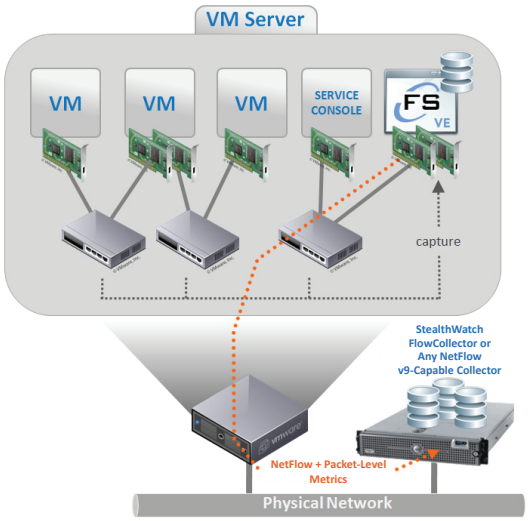
STEALTHWATCH® FLOWSENSOR™ VE

In today's complex business environments, organizations demand continuous access to and fast performance from the IT systems they use. When these fail or slow down, network security and operations teams must be able to isolate the root cause and restore performance quickly and efficiently.

Visibility into all areas of the network, including virtual environments, is critical to answering questions such as:

- Has a virtual machine in a sensitive area of the system been compromised?
- Does the problem relate to a misconfigured application or a virus on the user's workstation?
- Is a particular server overloaded with traffic?



More and more, organizations are recognizing the importance of NetFlow to provide the kinds of detail they need to ensure continuous, satisfactory and secure network performance. However, the monitoring solution they require must be scalable and cost-effective, using as few resources as possible.

The StealthWatch FlowSensor from Lancope, the leader in NetFlow collection and analysis, provides the all-encompassing visibility needed anywhere from branch offices to 10G data centers at a fraction of the cost of traditional probe-based devices.

Power of NetFlow Anywhere

Using the same technology as the StealthWatch FlowSensor appliance, the FlowSensor VE is a virtual image that generates NetFlow for areas that are not NetFlow-enabled, or where operators need deeper visibility into packet data.

> "Through 2012, more than 80% of application performance and availability failures will be blamed on network problems, but the network will represent less than 20% of the root cause."
>
> *– Gartner**

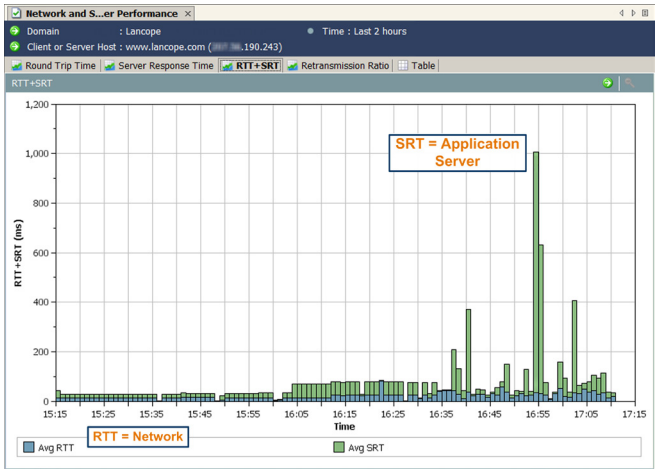
Simply direct the FlowSensor toward any NetFlow v9-capable flow collector to derive the valuable detailed traffic statistics that only NetFlow can deliver. The FlowSensor VE also provides advanced URL data for even more precise troubleshooting, and when combined with the StealthWatch FlowCollector, can also provide deep insight into performance metrics and behavioral indicators.

Visibility + Contextual Intelligence = Quick Problem Identification + Isolation of Root Cause

The inability to diagnose performance complaints or pinpoint the cause of security-related incidents can cause costly troubleshooting delays and exacerbate a poor user experience. Working with the other components of the StealthWatch System, the FlowSensor delivers contextual, flow-based server and network Response Time Management (RTM) information.

**Gartner Research, 2008 Polling Results Show That Data Center Network Managers Are Increasingly Being Tasked With Meeting Application Performance Goals*

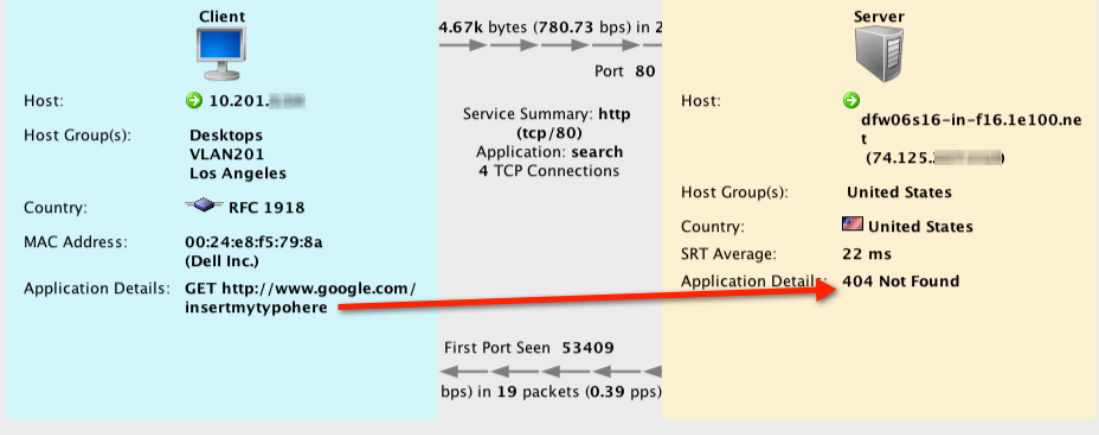
This data helps operators quickly determine if the root cause of latency lies with the user's workstation, the network or the application server. If the cause lies at the host, StealthWatch can even identify the user involved. Using StealthWatch's unique drill-down features, operators can go from issue to root cause within seconds, thereby reducing Mean Time to Know (MTTK), enhancing operational efficiency and reducing costs.



The StealthWatch FlowSensor delivers traffic statistics to any NetFlow v9-capable collector. When combined with other StealthWatch components, IT personnel can see key performance metrics via user-friendly graphs that help operators quickly identify the root cause of issues.

Advanced URL Data

Lancope also provides URL information in flow records generated by the FlowSensor and FlowSensor VE. Previously unavailable from most flow sources, URL data enables administrators to see exactly which web sites users are going to, as well as the file path, to more easily identify which applications are causing performance or security problems. Administrators can identify both the hostname of the server, as well as any error messages within the flow, for faster network troubleshooting.



URL data from StealthWatch helps further distinguish which applications are causing security or performance problems.

Low-Cost NetFlow Solution for Virtual Environments

Having very little impact on system resources, the FlowSensor VE monitors traffic traveling into and out of VMware vSphere/ESXi hosts and between the virtual machines (VMs) within those hosts, effectively eliminating the communications blind spot often associated with virtualized environments. With the FlowSensor VE, operators can see the same detailed traffic statistics for their virtual networks as they can for their physical networks using the FlowSensor appliance.

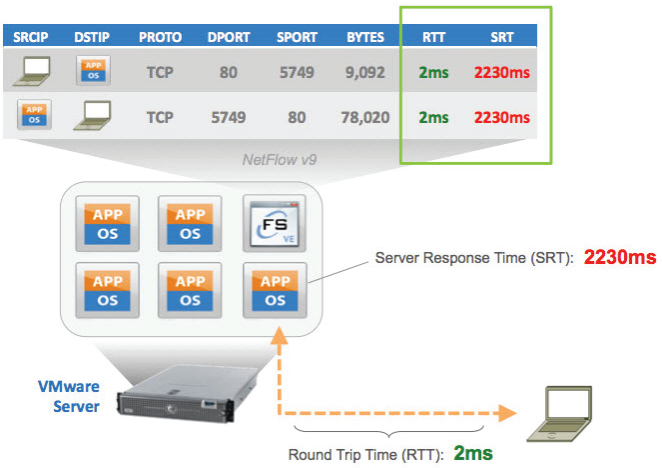
StealthWatch FlowSensor Helps Organizations:

- ***Achieve comprehensive visibility*** *into areas of the network that lack flow data or where traditional Ethernet sensor technology is too costly to deploy.*
- ***Manage network communications down to the individual flow*** *by capturing, storing and reporting communications across the network, delivering unmatched visibility into the nature of the organization's network traffic.*

- ***Pinpoint security-related network problems*** *by generating NetFlow data that the StealthWatch FlowCollector analyzes to identify and prioritize suspicious network communications, including botnets, worms, policy violations and misconfigured network devices.*
- ***Troubleshoot application performance and network latency issues*** *through quick diagnosis and resolution of end-user performance complaints.*
- ***View advanced URL data*** *to further expedite troubleshooting.*

How It Works

The StealthWatch FlowSensor VE is a lightweight image that simply installs inside each vSphere/ESXi host and connects promiscuously to the virtual switches.



Once installed, the FlowSensor passively captures Ethernet frames from the traffic it observes and creates NetFlow records containing valuable session statistics that pertain to conversational pairs, bit rates and packet rates. The FlowSensor then sends these records to any flow collector that supports NetFlow v9.

As the FlowSensor observes network traffic, it also calculates various performance metrics for each flow and exports them as NetFlow v9, enriched with performance metrics and behavioral indicators. Because the FlowSensor has packet-level visibility, it can calculate round-trip time (RTT), server response time (SRT) and packet loss for TCP sessions. It includes all of these additional fields in the NetFlow records that it sends to the StealthWatch FlowCollector. These flow performance indicators provide insight into the latency introduced by the network, as well as by the server-side application.

FlowSensor VE Specifications

Minimum Disk Space Requirements	VMware ESXi Versions Supported	Minimum Memory Requirements	Minimum CPU Requirements
1.4 GB	3.5 and 4.0	512 MB	2 GHz

To learn more or request a demo, contact sales@lancope.com.

About Lancope, Inc.

Lancope®, Inc. is a leading provider of flow-based monitoring to ensure high-performing and secure networks for global enterprises. Unifying critical network performance and security information for borderless network visibility, Lancope provides actionable insight that reduces the time between problem identification and resolution. Enterprises rely on Lancope to make better network decisions, respond faster to network problem areas and avoid costly outages and downtime — at a fraction of the cost of conventional network monitoring solutions.

Lancope Headquarters

3650 Brookside Parkway
Suite 400
Alpharetta, GA 30022

U.S. Sales
+1.770.225.6500
888.419.1462

International Sales
+44 (0)560 344 8075

Website: www.lancope.com
E-mail: sales@lancope.com

DSV802222012