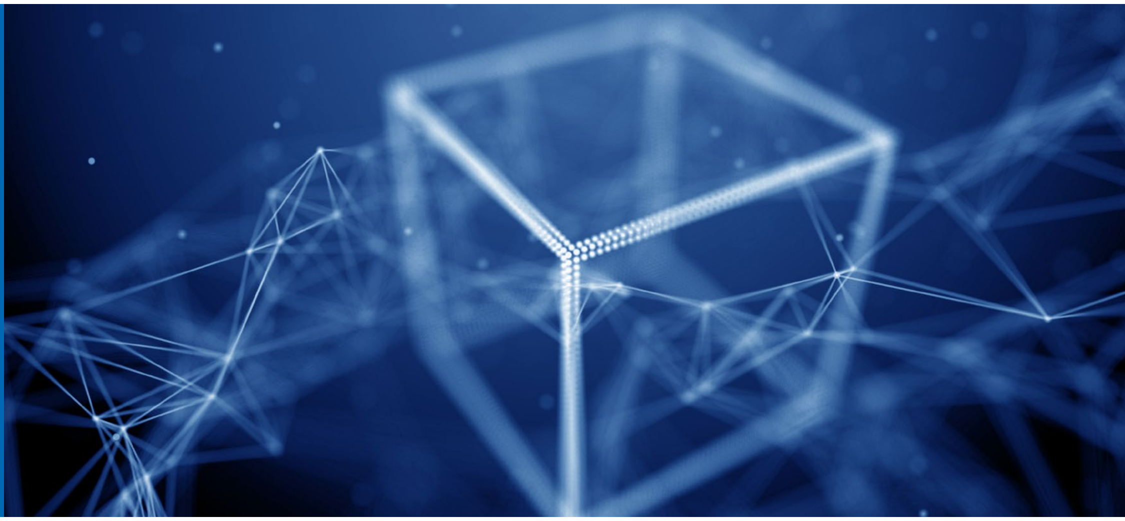
PRODUCT BRIEF

APCON
Solutions for Networks

MAGNIFIED VISIBILITY FOR VMWARE

IntellaTap-VM

DO YOU KNOW ABOUT **BLIND SPOTS IN VIRTUAL ENVIRONMENTS?**



KEY FEATURES

Simple and Efficient UI
With a few clicks, IntellaTap-VM allows you to gain visibility into your VMware network traffic.

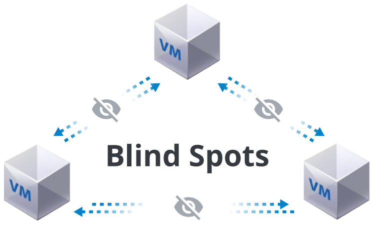
Unified Virtual & Physical Network Visibility
IntellaTap-VM and TITAN deliver an unparalleled global view of all your network environments.

Scalable to Meet Your Needs
Whether you have 10 VMs or hundreds, we've got you covered.

Hassle-free Automated Deployment
IntellaTap-VM seamlessly integrates with VMware vCenter and NSX-T Manager for automated deployment.

Don't Lose Sight of Your VMware Network Traffic

Datacenter growth and capacity constraints have given rise to the widespread use of virtualized servers. The resulting amount of network traffic flowing between virtual machines has grown exponentially.



As more networks become virtualized, a visibility gap occurs. A significant amount of East-West traffic (or traffic between VMs) never actually leaves the virtual environment, and more importantly, never traverses through the physical network where traditional monitoring technologies are deployed. Organizations without the capability to monitor virtual network traffic leave themselves open to significant security vulnerabilities and technical issues.

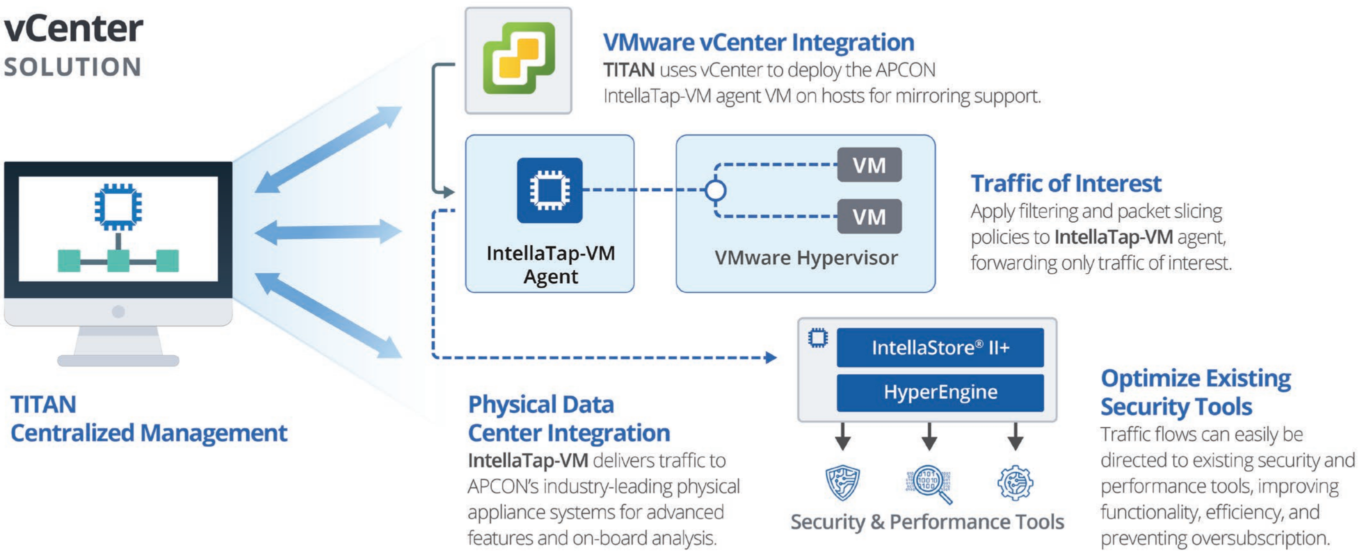
Get Magnified Visibility with IntellaTap-VM

IntellaTap-VM provides magnified visibility of VMware network traffic. This is done by applying virtual traffic capture points in the virtual network that allows you to quickly and easily identify areas within your VMware environment for 24x7 monitoring. The traffic of interest can be further processed on your security/performance tools, and allow them to function at top efficiency.

APCON's Virtual Solutions

APCON offers three virtual monitoring solutions on the TITAN visibility platform that filter, encapsulate, and forward virtual traffic. These solutions are catered to work with various virtual environments and provide different levels of access to the virtual agents. All IntellaTap-VM solutions can integrate into APCON's physical visibility solutions to further enhance network visibility.

vCenter
SOLUTION



VMware vCenter Integration
TITAN uses vCenter to deploy the APCON IntellaTap-VM agent VM on hosts for mirroring support.

Traffic of Interest
Apply filtering and packet slicing policies to **IntellaTap-VM** agent, forwarding only traffic of interest.

TITAN Centralized Management

Physical Data Center Integration
IntellaTap-VM delivers traffic to APCON's industry-leading physical appliance systems for advanced features and on-board analysis.

Optimize Existing Security Tools
Traffic flows can easily be directed to existing security and performance tools, improving functionality, efficiency, and preventing oversubscription.

Solution Overview:

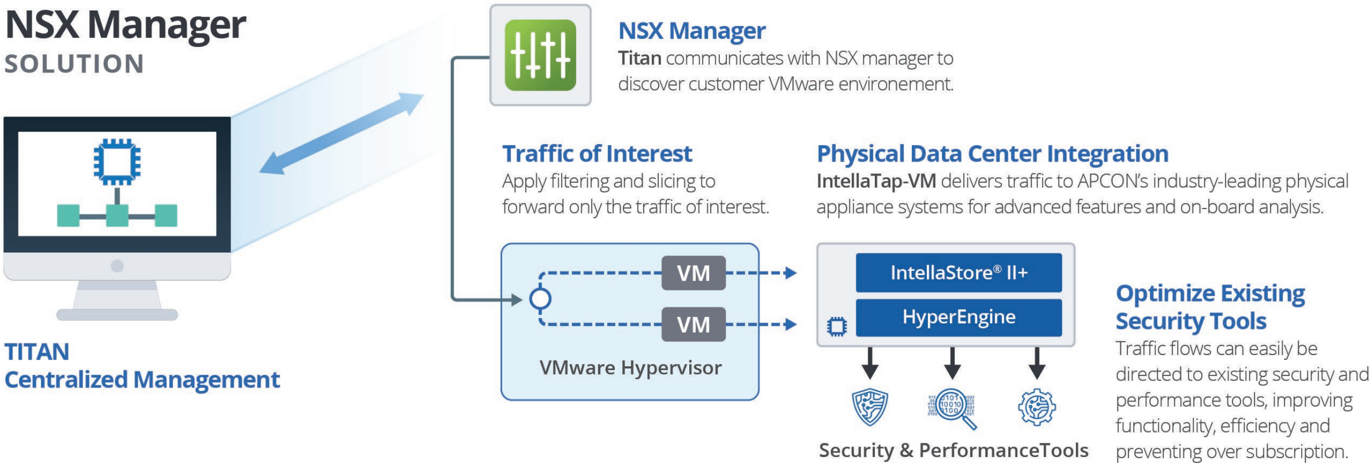
TITAN provides administration for the IntellaTap-VM virtual network visibility solution. TITAN communicates with VMware vCenter to identify and activate capture points within the virtual network. It sets traffic filters, alerts you of migration events, and allows you to forward traffic through GRE tunnels.

IntellaTap-VM agents act like virtual network TAPs to mirror traffic flows and forward them to your existing security tools – meaning threats that were previously hidden in your VMware environment can now be found.

Benefits:

- Automated deployment of IntellaTap-VM agents
- Auto-discovery of vCenter configuration
- Mirror traffic by port groups
- vMotion support
- Advanced filtering

NSX Manager
SOLUTION



NSX Manager
Titan communicates with NSX manager to discover customer VMware environement.

Traffic of Interest
Apply filtering and slicing to forward only the traffic of interest.

Physical Data Center Integration
IntellaTap-VM delivers traffic to APCON's industry-leading physical appliance systems for advanced features and on-board analysis.

TITAN Centralized Management

Optimize Existing Security Tools
Traffic flows can easily be directed to existing security and performance tools, improving functionality, efficiency and preventing over subscription.

Solution Overview:

VMWare's NSX is a network hypervisor that provides a platform to manage virtualized network deployments. NSX supports both vSphere environments as well as non-vSphere environments. APCON's IntellaTap-VM NSX-T basic solution utilizes REST API to give our partners the ability to create logical port mirroring that replicates and redirects the traffic, fully encapsulated within a Generic Routing Encapsulation (GRE) tunnel(s), and filtered, to network-analyzing tools.

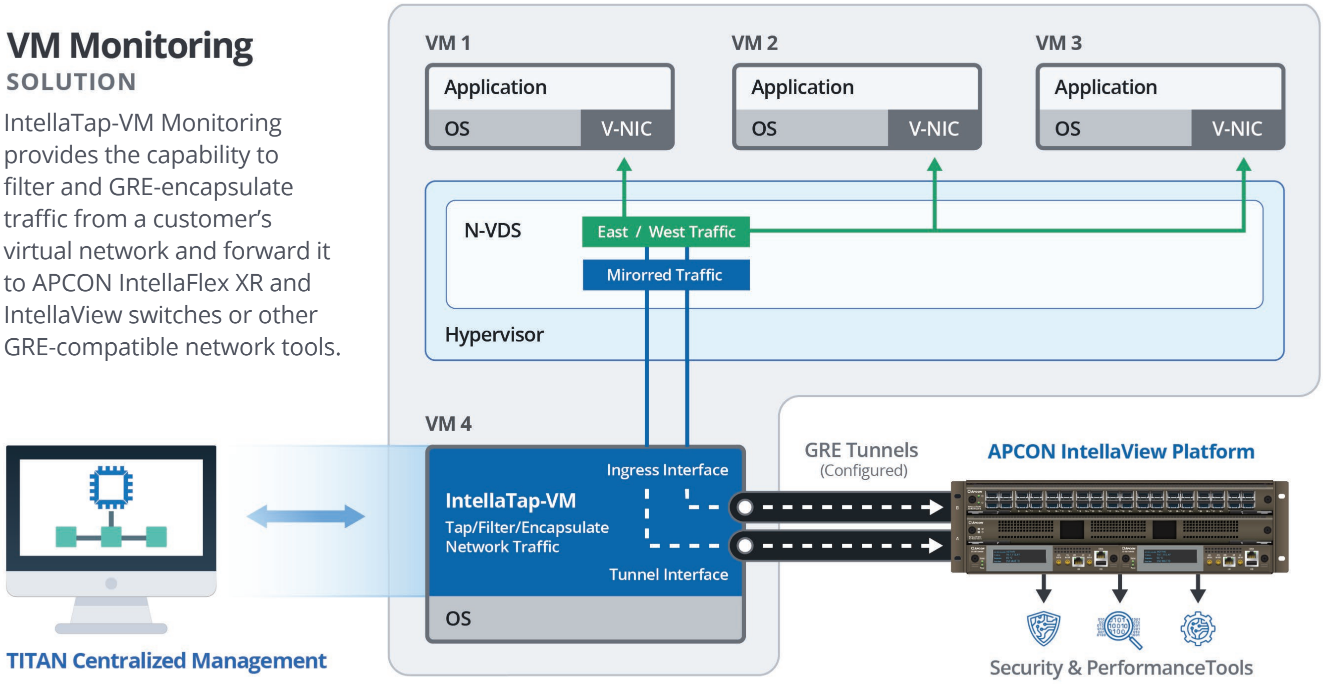
Benefits:

- No TITAN agent (VM) deployment
- Allows for integration with non-vSphere virtual environments like KVM, Hyper-V, etc.
- Ability to create filters via GUI (NSX offers filtering only through REST API)
- REST API interface provides flexibility (different data formats), and speed, as well as ease of use

VM Monitoring

SOLUTION

IntellaTap-VM Monitoring provides the capability to filter and GRE-encapsulate traffic from a customer's virtual network and forward it to APCON IntellaFlex XR and IntellaView switches or other GRE-compatible network tools.



Solution Overview:
Some customers want more control over who has permission to make edits in their virtual environment. The VM Monitoring solution relies on customers deploying a compatible Virtual Machine with interface(s) in the virtual network of interest, as well as interface(s) with access to the physical network. In this solution, TITAN does not deploy a virtual machine, nor create or manage interfaces on the target agent.

Customers mirror traffic of interest to a port on the VM agent using their own virtual network tools. IntellaTap-VM Monitoring provides the ability to specify packets to be forwarded with user-defined packet filters and multiple Tunnel endpoint addresses.

Benefits:

- Any virtual environment (KVM, Hyper-V, VirtualBox, etc.) is supported, provided the customer-provided VM is configured properly
- TITAN can also provide a vCenter OVF file for a quick deployment of VM image
- Customer has full control of port mirroring process
- Greater filtering capabilities

IntellaTap-VM Benefits and Capabilities

- 100% visibility of VM traffic
- Mirror traffic by port groups (vCenter Solution)
- Apply traffic filtering and packet slicing policies
- Tunneling capabilities
- Optimize existing security tools
- Bandwidth reduction on production networks
- Little to no impact installations
- vMotion support, constant visibility of VM movements (vCenter Solution)

Centralized Management

Integrated physical and virtual network visibility requires centralized management that's easy to use.

Filtering Traffic of Interest

IntellaTap-VM TAPs and filters user-selectable virtual machine traffic, andonly sends traffic of interest across the physical network.

Use Existing Tools

Enterprises have significant investment in security and diagnostic tools that safeguard networks and keep them running well. APCON's integrated virtual and physical network visibility solution can direct all traffic of interest to one or more tools giving security experts complete visibility across the entire network while at the same time increasing tool efficiency.

Why Choose APCON?

Alongside virtual solutions, APCON features easy-to-use graphical interfaces across world-leading physical switches that scale to monitor large data centers.

Scalable Solutions

- Modular switch design based on large enterprise data center requirements
- Unique multi-switch management software
- Common software and hardware across all chassis simplifies operations
- Unified virtual and physical network monitoring

Reliability & Redundancy

- Redundant controller cards and power supplies
- Separate data and control plane architecture maintains connections during controller swap
- Hot-swappable blades, controllers, power supplies, and transceivers

Port Density & Throughput

- Chassis sizes:
  - IntellaFlex XR: 1RU to 14RU
  - IntellaView: 1.5RU to 9RU
- Up to 1,152 ports in Intellavlew 9RU with breakout
- Up to 19.02+ Tbps throughput capacity with IntellaView

KVM Hyper-V

Benefits of Physical Network Integration

APCON's high-performance network visibility solutions help aggregate traffic sources to execute advanced processing features including deduplication, NetFlow generation, protocol header stripping, deep packet inspection, and tunnel termination for virtual network monitoring.

IntellaStore II+ Security Visibility Platform combines APCON's world-class packet aggregation and filtering technology with advanced features such as integrated traffic capture, storage, and onboard analysis tools. Network engineers can monitor networks in real time allowing for earlier security threat detection, investigation, and response.

Ordering Information

Part Number	Description
9100	**TITAN Management Software License**
9111	**IntellaTap-VM 10 pack license bundle (1 license per host)** Also Available: - IntellaTap-VM-50 (50 pack license bundle) - IntellaTap-VM-100 (100 pack license bundle)
IntellaView Platform	
ACI-4030-E36-1	**IntellaView 36 Port Blade** – Supports 36 × 40/100G ports
ACI-4030-E36-2-1	**IntellaView 36 Port Blade w/ Advanced Module** – Supports 36 × 40/100G ports Advanced Module Includes: – Deduplication Software License (ACI-9300-002)
ACI-4030-E52-1-1	**IntellaView 52 Port Blade** – Supports 48 × 1/10/25G ports – Supports 4 × 40/100G ports
ACI-4432-EDG-1	**IntellaView EdgeSwitch Standalone 1RU Chassis** – Supports 32 × 40/100G ports
ACI-9300-004	**IntellaView Tunnel Management License** – Includes Tunnel Initiation and Tunnel Termination
IntellaFlex XR Platform	
ACI-3033-S14	**IntellaStore II+ Appliance Blade** – Up to 10 Gbps GRE (Optional) – Includes Tunnel Initiation and Tunnel Termination
ACI-3033-E02	**HyperEngine Packet Processor Blade** – Up to 200 Gbps GRE (Optional)

Need Visibility for KVM or Hyper-V Environments?

Our IntellaTap-VM solutions are compatible with many providers of virtual network environments like KVM, Hyper-V, and many others.

APCON Solutions for Networks

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