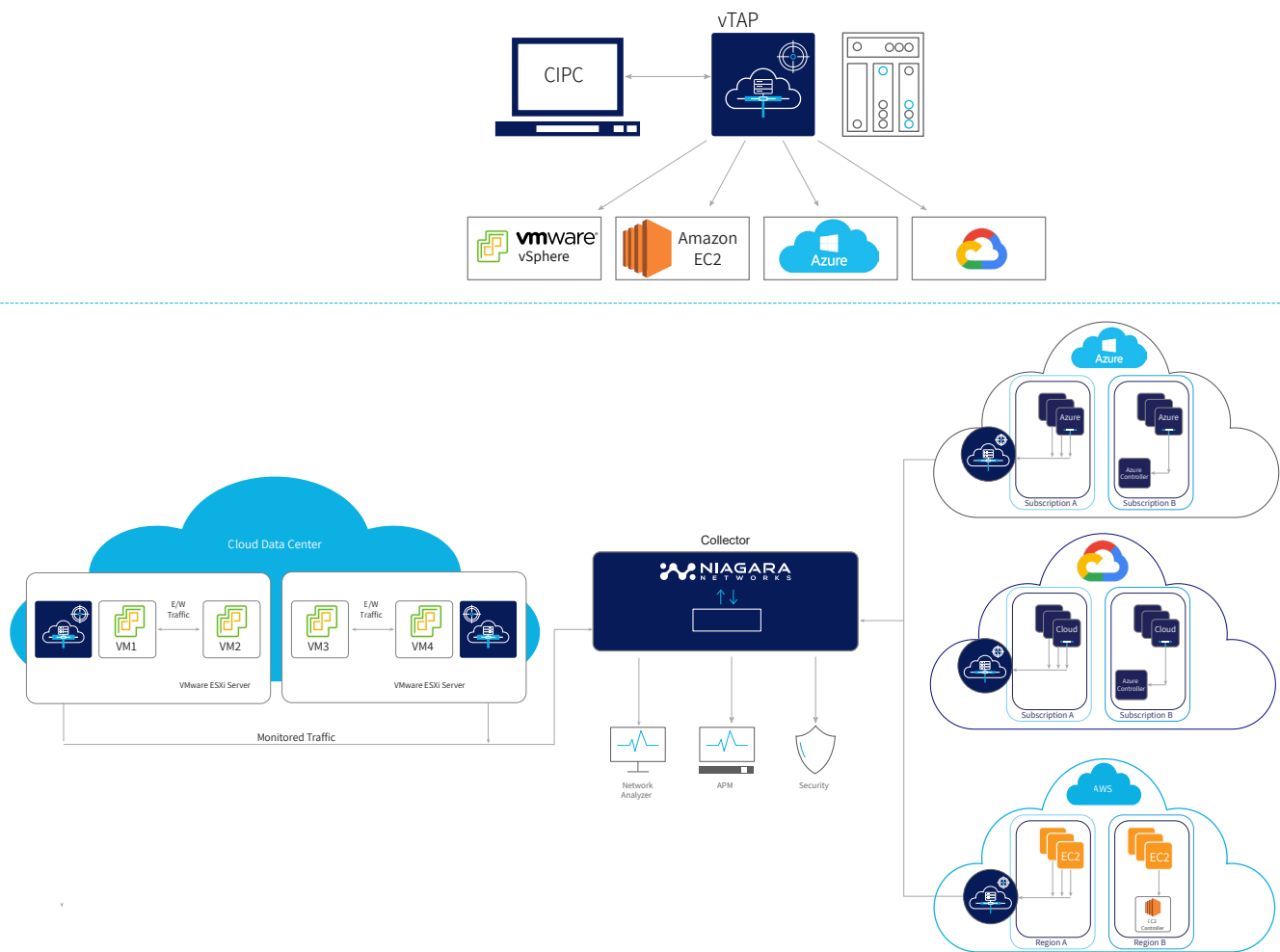
This architecture enables a scalable and consistent visibility framework across private, public, and hybrid cloud environments. Administrators can deploy and orchestrate vTAP agents, configure filters, manage traffic distribution, and maintain end-to-end visibility using a common operational model. The unified approach simplifies configuration, reduces operational complexity, and supports coherent traffic workflows across all virtualized environments.

Niagara Networks' vTAP can also operate in conjunction with Niagara's physical TAPs and on-prem packet brokers, enabling seamless visibility across hybrid infrastructures where virtual and physical network segments coexist. This allows organizations to maintain full visibility even as workloads migrate between on-prem data centers and cloud platforms.

# Extending Visibility to Virtual Networks and Hybrid Clouds

Niagara Networks' vTAP can be deployed in public cloud environments such as Amazon EC2, Microsoft Azure, and Google Cloud (GCP) to provide visibility into cloud-hosted workloads and services. The architectural design aligns with each cloud provider's native networking model, allowing the vTAP agent to intercept the required traffic and securely export it over GRE tunnels to the organization's monitoring and analytics infrastructure. This approach ensures consistent traffic visibility across distributed cloud instances - even in highly dynamic, autoscaling, or multi-zone deployments.

The vTAP solution also plays a central role in hybrid-cloud architectures. It offers maximum deployment flexibility, enabling traffic to be collected, filtered, and forwarded regardless of whether workloads reside in a private cloud, a public cloud environment, or an on-prem data center. The same reference architecture can be applied across these scenarios, simplifying orchestration, policy management, and visibility workflows throughout the entire hybrid environment.



Niagara's vTAP - Hybrid Cloud deployment scenario

Contact us for a demo  
[sales@niagaranetworks.com](mailto:sales@niagaranetworks.com)

## Specifications

Hypervisor

- Supports VMware vCenter 8.0

Controller VM

- Two vCPUs
- 2GB RAM, 8GB virtual disk storage

TAP VM

- One vCPU
- 512MB to 2GB RAM, 1GB virtual disk storage
- Maximum: 10 Network Adapters (Management port, Tunneling port, 8 monitoring ports)

## Ordering Details

Part Number	Description
CIT-10-S	10 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-20-S	20 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-50-S	50 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-100-S	100 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-250-S	250 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-1000-S	1000 Agent pack. The license applies to the number of installed Agents, 1 license per host (VMware). Annual subscription. <sup>1</sup>
CIT-100-C	100 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription. <sup>1</sup>
CIT-250-C	250 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription. <sup>1</sup>
CIT-1000-C	1000 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription. <sup>1</sup>

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## About Niagara Networks

Niagara Networks provides high performance network visibility solutions for seamless administration of security solutions, performance management and network monitoring. Niagara Networks products provide advantages in terms of network operation expenses, downtime, and total cost of ownership. A former division of Interface Masters, Niagara Networks provides all the building blocks for an advanced Visibility Adaptation Layer at all data rates up to 100Gb, including TAPs, bypass elements, packet brokers and a unified management layer. Thanks to its integrated in-house capabilities and tailor-made development cycle, Niagara Networks is agile in responding to market trends and in meeting the customized needs of service providers, enterprises, data centers, and government agencies. For more information please visit us at [www.niagaranetworks.com](http://www.niagaranetworks.com).

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