ManageEngine
NetFlow Analyzer

HighPerf Reporting Engine Benefits

Sharper Analytics in Shorter Time

What is HighPerf Reporting Engine?

HighPerf Reporting Engine is an add-on to ManageEngine NetFlow Analyzer that increases the raw data storage capabilities of ManageEngine NetFlow Analyzer. Besides increasing raw data storage, the columnar database aids speedy report generation.

The fundamental benefit of HighPerf Reporting Engine is that it provides sharper analytics in shorter time. The enhanced raw data availability helps the IT administrator drill down further into the root cause of network sluggishness and provide much better insights into network traffic patterns.

Why is it important?

The volume of traffic data is an exponentially increasing quantity. Traffic analysis is an important aspect of network bandwidth management. In order to improve accuracy of traffic analytics, it is important to store raw data for longer periods. Although aggregated data has its own advantages, raw data storage takes analytics to a new level of accuracy. Accurate analytics and sharper insights facilitate decisions such as capacity planning and provisioning enough bandwidth for certain critical applications on the network etc.

Raw data has a great impact on the analytical abilities of a tool. The more the volume of raw data that is available, the better. With HighPerf Reporting Engine, it is possible to store raw data for much longer periods of time and this sharpens the analytics that is provided by the tool.

The HighPerf Reporting Engine offers the following business benefits:

- Better bandwidth management
- Better capacity planning
- Better infrastructure decisions
- Better investment decisions
- Streamlining bandwidth usage
- Sharper analytics
- Optimizing resource usage

Technical Benefits:

Increased raw data storage capacity

Raw NetFlow-based data can now be stored for more than 6 months which empowers the IT administrator to drill down to such a long period of time whenever he wants.

Columnar database

The High-Performance Reporting Engine uses columnar database. It is proven that columnar database is best-suited for an analytics engine for the wide set of advantages it offers.

Shortened look-up time

The primary advantage of using columnar database is that it takes much lesser time to look-up for information that is searched. This factor is very critical for a HighPerf reporting engine and improves the speed of querying.

Saves Troubleshooting Time

When bulky volumes of data is processed in a matter of seconds, troubleshooting the issue happens speedily and thus helps solve network issues much faster.

Improved data compression

The High-Performance Reporting Engine has much improved data compression capabilities. This means huge savings in terms of disk space and increased data storage capabilities with existing storage infrastructure.

Assured Minimum Downtime

With improved storage and reporting capabilities, drilling down to the root cause becomes much faster. This has a highly positive impact on troubleshooting time thereby bringing down the network downtime considerably.

Better Capacity Planning

When raw data storage is increased, it enhances the capacity planning reports automatically. With availability of data for longer periods, the ability to perform better capacity planning giving much more sharper insights into the future bandwidth requirements.

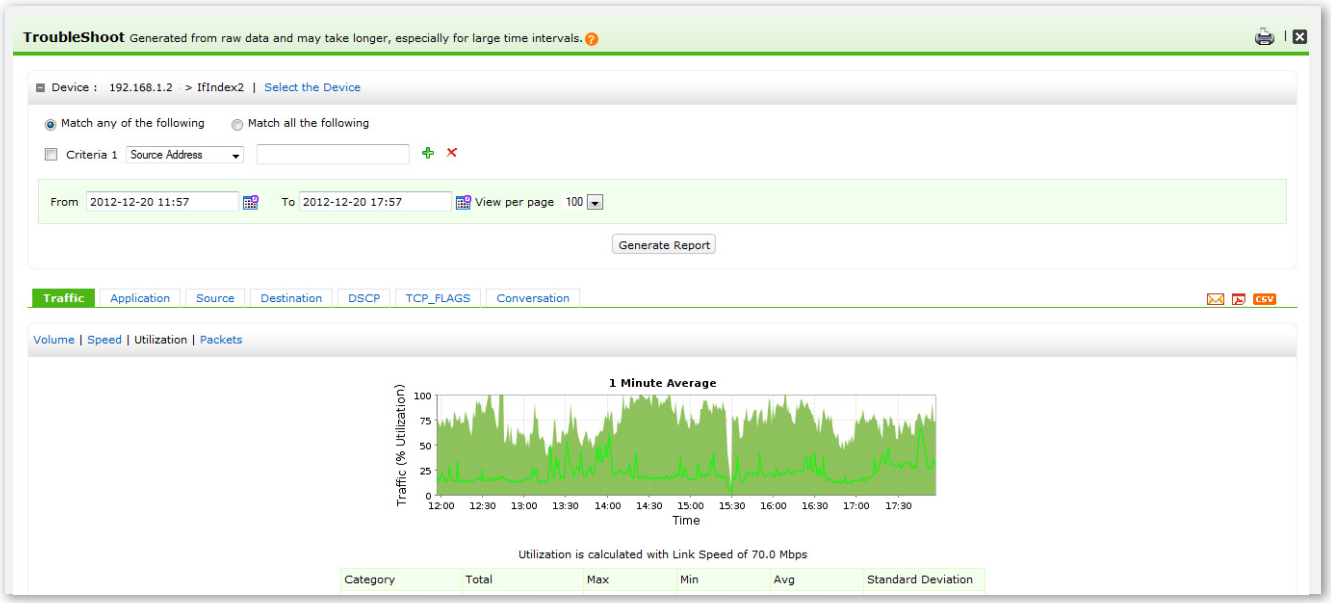
Insightful reports

IT Managers can substantiate their facts and figures with much more assertion as they can access raw data for a much longer period. This data is highly insightful to prove to the management the past and current usage patterns which in turn affect several policy and infrastructure based decisions.

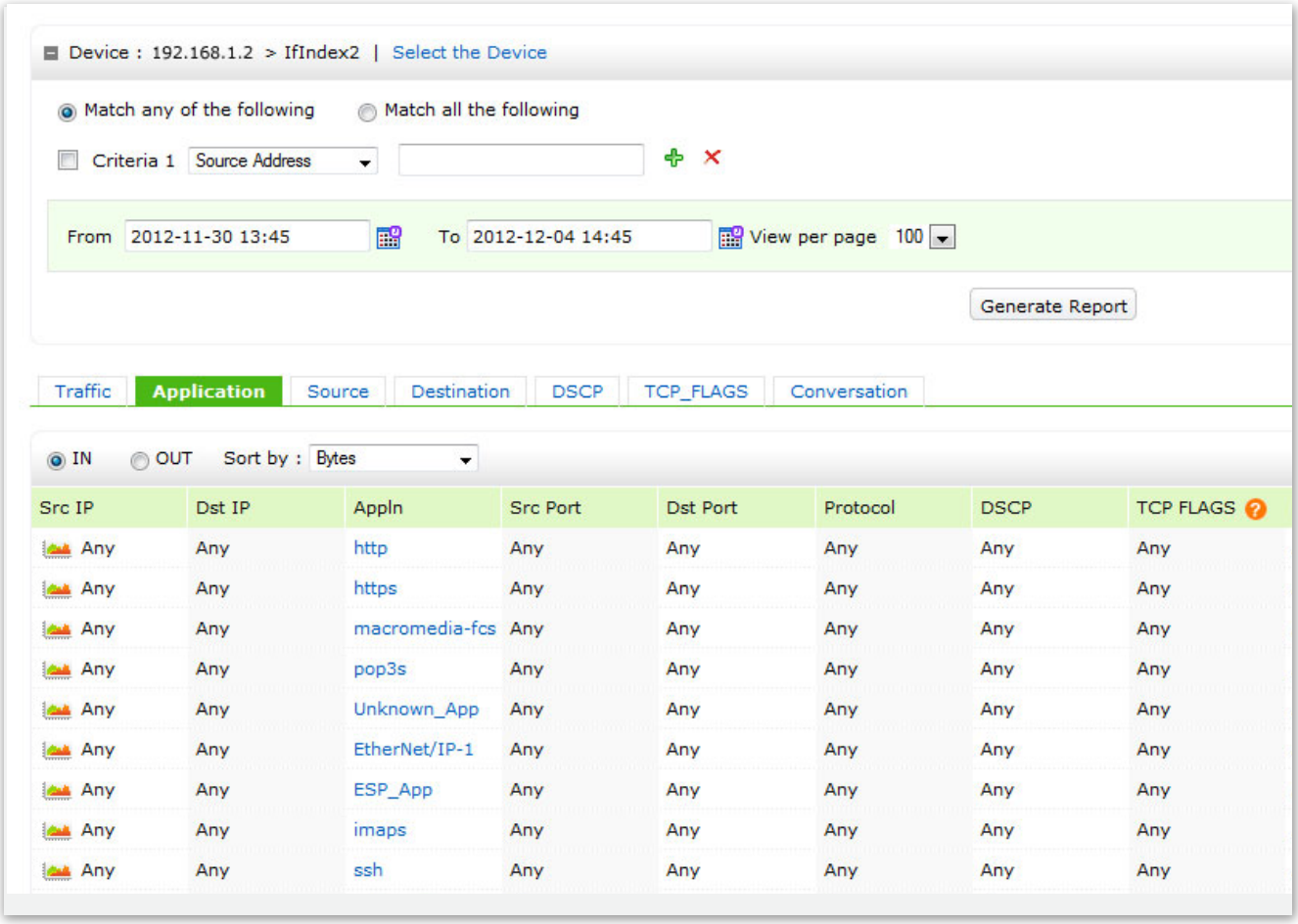
Better bandwidth management

The instant reports from high volumes of data give more accurate statistics on the bandwidth usage patterns based on which resource allocation is performed. The HighPerf Reporting Engine facilitates adopting more effective bandwidth management strategies to optimize the performance of your network.

Reporting Benefits:



The report shows the total IN and OUT traffic based on the raw data collected over that period of time.



Src IP	Dst IP	Appln	Src Port	Dst Port	Protocol	DSCP	TCP FLAGS
Any	Any	http	Any	Any	Any	Any	Any
Any	Any	https	Any	Any	Any	Any	Any
Any	Any	macromedia-fcs	Any	Any	Any	Any	Any
Any	Any	pop3s	Any	Any	Any	Any	Any
Any	Any	Unknown_App	Any	Any	Any	Any	Any
Any	Any	EtherNet/IP-1	Any	Any	Any	Any	Any
Any	Any	ESP_App	Any	Any	Any	Any	Any
Any	Any	imaps	Any	Any	Any	Any	Any
Any	Any	ssh	Any	Any	Any	Any	Any

The report shows the Application wise traffic statistics based on raw data. It is seen that http based applications contribute 762.39 GB of traffic followed by https based applications

System Requirements:

Flow Rate (flows/sec)	Processor	RAM	Hard-disk Space (for 6 months)	Server Type
0-500	2.4 GHz Dual Core Processor	4 GB	200 - 400 GB	64 bit
500-1000	2.4 GHz Dual Core Processor	4 GB	400 - 800 GB	64 bit
1000-1500	2.4 GHz Quad Core Processor	6 GB	800 GB -1.2 TB	64 bit
1500-3000	3.2 GHz Quad Core Processor	6 GB	1.2 - 2 TB	64 bit
3000-5000	3.2 GHz Quad Core Processor	8 GB	2 - 3 TB	64 bit
5000 - 10000	3.2 GHz Quad Core Processor	8 GB	3 - 6 TB	64 bit

Related links:

1) Installation Guide - www.manageengine.com/products/netflow/highperf-reporting-engine-installation-guide.pdf

2) FAQs - www.manageengine.com/products/netflow/highperf-reporting-engine-faqs.html

3) Additional resources - www.manageengine.com/products/netflow/highperf-reporting-engine-installation-resources.html