

## ProbeNetflow

Capture data from continuous streams of IP network traffic, and integrate with VirtualWisdom for superior infrastructure performance management.

### Introduction

As a VirtualWisdom Integration, ProbeNetflow captures flow records from NetFlow, sFlow, Jflow, and IPFIX and sends them to the VirtualWisdom appliance. Use VirtualWisdom to get control over bandwidth utilization, optimize application performance, and quickly troubleshoot problems.

Typical use cases include:

- What bandwidth is being consumed by a particular IP node?
- Who/What is congesting the network? Or, what is the bandwidth usage of specific applications?
- Who is talking to whom?
- Who is using a particular network service?
- What are the top talkers in a subnet?
- Which network services are being used?
- Detects network anomalies (DDoS, SPAM, BotNets, abnormal downloads/uploads, ...)
- Detects impact of hosts to other hosts and correlates to affected applications and storage, via contention analysis
- Predict, prevent, and remediate performance problems via correlation with other data sources, such as ScaleIO and ProbeNTAP probes combined with a rich set of analytics

### Product Benefits

- Full integration with VirtualWisdom, for single-pane-of-glass network infrastructure optimization
- Identify bandwidth hogs before user applications are affected
- Generate highly granular and accurate real-time traffic reports instantly and quickly troubleshoot problems
- Get visibility into all tiers of apps, not just tier 0, enabling identification of noisy neighbors on lower tiers
- Validate infrastructure SLAs
- Provide reporting for charge-backs

## Analytics

- “Likely-kind” analysis of network traffic uses heuristics to determine possible roles of a network endpoint, for app discovery
- App discovery uses network conversations to find/suggest apps for simplified app-centric reporting
- Trend-matcher enables you to quickly identify cause of problems and potential problems. Leveraging baseline trends and target metrics, it compares against every device over specified timeframes and provides lists of correlated matching devices

## Entities

- IP Address
- Network Service, which is defined by ports or IP addresses or a combination of both. Examples of these services might be NDS, NFS, Netflix, or Facebook
- Network Conversation, including the client, server and network service

## Licensing

ProbeNetflow is licensed by the number of IP end points

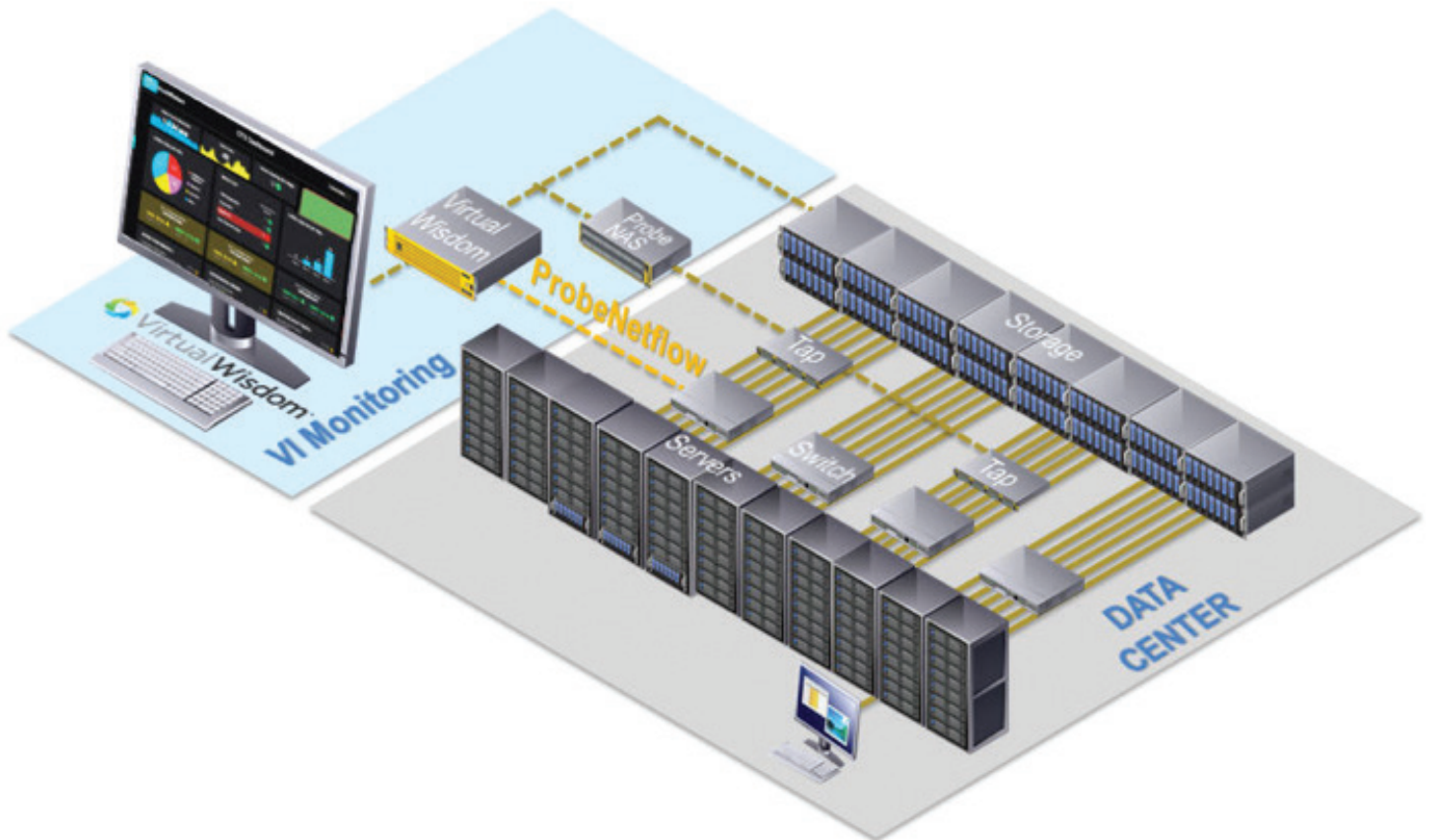


Figure 1: VirtualWisdom 5.4 and Ethernet-based storage network, with ProbeNetflow and ProbeNAS