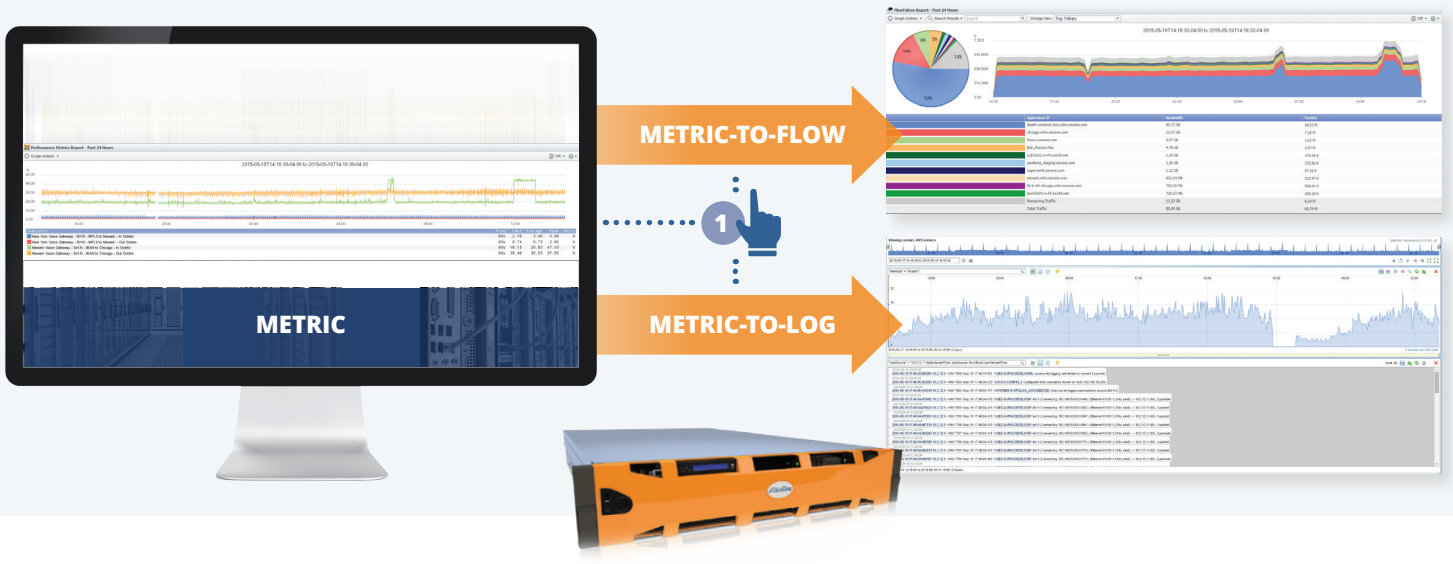
[DataSheet]

INFRASTRUCTURE MONITORING:
INTEGRATED METRICS, FLOWS AND LOGS.

More and more of today's service delivery environments are moving to hyperscale-based infrastructures. This creates a tidal wave of data and information that needs to be monitored and analyzed, including performance metrics, data flows & logs.

SevOne helps achieve this goal by removing visibility gaps and providing true speed at scale that allows you to leverage the power of integrated metrics, flows and logs. With SevOne, users can now understand what happened (metrics), quickly pivot to understand why it happened (logs) and see who it happened to (flows) -- all in one integrated infrastructure monitoring system.

> **"With SevOne, we trust 100% or our performance data. I can't say that about other vendors we've worked with."**
>
> – **Zlatko Zahirovic**, Manager of Wireless Network Connectivity Engineering Bell Mobility



CUT TROUBLESHOOTING TIME IN HALF:

PIVOT IN ONE CLICK.

Pivot from any performance metric to related flow and log data, with a single click

VIEW IT ALL.

View all data sources in a single dashboard or report, for easy correlation of metrics.

STOP SWIVELING.

Eliminate the time drain associated with "swivel chair monitoring"

SEVONE'S APPROACH & VISION

Legacy monitoring tools are being stretched to the breaking point. With multiple metrics, tidal waves of data and fluctuating demand, companies are struggling to monitor their infrastructure and deliver vital applications and services. And, as data increases and domains continue to expand into unchartered territories, blind spots, knowledge gaps and delays are becoming a daily reality. SevOne answers this challenge with an infrastructure monitoring solution that offers true speed at scale. In doing so, we provide access to all data in real-time, for continuous service delivery insight.

Speed at Scale means:

Access to all your data

- Remove visibility gaps
- Integrate metrics, flows and logs
- Monitor public and private infrastructures
- Include compute, network, storage, power/cooling

Instant answers

- Baseline billions of metrics
- Troubleshoot
- Forecast capacity
- Optimize the infrastructure

Service delivery insight

- Understand your infrastructure
- See the effects on the business
- Benefit from continuous service delivery insight

UNDERSTAND WHAT'S NORMAL (AND WHAT'S NOT!)

Given the sheer amount of data available to you, how do you filter through the noise of massive machine data to see what's different and relevant right now? You use SevOne. It automatically baselines every metric it collects —including logs — and alerts you when real-time performance deviates from historical norms. So, you get alerts that matter.

WHAT KIND OF DATA IS SUPPORTED?

Data Collection Type	Protocols and APIs Supported
Polling Technologies	SNMP v1-v3, ICMP, DNS, HTTP, NBAR, QoS
Flow Collection	NetFlow versions 5-9, IPFIX, sFLow, J-Flow
Response Time	IP SLA, ICMP, TCP Port Response, HTTP, and URL
VoIP Telephony	RTCP, SIP, and SOAP
Servers and Applications	SNMP, WMI, JMX, vSphere API, and Process Polling
3rd Party Data	SOAP API, xStats
Log Data	Syslog, statsD. Tomcat Perflogs, Apache logs, Unix Error/Cron logs, Cisco, Juniper, F5, Microsoft & more

SEVONE APPLIANCES – INTEGRATED METRICS, FLOWS AND LOGS

Performance Appliance Solution – SevOne PAS

An all-in-one monitoring solution available as a physical or virtual appliance, SevOne PAS is both a collector and a reporter with a distributed storage system. It supports a wide variety of collection methods, monitoring up to 200,000 objects per physical appliance, or billions when part of a SevOne Cluster™ -- all while storing up to one year of historical polled data.

Dedicated Netflow Collector – SevOne DNC

SevOne DNC is optimized for flow data collection and reporting. It supports up to 1,000 interfaces per appliance with collection rates of up to 12 million flows per minute, and can grow data collection infinitely as part of a SevOne Cluster™. It stores seven days of raw flow data and one year of aggregated flow data by default, including the top 200 results at one-minute intervals for each report, for each interface.

Performance Log Appliance – SevOne PLA

Available in physical or virtual appliances, SevOne PLA can be integrated with a SevOne Cluster™ for integrated metrics, flows and logs with one-click, metric-to-log integration or it can be deployed as a standalone. It automatically converts raw logs into measureable performance log metrics, with real-time thresholds, and first occurrence alerts on log activity.

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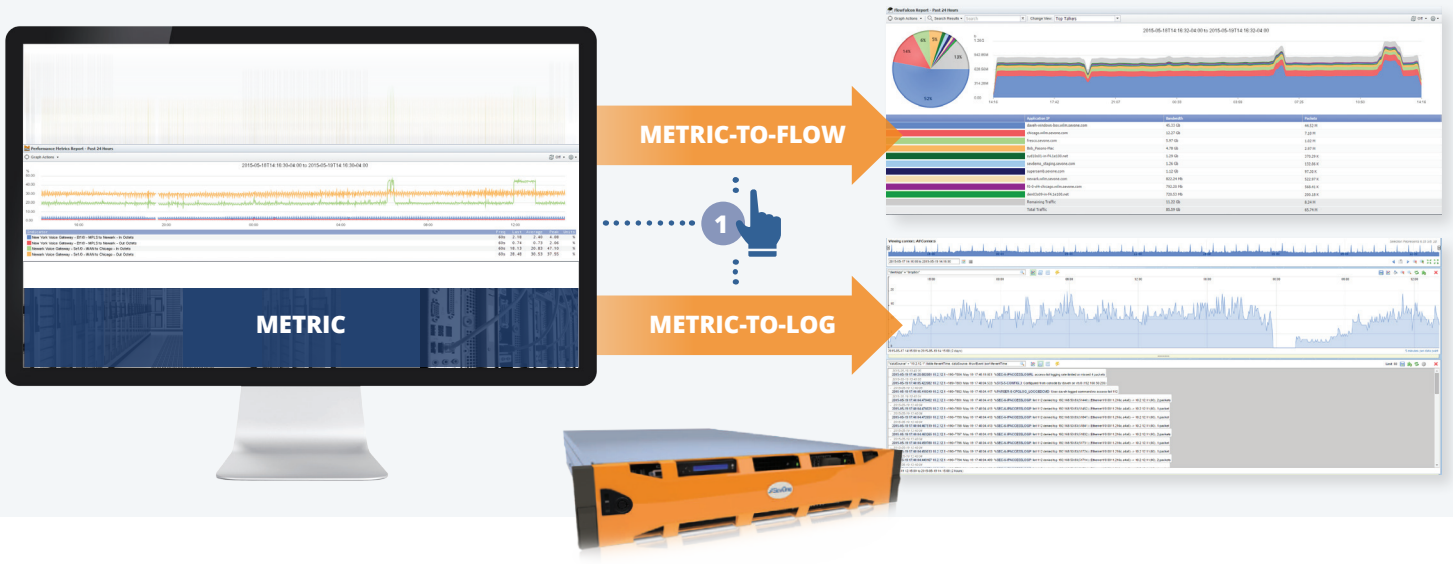
PERFORMANCE APPLIANCE SOLUTION:

A SINGLE DASHBOARD FOR INTEGRATED METRICS, FLOWS AND LOGS.

Today's hyperscale-based infrastructures are creating a tidal wave of data and information to be monitored and analyzed. By providing a single, easy-to-use dashboard that seamlessly integrates metrics, flows and logs, the SevOne Performance Appliance (PAS) provides true Speed at Scale – so you get access to all your data in real-time, for continuous service delivery insight.

SevOne PAS is today's fastest, most scalable and most comprehensive data collection, monitoring, reporting and analysis solution. Each appliance is capable of monitoring performance metrics and flow data -- all while scaling to support billions of monitored objects as part of a SevOne Cluster™. When integrated with the SevOne Performance Log Appliance, SevOne PAS becomes your single dashboard for integrated performance metrics, flows and logs across the entire infrastructure.

> **"SevOne has been a blessing. We can now get weeks worth of data in seconds."**
>
> – **Emil Buitrago**
> Advanced Network Operator - Cablevision



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WHY SEVONE PAS?

Get Broad and Scalable Flow Support
- Pinpoint issues in real-time, no matter what the infrastructure size.

Make the Most of Your Resources
- Optimize the economics of the business today (e.g. datacenter power/cooling analysis, server and CPU/workload utilization).

Plan for Capacity
- Confidently plan for needs like WAN links, CPUutilization and power usage.

Easily Monitor SLAs
- Guarantee availability and improve customer satisfaction.

Get Real-time and Historical Reports
- Ensure customer and end-user success and transparency, with executive dashboards that provide visibility across the business.

Monitor any Device
- View the entire infrastructure, including network, compute, storage, power and cooling.

Access All the Data No Matter Where it Comes From
- Analyze data from anything with a time-stamp.

Baseline at Scale
- Automatically baseline every data metric you collect – including logs – and get alerts when real-time performance deviates from historical norms.

Get Answers in Seconds
- Consolidate disparate tools into a single platform and dashboard.

SEVONE PAS APPLIANCES SPECIFICATIONS

Virtual PAS Host System Requirements					Physical PAS Appliance			
PAS Model	5K	10K	20K	100K	5k/10k	20K	60K	200K
Dell PowerEdge Rack Server	N/A	N/A	N/A	N/A	R620	R720	R720	R720xd
CPU	2 vCPU	4 vCPU	8 vCPU	8 vCPU	2 x Intel Xeon E5-2609, 2.4 GHz	2 x Intel Xeon E5-2630, 2.3 GHz	2 x Intel Xeon E5-2630v2, 2.6 GHz	2 x Intel Xeon E5-2680v2, 2.8 GHz
Memory	4GB	8GB	16GB	128GB	16GB (4x4GB)	64GB (8 x 8GB)	64GB (8 x 8GB)	256GB (16x16GB)
Hard Drives	150GB/ 600GB[1]	300GB/ 600GB[1]	600GB/ 600GB[1]	3000GB/ 3000GB[1] and 1K IOPS[2]	4 x 146GB, 15K RPM	6 x 600GB, 15K RPM	6 x 600GB, 15K RPM	24 x 300GB
Power Supplies	N/A	N/A	N/A	N/A	750W Redundant	750W Redundant	750W Redundant	1100W Redundant
Max BTU	N/A	N/A	N/A	N/A	2843 BTU/Hr	2843 BTU/Hr	2843 BTU/Hr	4416 BTU/Hr (DC) 4100 BTU/Hr (AC)
Rack Mountable Chassis	N/A	N/A	N/A	N/A	1 RU	2 RU	2 RU	2 RU
Dimensions (D x W x H)	N/A	N/A	N/A	N/A	27.61" x 18.99" x 1.68"	28.46" x 18.99" x 3.43"	28.46" x 18.99" x 3.43"	28.46" x 18.99" x 3.43"
Weight (max configuration)	N/A	N/A	N/A	N/A	40.96 lbs	64.3 lbs	64.3 lbs	64.9 lbs
Solid State Drive	N/A	N/A	N/A	N/A	N/A	N/A	365GB Fusion-io Drive	768GB Fusion-io Drive

Virtual pas host system requirements:
Intel-VT or AMD-V CPU extensions | VMware ESXi v5.0+

[1] – Used vs Provisioned Capacity
[2] – 1000 IOPS average over two hours

* Configurations are subject to change without notice

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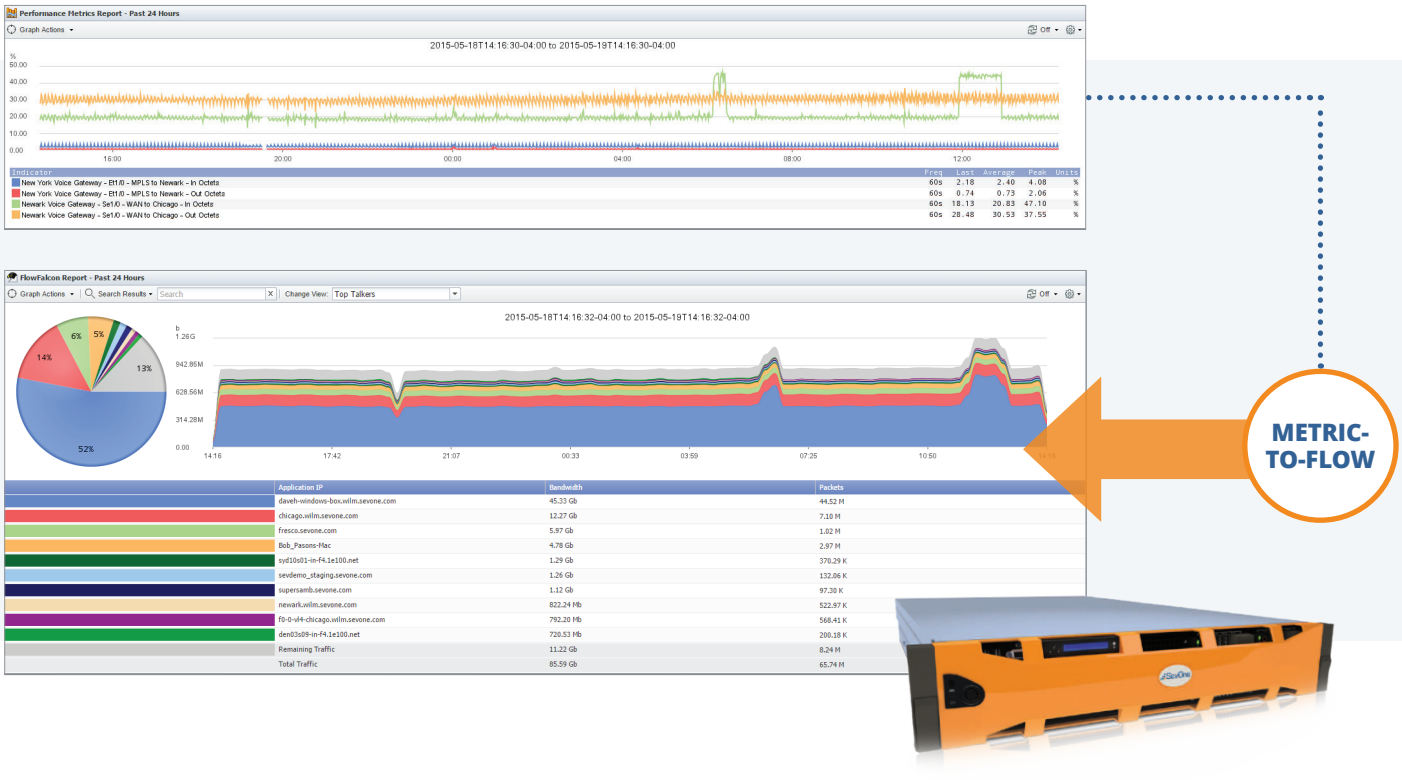
DEDICATED NETFLOW COLLECTOR:

METRIC TO FLOW ANALYSIS FOR FASTER TROUBLESHOOTING.

Today's complex infrastructures are creating unprecedented amounts of data to be monitored and analyzed. As a result, the ability to quickly troubleshoot is now paramount. By providing real-time flow analysis, SevOne Dedicated NetFlow Collector (DNC) helps you pinpoint potential problems on the spot.

SevOne DNC, not only allows you to quickly and easily spot bandwidth hogs and wasteful traffic; it also gives you insight into how specific applications are using your network. This information is critical when it comes to prioritizing traffic and creating policies that help eliminate waste.



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WHY SEVONE DNC?

Identify Rogue Applications

- View and customize lists of recognized applications attained through port-based identification.
- Use "Type of Service" (ToS) Filters to identify the traffic running on your network, non-approved applications consuming bandwidth, and the impact on your Quality of Service (QoS) policies.

Detect Micro Spikes

- Use one-second visibility of raw data to see small bursts of traffic that other tools miss.

Gain Immediate Access to Historical Data

- Store up to seven days of raw flow data and one year of aggregated flow data at one-minute intervals for each report template and interface.
- Troubleshoot low bandwidth and high impact events like DNS storms.

Pinpoint Top Talkers

- Quickly identify what type of traffic contributed to a spike, resolve DNS issues and check the "Next Hop" using the SevOne Top Talkers report.

Get Broad and Scalable Flow Support

- Avoid being limited to predetermined fields or templates, with the ability to monitor NetFlow v5/v9, Flexible NetFlow, Cisco NAM, Cisco Medianet, NBAR/NBAR2, IPFIX, sFlow, NetStream, Juniper J-Flow, and 200+ available fields of NetFlow.
- Collect up to 12 million flows per minute, and grow data collection infinitely as part of a SevOne Cluster™.

Flow Baselining and Alerting

- Better identify events, predict trends and gain visibility of application behavior leveraging an optional xStats Adapter.

SEVONE DNC APPLIANCES

Model Number	100	600	1000	1000HF
Dell PowerEdge Rack Server	R620	R720	R720	R720
CPU	2 x Intel Xeon E5-2609, 2.4 GHz	2 x Intel Xeon E5-2630, 2.3 GHz	2 x Intel Xeon E5-2667V2, 3.30GHz	2 x Intel Xeon E5-2650v2, 2.6 GHz
Memory	16GB (8 x 2GB)	64GB (8 x 8GB)	64GB (8 x 8GB)	128GB (16 x 8GB)
Hard Drives	4 x 146GB, 15K RPM	6 x 600GB, 15K RPM	6 x 600GB, 15K RPM	12 x 600GB, 15K RPM
Power Supplies	750W Redundant	750W Redundant	1100W Redundant	750W Redundant
Max BTU	2843 BTU/Hr	2843 BTU/Hr	4416 BTU/Hr (DC) 4100 BTU/HR (AC)	4416 BTU/Hr (DC) 4100 BTU/HR (AC)
Rack Mountable Chassis	1RU	2 RU	2 RU	2 RU
Dimensions (D x W x H)	27.61" x 18.99" x 1.68"	28.46" x 18.99" x 3.43"	28.46" x 18.99" x 3.43"	28.46" x 18.99" 3.43"
Weight (maximum configuration)	40.96Lbs	64.3Lbs	64.3Lbs	64.9Lbs

*Configurations are subject to change without notice

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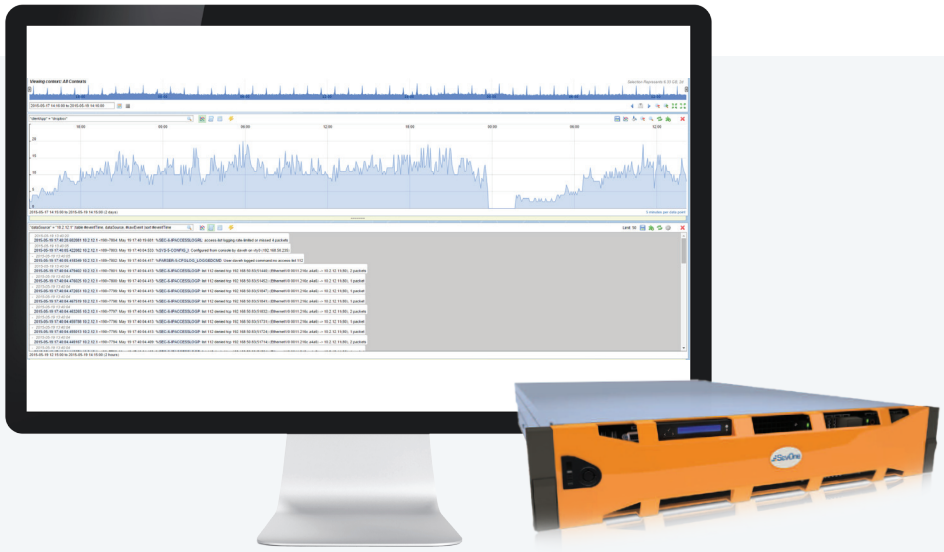
PERFORMANCE LOG APPLIANCE:
REAL-TIME ANALYTICS OF RAW LOG DATA.

With ever-increasing amounts of data to monitor and analyze, today's companies need solutions that provide true Speed at Scale. The SevOne Performance Log Appliance (PLA) helps achieve this goal by offering real-time analytics of raw log data.

SevOne PLA automatically converts raw logs into measureable performance log metrics, with real-time thresholds and first occurrence alerts on log activity. Available in physical or virtual appliances, it can be integrated with a SevOne Cluster™ for integrated metrics, flows and logs with one-click, metric-to-log integration, or it can deploy as a standalone.

> **"SevOne PLA has been a valuable resource for understanding the behavior of our end users, customers, applications, network and overall IT infrastructure."**
>
> – **Victor Hsiang**,
> Information Security Officer at GATX



REAL-TIME THRESHOLDS.

Get threshold-based alerts on raw log activity, in real time

FIRST-OCCURANCE ALERTS.

Receive notification when a new log type appears in your infrastructure

AUTOMATED BASELINES.

Get deviation-based alerts in real-time without the need for "swivel chair monitoring"

KEY BENEFITS OF SEVONE PLA

With SevOne PLA, you can move beyond traditional log search. With little or no input or configuration on your part, it extracts heavy streams of raw log data in real-time and correlates it to performance events, thereby eliminating the need for search in your process. It also increases application performance visibility by providing single-click drill-down from related data such as SNMP metrics to NetFlow records to syslog files.

- Automatically correlate real-time performance metrics with log data
- Improve visibility of the root cause of performance degradation
- Receive proactive alerts of customer and end-user behavioral trends
- Decrease time-to-troubleshoot
- Gain a greater understanding of how configuration changes impact application performance

10-DAY CERTIFICATION

When it comes to monitoring and analyzing raw log data, you need a solution designed to handle frequently changing log formats and a steady flow of new devices on the market. SevOne's 10-Day certification plan for new logs ensures your log monitoring and analysis system stays up to date with your evolving infrastructure.

SUPPORT FOR A VARIETY OF LOG TYPES

SevOne PLA supports numerous log types, including syslog, statsD. Tomcat Perflogs, Apache logs, Unix Error/Cron logs, Cisco, Juniper, F5 and Microsoft, among others.

SevOne PLA HARDWARE SPECIFICATIONS

Model	CPU	Disk	RAM	Notes
PLA10G	2x Xeon E5-2620 (2.0GHz)	5x 300GB 10K RPM	32GB	• Dell PowerEdge R620 • PERC H710P Integrated Raid Controller • Broadcom 5720 QP 1Gb NIC • 1U Rack Mountable Chassis
PLA25G	2x Xeon E5-2630 (2.3GHz)	6x 600GB 15K RPM	64GB (8 x 8GB)	• Dell PowerEdge R720 • PERC H710P Integrated Raid Controller • Broadcom 5720 QP 1Gb NIC • 2U Rack Mountable Chassis • 365GB Fusion-io Drive

SevOne vPLA HARDWARE REQUIREMENTS

Model	CPU	Disk	RAM	Notes
vPLA1G	4 Cores (64 bit)	100GB+	8GB	• IP address via DHCP by default • VMware ESX
vPLA5G	6 Cores (64 bit)	500GB+	16GB	• IP address via DHCP by default • VMware ESX

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