

Network Traffic Analysis Tools

User Guide



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Remarks: The NBAR, CBQoS and Google Map View functions are not applicable in this Network



Network Traffic Analysis Tools User Guide

1. <u>To access the Network Traffic Analysis tools</u>

Account Login		Step 1
MyAccount MyAccount Broadband Network	>	Go to http://hkbnes.net/en/accountser vices
Cloud Solutions Cloud Solutions Construction Cher Services	* * *	Click MyAccount
Account Type : eCS/ManagedBiz Username : eCS Username.	 Login Guideline Forgot Account No. / Username Forgot Password 	<u>Step 2</u> (a) Choose eCS/ManagedBiz in Account Type (b) Enter Username and Password (c) Click Login.
	登出 90000000時代資料等・	Step 3 Click the ManagedBiz icon.



HKBN

Dedicated Internet Access (DIA)

Cloud Computing Services / Infinite Server MPLS-IP-VPN / International IP-VPN

Manage Your Short Code

Metro Ethernet / Me IEPL Share Zone

General Account

Email cscorp@hkbnes.net

IDD 009

Data Centre

Internatio Line Details

< Back			Help
IDD 009 Dedicated Internet Access	Line Traffic Report	Network Traffic Analysis	
(DIA) Line Details Looking Glass Manage Your Short Code	Line Traffic Report Please select your Customer According	ount Number and click "Submit".	
Data Centre	Customer Account Number:	~	
Cloud Computing Services / Infinite Server	Submit >		
MPLS-IP-VPN / International IP-VPN	Channel and the second s		
Metro Ethernet / MetroNet			
SMS Broadcast			
Share Zone			
General Account			
MyAccount			
Email			
cscorp@hkbnes.net			

Line Traffic Report Packet Loss Monitoring Service Availability / Latency

×

Please select your Customer Account Number and click "Submit".

O Line Traffic Report

Customer Account Number:

Submit :

Network Traffic Analysis

Network Traffic Analysis Tools User Guide

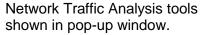
<u>Step 4</u>

To view Network Traffic Analysis report of **Dedicated Internet Access (DIA).**:

- (a) Click Dedicated Internet Access (DIA).
- (b) Click on the tab Network Traffic Analysis.
- (c) Select account number and click **Submit**.

To view Network Traffic Analysis report of **MPLS-IP-VPN /** International IP-VPN:

- (a) Click MPLS-IP-VPN / International IP-VPN.
- (b) Click on the tab Network Traffic Analysis.
- (c) Select account number and click **Submit**.

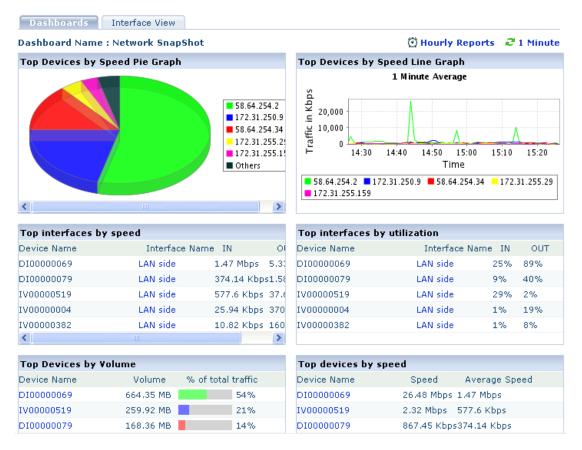


香港 宣頻 6 X 0 X 6									14557396003 1aged:Biz
		Dashboards	nterface View	1					
All Devices	4	Dashboard Name : N	Network Snap	Shot			() Hourly	Reports	2 1 Minute
CPE		Top Devices by Spe	ed Pie Graph			Top devices by spe	ed		
Google Map View						Device Name	Speed	Average	Speed
						IV00000162-IV00	571.85 Kbps	- 39.18 Кbp	s.
IP Group	-					IV00000164-IV00	297.33 Kbps	23.54 Kbp	s
All Groups					31.255.15	1000000163 1000	0.00 0.00		
All Groups					31.255.16	IV00000164-IV00	0.00	0.00	
					98.174.22				
				/ _					
						Top interfaces by u			
					>	Device Name		e Name I	
		<			7	IV00000162-IV00000		29	
		Top interfaces by s	peed			IV00000164-IV00000		19	
		Device Name	Interfac	e Name IN	our	IV00000164-IV00000		03	
		IV00000162-IV000001	63LAN side	39.18	Kbps23.38	IV00000162-IV00000	L63LAN SIDE	03	6 0%
		IV00000164-IV000001	65LAN side	23.54	Kbps34.47				
		IV00000164-IV000001	65LAN side	0.00	0.00	Top Devices by Spe	eed Line Grap	h	
		IV00000162-IV000001	63LAN side	0.00	0.00		1 Minute Avera	ge	
	4	<			>	2 2			
						å 500,000			
		Top Devices by Volu				G 500,000			
		Device Name	Volume	% of total tra		the state	NAK	M	And
		IV00000162-IV00	17.63 MB		2%	⊨ 0 <u>14:20</u>	14:30 14:40		15:00 15:1)
		IV00000164-IV00	10.59 MB	-	B%		Tin	ne	
		IV00000162-IV00	0.00	01		172 31 255 159			



2. The Network Snapshot View

The Network Snapshot View is the default page after logging in to the Network Traffic Analysis Tools. It displays the information of top devices, top interfaces and top IP groups.



The time period of the report can be modified using the select period icon (2). You can select "Last Hour", "Last 6 Hours", "Today" or "Last 24 Hours".

The time period to update the report can be modified as well, you may click the *≥* icon to select "Never", "Every 1 minute", "Every 5 minutes" or "Every 10 minutes".

Clicking any Device Name will link to the Interface View of that particular device, while clicking any Interface Name will link to the Network Traffic Analysis reports of that interface.



3. The Interface View

The Interface View lists all the interfaces from which the Network Traffic Analysis tools have received.

🕘 ManageEngine NetFlow Analyze	er 7 - Microsoft Internet Expl	orer (
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help		
香港 変頻 Nonge Konge			^
Device Group	Dashboards Interface	View	≡
All Devices	Select Period Last Hour	✓ From : Jan-06-10 15:14 and Jan	-06-10
CPE	Router Name	Sort By Na	ime
Google Map View	臂 D10000039	Interface Name 👻 IN Traffic	
IP Group	IP: 203.98.138.233 Flows Received:	🖌 🗠 LAN side 🛛 1%	57.93
All Groups	3554606 NBAR MIB: Supported		
	CBQoS Policy: Not Applied		
	E DI0000069	1 Interface(s)	
	E DI0000079	1 Interface(s)	
	E IV0000024	1 Interface(s)	~
<			>

Click on the tab **Interface View** or click **All Devices** under **Device Group** to view all interface.

OR

Simply click on any Device Name to access the Interface View of a particular device.

3.1. Status description

Dashboards Interface View				More Report	ts▼
Select Period Last Hour	From : Dec-03-09 09:35 and Dec-03-09 10:35			Refresh: Every 1 Mir	nute 🗷
Router Name		Sort By 🚺	lame 💌 [Show All Hide All	Filter
😭 I¥06000099-I¥06000100	Interface Name 👻	IN Traffic	OUT Traffic	Alerts	
IP: 58.64.255.26 NetFlow Packets Rcvd: 196786	♂↓ Status: Link up. Last flow received a	t 2009-12-03 10:35	8% 3	303.34 Kbps -	8 8 (3
😤 IV06000101-IV06000102	Interface Name	IN Traffic	OUT Traffic	Alerts	
IP: 59.188.194.78 Elows Received: 5692732	🗢 🕍 Vlani	8% 315.	2 Kbps 2%	68.33 Kbps -	88 G

lcon	Description
1	The Status of the interface is unknown and no flows have been received for the past 10 minutes. The interface is not responding to SNMP requests.
 Image: A start of the start of	The interface is responding to SNMP requests and the link is up, but no flows have been received for the past ten minutes.
 Image: A start of the start of	The link is up, and flows are being received.
0	The interface is responding to SNMP requests and the link is down and no flows are being received.



3.2. Icon/ Button descriptions

Dashboards Interface View				More Rep	ortsŦ
Select Period Last Hour 💌 Fro	m : Dec-03-09 08:38 and Dec-03-09 09:38			Refresh: Every 1	Minute 🗹
Router Name		Sort By Name	✓ [Show All Hide A	ll Filter]
🗣 IV06000099-IV06000100	Interface Name 👻	IN Traffic	OUT Traffic	Alerts	
L.g		INTIMIC		Alerts	
IP: 58.64.255.26 NetFlow Packets Rcvd: 196380	🕑 🕍 Vlani	2% 79.66 Kbps		550.4 Kbps -	88 Q

Icon/ Button	Purpose
₽	Click this icon, or the router name, to view the interfaces corresponding to the router.
Ę .	Click this icon to hide the interfaces corresponding to the router.
2	Click this icon to set the time period for refreshing the page contents.
0 mg	Click this link to troubleshoot an interface. You can troubleshoot only one interface at a time.
	Click this icon to have a preview of the traffic graphs without drilling down in to each interface.
Ø	Click this icon to see all traffic details of an interface at one glance.
Show All	Click the Show All link to display all routers' interfaces on the Dashboard.
Hide All	Click the Hide All link to hide all interfaces and show only the router names in the Router List.
Filter	You can set filters on the Dashboard view to display only those interfaces whose incoming or outgoing traffic values exceed a specified percentage value. Click the Filter link to specify minimum percentage values for IN or OUT traffic. Click the Set button for the changes to take effect. The filter settings are then displayed beside the Filter link. Click the X icon any time to clear the filter settings and display all interfaces on the Dashboard again.



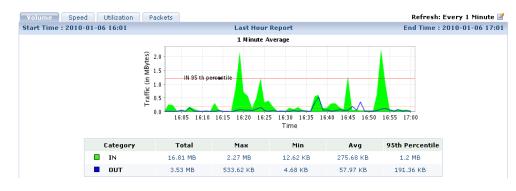
4. <u>To view detailed Network Traffic Analysis report of an interface</u>

4.1. Traffic

The **Traffic** tab shows real-time traffic graphs for incoming and outgoing traffic. Tabs above the traffic graph allows you to view the graph in terms of volume of traffic, speed, link utilization and number of packets received.

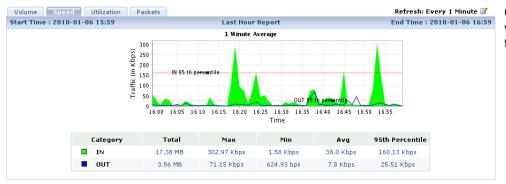
The table shows the legend, along with total, maximum, minimum, and average traffic values for this interface or IP group, for the selected time period.

<u>Volume</u>



Click on the tab **Volume** to view graph of network traffic volume.

Speed



Click on the tab **Speed** to view graph of network traffic volume.

Utilization



Click on the tab Utilization to view graph of network traffic volume.



Packets



4.2. Application

The **Application** tab shows you the top applications and top protocols for the selected time period. The default view shows the **Top Application IN Report**. This report shows the distribution of incoming traffic application-wise.

Choose **IN** or **OUT** to display the application-wise distribution of incoming or outgoing traffic respectively.

ManageEngine NetFlow Analyzer 7 - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	At
	(product) ^ Managed:Biz
☐ IV00000162-IV00000163> LAN side 💌	More Reports▼ Dashboards ▼
Traffic Application Source Destination QoS Conve	ersation NBAR CBQoS 🖂 🔀 🖙
	To: 2010-01-06 17:20
Application Groups Protocol Distribution	🕢 Showing 1 to 5 🕨 View per page 5 💌
Application Traffic(Total: 14.21 MB)	Percentageoftotaltraffic
TCP_App [Show Ports] 12.4 MB	87%
🗠 netbios-ns 657.98 KB	5%
snmp 224.9 KB	2%
netbios-ssn 113.59 KB	1%
microsoft-ds 96.39 KB	1%
▲ Show	ing 1 to 5 🕨
Top Traffic - ApplicationIN	
IV00000162-IV00000163 [LAN side]	-57%
	>

The table shows the distribution of traffic per application. You can see the traffic of each application, and how much of the total bandwidth was occupied by that application.

The pie chart shows the percentage of bandwidth used by each application.



To view top protocols

Click the **Protocol Distribution** link to see the top protocols for the selected interface or IP group, in a new window. Choose **IN** or **OUT** to display the protocol-wise distribution of incoming or outgoing traffic respectively.

🗿 Manage	Engine NetFlow	Analyzer 7 - Microsoft Internet	Explorer			
⊙ IN	🔘 оит	Last Hour Report 🛛 💌	From: 2010-01-0	6 16:17	To: 2010-01-06 17:17	~
Top Proto	col IN Report					
					Start Time: 20	10-01-06 16:17
Volume	Speed	Utilization			End Time: 20	10-01-06 17:17
			1 Minute Average			
		001 Table 100 Ta				
		16:15 16:20 16:25 1	6:30 16:35 16:40 16:45 16:50 Time	16:55 17:00	17:05 17:10 17:15	
			TCP UDP ICMP			
			Showing 1 to 3		View pe	er page 50 💌 📒
Protocol		Traffic (To	tal: 16.73 MB)	Percentage	of total traffic	
тср		15.49 MB		93%		
UDP		965.31 KB		6%		
ICMP		5.29 KB		<1%		
Others		270.45 KB		2%		
Top Traf	fic - ProtocolIN					
		LAN side [IV06000162-IV0600	00163]	<u>_</u>		
			00 24 65	0		
🎒 Done					🍎 Int	ernet

4.3. Source

The **Source** tab shows the top source hosts contributing to traffic in the selected time period. The default view shows the **Top Source IN Report**. Choose **IN** or **OUT** to display the top hosts of incoming or outgoing traffic.

TOXG		Iprodu Managed:B	_
	163> LAN side 🗸	More Reports	
Traffic Applica	ation Source Destination QoS	Conversation NBAR CBQoS 🖂 🔀 🖙	_
⊙ IN O OUT	Last Hour Report 🕑 From: 2010-01-06 16:3	1 To: 2010-01-06 17:31	
Resolve DNS Show Net	twork	Showing 1 to 5 View per page 5	~
Source	Traffic(Total: 13.08 MB)	Percentageoftotaltraffic	
🛕 📝 192.168.13.17	11.05 MB	84%	
🛕 📝 192.168.13.13	429.45 KB	3%	
🛕 📝 192.168.77.8	324.21 KB	2%	
🛕 📝 192.168.13.33	293.08 KB	2%	
🛕 📝 192.168.77.18	222.85 KB	2%	
	4	Showing 1 to 5 🕨	
op Traffic - SourceIN			
	IV00000162-IV00000163 [LAN side]		
		6	
	2%		
	69		

The default report view shows the IP addresses of the hosts. Click the **Resolve DNS** link to see the corresponding DNS values.

Click the **Show Network** link to see the networkwise top sources and destinations.



4.4. Destination

The **Destination** tab shows the top destination hosts contributing to traffic in the selected time period. The default view shows the **Top Destination IN Report**. Choose **IN** or **OUT** to display the top hosts of incoming or outgoing traffic.

<u>File E</u> dit	⊻iew F <u>a</u> vorites <u>T</u> ools	telp				
wt new v	world telecom®			[product Managed:Biz		
🔂 IVO	00000162-IV00000163	> LAN side 🗸	More Report	s▼ Dashboards ▼		
Tr	affic Application	Source Destination QoS	Conversation NBAR CBQoS	🖂 🛃 csv		
⊙ IN	O OUT	ur Report 💌 From: 2010-01-06 16	:39 To: 2010-01-06 17:39			
Resolv	e DNS Show Network		Showing 1 to 5	View per page 😙 🔽		
Marka D	estination	Traffic(Total: 14.44 MB)	Percenta	geoftotaltraffic		
날 🏹	192.168.10.56	7.24 MB	50%			
🕍 📝	192.168.10.59	2.02 MB	14%			
🗠 🗹	192.168.10.73	1.67 MB	12%			
🕍 📝	192.168.10.57	1.4 MB	10%			
🖄 📝	192.168.13.255	654.98 KB	5% 📕			
			Showing 1 to 5			
T T	affic - DestinationIN					
TOP IT						
	IVOOD	00162-IV00000163 [LAN side]	<u></u>			
		10%				
		5%				
		10%				
			50%			
		12%				
		14%				
		14%				

The default report view shows the IP addresses of the hosts. Click the **Resolve DNS** link to see the corresponding DNS values.

Click the **Show Network** link to see the networkwise top sources and destinations.

4.5.QoS

QoS or Quality of service is the most important factor that determines how effective the available enterprise bandwidth is being used in the WAN. It is also an index of the overall User Experience of the available Bandwidth. Choose IN or OUT to display the top DSCP IN or OUT Report.

ManageEngine NetFlow Analyzer 7 - Microsoft In	ternet Explorer		
<u>File Edit View Favorites Tools Help</u>			#
			[product] Managed Biz
🖆 IV00000162-IV00000163> LAN side 💌		More R	eports▼ Dashboards ▼
Traffic Application Source	Destination QoS Conve	ersation NBAR CBQoS	🖂 🛃 🥵
O IN ○ OUT Last Hour Report ✓	From: 2010-01-06 16:44	Fo: 2010-01-06 17:44	
View DSCP Group Show Applications DSCP	IN ToS IN	Showing 1 to 1	View per page 5 💌
🔛 DSCP	Traffic(Total: 13.84 MB)	Percentage of total traf	fic 📲
🗠 Default	13.74 MB	99%	
unaccounted	104.69 KB	1%	
	Showing	1 to 1 🕨 Cisco R	ecommended QoS Baseline
Top Traffic - DscpIN			
IV00000162-IV00000	163 [LAN side]	2	
	Default Others	99%	
<			>

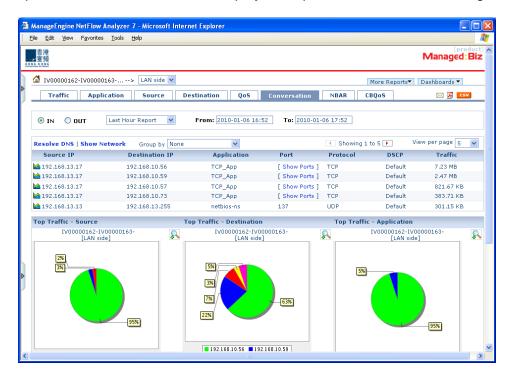
Click the Show Applications link to list out the various DSCP values along with the list of applications that comprise the DSCP. It also lists out details on Traffic and percentage utilization of the total traffic by each of the applications and the DSCP group as a whole.

Click the icon next to the DSCP value for a detailed traffic graph in a pop-up window.



4.6. Conversation

The **Conversation** tab shows the top conversations contributing to traffic in the selected time period. Choose **IN** or **OUT** to display the top conversations of incoming or outgoing traffic.



The pie charts below this report show the top sources, destinations, and conversations contributing to traffic for the selected time period.



5. More Reports

5.1. TroubleShoot Reports

The **TroubleShoot** link allows you to set criteria and view specific details about the traffic across a single interface. Data for Troubleshooting Reports is taken directly from raw data. Which means that Troubleshooting Reports will be available only for the maximum time period of 1 day.

Click the **TroubleShoot** link under **More Reports** in the detailed traffic report view. Or click the **W** icon against an interface on the Interface View.

More Reports*				
TroubleShoot				
Consolidated				
Search				
Compare				

ManageEngine NetFlow Analyzer 7 - Microsoft Internet Explorer			×
TroubleShoot Generated from raw data and may take longer, especially for large time intervals. 🕜	÷	×	^
Device :IV00000162-IV00000163 (LAN side) [Select the Device]			
Add More Remove			
Criteria 1 Source Address			
From 2010-01-07 13:27 🔛 To 2010-01-07 14:27 🔛 View per page 50 💌 Generate Report	t		~
🛃 Done	t		

Click the **Select the Devices** link to change the interface that you want to troubleshoot.

Under Search Criteria, enter the criteria on which traffic needs to be filtered. You can enter any of the following criteria to filter traffic:

- Source/Destination Address
- Source/Destination Network
- Source/Destination Nodes
- Application
- Port/Port Range

The **From** and **To** boxes allow you to choose specific time periods for the report. You can click the icon to select the date and time. You should ensure that the time period selected falls within the Raw Data Retention Period of 1 day, otherwise no data will be shown in the graphs.

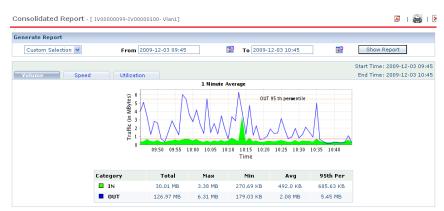
Once you have set all the desired criteria, click the **Generate Report** button to display the corresponding traffic report.

The default report view shows the IP addresses of the hosts. Click the **Resolve DNS** link to see the corresponding DNS values.



5.2. Consolidated Reports

Consolidated Reports allow you to see all the traffic details for an interface or IP group at one glance.



ApplicationOUT [126.97 MB]

TCP_App [Show Ports]61.9 KB

Traffic

72.03 MB 38.76 MB

14.91 MB

260.73 KB

94.04 KB

75.99 KB

56.32 KB

54.57 KB

53.22 KB

595.67 KB

Application

http lotusnote

netbios-ssr

ms-sal-m

Oracle

kerberos

nsmq

domain

Others

microsoft-ds

Click the Consolidated link
under More Reports in the
detailed traffic report view.

More Reports▼
TroubleShoot
Consolidated
Search
Compare

The same report can be accessed from the Interface View when clicking the icon against an interface or IP group.

Re	su	 е	Dr	• •	

SourceIN [30.01 MB] Source

10.10.20.11 10.10 06 514

10.10.20.115

10.10 20.115

10.10.20.112

10.10.20.11.5

10.13.20.53

Others

10.10.20.110

Traffic

16.57 MB 4.61 MB

4.25 MB

1.47 MB

1.43 MB

1.03 MB

273.29 KB

51.11 KB

281.56 KB

ApplicationIN [30.01 MB]					
Application	Traffic	Traffic Percentage			
netbios-ssn	16.16 MB	54%			
http	8.19 MB	27%			
lotusnote	4.46 MB	15%			
microsoft-ds	317.66 KB	1%			
smtp	271.38 KB	1%			
TCP_App [Show Po	rts]82.25 KB	<1%			
kerberos	53.97 KB	<1%			
Idap	50.92 KB	<1%			
domain	23.34 KB	<1%			
icmp	21.06 KB	<1%			
Others	367.76 KB	1%			

Traffic Percentage

55% **1**5% **1**

14%

5%

5%

3% .

1%

1%

<1%

Source	Traffic	Traffic Percentage
128.128.3.00 192	72.55 MB	57%
128.128.106 2.3	38.06 MB	30%
128.128.100.155	14.64 MB	12%
128 118.109.201	678.41 KB	1%
128.128.356.16	306.88 KB	<1%
172-16.100-3	188.25 KB	<1%
128.128.100.4	134.89 KB	<1%
128/10/03/02:45	47.99 KB	<1%
128.128.100.131	45.89 KB	<1%
125.129.100.2	31.99 KB	<1%
Others	272.37 KB	<1%

Traffic Percentage

57% 31%

12%

<1%

<1%

<1%

<1%

<1%

<1%

<1%

<1%

DestinationIN [30.01 MB]			DestinationOU	DestinationOUT [126.97 MB]		
Destination	Traffic	Traffic Percentage	Destination	Traffic	Traffic Percentage	
128.128.100.155	16.06 MB	54%	10.10.20.407	44.61 MB	35%	
128.128.100.142	8.17 MB	27%	10.10 25.12%	26.76 MB	21%	
128.128.100.200	4.4 MB	15%	10.10.20.148	18.55 MB	15%	
128.128.100.155	271.38 KB	1%	10.10.20.135	14.69 MB	12%	
128,123,100 4	185.93 KB	1%	10.0.20.712	14.33 MB	11%	
172,16,305 8	166.18 KB	1%	10.00.20.115	6.81 MB	5%	
128,128,100.13	164.97 KB	1%	10.10.20.315	971.62 KB	1%	
128.128.100	54.31 KB	<1%	10.15.25.50	6.66 KB	<1%	

The **Custom Selection** box allows you to select different time periods for the traffic data.

- The 1 Hour Report and 1 Day Report options show you the traffic details over the past one hour and one day respectively.
- The 8AM to 8PM option shows you the traffic details from 8 a.m. to 8 p.m. of the previous • day. This is a peak hour report, based on the normal working hours of an enterprise.

Apart from these options, the From and To boxes allow you to choose specific time periods for the report. You can click the i icon to select the date and time. Once you have set the desired time period, click the Show Report button to display the corresponding consolidated report.

The default report view shows the IP addresses of the hosts. Click the Resolve DNS link to see the corresponding DNS names.



5.3. Search Reports

The **Search Reports** allow you to set several criteria and view specific reports. This is especially useful in finding out the bandwidth utilization of a specific host or application. Custom reports can also show the details about a certain application and which hosts are using the application, thereby helping to troubleshoot, and even detect virus activities. Click **Search** under **More Reports** in an Interface View or in detailed traffic report view.

More Reports▼			
TroubleShoot			
Consolidated			
Search			
Compare			

ManageEngine NetFlow Analyzer 7 - Microsoft Internet Explorer						
Search Report						
Selected Devices [Select the Device]						
I¥00000162-I¥00000163 (LAN side)						
Search Criteria						
Match any of the following	O Match all the following					
Criteria1 Source Address 🗸						
Criteria2 Destination Address 🗸						
Criteria3 Application						
From 2010-01-07 10:51 📰 To 2010-01-07 11:51 🖼	IN & OUT Traffic 💌 View per page 50 💌 Generate Report					
🙆 Done	🔮 Internet					

Upon clicking the **Search** link, a pop-up window comes up. In the pop-up window, click the **Select the Device** link to choose the interfaces on which the report should be generated.

Under **Search Criteria**, enter the criteria on which traffic needs to be filtered. You can enter any of the following criteria to filter traffic:

- Source/Destination Address
- Source/Destination Network
- Source/Destination Nodes
- Application
- Port/Port Range

The **From** and **To** boxes allow you to choose specific time periods for the report. You can click the icon to select the date and time. Use the **IN/OUT** box to display values based on IN traffic, OUT traffic, or both IN and OUT traffic. The **View per page** lets you choose the number of results to display.

Once you have set the desired criteria, click the **Generate Report** button to display the corresponding traffic report. The default report view shows the IP addresses of the hosts. Click the **Resolve DNS** link to see the corresponding DNS values.



5.4. Compare Reports

Compare devices feature lets the user compare multiple devices for the same time period or compare the same device over different time periods. Click **Compare** under **More Reports** in an Interface View or in detailed traffic report view.

More Reports*
TroubleShoot
Consolidated
Search
Compare

🗿 ManageEngine NetFlow Analyzer 7 - Microsoft Internet Explorer	
NetFlow Analyzer Global Report	
Report Type Compare multiple devices for the same time period Select Period Today	Minimize
Select the Device Interface Top 10 Interfaces by Utilization [Modify]	Generate Report

Field	Purpose/Description	
Report Type	The report type could be: Compare multiple devices over the same time period; or Compare same device over different time periods 	
Select Period	When the Report Type is chosen as - <i>Compare multiple devices over the same time period</i> , the available Periods are <i>Last Hour, Last 6 Hour, Today, Last 24 Hours, Yesterday, Last Week, Last Month, Last Quarter</i> and <i>Custom Selection</i> . Custom Selection allows users to get the report of a specified time period.	
	When the Report Type is chosen as -Compare same device over different time periods, the available Periods are Every Day Report, Every Hour Report, Every Week Report and Every Month Report.	
Select Device(s)	This allows the user to select the device (if the same device is to be compared over various time periods) or the set of devices (that are to be compared for a single time period). The Select Devices option allows the user to select the devices in terms of Interface or IP Group which can be modified by clicking the Modify button (by default the top 10 interfaces or IP Group by utilization are chosen).	
Generate Report	The Generate Report invokes the report of defined criteria. The Report Options could be: • Show Speed; • Show Utilization; or • Show Packets	
Maximize	When the Generate Report option is invoked, the filter condition frame is minimized to offer a better view of the graph (report) without scrolling. The filter frame can be restored by clicking the Maximize button.	
Minimize	The Minimize button can be used to minimize the filter frame for a better view of the report (graph) generated without scrolling	