Software, applications and services running on the network infrastructure are the lifeblood of every carrier and large enterprise. And, the ability to detect and rapidly resolve problems with these applications and services can mean the difference of millions of users, dollars in revenue, or hours in productivity. As a result, being able to understand how well end users are experiencing a service or application has become a business critical requirement—whether it’s hosted on premises, across a WAN infrastructure, in a hybrid cloud or delivered by a provider.

SevOne Data Appliance for EUE, a resell of AppNeta Performance Manager, actively tests entire network paths by using synthetic traffic, collecting in-depth end-user experience data across enterprise, cloud and communication service provider infrastructures. Now you can easily measure actual application and service performance and directly correlate it to the network and digital infrastructure that's responsible for delivering it. Whether you're looking to measure over Wi-Fi access points to local or remote servers, over the mobile infrastructure, over VPN to remote offices, or over the Internet to Web applications and into Cloud services, SevOne Data Appliance allows you to gather and integrate user experience with other metric, flow and log data as part of your SevOne deployment.

**ALL THE DATA.**
Collect and correlate end-user experience metrics.

**AT YOUR FINGERTIPS.**
Gain visibility across premises, hybrid, IaaS, PaaS, and SaaS cloud infrastructures.

**FOR SERVICE DELIVERY INSIGHT.**
Correlate end-user experience data with performance metric, flow and log data.
# FEATURES AND BENEFITS

## Monitor Any Network Without Impacting Production Applications
Get insight into any network, even cloud providers’, by sending and receiving precisely timed network traffic, so you can assess performance in real time. Always-on monitoring gives one-minute granularity on latency, data loss and jitter, stored for up to a year, while providing insight into actual versus provisioned capacity.

## Correlate Application and Network Performance
With application-based SLAs, SevOne End User Experience automatically knows when network performance blips are just blips, and when they're affecting your end users. A continuous stream of performance insight is compared against your application specific SLAs, so you know exactly when and how network performance impacts application performance.

## Find and Fix Problems Fast on Any Digital Infrastructure
Troubleshooting application response issues often require network, system and infrastructure teams to work together. With SevOne End User Experience, multiple teams can actively test, troubleshoot and pinpoint issues across the entire path applications take, including user, network, server, databases and more. With an optional software license, you can enable up to 10Gbps deep packet inspection for further details on application traffic. With SevOne End User Experience, you can gain valuable insight, and drive cross-team collaboration that can reduce mean time to resolution opposed to time to innocence.

## Measure Critical SaaS solutions: Salesforce, Office 365, Google Apps and More
Measure performance, functionality and availability directly from the end user's perspective, using a real web browser. Get started in minutes with our Quick Start Workflows for Salesforce, Office 365, Google Apps and more. Quick Start Workflows are especially helpful because they enable you to monitor apps from the end user, through the network, to the app provider.

## Support Custom Applications
Create custom workflows and string together up to 20 commands, execute them back to back, measure the result, and get performance alerts. You can also replay workflows from a consistent environment to highlight any change in application performance.

## Every Detail, Every Important Transaction
Get every detail of important transactions in your web app, and break down the source of all latency by browser, application or network. The appliance also enables you to pinpoint when problems started, with full waterfall charts for every transaction in the last 30 days. Finally, you can and identify larger trends with up to a year of historical data.

## Deploy Anywhere Users Are, Inside and Outside the Firewall
The best place to measure end user experience of web applications is from your end users’ locations. Using the appliance you can combine usage from multiple monitors to identify trends across different locations and isolate all kinds of problems—from global slowness to congestion at a single office.

## Leverage Your TWAMP-enabled Infrastructure
Measure the round trip performance from any two points in your TWAMP-enabled IP infrastructure with built in support for the Two Way Active Measurement Protocol (TWAMP).

[DataSheet] End User Experience
IMPLEMENTING SEVONE DATA APPLIANCE FOR EUE

Modern infrastructures are virtualized, flexible and complex. We offer options that make sense so you can tailor your monitoring deployment accordingly. When you’re implementing SevOne Data Appliance for EUE, you’ll get two components: a Monitoring Point and an Analysis Server.

Monitoring Points live at key network points (either via a network span or connected inline) and function as data collectors, sending data to an Analysis Server. Monitoring points are placed at the network egress point for usage analysis and as a standard user in any switch port and on Wi-Fi. The Analysis Server is the data aggregator and analytics engine, and supports multiple Monitoring Points. Those Monitoring Points can be right-sized to your deployment needs.

Step 1 – Choose Monitoring Points: Choose the endpoints where you want to monitor network performance, using either physical or virtual devices.

Virtual Monitoring Point

Already have virtualized infrastructure? Simply provision a new instance to run virtual instrumentation and add it to your usual infrastructure management. Virtual Monitoring Points allow for faster rollouts and simpler updates. Clone virtual appliances to scale to deployments of any size.

v35 virtualAppliance

The v35 virtualAppliance is a virtual appliance running from globally distributed cloud datacenters that is capable of measuring your network, web application and unified communication formats. The v35 virtualAppliance is available for both KVM format (Linux) and OVA format (VMware).

Application Monitoring
Includes: 5 Applications
Includes unlimited monitoring for any application with less than three (3) Layer 3 hops

Network Connectivity
Qty (1) virtual network interface

Connectivity
Wired

WiFi Monitoring
N/A

Application Usage Analysis Rate
500 Mbps/1000 Mbps
Full Duplex
500 FPS

Usage Rate Analysis Deployment Options
via span ports

Concurrent Web Application Monitoring
up to 25 Web Applications

Voice Call Load Generation
N/A

Application Delivery Performance Analysis
VoIP Video Conferencing

Analysis Type
NetFlow Generation with Deep Packet Inspection

Dimensions
N/A

Power Requirements
N/A

[DataSheet] End User Experience
Remote Office – m70
For remote office deployments, the m70 monitoring point enables network engineers to expand network performance management capabilities to much larger organizations and networks of end users. The m70 includes two bypass pairs to enable 3rd party SD-WAN validation from a single monitoring point. This also includes the ability to monitor up to 4 wireless networks at one time.

Experience Monitoring
Includes: 15 Applications

Delivery Monitoring
WAN paths: 200
LAN paths: 300
Voice: 100 concurrent G.726 calls
Voice: 200 concurrent calls

Usage Monitoring
10,000 flow/s across 1 or 2 ports
Inline or mirror modes

Network Interfaces
(6) Total RJ45 Ethernet ports
1Gbps (1000BASE-T)
(2) ports for Delivery/Experience monitoring
(2) port pairs for Usage monitoring
Usage ports support mirror or inline mode with fail-to-wire

Wireless Interfaces
(4) 802.11 ac wifi with quad antennae
(4) ports for Delivery/Experience monitoring

Power
60W, 100 – 240VAC
external adapter with locking connector included

Dimensions
8.66” x 1.73” (1 RU) x 4.13”
220mm x 44mm x 105mm
Designed for desktop

Weight
2.9 lb (1.3 kg)

Operating temperature
32° – 104° F (0° – 40° C)
Large Office – r90

For large office deployments, the r90 monitoring point enables network engineers to expand network performance management capabilities to much larger organizations and networks of end users. The r90 starts with 1 Gbps connections, but is capable of up to 10 Gbps. Even if you don't have 10 Gbps connections today you can scale your investment in the r90 without having to change hardware in the future.

<table>
<thead>
<tr>
<th>Experience Monitoring</th>
<th>Network Interfaces</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes: 60 Applications</td>
<td>(5) Total RJ45 Ethernet ports 1 Gbps (1000BASE-T)</td>
<td>100W, 100 – 240VAC, 50 – 60Hz, 1 – 0.4A</td>
</tr>
<tr>
<td>Delivery Monitoring</td>
<td>(1) ports for Delivery/Experience monitoring</td>
<td>Dimensions</td>
</tr>
<tr>
<td>WAN paths: 250</td>
<td>(2) port pairs for Usage monitoring Usage ports support mirror or inline mode with fail-to-wire</td>
<td>16.93” x 1.73” (1 RU) x 12.01”</td>
</tr>
<tr>
<td>LAN paths: 600</td>
<td>(2) Total SFP+ Ethernet ports for 10Gbps connections. Supports a wide range of 10GBASE PHYs with appropriate SFP+ module (not included)</td>
<td>430mm x 44mm x 305mm</td>
</tr>
<tr>
<td>Voice: 100 concurrent G.726 calls</td>
<td>(1) port for Delivery/Experience monitoring</td>
<td>Rackmount 1U (kit included)</td>
</tr>
<tr>
<td>Voice: 200 concurrent calls</td>
<td>(1) port for Usage or Delivery/Experience monitoring</td>
<td>Weight</td>
</tr>
<tr>
<td>Usage Monitoring</td>
<td></td>
<td>8.4 lb (3.8 kg)</td>
</tr>
<tr>
<td>50,000 flows/s across 1 or 2 ports inline or mirror modes</td>
<td></td>
<td>Operating Environments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32° – 104° F (0° – 40° C)</td>
</tr>
</tbody>
</table>

Data Center – r1000

For large-scale deployments, the r1000 monitoring point enables network engineers to expand network performance management capabilities and gain deep insight into high speed data center networks. The r1000 starts with 10 Gbps connections, but is scalable up to 100 Gbps. Even if you don't have 40 or 100 Gbps connections today you can scale your investment in the r1000 without having to change hardware in the future.

<table>
<thead>
<tr>
<th>Experience Monitoring</th>
<th>Network Interfaces</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes: 200 Applications</td>
<td>(2) Total RJ45 Ethernet ports 10 Gbps (10GBASE-T)</td>
<td>Hot-swap dual 500W supplies</td>
</tr>
<tr>
<td>Delivery Monitoring</td>
<td>(1) port for Delivery/Experience monitoring</td>
<td>100 – 240VAC, 50 – 60Hz, 6.1 – 2.6A</td>
</tr>
<tr>
<td>WAN paths: 250+</td>
<td>(1) port configurable for Usage or Delivery/Experience monitoring</td>
<td>Dimensions</td>
</tr>
<tr>
<td>LAN paths: 600+</td>
<td>(1) port for Delivery/Experience monitoring</td>
<td>16.83” x 1.73” (1 RU) x 10.04”</td>
</tr>
<tr>
<td>Voice: 100 concurrent G.726 calls</td>
<td>(1) port configurable for Usage or Delivery/Experience monitoring</td>
<td>427mm x 44mm x 255mm</td>
</tr>
<tr>
<td>Voice: 200 concurrent calls</td>
<td></td>
<td>Rackmount 1U (kit included)</td>
</tr>
<tr>
<td>Usage Monitoring</td>
<td>(2) Total QSFP28 Ethernet 100G ports</td>
<td>Weight</td>
</tr>
<tr>
<td>50,000 flows/s at 10Gbps</td>
<td>(1) port for Delivery/Experience monitoring</td>
<td>24 lbs (10.89 kg)</td>
</tr>
<tr>
<td>Mirror mode only</td>
<td>(1) port configurable for Usage or Delivery/Experience monitoring</td>
<td>Operating Environments</td>
</tr>
<tr>
<td></td>
<td>A range of 10GBASE PHYs are included with QSFP28-SFP+ adapter and appropriate SFP+ modules (not included)</td>
<td>50° – 95° F (10° – 35° C)</td>
</tr>
</tbody>
</table>
DEPLOYMENT SCENARIOS

Choose how you’d like to deploy SevOne End User Experience in your environment with flexible technology designed to work in your particular infrastructure.

**SaaS - Monitor business critical SaaS applications from any of your company’s locations**

SevOne End User Experience allow you to discover all the applications that are in use on your network and actively test these applications over your application delivery path. Whether you are testing for availability or performance, SevOne End User Experience will help you monitor and diagnose network performance issues to and into the SaaS provider’s environment.

### Hybrid Cloud – Monitor the critical connections between your remote offices, data centers or cloud deployments

SevOne End User Experience monitors to and between physical data centers, private cloud and public cloud deployments. Native software packages are available for installation on existing VMs within cloud providers as well. Robust API support allows for automation to create and manage the monitored paths for highly dynamic environments. This method is an example of deployment and is not mutually exclusive to other scenarios listed.

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[DataSheet] End User Experience
Cloud – Monitor business critical applications in public, private or hybrid cloud infrastructure

SevOne End User Experience allows you to monitor to and between public cloud deployments with support for AWS, Google Cloud and Microsoft Azure. Native software packages are available for installation on existing VMs within cloud providers as well. Robust API support allows for automation to create and manage the monitored paths for highly dynamic environments.